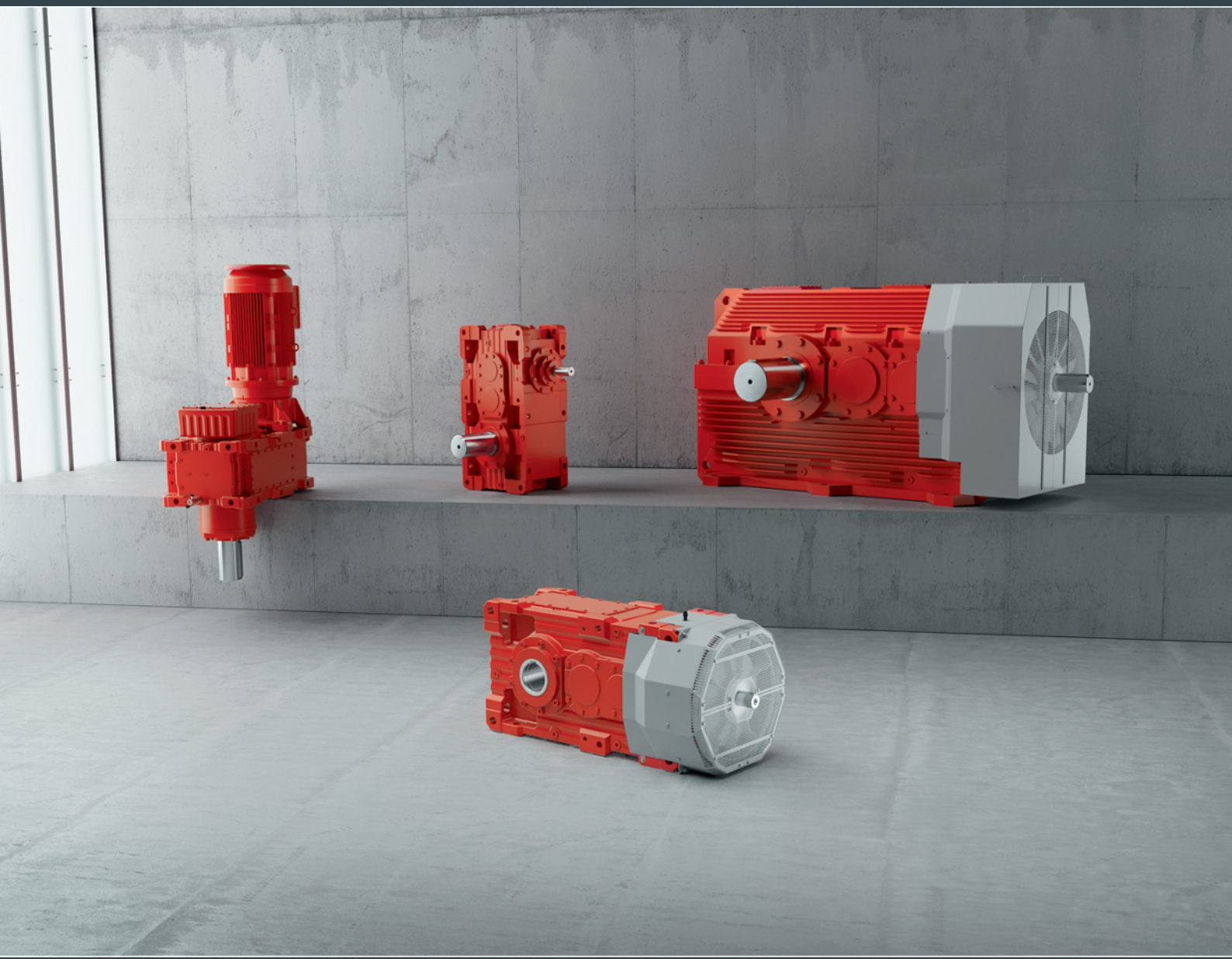
SEW EURODRIVE

Catalog



Industrial Gear Units

X..e Series Helical and Bevel-Helical Gear Units

Torque Classes from 7.2 kNm to 500 kNm

Edition 07/2023

30593506/EN

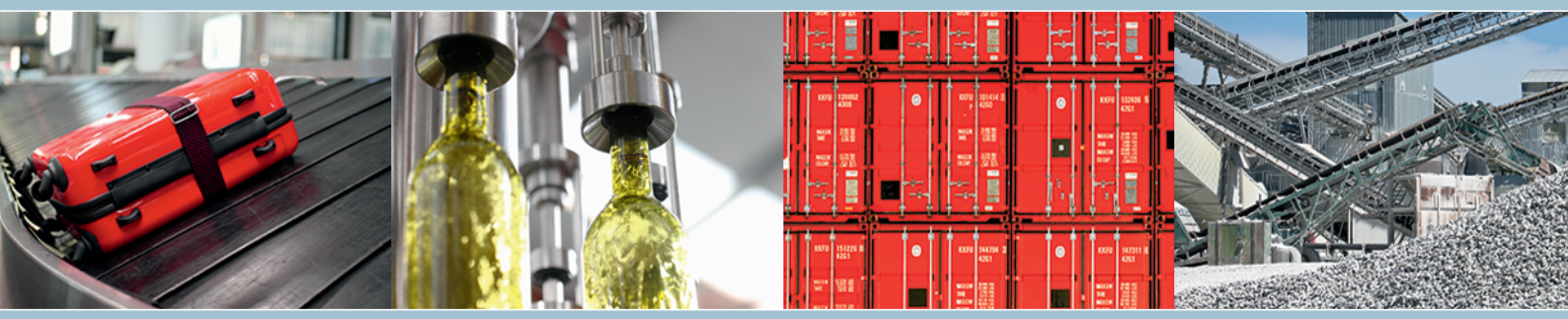


Table of Contents

1 Introduction 7
1.1 What do we stand for? 7
1.2 Where can you find us? 7
1.3 What do we offer? 8
1.4 What are the goals we want to reach with you? 9
1.5 Why should you choose SEW-EURODRIVE? 9
1.6 Documentation 11
1.7 Product names and trademarks 12
1.8 Copyright notice 12
1.9 Important information 12
1.10 Decimal separator in numerical values 12
1.11 Recycling, reprocessing, reuse 12

2 Product description 13
2.1 Product characteristics 14
2.2 Added value in the Generation X.e modular system 15
2.3 Extended warranty 16
2.4 X..e power range 17
2.5 Customer-specific application solutions 18
2.6 Nameplate 22
2.7 Type designations 24
2.8 Housing designs 25
2.9 Mounting position 29
2.10 Mounting surfaces 33
2.11 Shaft position 34
2.12 Corresponding directions of rotation 36
2.13 Overview of the lubrication and cooling types 39
2.14 Lubricant selection 41
2.15 Lubricant table 43
2.16 Sealing greases/rolling bearing greases 51
2.17 Reversible gear units 52
2.18 Fixed and variable pivoted mounting positions 53
2.19 Coating and surface protection systems 58
2.20 Storage and transport conditions 60
2.21 Ambient conditions 62
2.22 Potentially explosive atmospheres (ATEX) 62
2.23 Gear unit characteristics 63

3 Options and accessories 64
3.1 Input and output shafts 64
3.2 Torque arm /T 72
3.3 Mounting flange /F 73
3.4 Sealing system 74
3.5 Oil expansion tank /ET 81
3.6 Shaft end pump 82
3.7 Accessories 85

30593506/EN – 07/2023

3.8 Cooling ... 86
3.9 Oil heater /OH ... 95
3.10 Flange coupling with cylindrical interference fit /FC-S ... 99
3.11 Flange coupling with keyway /FC-K ... 99
3.12 Backstop /BS ... 100
3.13 Motor adapters /MA ... 102
3.14 V-belt drives /VBD ... 105
3.15 Drive packages on a steel construction ... 105
3.16 Breather /BPG ... 108

4 Condition monitoring ... 112
4.1 Pressure switch /PS ... 112
4.2 Temperature sensor /PT100 ... 113
4.3 Temperature switch /NTB ... 114
4.4 Temperature switch /TSK ... 115
4.5 Diagnostic unit DUO10A (oil ageing) ... 117
4.6 DUV40A (Diagnostic Unit Vibration) ... 119
4.7 DriveRadar® ... 122

5 Project planning for drives ... 123
5.1 Additional documentation ... 123
5.2 Project planning procedure ... 125
5.3 Sample for project planning: Conveyor drive ... 137

6 Selection tables ... 141
6.1 Information on the selection tables ... 141
6.2 X.F.. ... 142
6.3 X.K.. ... 188
6.4 X.T.. ... 234

7 Design and operating notes ... 266
7.1 General information ... 266
7.2 Gear unit mounting ... 266
7.3 Dimensioning the machine shaft for hollow shaft gear units ... 267
7.4 Dimensioning the customer hub of solid shaft gear units ... 269
7.5 Dimensioning the machine shaft with flange coupling ... 269
7.6 X2K.. with backstop for hollow shaft gear units ... 269

8 Dimension sheet information ... 270
8.1 General information ... 270
8.2 Tolerances ... 271

9 Dimension sheets: Universal housing /HU ... 272
9.1 X.F.. helical gear units [mm] ... 272
9.2 X.K.. bevel-helical gear units [mm] ... 290
9.3 X.T.. bevel-helical gear units [mm] ... 306

10 Dimension sheets: Horizontal housing /HH ... 314
10.1 X.F.. helical gear units [mm] ... 314
10.2 X.K.. bevel-helical gear units [mm] ... 328

30593506/EN – 07/2023

11 Dimension sheets: Vertical gear units, mounting position M5 338
11.1 X.F.. helical gear units [mm] 338
11.2 X.K.. bevel-helical gear units [mm] 350

12 Dimension sheets: Upright gear units, mounting position M4 362
12.1 X.F.. helical gear units [mm] 362
12.2 X.K.. bevel-helical gear units [mm] 374
12.3 X.T.. bevel-helical gear units, mounting position M4 (trolley drive) [mm] 386

13 Dimension sheets: Thermal housing /HT 394

14 Dimension sheets: Options 397
14.1 Housing bores [mm] 397
14.2 Input shaft /HSST [mm] 403
14.3 Optional input shaft ends X2K.., X3K.. and X4K.. /HSS [mm] 406
14.4 Hollow shaft with keyway /..A [mm] 408
14.5 Hollow shaft with shrink disk /..H [mm] 409
14.6 Splined hollow shaft /..V [mm] 410
14.7 Splined solid shaft /..L [mm] 412
14.8 Solid shaft, smooth design /..R [mm] 414
14.9 TorqLOC® hollow shaft mounting system[mm] 415
14.10 Output shaft /LSST [mm] 417
14.11 Universal cover with modular fan system /FAN-UNI 418
14.12 X.K.. Radial fan basis [mm] 425
14.13 X.T.. Radial fan basis [mm] 427
14.14 Shaft end pump /SEP [mm] 428
14.15 Oil heater /OH [mm] 429
14.16 Water cooling cover /CCV and water cooling cartridge /CCT [mm] 431
14.17 Torque arm /T–HU [mm] 433
14.18 Torque arm /T–HH [mm] 434
14.19 Mounting flange B14 /F [mm] 435
14.20 Mounting flange B5 /F [mm] 437
14.21 Backstop X.F.. /BS [mm] 439
14.22 Backstop X.K.. /BS [mm] 442
14.23 Backstop X.T../BS [mm] 445
14.24 V-belt drives /VBD [mm] 447
14.25 IEC motor adapter /MA [mm] 463
14.26 NEMA motor adapter /MA [inch] 488
14.27 Oil expansion tank /ET for mounting position M1/M3 [mm] 516
14.28 Oil expansion tank /ET for mounting position M4 [mm] 517
14.29 Oil expansion tank /ET for mounting position M5/M6 [mm] 519
14.30 Oil dipstick /OD, oil level glass /OLG and breather /BPG [mm] 520
14.31 Oil drain valve /ODV [mm] 525

15 Lubricant fill quantities 526
15.1 Horizontal housing /HH and universal housing /HU 527
15.2 Thermal housing /HT 551
15.3 Agitator housing /HA 552

30593506/EN – 07/2023

16 Mass moments of inertia 553
16.1 X.F.. Helical gear units 553
16.2 X.K../X.T.. Bevel-helical gear units 555

Index 557

17 Abbreviation key 560
17.1 Abbreviations for optional accessories 561

18 Address directory SEW-EURODRIVE 562

30593506/EN – 07/2023

1 Introduction

1.1 What do we stand for?

For a reliable partnership!

Humanity and partnership, solutions and services, responsibility and quality, tradition and innovation: SEW-EURODRIVE, the owner-managed family business, has stood for all this and much more for more than 90 years.

As a market leader in drive and automation technology, we don't just power countless applications in virtually every industry. With over 20000 employees, we are also playing a key role in shaping the future of drive technology. For you. Ensuring you, your systems and machines are always at the cutting edge. Not just now, but in the future as well. We want you to succeed together with us.

1.2 Where can you find us?

We are always nearby!

Our 17 production plants and 88 Drive Technology Centers in 54 countries mean we are at your service on every continent and in every corner of the world, always working with you as an equal partner and ensuring everything runs smoothly.

What makes us truly stand out from other manufacturers? With our broad customer support and service network worldwide, you never have to wait long for spare parts, repairs or professional advice.



54
Countries



17
Production plants



88
Drive Technology Centers



> 20000
employees



Global service



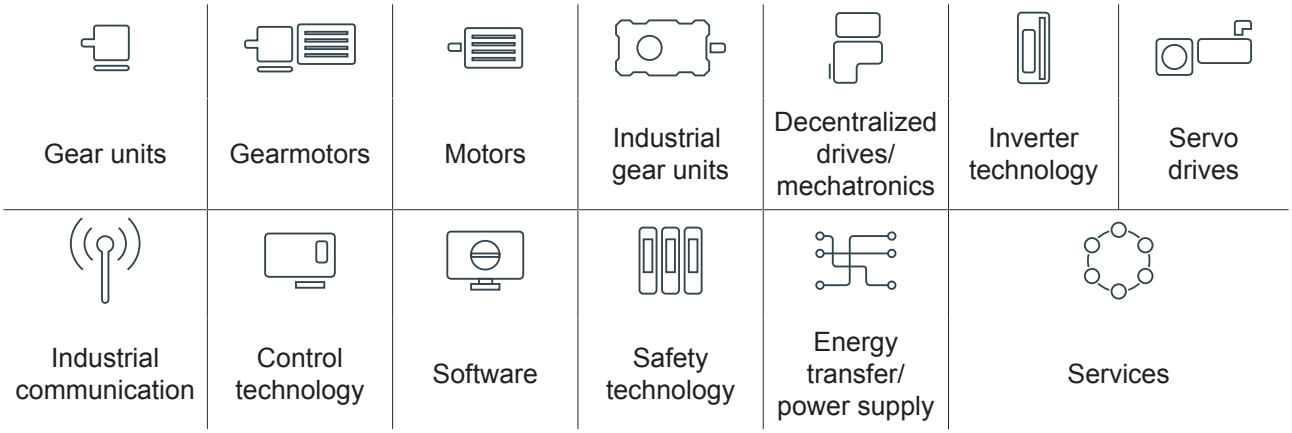
Countless industries

30593506/EN – 07/2023

1.3 What do we offer?

State-of-the-art drive technology and automation solutions from a single source!

Looking to modernize your processes or to construct a new system? We offer you one of the most extensive ranges of drive technology products, solutions, and services on the market. A single contact person for everything: that sounds good, doesn't it?



From the very outset, our customers have been able to rely on our high quality, committed advice and support and fast delivery times. We offer a portfolio of modular solutions that are comprehensive and unique and meet every possible need.

- Perfect combination options and solutions for every application
- Energy efficiency up to IE5
- Quick and easy selection process and project planning
- Comprehensive portfolio – from drives and motors for continuous operation to high-precision servo drives
- Special designs in stainless steel, with explosion protection, or for electrified monorail systems
- Ideal solutions for every application
- Complete automation solutions for your machine or factory and many other areas

Independent of the project scope and the complexity of your requirements: We rise to the challenge, working with you to develop the perfect solution for you – including an all-round service package throughout your entire system life cycle on request.

Right now, predictive maintenance is one of the top service trends. Early diagnosis and end-to-end condition monitoring have been an essential part of our offering for many years. That's because one thing in particular matters to us – the satisfaction and trust of our customers. From planning and the operation phase all the way to modernization. Where necessary, we also take care of drives from other manufacturers.

30593506/EN – 07/2023

1.4 What are the goals we want to reach with you?

We want to take you to the top!

Nothing excites us more than the future of production. We are already using Industry 4.0 principles to transform our manufacturing operations. As far as we are concerned, Industry 4.0 ceased to be a distant vision long ago – it is already a successful reality thanks to our smart factory. As a result, we have become one of the world's pioneers in this field.

Yet we do not just focus on increasing our performance to ever greater levels. We also pass on to you the expertise, experience and technical solutions we have gathered in implementing Industry 4.0 in our production halls. Why not find out more?

No matter how large or small your project may be, no matter how high or complex your requirements may be: We rise to the challenge, working with you to develop the perfect solution for you – including an all-round service package throughout your entire system life cycle on request. Right now, predictive maintenance is one of the top service trends. Early diagnosis and end-to-end condition monitoring have been an essential part of our offering for many years. The only thing that counts is your satisfaction and driving forward your processes – from planning and the operation phase all the way to modernization. Where necessary, we also take care of drives from other manufacturers.

1.5 Why should you choose SEW-EURODRIVE?

Because these ten reasons speak for themselves:



1. **You will be more flexible**

   However much the requirements for your processes and production systems increase, we're there for you every step of the way. With rapid conversions, short delivery times, enhanced capacity and faster format changeovers, we're at your side – from evaluating your needs and implementing an appropriate solution all the way to Life Cycle Services.



2. **You will be more satisfied**

   Our name stands for the best quality. But we do not rest on our laurels. Quite the contrary, in fact. To ensure we meet all standards – both ours and yours – we undergo annual testing, including certification processes. That's because only one thing matters to us – the satisfaction and trust of our customers.



3. **You will know more**

   We're happy to share with you the industry and application expertise we have gained over decades that extends far beyond drive technology areas. We work with you to plan and put into practice your tailored solutions in a process where you constantly evolve in tandem with us.

30593506/EN – 07/2023



4. **You will be more sustainable**

   We take responsibility for our employees, customers and business partners but also the environment in which we live and work. As a family business, we think in generations and always look beyond today and tomorrow. With us, you too can drive the future.



5. **You will be more successful**

   Like you, we cannot afford to stand still. We provide continuous training for our employees and customers. We constantly expand our horizons and enhance our products, solutions and services, and thus your processes. You can only continue to be successful in the future with optimized workflows.



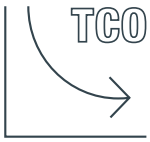
6. **You will be more energy efficient**

   We go out of our way to find new approaches and make our drives more efficient while always staying well ahead of international regulations. And, if you wish, we work with you to plan your systems and machines so that you can make the best possible use of energy recovery.



7. **You will be more innovative**

   What's the point of innovations if they remain out of your reach? We listen to you, which makes us fully aware of your future challenges, and we respond accordingly. With our approximately 800 researchers, we drive forward innovative technologies and help bring your processes up to date.



8. **You will save more money**

   With us, you can lower your overall operating costs. After all, it isn't just a matter of procurement expenses. Your TCO is significantly determined by the subsequent utilization and service life of your drive technology. We provide you with comprehensive advice on how to reduce your costs through sustainable operations.



9. **You will be close to us**

   Wherever in the world your system is running, our comprehensive service network and experts mean we're always ready to provide advice and practical assistance when you need it. All-in-one, on-site service that knows no bounds and significantly reduces or even eliminates downtimes.



10. **You will be faster**

    Throughout the world, our service staff ensure spare parts get to you fast, and faulty drives – including third-party products – are collected and repaired quickly. Software tools make engineering and startup easier for you. Services covering your entire system life cycle help make you faster and more efficient.

30593506/EN – 07/2023

1.6 Documentation

1.6.1 Additional documentation

The following catalogs and brochures are available from SEW-EURODRIVE in addition to the following catalog "X..e Series Helical and Bevel-Helical Gear Units". They are also available on the SEW-EURODRIVE website under "Online Support" > "Data and documents".

- Catalog: "External Oil Supply and Oil Cooling Systems"
- Catalog: "Flange Couplings"
- Catalog: "Bucket Elevator Drives"
- Catalog: "Drive Packages on Steel Support Constructions"
- Catalog: "Hoist Gear Units"
- Brochure: "Technology for Agitators and Aerators"
- Brochure: "Technology for Cranes"
- Brochure: "Drive Systems for Conveyor Systems"

30593506/EN – 07/2023

1.7 Product names and trademarks

All product names included in this documentation are trademarks or registered trademarks of the respective titleholders.

1.8 Copyright notice

© 2023 SEW-EURODRIVE. All rights reserved. Copyright law prohibits the unauthorized reproduction, modification, distribution and use of this document – in whole or in part.

1.9 Important information

Adhere to the following information:

INFORMATION

- The illustrations in the catalog are examples. Final dimensions are available from SEW-EURODRIVE on request.
- The specified weights are guide values and may deviate slightly.
- When installing a filter in the oil cooling system, make sure there is sufficient height for removing the filter element and the filter housing.

1.10 Decimal separator in numerical values

In this document, a period is used to indicate the decimal separator.

Example: 30.5 kg

1.11 Recycling, reprocessing, reuse

SEW-EURODRIVE GmbH & Co KG strives to use as few new natural resources as possible in the production of its products. An important aspect of this is the circular economy with the recycling of materials as well as the inspection and/or reprocessing of returned components and their reuse in new products. SEW-EURODRIVE GmbH & Co KG only uses these processes if the resulting materials and components are of the same quality as new parts.

30593506/EN – 07/2023

2 Product description

This catalog describes the X..e series industrial gear units.

Generation X.e forms the global basis of the industrial helical and bevel-helical gear unit range from SEW-EURODRIVE and, like the gearmotors of smaller torque classes, is characterized by a comprehensive modular system. In addition, the variety of options, the power density and the individual adaptation by means of special designs are decisive features.

The objective of generation X.e was to provide an optimum drive for the customer through a fundamental improvement in the hardware and a newly designed calculation landscape that can be designed exactly according to customer requirements, and is available on a global level.

There is always a suitable industrial gear unit available for your application due to the finely stepped sizes.

The main design features of the modular system include:

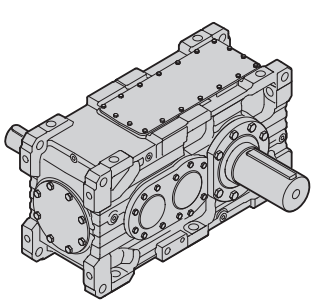
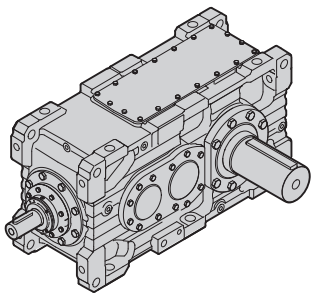
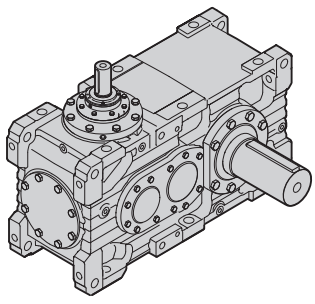
- Single-piece and split gear unit housings,
- Invertible gear unit housings,
- And universal mounting positions (M1 to M6).

In combination with the wide range of options, all options are available for customer-specific adjustments to meet your needs.

Generation X.e can be used in the following application areas:

- In conveyor systems as used in the building material, extractive, chemical, food and feed industries.
- In the timber and paper industry.
- Environmental industry.
- In mixers and agitators.
- As travel and lifting drives for indoor, handling and container cranes.
- For shredders and crushers.
- For bucket elevators in bulk handling applications.

The following table shows an overview:

Gear unit design	X.F..	X.K..	X.T..
Shaft design			
Size	23	23	15
Gear ratios	6.3 to 450	6.3 to 450	14 to 400
Torque ranges	7.2 to 500 kNm	7.2 to 500 kNm	7.2 to 185 kNm
Number of stages	2 to 4 stages	2 to 4 stages	3 and 4 stages

30593506/EN – 07/2023

2.1 Product characteristics

2.1.1 Defined oil flow

A comparison between simulations, test stands and field tests ensures a defined oil flow in all installation and lubrication types. This results in optimum heat dissipation at all relevant points as well as sufficient lubrication for the seal, bearing and gearing.

2.1.2 Individual bearing adjustment and bearing systems

Maximum service life with simultaneous safety is possible by individually adjusting the bearing preload in relation to the exact drive data and influences of the application. For certain sizes, even the entire storage arrangement can be replaced as standard in order to easily adapt to the requirements in the field.

2.1.3 Efficiency

The most accurate calculation thanks to a networked calculation landscape in combination with loss-optimizing options such as a reduced oil level lead to efficient solutions. It can also be used to protect the environment.

2.1.4 Sealing systems

Due to a large variety of sealing systems, safe operation can be performed in all ambient conditions. Certain sealing options are also available in contactless design for optimum operational reliability and protection against external effects.

2.1.5 Finely graduated cooling concepts

Generation X.e can be equipped with various internal and external cooling options to safely transfer power. Of particular note is the finely graduated fan variance within a size that achieves an optimum between thermal and acoustic limits.

2.1.6 Gearing topology

The newly developed procedures for processing allow for creating tribologically optimized gearing surfaces. This enhancement allows for a safe transmission of torques and high overhung loads. In addition, optimized tooth meshing reduces noise emissions.

30593506/EN – 07/2023

2.2 Added value in the Generation X.e modular system

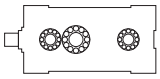
2.2.1 GearOil by SEW-EURODRIVE



GearOil by SEW-EURODRIVE increases the performance of the gear unit with high-quality base oils and the latest additive technologies. The oil reduces friction in rolling and sliding contact, resulting in increased efficiency and wear resistance.

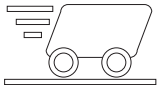
Using GearOil by SEW-EURODRIVE filled at the factory eliminates the need for a first oil change after 500 hours.

2.2.2 Bearing concept



An alternative bearing can be offered as standard for sizes X.260e to X.320e. For this purpose, a reinforced bearing of the intermediate shafts, the output shaft or a combination can be selected individually to adapt to the requirements of the application.

2.2.3 Delivery times



The coordinated process chain from order receipt to shipping ensures short delivery times even for customer-specific adjustments.

Replacement parts required during servicing can also be supplied quickly in this way.

2.2.4 Global availability



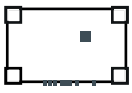
With 4 production plants and 13 assembly plants across the globe, standardized industrial gear units can be made available worldwide in the shortest possible time. Additional service centers can also provide short-term service of any kind.

2.2.5 Detailed calculation



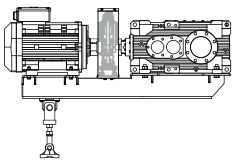
Thanks to the networked calculation landscape, each drive is simulated and calculated with the individually required drive data. Collaboration with research institutes enable us to already use the latest calculation models for series products. The individually tailored product can be created in this way.

2.2.6 Condition monitoring



After a detailed preselection, our IOT Suite DriveRadar® monitors the drive for issues such as vibration and temperature, and can in this way detect any damage to bearings, gearing or temperatures in advance and provide a notification.

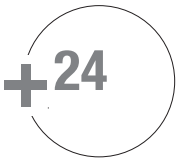
2.2.7 Drive packages



With increasing demand for complete drive systems in the industrial gear unit sector, SEW-EURODRIVE can supply everything from a single source, from the motor cable to the customer's interface. In addition to the motor and gear unit, this also includes system components such as couplings, brakes and sensors, all of which are mounted on a steel frame.

30593506/EN – 07/2023

2.3 Extended warranty



If the gear unit starts up after the statutory warranty has expired or if you want to pass on your customer's warranty claim to the supplier, for example, SEW-EURODRIVE offers a new warranty package "**+24**" for an additional 24 months warranty on the gear unit.

The following 3 packages are available for the gear units.

Packages	Scope	Advantages
+24	24 months of warranty on the gear unit.	• The correct installation of the gear unit is checked by a member of the SEW-EURODRIVE Service team.
+24 advanced	Gear unit filled with premium lubricant GearOil by SEW-EURODRIVE, giving you 24 additional months of warranty for your industrial gear unit free of charge.	• First oil change after 500 operating hours no longer necessary. • The correct installation of the gear unit is checked by a member of the SEW-EURODRIVE Service team.
+24 smart	Gear unit filled with premium lubricant GearOil by SEW-EURODRIVE, giving you 24 additional months of warranty for your industrial gear unit free of charge. The gear unit is also equipped with the DriveRadar® IoT Suite (system for monitoring the condition of the gear unit).	• No first oil change after 500 operating hours and attractive discounts on the oil fill ex factory and the DriveRadar®hardware. • The correct installation of the gear unit is checked and the gear unit condition is continuously monitored by the DriveRadar® IoT Suite.

30593506/EN – 07/2023

2.4 X..e power range

The following table shows an overview.

Sizes	Nominal torque classes kNm	Nominal gear ratio ranges		
		X.F..	X.K..	X.T.
X100e	7.2	7.1 – 100	7.1 – 80	14 – 80
X110e	9	8 – 112	8 – 90	16 – 90
X120e	13.6	6.3 – 355		12.5 – 355
X130e	17	8 – 450		16 – 450
X140e	23.4	6.3 – 355		12.5 – 355
X150e	29.2	8 – 450		16 – 450
X160e	38	6.3 – 355		12.5 – 355
X170e	47.5	8 – 450		16 – 450
X180e	61	6.3 – 355		12.5 – 355
X190e	69	7.1 – 400		14 – 400
X200e	83	6.3 – 355		12.5 – 355
X210e	96	7.1 – 400		14 – 400
X220e	117	6.3 – 355		12.5 – 355
X230e	134	7.1 – 400		14 – 400
X240e	165	6.3 – 355		12.5 – 355
X250e	185	7.1 – 400		14 – 400
X260e	217	6.3 – 355	12.5 – 355	-
X270e	252	7.1 – 400	14.0 – 400	-
X280e	285	8.0 – 450	16.0 – 450	-
X290e	325	6.3 – 355	12.5 – 355	-
X300e	370	7.1 – 400	14.0 – 400	-
X310e	450	6.3 – 355	12.5 – 355	-
X320e	500	7.1 – 400	14.0 – 400	-

INFORMATION

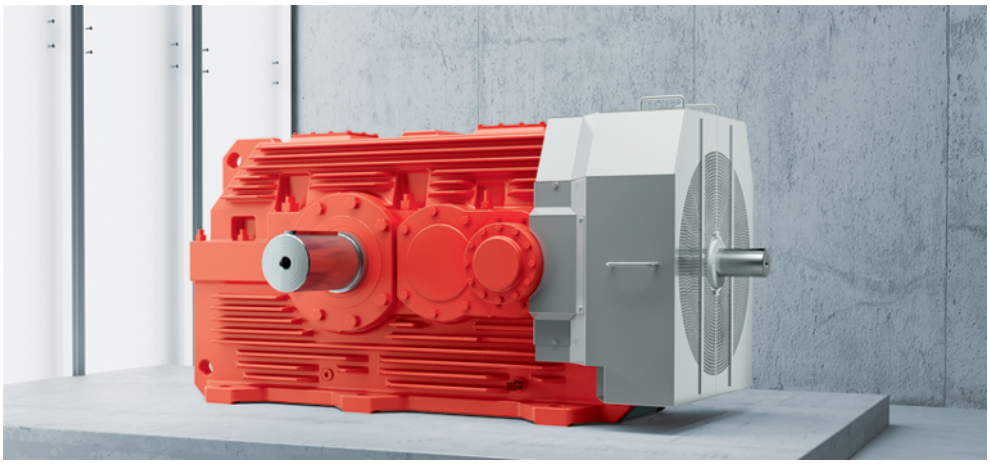
Using GearOil by SEW-EURODRIVE increases the torque. For more information, refer to chapter "GearOil by SEW-EURODRIVE – lubricant for gear units" (→ 🗎 47).

30593506/EN – 07/2023

2.5 Customer-specific application solutions

The following examples show application-specific solutions.

2.5.1 Conveyor drives



9007222884189451

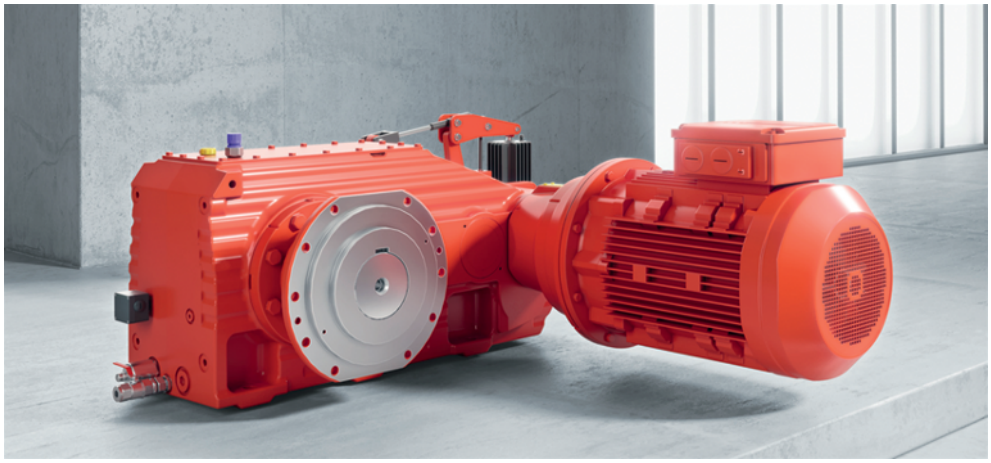
Conveyor belts must often work under very harsh and dusty conditions with high or extremely low ambient temperatures.

Our conveyor drives are specifically designed for such ambient conditions with a torque range from 7.2 kNm to 500 kNm. Due to their thermally optimized housing of sizes X180 and larger (starting from 61 kNm) and the special sealing system Taconite, they ensure a high level of operational reliability while requiring little maintenance at the same time.

For detailed information, refer to the technical brochure "Drive system for conveyor systems".

30593506/EN – 07/2023

2.5.2 Hoist gear unit



9007224117182219

Parallel-shaft gear units are often used in hoist systems in which the rope drum and motor are arranged on the same side of the gear unit.

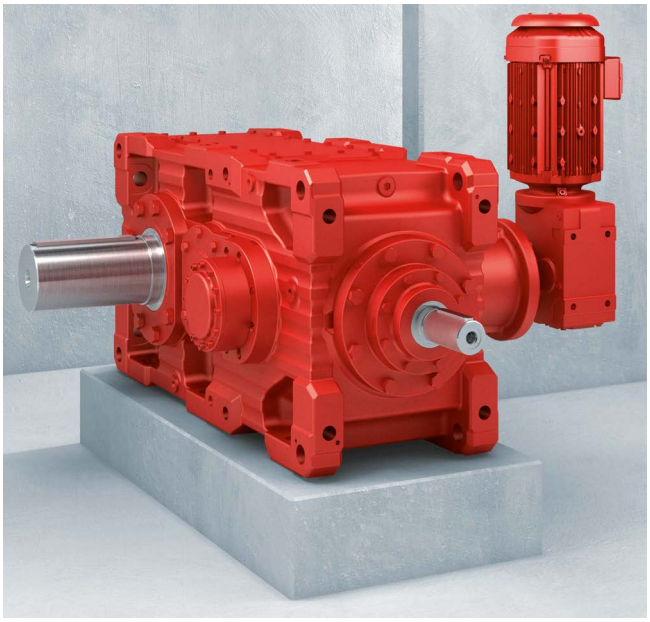
Due to the larger center distance, the X../HC hoist series for the torque range of 12.8 to 175 kNm offers significant advantages to the crane designer when designing the system: Optimized gear unit size selection with reduced gear unit weight and, at the same time, sufficient center distance. Furthermore, our X.. series is designed for a torque range of 6.8 to 500 kNm.

Project planning with finite fatigue strength and design for load spectrums with defined service life or crane categorization according to relevant standards such as DIN 13001, FEM 1.001 or DIN 15020 are possible.

For detailed information, refer to the technical brochure "Technology for cranes".

30593506/EN – 07/2023

2.5.3 Bucket elevator gear units



23629453323

Bucket elevators are conveyor systems that vertically lift large quantities of bulk material. Depending on the volume of the buckets and on the needed conveyor height, high drive powers may be required. Especially during maintenance, the bucket elevator drive may only be operated at reduced speed. For this reason, our bucket elevator drives are equipped with a directly mounted auxiliary drive that ensures movement during maintenance when the main motor is switched off. Our standardized bucket elevator drives have a torque range of 7.2 to 285 kNm.

More information can be found in the "X.. Series Bevel-Helical Gear Units – Bucket Elevator Drives" catalog.

30593506/EN – 07/2023

2.5.4 Agitator gear unit



35320851723

Agitators may generate very high radial and axial forces depending on the medium and the type of process. Depending on the type of bearing of the agitating element, the agitator gear unit must absorb these forces.

Our standardized X../HA agitator gear units with extended bearing distance is the right solution for the torque range of 23.4 to 96 kNm. Due to the thermally optimized housing, our agitator gear units can be used without external cooling even for agitating processes that demand high performance. Furthermore, our X..e series is designed for a torque range of 7.2 to 500 kNm.

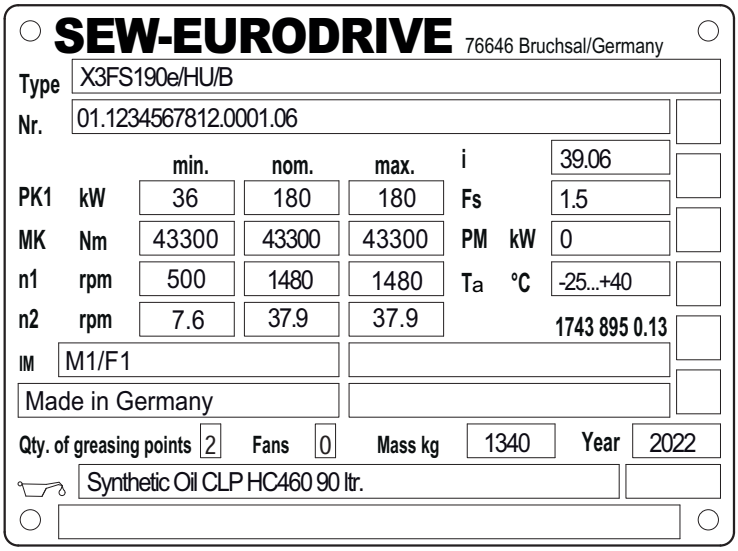
For further information, refer to the technical brochure "Technology for Agitators and Aerators".

30593506/EN – 07/2023

2.6 Nameplate

2.6.1 Nameplate 1

The following example shows the structure of the nameplate.



54043223884906763

Type		Type designation
no.		Serial number
P_{K1}	kW	Operating power on the input shaft (HSS)
M_{K2}	Nm	Gear unit output torque
n_1	rpm	Input speed (HSS)
n_2	rpm	Output speed (LSS)
min.		Minimum operating point
norm.		Normal operating point
max.		Maximum operating point
i		Exact gear unit ratio
F_S		Service factor
P_M	kW	Nominal motor power
T_a	°C	Deviation from standard temperature range (−20 °C to +40 °C)
Mass	kg	Weight of the gear unit
Greasing points		Number of points that require relubrication
Fan		Number of installed fans
		Oil grade and viscosity class/oil quantity
Year		Year of manufacture
IM		Mounting position and mounting surface

30593506/EN – 07/2023

2.6.2 Nameplate 2

The QR code on the product gives you quick access to the digital services from SEW-EURODRIVE.

In addition to being able to enter the QR code with the camera of your mobile device or an appropriate app, you can also use the "Product ID Plus" app from SEW-EURODRIVE. After scanning, you will see the technical data to identify the product directly.

In addition, the search for product-specific spare parts and documentation, as well as fault diagnostics and direct service requests are simple and fast.

The following figure shows an example of a product label:



9007234276331531

30593506/EN – 07/2023

2.7 Type designations

2.7.1 Gear units

The following example shows the structure of the type designation:

X3KS250e /HU /B	
X	Industrial gear unit series
3	Number of gear unit stages • 2 = 2 stages • 3 = 3 stages • 4 = 4 stages
K	Gear unit design • F = Helical gear unit • K = Bevel-helical gear unit • T = Bevel-helical gear unit
S	Type of output shaft • S = Solid shaft with key • R = Smooth solid shaft • L = Splined solid shaft • A = Hollow shaft with keyway • H = Hollow shaft with shrink disk • V = Splined hollow shaft • T = Hollow shaft with TorqLOC® hollow shaft mounting system • C = Reinforced solid shaft with key
	Application • B = Bucket elevator gear unit • C = Hoist gear unit
250	Gear unit sizes • 100 – 320
e	Generation X.e
HU	Housing design • HU = Universal housing • HH = Horizontal housing • HA = Agitator housing • HT = Thermal housing • HC = Hoist housing • HW = Welded housing
B	Gear unit mounting • /B = Foot • /T = Torque arm • /F = Flange

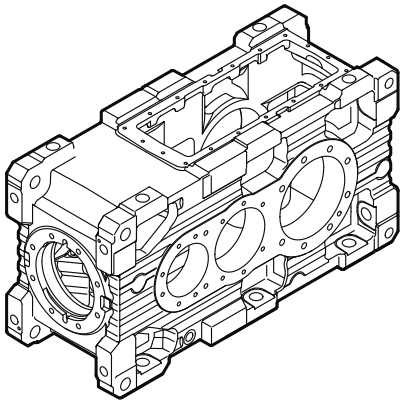
30593506/EN – 07/2023

2.8 Housing designs

2.8.1 Horizontal housing /HH

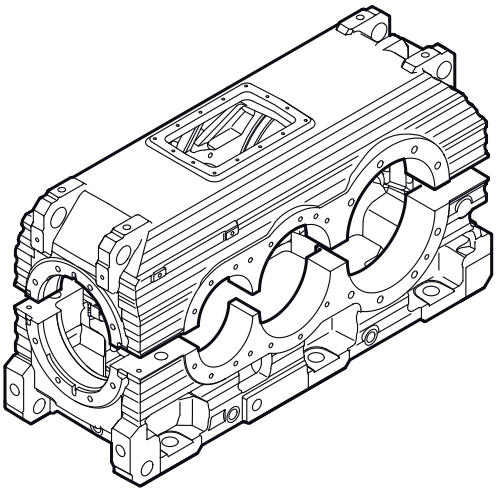
The horizontal housing is designed for mounting position M1. This housing design is non-reversible. For further information, see chapter "Reversible gear units" (→ 🗎 52).

The following figure shows an example of a single-piece housing for sizes X100 to 210:



9007208285647499

The following figure shows an example of a two-piece housing for sizes X220 to 320:



9007208708337291

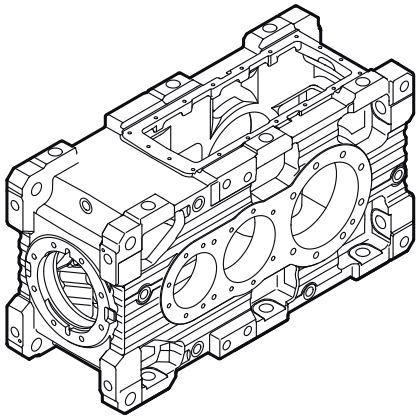
30593506/EN – 07/2023

2.8.2 Universal housing /HU

The universal housing can be installed in any mounting position (M1 to M6). The housings can be reversible if required. For further information, see chapter "Reversible gear units" (→ 🗎 52).

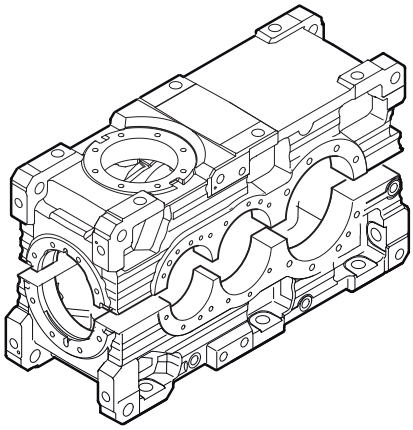
The following figure shows an example of a single-piece housing for sizes X100 to 210:

Two-part housings can also be offered for selected sizes in this range. Contact SEW-EURODRIVE in such cases.



18014407093895819

The following figure shows an example of a two-piece housing for sizes X220 to 320:



18014407093897483

30593506/EN – 07/2023

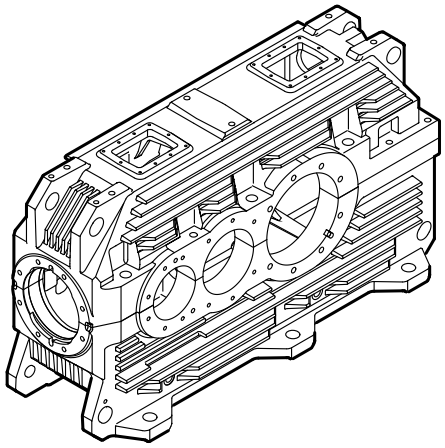
2.8.3 Thermal housing /HT

The thermal housing is designed for mounting position M1. The housing design is not reversible, see chapter "Reversible gear units" (→ 🗎 52). Various measures make this gear unit suitable for increased thermal requirements.

The housing is designed as two-piece housing for gear units in size X180 to 320.

For detailed information, refer to the technical brochure "Drive system for conveyor systems".

The following figure shows an example of a thermal housing for size X220:

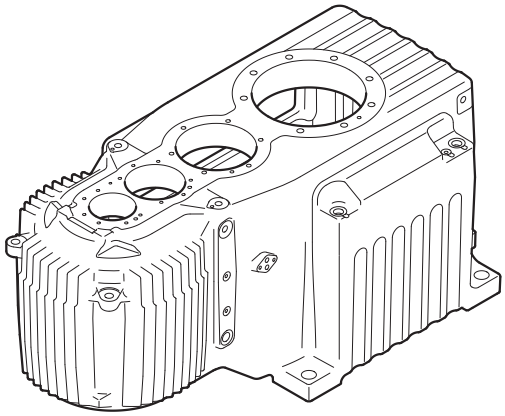


9007208902548235

2.8.4 Agitator housing /HA

The agitator housing is designed as single-piece housing only for mounting position M5 and sizes X3F140 – 210.

For further information, refer to the technical brochure "Technology for Agitators and Aerators".



9007214721109131

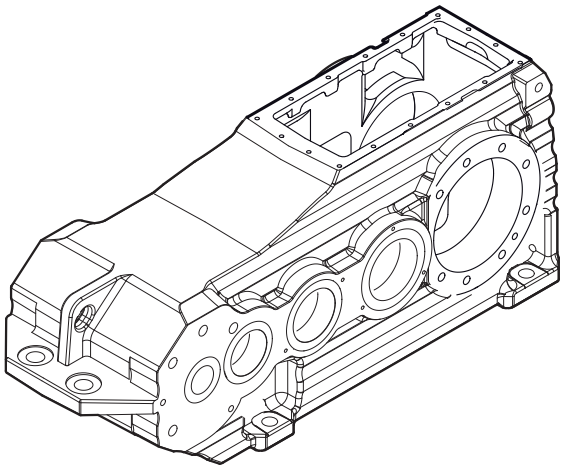
30593506/EN – 07/2023

2.8.5 Hoist housing /HC

The housing of the hoist is designed for mounting position M1. This housing design is non-reversible. Due to its extended center distance, the housing offers greater flexibility when cable drums are used.

The housing is designed as single-piece housing for gear units in size X120 to 220.

The following figure shows an example of a housing for gear unit size 180:



24919461899

30593506/EN – 07/2023

2.9 Mounting position

2.9.1 Definition

The mounting position defines the spatial position of the gear unit housing and is designated with **M1 – M6**.

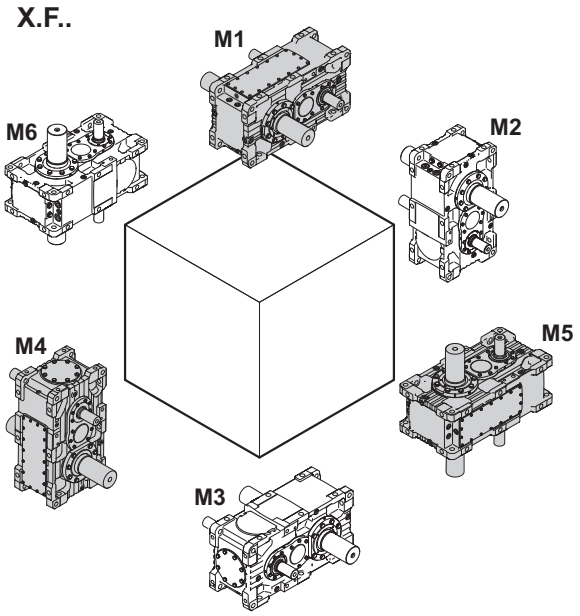
With "alternative mounting positions", there might be limitations regarding certain options. Consult SEW-EURODRIVE in this case.

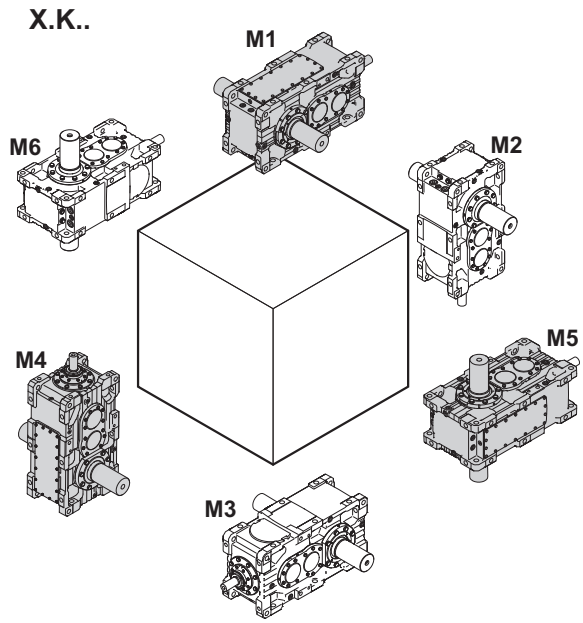
The table below shows the mounting positions.

The gear unit is designed for operation in the following mounting position.

	Standard mounting position	Alternative mounting position
Horizontal gear unit	M1	M3
Vertical gear unit	M5	M6
Upright gear unit	M4	M2

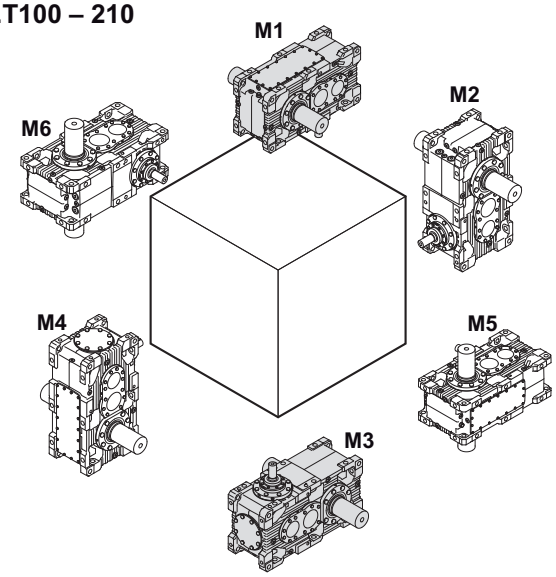
30593506/EN – 07/2023



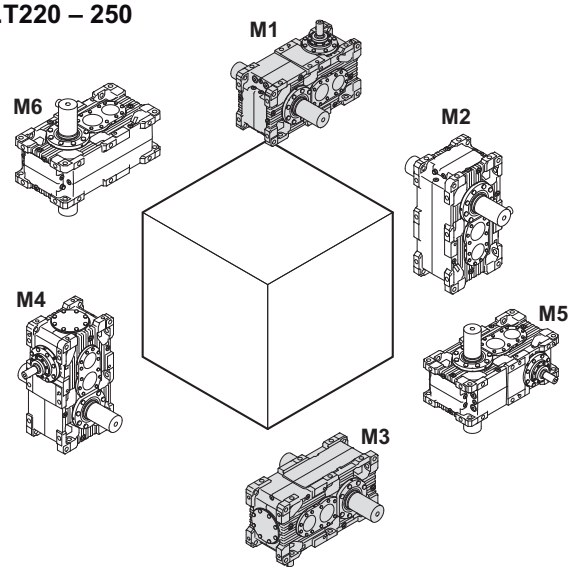


30593506/EN – 07/2023

X.T100 – 210



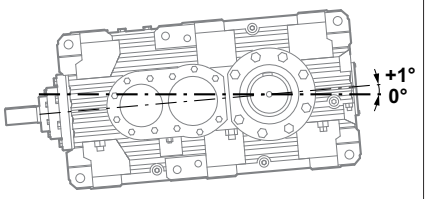
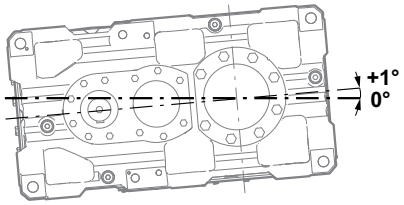
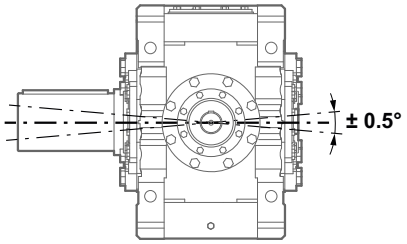
X.T220 – 250



30593506/EN – 07/2023

2.9.2 Deviating mounting positions

Note that the following deviating mounting positions are permitted for X.F.. and X.K.. gear units in mounting positions M1 and M3. Data is based on a gear unit without pivoted mounting position.

X.F100 – 320 and X.K100 – 320		
X.K.. Mounting position M1 and M3	**X.F.. Mounting position M1 and M3**	**X.F.. and X.K.. Mounting position M1 and M3**
		

INFORMATION

Deviations in mounting position of **±1°** are permitted for the following gear units:

- X.F.. and X.K.. in mounting positions M2, M4, M5, M6.
- X.T.. in mounting positions M1, M2, M3, M4, M5, M6.

30593506/EN – 07/2023

2.10 Mounting surfaces

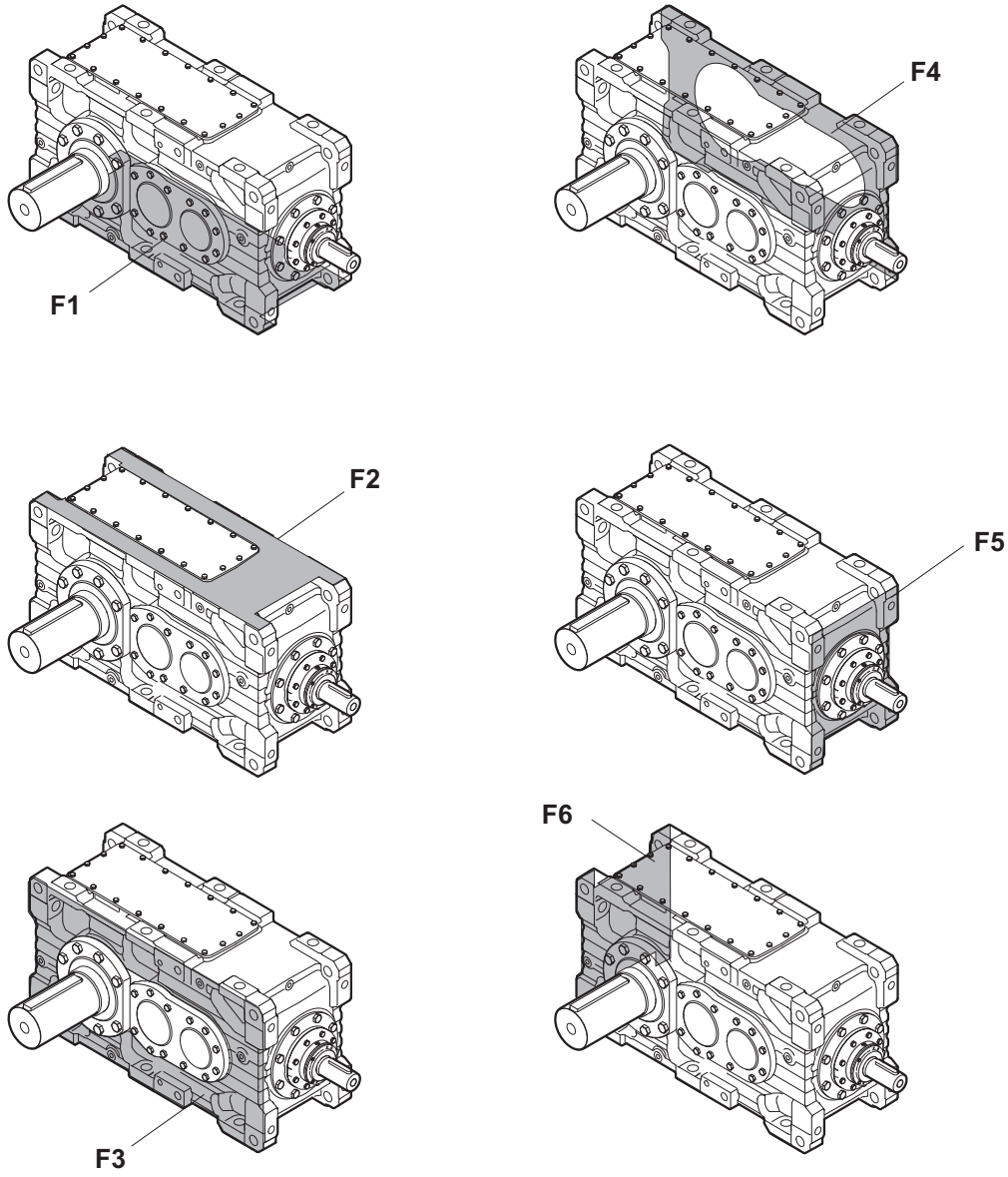
2.10.1 Definition

The mounting surface is defined as the surface(s) of a gear unit with

- foot mounting (X.... /B) or
- flange mounting (X.... /F),

on which the gear unit is mounted.

SEW-EURODRIVE defines **6** different mounting surfaces (designation **F1...F6**)



8593420683

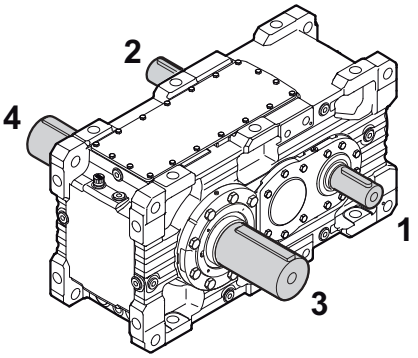
30593506/EN – 07/2023

2.11 Shaft position

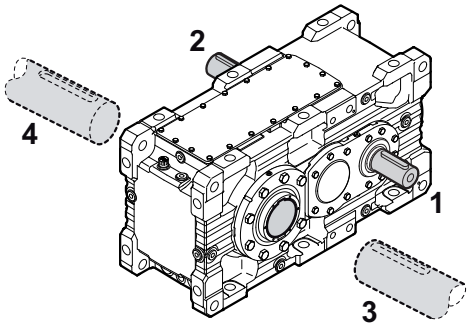
The shaft positions (**0 – 6**) shown in the following figures apply to solid and hollow output shafts. For other shaft positions or for gear units with backstop, contact SEW-EURODRIVE.

2.11.1 X.F..

Shaft position X.FS..

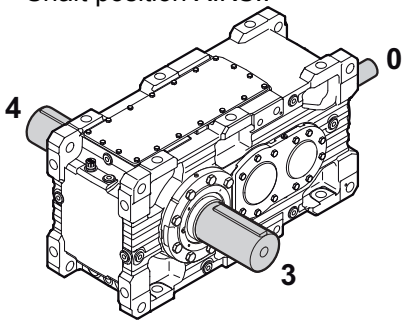


Shaft position X.FA..

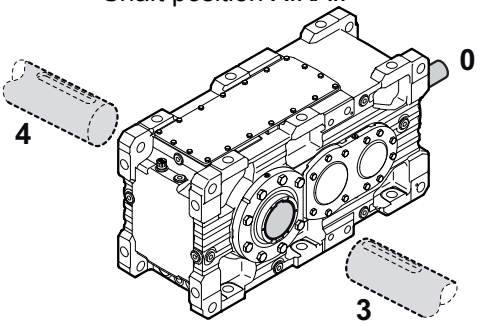


2.11.2 X.K..

Shaft position X.KS..



Shaft position X.KA..



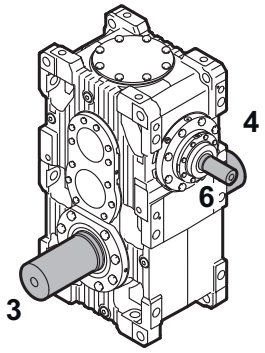
30593506/EN – 07/2023

2.11.3 X.T..

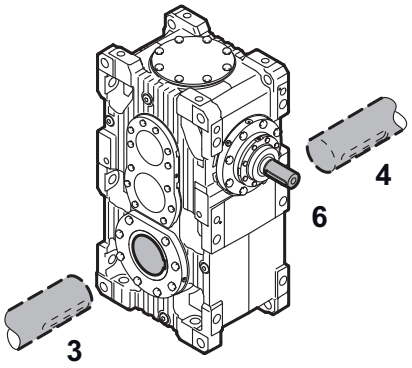
The following shaft positions are possible for gear unit type X.T..

Sizes X100 – 210

Shaft position X.TS..

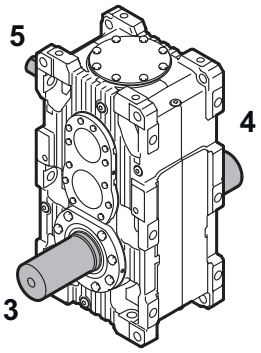


Shaft position X.TA..

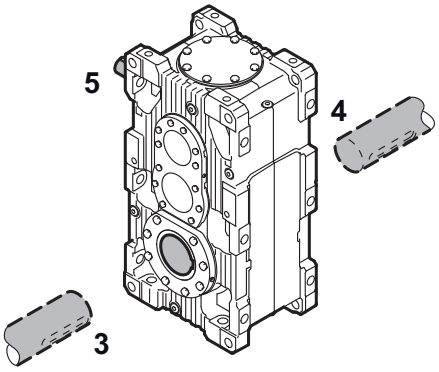


Sizes X220 – 250

Shaft positions X.TS..



Shaft position X.TA..



30593506/EN – 07/2023

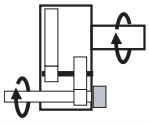
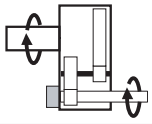
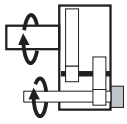
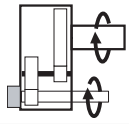
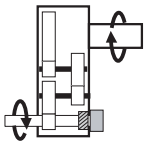
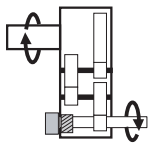
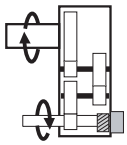
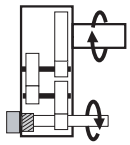
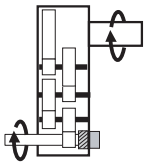
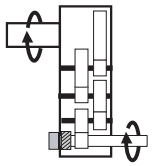
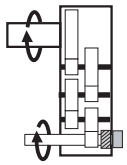
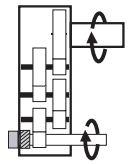
2.12 Corresponding directions of rotation

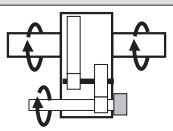
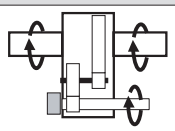
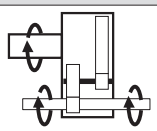
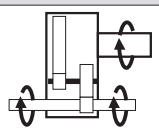
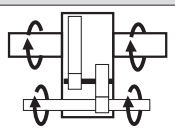
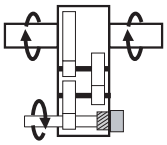
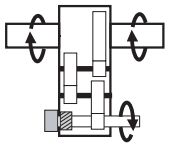
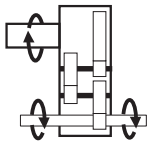
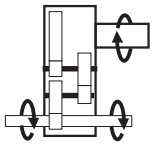
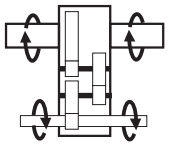
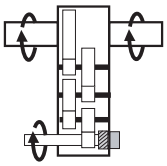
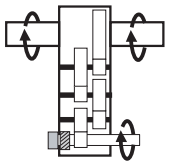
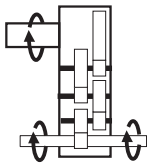
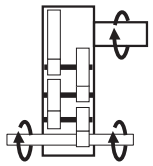
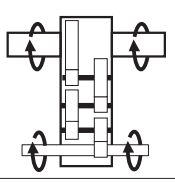
The gear unit can be operated in both directions of rotation. An exception are gear units with backstop.

The following tables show the direction of rotation dependencies between input and output shafts. The gear units as well as the position of the backstop are schematically shown as the solid shaft version.

For the position and blocking direction of the backstop, refer to the order-specific documentation.

2.12.1 X.F..

Shaft position	14	23	13 [1]	24 [1]
Position of final gear	3	4	3	4
X2F..				
X3F..				
X4F..				

Shaft position	134 [1]	243 [1]	213	124	1234 [1]*
Position of final gear	3	4	4	3	3
X2F..					
X3F..					
X4F..					

▯ = Position of the backstop

▨ = Alternative backstop position (depending on size and gear ratio)

* = Contact SEW-EURODRIVE when using a backstop

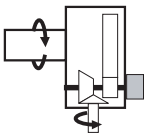
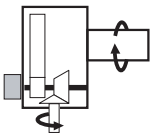
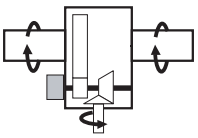
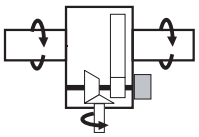
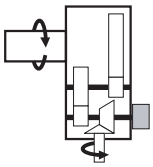
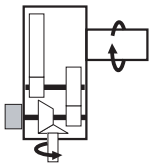
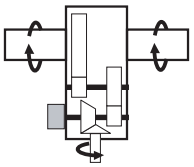
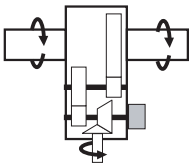
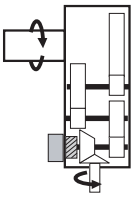
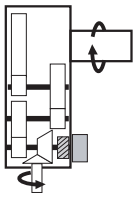
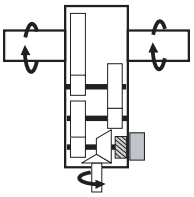
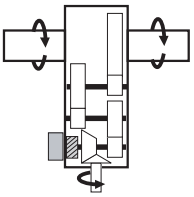
1) Note the restrictions regarding external forces on the LSS

INFORMATION: For more information and a 3D view of the gear unit, refer to chapter "Shaft positions" (→ 🗎 34).

30593506/EN – 07/2023

2.12.2 X.K..

Standard

Shaft position	03	04	034[1]	043[1]
Position of final gear	4	3	3	4
X2K..				
X3K..				
X4K..				

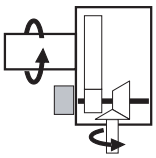
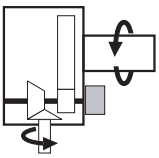
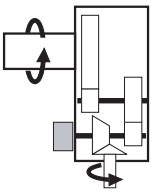
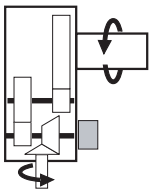
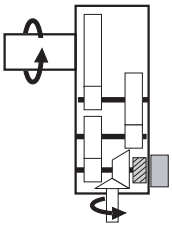
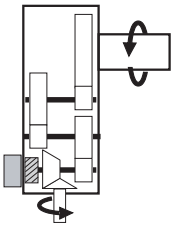
= Position of the backstop

= Alternative backstop position (depending on size and gear ratio)

1) Note the restrictions regarding external forces on the LSS

INFORMATION: For more information and a 3D view of the gear unit, refer to chapter "Shaft positions" (→ 🗎 34).

Direction of rotation reversal

Shaft position	03[1]	04[1]
Position of final gear	3	4
X2K..		
X3K..		
X4K..		

= Position of the backstop

= Alternative backstop position (depending on size and gear ratio)

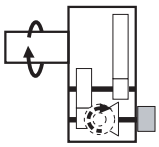
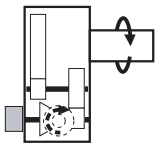
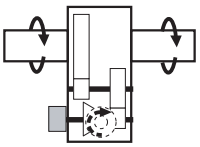
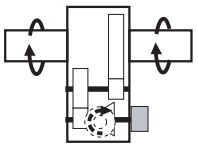
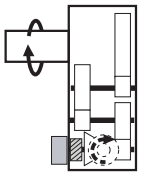
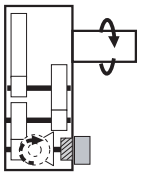
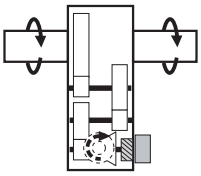
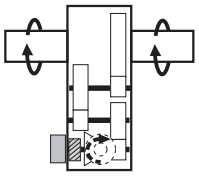
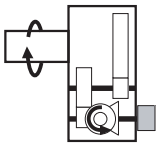
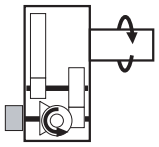
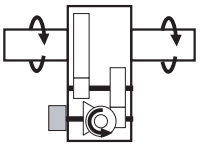
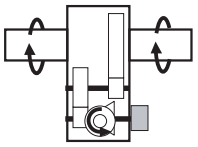
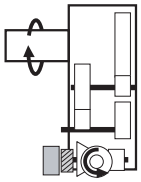
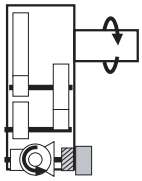
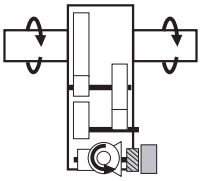
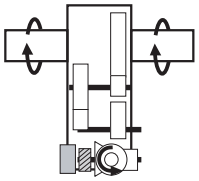
1) Note the restrictions regarding external forces on the LSS

INFORMATION: For more information and an isometric view of the gear unit, refer to chapter "Shaft positions" (→ 🗎 34).

30593506/EN – 07/2023

2.12.3 X.T..

Standard

Shaft position	63	64	634[1)]	643[1)]
Position of final gear	4	3	3	4
X3T100 – 210				
X4T100 – 210				
Shaft position	**53**	**54**	**534[1)]**	**543[1)]**
Position of final gear	**4**	**3**	**3**	**4**
X3T220 – 250				
X4T220 – 250				

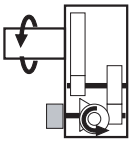
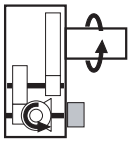
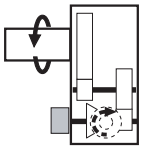
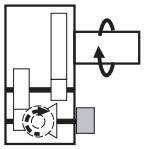
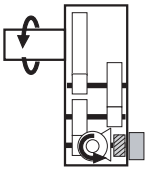
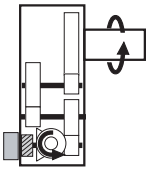
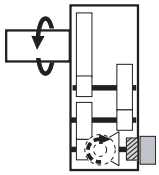
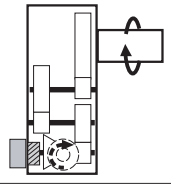
= Position of the backstop

= Alternative backstop position (depending on size and gear ratio)

1) Note the restrictions regarding external forces on the LSS

INFORMATION: For more information and a 3D view of the gear unit, refer to chapter "Shaft positions" (→ 🖹 34).

Direction of rotation reversal

Shaft position	53[1)]	54[1)]	63[1)]	64[1)]
Position of final gear	3	4	3	4
X3T...				
X4T...				

= Position of the backstop

= Alternative backstop position (depending on size and gear ratio)

1) Note the restrictions regarding external forces on the LSS

INFORMATION: For more information and an isometric view of the gear unit, refer to chapter "Shaft positions" (→ 🖹 34).

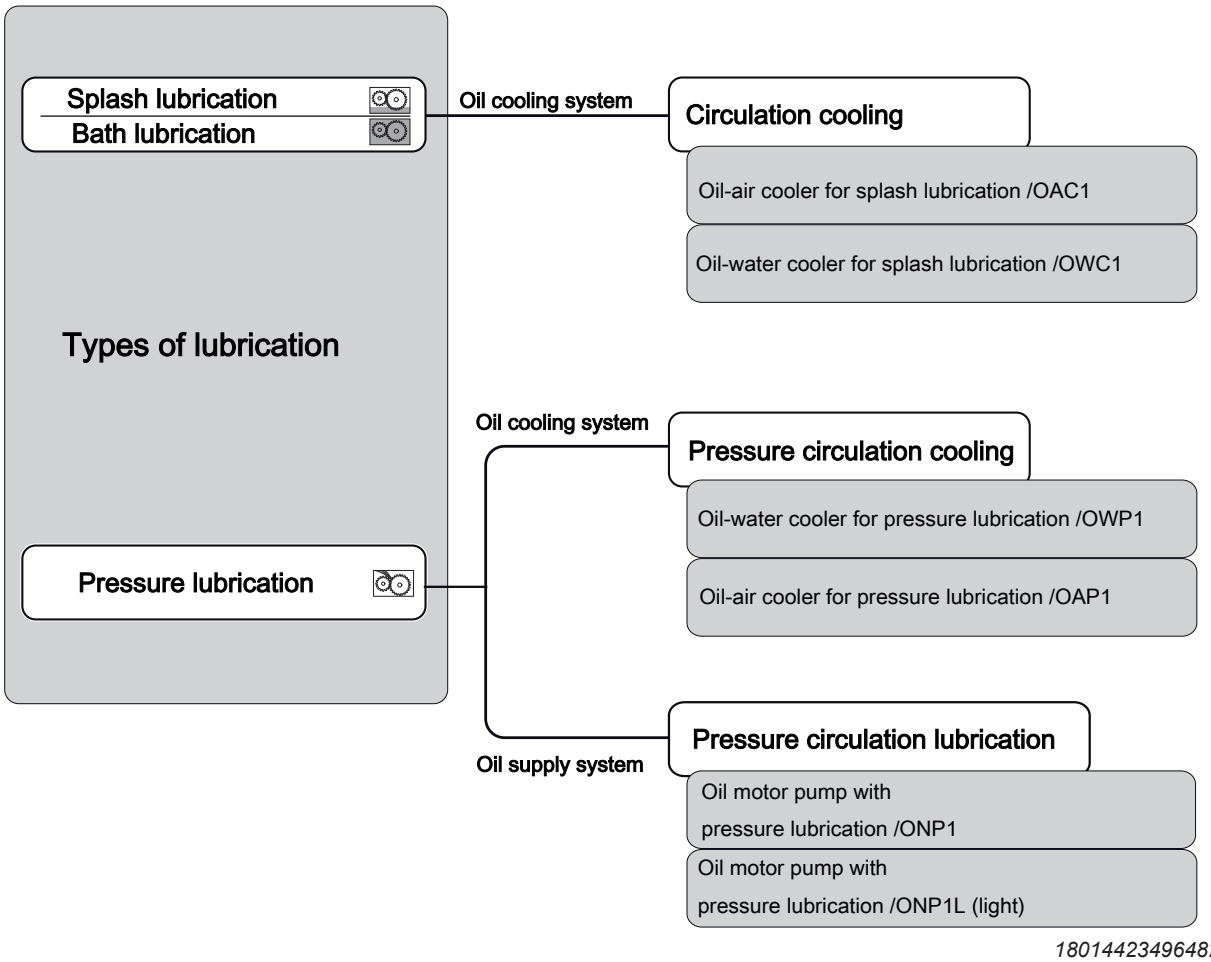
30593506/EN – 07/2023

2.13 Overview of the lubrication and cooling types

Depending on the special application requirements, the following types of lubrication and cooling are available.

2.13.1 Overview: External oil supply and oil cooling systems

The following figure shows an overview of the possible oil supply and oil cooling systems.



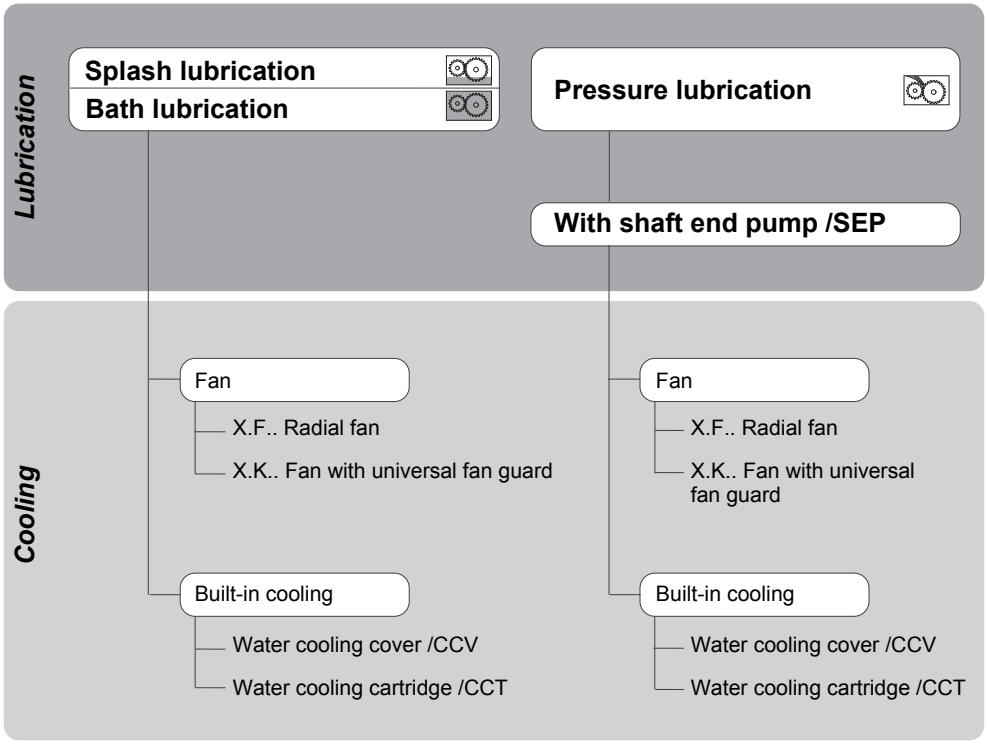
18014423496482187

For information on the structure, function, technical data, etc. of the oil supply and oil cooling systems, refer to the separate "External oil supply and oil cooling systems" catalog.

30593506/EN – 07/2023

2.13.2 Overview: Internal oil cooling systems, shaft end pumps and fans

The following combinations of lubrication and cooling types are possible: See section 3 for more information.



9007222747367307

30593506/EN – 07/2023

2.14 Lubricant selection

2.14.1 General information on selecting the oil

Unless a special arrangement is made, SEW-EURODRIVE delivers the drives without oil fill. This does not apply to auxiliary drives and primary gear units.

INFORMATION

This means the gear unit must be filled with the correct oil grade and quantity before startup. You find the corresponding information on the nameplate of the gear unit.

The following tables provide an overview of mineral and synthetic oils.

Mineral oil

Standards

Lubrication oils are divided into ISO VG viscosity classes according to ISO 3448 and DIN 51519.

ISO class	ISO 6743-6 designation	DIN 51517-3 designation	AGMA 9005-D94 designation
150	ISO-L-CKC 150	DIN 51517-CLP 150	AGMA 4 EP
220	ISO-L-CKC 220	DIN 51517-CLP 220	AGMA 5 EP
320	ISO-L-CKC 320	DIN 51517-CLP 320	AGMA 6 EP
460	ISO-L-CKC 460	DIN 51517-CLP 460	AGMA 7 EP
680	ISO-L-CKC 680	DIN 51517-CLP 680	AGMA 8 EP

30593506/EN – 07/2023

Synthetic oil

Standards

Lubrication oils are divided into ISO VG viscosity classes according to ISO 3448 and DIN 51519.

ISO class	ISO 6743-6 designation	DIN 51519 designation	AGMA 9005-D94 designation
150	ISO-L-CKT 150	CLP HC 150	AGMA 4 EP
220	ISO-L-CKT 220	CLP HC 220	AGMA 5 EP
320	ISO-L-CKT 320	CLP HC 320	AGMA 6 EP
460	ISO-L-CKT 460	CLP HC 460	AGMA 7 EP
680	ISO-L-CKT 680	CLP HC 680	AGMA 8 EP

In addition to having the required viscosity, the oil must fulfill the following criteria:

- CLP oils according to DIN 51517-3
- Micro-pitting test according to FVA, FV no. 54/ I-IV, GFT class high, damage force level >10

If synthetic oil is used, SEW-EURODRIVE recommends polyalphaolefin-based oil (CLP HC).

INFORMATION

If required, a cooling system must be used or the oil change interval must be shortened (see chapter "Lubricant change intervals" in the "Helical and Bevel-Helical X.. Series Gear Units" operating instructions).

Observe the operating temperature of the gear unit when specifying the oil change intervals.

30593506/EN – 07/2023

2.15 Lubricant table

2.15.1 Permitted lubricants

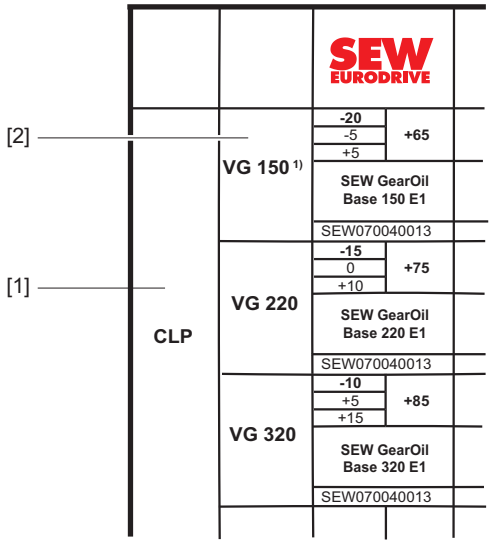
This chapter describes the permitted lubricants and the permitted temperatures for industrial gear units from SEW-EURODRIVE.

INFORMATION

- The standard for viscosity and oil grade is the type of oil that is specified by SEW-EURODRIVE in the order (see order confirmation and nameplate).
- Contact SEW-EURODRIVE if you use bio and food grade lubricants or polyglycol oils.
- Check the compatibility of the used grease and oil.
- The tables contain the lubricants approved by SEW-EURODRIVE.
- Oils of the same viscosity class from different manufacturers do not have the same characteristics. In particular, the minimum permitted oil bath temperatures are manufacturer-specific. These temperatures are specified in the lubricant tables.
- The minimum permitted oil bath temperatures depend on the lubrication type used. These temperatures are specified in the lubricant tables. The values correspond to the maximum viscosity of the individual lubricants.
- The values specified in the lubricant tables apply as of the time of printing of this document. The data of the lubricants is subject to dynamic change on the part of the lubricant manufacturers. For the latest information about the lubricants, visit: www.sew-eurodrive.de/lubricants

30593506/EN – 07/2023

Structure of the tables and abbreviations



27021615684069515

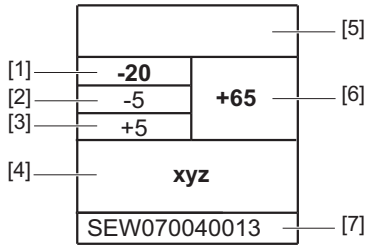
[1] Lubricant type
[2] Viscosity class

Abbreviations

Icons	Designation
CLP	= Mineral oil
CLP HC	= Synthetic polyalphaolefin (PAO)
E	= Ester-based oil
▭	= Mineral lubricant
▬	= Synthetic lubricant
🍴	= Lubricant for the food industry (**NSF H1**-compliant)
	= Biodegradable oil (lubricant for agriculture, forestry, and water management)
1)	= Lubricants may only be used if service factor $F_s \geq 1.3$

30593506/EN – 07/2023

Explanation of the various lubricants



18014416413363467

[1] Lowest cold start temperature in °C for splash lubrication[1)]
[2] Lowest cold start temperature in °C for drives with pumps up to a max. oil viscosity of 5000 cSt[1)]
[3] Lowest cold start temperature in °C for drives with pumps up to a max. oil viscosity of 2000 cSt[1)]
[4] Trade name
[5] Manufacturer
[6] Highest oil bath temperature in °C[2)]
[7] Approvals

1) In case of low temperatures, the oil must be heated to the specified minimum temperature, for example, by using an oil heater. For the maximum permitted oil viscosity per pump type, refer to the following chapter.
2) Service life is significantly reduced when exceeded. Observe chapter "Lubricant change intervals".

Explanations on the oil supply system / oil cooling systems and oil viscosity

Adhere to the following oil viscosity: For up-to-date information about the lubricants, visit:

www.sew-eurodrive.de/lubricants

Pressure lubrication	Oil viscosity
Motor pump for pressure lubrication /ONP1	5000 cSt.
Motor pump for pressure lubrication /ONP1L	5000 cSt.
Motor pump incl. air cooler for pressure lubrication /OAP1	5000 cSt.
Shaft end pump /SEP	5000 cSt.
Motor pump incl. water cooler for pressure lubrication /OWP1	5000 cSt.

30593506/EN – 07/2023

Lubricant compatibility with oil seal

Approval	Explanation
SEW07004_ _13:	A lubricant especially recommended with regard to compatibility with the approved oil seals. The lubricant exceeds the state-of-the-art requirements regarding elastomer compatibility.

Permitted application temperature range of the oil seals

In the low temperature range, oil seals can withstand shaft deflections (e.g. through overhung load) only to a limited extent. Especially avoid or limit pulsating or changing radial displacements of the shaft. Contact SEW-EURODRIVE, if required.

Oil seal material class	Permitted oil sump temperature
NBR	-40 °C to +80 °C
FKM	-25 °C to +115 °C
FKM-PSS	-25 °C to +115 °C

Limitations of use of oil seals with the specific lubricant are described in the following table:

Material class			Manufacturer		Material	
S	1	NBR	1	Freudenberg		72 NBR 902
			2	Trelleborg		4NV11
	2	FKM	1	Freudenberg	1	75 FKM 585
					2	75 FKM 170055
			2	Trelleborg	1	VCBVR

Examples:

S11: Only the elastomer 72NBR902 from Freudenberg meets the requirements of the approval in conjunction with the specific lubricant.

S2: Only the elastomer FKM meets the requirements of the approval in conjunction with the specific lubricant.

30593506/EN – 07/2023

GearOil by SEW-EURODRIVE – lubricant for gear units



With decades of experience in gear unit development and construction, as well as numerous customer applications, SEW-EURODRIVE has extensive tribological knowledge. On this basis and in accordance with long-term test runs, SEW-EURODRIVE has developed a special formulation for its own premium gear oil: GearOil by SEW-EURODRIVE – the optimum protection for SEW-EURODRIVE gear units.

By using high-quality base materials and additives as well as the appropriate logistics, SEW-EURODRIVE ensures the highest level of quality.

GearOil by SEW-EURODRIVE increases the performance of the gear unit, regardless of whether it is a standard, servo or industrial gear unit. The premium gear oil reduces the friction between gear wheels by creating a very good lubrication film. This increases the service life of lubricant and wear parts, such as sealing rings and bearings. The high damage load stage of the mineral lubricants GearOil Base (damage load stage 14) improves protection against pitting of the gearing. At the same time, GearOil increases the efficiency of the gear unit and protects against corrosion and harmful foaming of the oil. The "self-cleaning" properties of the lubricants prevent deposits as they bind water and dirt particles.

Optionally, you can select GearOil by SEW-EURODRIVE as the initial filling for the gear units and gearmotors. The premium gear oil can be ordered in can or barrel containers for service and maintenance purposes. GearOil by SEW-EURODRIVE can be stored for up to 6 years in unopened containers.

30593506/EN – 07/2023

Lubricant tables

This lubricant table is valid when the document is published. Refer to www.sew-eurodrive.de/lubricants for the latest version of the table.

[1]									
[2]	SEW EURODRIVE	Castrol	FUCHS	Mobil	KLÜBER LUBRICATION	SINOPEC	TOTAL		
CLP									
VG 150	-20 … +5 … +65	-20 … -5 … +5 … +65	-20 … -5 … +5 … +65	-20 … -5 … +5 … +65	-20 … -5 … +5 … +65	-20 … -5 … +5 … +65	-20 … -5 … +5 … +65		
	SEW GearOil Base 150 E1 / US1 / CN1 / BR1	Optigear BM 150	Alpha SP 150	Renolin CLP 150 Plus	Renolin HighGear 150	Mobilgear 600 XP 150	Klüberoil GEM 1-150 N	AP-SGO 150	
	SEW07004001 3			SEW07003001 3					
VG 220	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	-15 … 0 … +10 … +75	
	SEW GearOil Base 220 E1 / US1 / CN1 / BR1	Optigear BM 220	Alpha SP 220	Renolin CLP 220 Plus	Renolin HighGear 220	Mobilgear 600 XP 220	Klüberoil GEM 1-220 N	AP-SGO 220	Carter EP 220
	SEW07004001 3			SEW07003001 3					
VG 320	-10 … +5 … +15 … +85	-10 … +5 … +15 … +85	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80	-10 … +5 … +15 … +80
	SEW GearOil Base 320 E1 / US1 / CN1 / BR1	Optigear BM 320	Alpha SP 320	Renolin CLP 320 Plus	Renolin HighGear 320	Mobilgear 600 XP 320	Klüberoil GEM 1-320 N	AP-SGO 320	Carter EP 320
	SEW07004001 3			SEW07003001 3					
VG 460	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90	-5 … +10 … +20 … +90
	SEW GearOil Base 320 E1 / US1 / CN1 / BR1	Optigear BM 460	Alpha SP 460	Renolin CLP 460 Plus	Renolin HighGear 460	Mobilgear 600 XP 460	Klüberoil GEM 1-460 N	AP-SGO 460	Carter EP 460
	SEW07004001 3			SEW07003001 3					
VG 680	0 … +15 … +25 … +90	0 … +15 … +25 … +90	0 … +15 … +25 … +90	0 … +15 … +25 … +90	0 … +15 … +25 … +90	0 … +15 … +25 … +90	0 … +15 … +25 … +90	-5 … +10 … +20 … +90	0 … +15 … +25 … +90
	SEW GearOil Base 320 E1 / US1 / CN1 / BR1	Optigear BM 680	Alpha SP 680	Renolin CLP 680 Plus	Renolin HighGear 680	Mobilgear 600 XP 680	Klüberoil GEM 1-680 N	AP-SGO 460	Carter EP 680
	SEW07004001 3			SEW07003001 3					
VG 1000	+5 … +20 … +30 … +90								
	Optigear BM 1000								

This lubricant table is valid when the document is published. Refer to www.sew-eurodrive.de/lubricants for the latest version of the table.

[1]	[2]	SEW EURODRIVE	Castrol		FUCHS		Mobil®		KLÜBER LUBRICATION	Shell	TOTAL
CLP HC	VG 32 [1]						-40 -30 -25 / +30				
							SHC 624				
	VG 68 [1]				-35 -20 -10 / +50		-40 -25 -15 / +50		-35 -20 -10 / +50		
					Renolin Unisyn CLP 68		SHC 626		Klübersynth GEM 4-68 N		
	VG 150 [1]	-35 -15 -5 / +75	-25 -10 0 / +70	-30 -10 0 / +70	-30 -10 +0 / +70		-30 -10 0 / +75	-35 -15 -5 / +75	-25 -10 0 / 70	-30 -10 0 / +75	-35 -15 -5 / +75
		GearOil Synth 150 E1	Alphasyn EP 150	Optigear Synthetic X 150	Renolin Unisyn CLP 150		SHC 629	SHC Gear 150	Klübersynth GEM 4-150 N	Omala S4 GX 150	Carter SH 150
		SEW 070040313									
	VG 220	-30 -10 0 / +85	-25 -5 +5 / +80	-25 -5 +5 / +80	-25 -5 +5 / +80		-25 -5 0 / +85	-30 -10 +5 / +85	-25 -5 +5 / +80	-25 -5 +5 / +85	-25 -5 +5 / +80
		GearOil Synth 220 E1	Alphasyn EP 220	Optigear Synthetic X 220	Renolin Unisyn CLP 220		SHC 630	SHC Gear 220	Klübersynth GEM 4-220 N	Omala S4 GX 220	Carter SH 220
		SEW 070040313									
	VG 320	-25 -5 +5 / +100	-20 0 +10 / +90	-20 0 +10 / +90	-20 0 +10 / +90		-20 0 +10 / +95	-25 -5 +10 / +95	-20 0 +10 / +95	-20 0 +10 / +95	-20 0 +10 / +90
		GearOil Synth 320 E1	Alphasyn EP 320	Optigear Synthetic X 320	Renolin Unisyn CLP 320		SHC 632	SHC Gear 320	Klübersynth GEM 4-320 N	Omala S4 GX 320	Carter SH 320
		SEW 070040313									
	VG 460	-20 0 +15 / +110	-15 +5 +15 / +100	-15 +5 +15 / +100	-15 +5 +15 / +100		-15 +5 +15 / +105	-20 0 +15 / +110	-15 +5 +20 / +105	-15 +5 +15 / +105	-15 +5 +15 / +100
		GearOil Synth 460 E1	Alphasyn EP 460	Optigear Synthetic X 460	Renolin Unisyn CLP 460		SHC 634	SHC Gear 460	Klübersynth GEM 4-460 N	Omala S4 GX 460	Carter SH 460
		SEW 070040313									
	VG 680	-15 +5 +20 / +110		-10 +10 +25 / +110	-10 +10 +25 / +110		-10 +10 +25 / +110	-15 +10 +25 / +110	-10 +10 +25 / +110	-10 +10 +25 / +110	-10 +10 +25 / +110
		GearOil Synth 680 E1		Optigear Synthetic X 680	Renolin Unisyn CLP 680		SHC 636	SHC Gear 680	Klübersynth GEM 4-680 N	Omala S4 GX 680	Carter SH 680
		SEW 070040313									
	VG 1000						-10 +15 +30 / +110	-10 +15 +30 / +110	0 +20 +30 / +110		
							SHC 639	SHC Gear 1000	Klübersynth EG4-1000		

This lubricant table is valid when the document is published. Refer to www.sew-eurodrive.de/lubricants for the latest version of the table.

[1]								
[2]	CLP HC NSF H1 [2]							E
[3]	VG 68 [1]	VG 220 [1]	VG 460 [1]	VG 680 [1]	VG 320	VG 460		
SEW EURODRIVE		-30 -5 0 +80 SEW GearOil Synth 220 H1 E1 SEW 07004031 3	-20 0 +15 +100 SEW GearOil Synth 460 H1 E1 SEW 07004031 3					
tremer & leguil	-35 -20 -10 +45 Cassida Fluid HF 68	-20 -5 +5 +75 Cassida Fluid GL 220	-15 +5 +20 +90 Cassida Fluid GL 460	-10 +10 +25 +105 Cassida Fluid GL 680				
Castrol	-40 -25 -15 +45 Optileb HY 68	-25 -5 +5 +75 Optileb GT 220 SEW 07004031 13	-15 +5 +20 +95 Optileb GT 460 SEW 07004031 3					
FUCHS	-35 -20 -10 +45 Cassida Fluid HF 68	-20 -5 +5 +75 Cassida Fluid GL 220	-15 +5 +20 +90 Cassida Fluid GL 460	-10 +10 +25 +105 Cassida Fluid GL 680	-20 0 +10 +8a5 Plantogear 320 S S2	-15 +5 +15 +95 Plantogear 460 S S2		
KLÜBER LUBRICATION	-35 -20 -10 +45 Klüberoil 4UH1-68 N	-25 -5 +5 +75 Klüberoil 4UH1-220 N	-15 +5 +15 +95 Klüberoil 4UH1-460 N	-10 +10 +25 +105 Klüberoil 4UH1-680 N	-20 0 +10 +85 Klüberbio EG2-320 S2			

1) Lubricants may only be used if the service factor F_s and peak load factor $F_F \geq 1.6$.
The peak output torque M_{K2per} is limited as follows: $F_F \geq 1.6 \rightarrow M_{K2per} \leq 1.25 \times M_{N2}$ (nominal torque) $\rightarrow M_{K2per} \leq 2 \times M_{N2}/F_F = 2/1.6 \times M_{N2}$.
In case of deviations, contact SEW-EURODRIVE.

2) NSF-H1 registered oils for the food processing industry cannot be combined with the gear unit option "Extended storage" (a VCI anti-corrosion agent is added).

NOTICE:
The thermal operating limits of the oil seal materials must also be taken into account, see chapter "Lubricant compatibility with oil seal" (→ 🗎 46).

30593506/EN – 07/2023

2.16 Sealing greases/rolling bearing greases

2.16.1 Bearing greases

The table shows the grease types recommended by SEW-EURODRIVE for operating temperatures from the lower limit temperature to 100 °C:

Area of operation	Manufacturer	Greases	Lower temperature limit
Standard	SEW-EURODRIVE	**SEW Grease HL 2 E1**[1)]	-40 °C
	Fuchs	Renolit CX TOM 15 OEM	-40 °C
	BP	Energrease LS EP-2	-30 °C
	Castrol	Longtime PD 2	-35 °C
		Spheerol EPL 2	-20 °C
	Klüber	Centoplex EP 2	-25 °C
		Petamo GHY 133 N	-40 °C
	Mobil	Mobilux EP 2	-20 °C
	Shell	Gadus S2 V220 2	-20 °C
	Total	Multis EP 2	-20 °C
	SEW-EURODRIVE	**SEW Grease HL 2 H1 E1**[1)]	-40 °C
	Bremer & Leguil	Cassida Grease GTS2	-40 °C
	Fuchs	**Plantogel 2**[1)]	-40 °C

1) Use the greases used at the factory if possible.

2.16.2 Premium bearing grease HL 2 E1 Grease by SEW-EURODRIVE

HL 2 E1 Grease by SEW-EURODRIVE consists of optimally matched product components. The calcium sulfonate complex saponified lubricating grease is based on a semi-synthetic base oil. In combination with an optimized additive package, the HL 2 E1 Grease by SEW-EURODRIVE has extraordinary mechanical characteristics. The powerful lubricant provides high thermal and mechanical stability for all friction points (bearings and seals) which are subjected to high levels of stress in the gear unit and the seals in the motor. This minimizes sealing ring wear and reduces the risk of premature roller bearing failure.

The corresponding premium bearing grease HL 2 E1 Grease by SEW-EURODRIVE is available for use in the food processing industry.

Key advantages:

- Good corrosion and wear protection
- Wide service temperature range
- Optimum water resistance
- Resistant to aging
- High thermal and mechanical stability

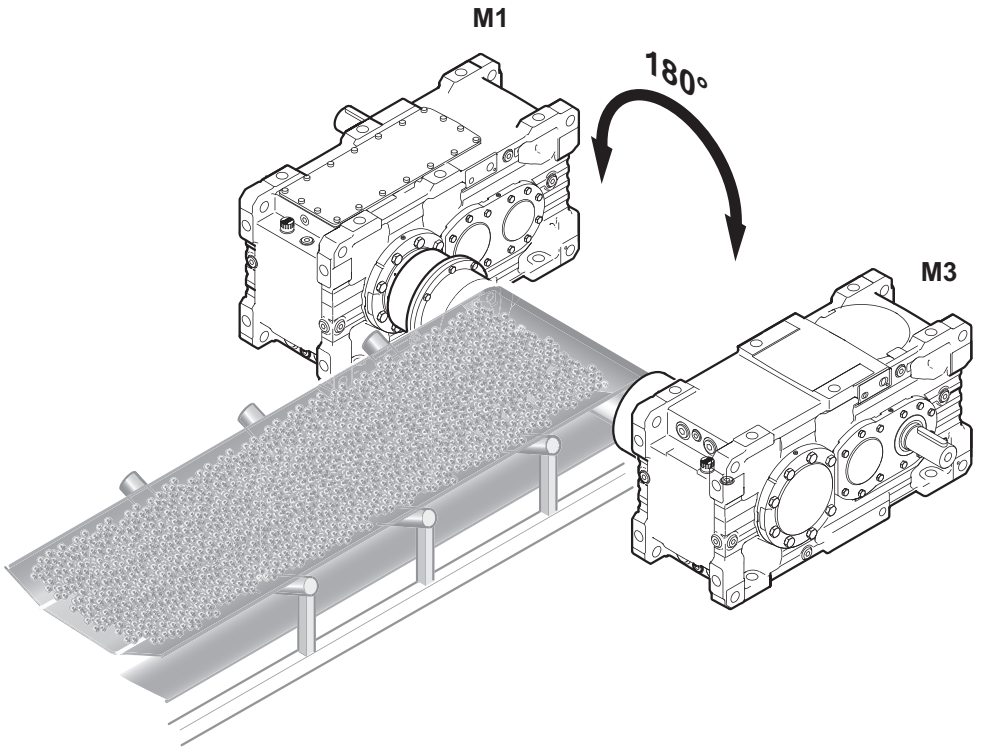
30593506/EN – 07/2023

2.17 Reversible gear units

INFORMATION

Reversible gear units are only available with universal housing / HU.

The universal housings /HU are symmetrical to the central axis and each mounting surface is designed so that "overhead mounting" is possible for mounting positions M1/M3. If you want this to be the case, contact SEW-EURODRIVE for adjusting the gear unit, options and accessories accordingly.

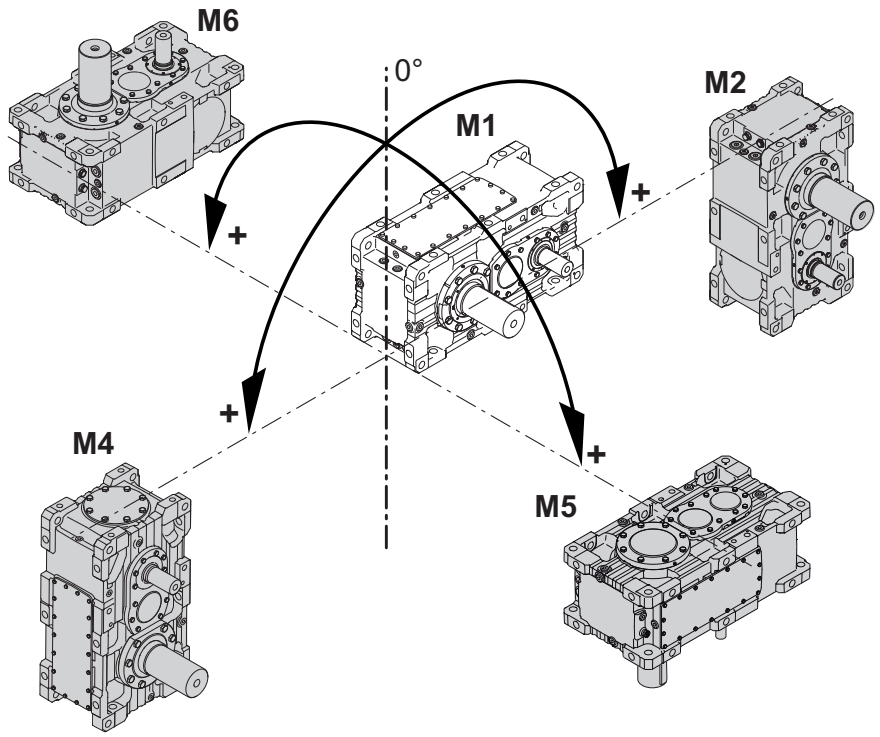


8584295179

30593506/EN – 07/2023

2.18 Fixed and variable pivoted mounting positions

Mounting positions deviating from the standard are differentiated between **fixed** and **variable** pivoted mounting positions.



18014406531135115

30593506/EN – 07/2023

2.18.1 Fixed pivoted mounting position

Definition:

Gear units with fixed pivoted mounting position have a fixed mounting position that differs from the standard. This means the gear unit does not change its mounting position during operation.

Example:

The type designation is set up as follows:

M1-M4/9°

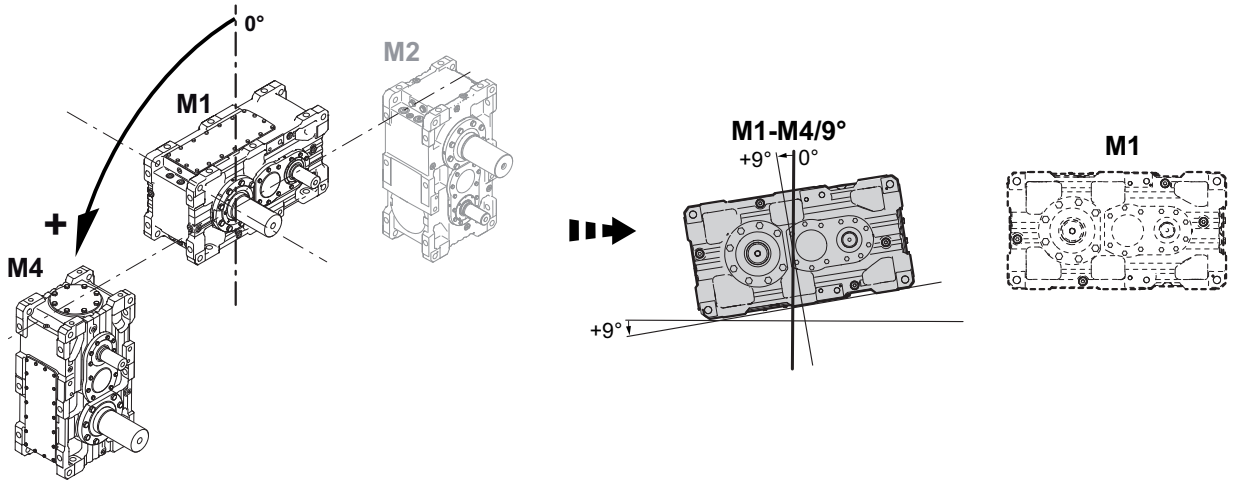
M1 = Initial mounting position

M4 = Pivoting direction

9° = Fixed pivoting angle

Pivoted from mounting position M1 to M4 by 9°

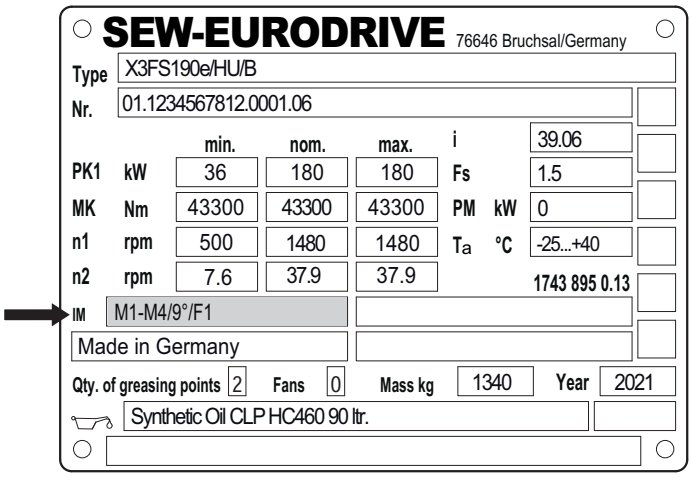
This results in the following fixed pivoted mounting position:



8021658507

The oil level is checked in the selected fixed pivoted mounting position.

The fixed pivoted mounting position is shown on the nameplate as follows:



63050402804847115

30593506/EN – 07/2023

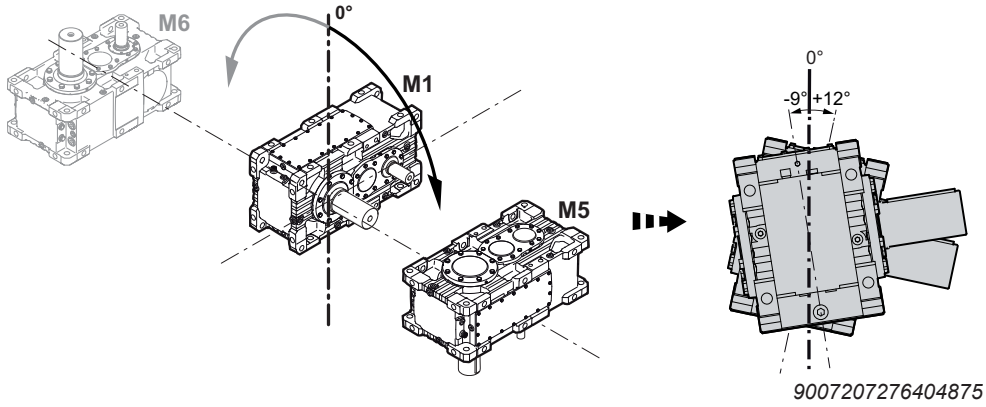
2.18.2 Variable pivoted mounting position

Definition:

Gear units with variable pivoted mounting position can change the mounting position **variably** during operation within the specified max./min. range.

Example:

The gear unit is operated in variable pivoted mounting position M1 to M6 = 9° and M1 to M5 = 12°.



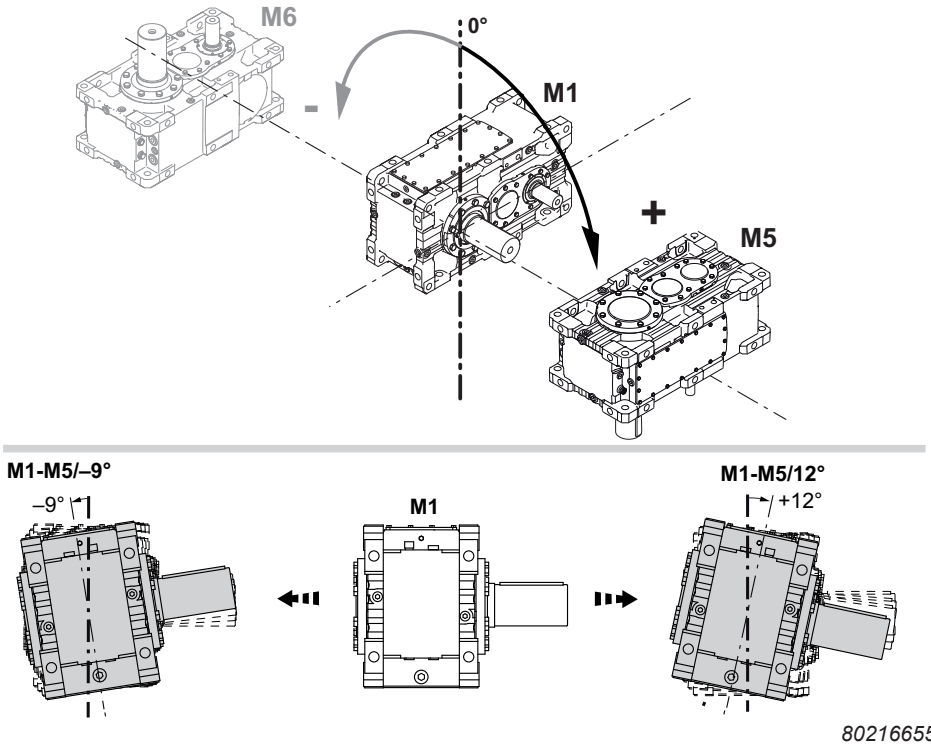
9007207276404875

Step 1:

The largest pivoting angle determines the positive pivoting direction (12° > 9°). In this example, this is 12° towards M5.

12° → from M1 to M5, pivoted by +12°

9° → from M1 to M5, pivoted by -9°



8021665547

The type designation for this example is:

M1-M5/–9°...12°

30593506/EN – 07/2023

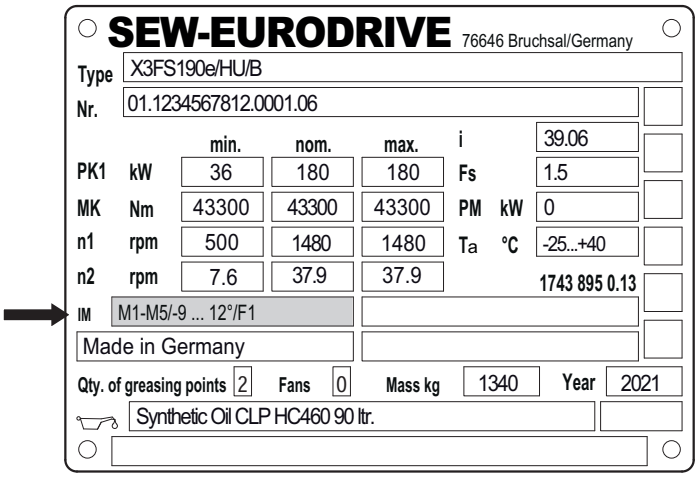
M1 = Initial mounting position

M5 = Pivoting direction

12° = pivoted from M1 to M5 by 12°

-9° = pivoted from M1 to M5 by –9° (= pivoted from M1 to M6 by 9°)

The variable pivoted mounting position is shown on the nameplate as follows:

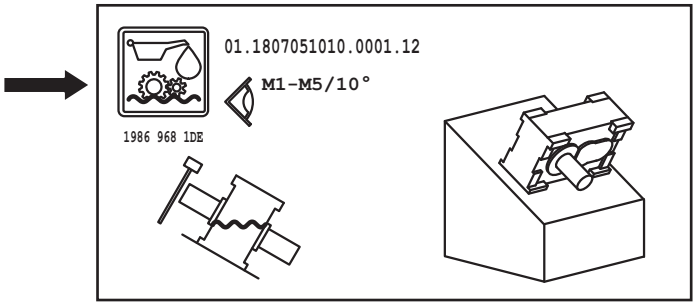


54043203550114827

Step 2:

For variable pivoted mounting positions, the customer must determine the pivoting angle in which the oil level is checked.

An additional nameplate is used to clearly indicate the oil check angle. This nameplate lists the mounting position for the oil level check.



8021670539

30593506/EN – 07/2023

2.18.3 Combination of variable and fixed pivoted mounting positions

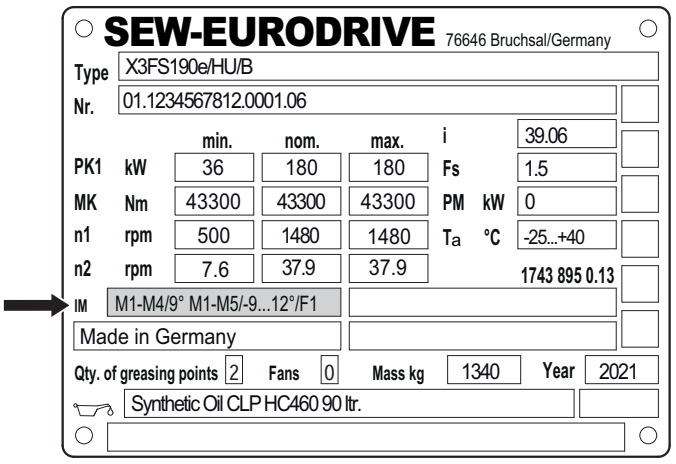
Fixed and variable pivoted mounting positions can be combined.

Example:

The following example shows a combination of fixed and variable pivoted mounting position. The type designation is set up as follows:

M1-M4/9° (fixed pivoted mounting position)		**M1-M5/–9°...12°** (variable pivoted mounting position)	
M1	= Initial mounting position	**M1**	= Initial mounting position
M4	= Pivoting direction	**M5**	= Pivoting direction
9°	= Fixed pivoting angle	**12°**	= 12° from M1 to M5
		-9°	= –9° from M1 to M5 (= 9° from M1 to M6)

The variable and fixed pivoted mounting position is shown on the nameplate as follows:

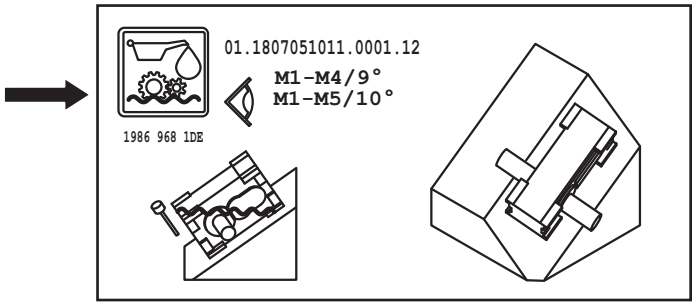


54043203550122891

When combining fixed and variable pivoted mounting position, the customer must determine the variable pivoting angle in which the oil level is checked. The fixed angle for the oil level check is already defined.

The gear unit has an additional nameplate to ensure correct oil level checks. This nameplate lists the mounting position for the oil level check.

In this example, the operator checks the oil level at M1-M4/9° M1-M5/10°.

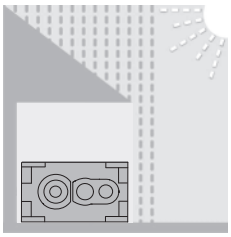


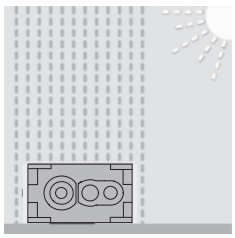
18014406531160587

2.19 Coating and surface protection systems

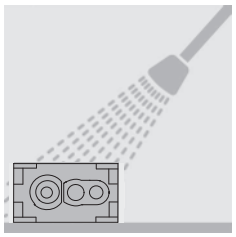
Used as surface protection under typical ambient conditions, corrosivity category DIN EN ISO 12944-2. The following tables give an overview of coating and surface protection systems.

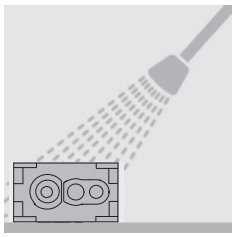
The gear unit is equipped with the following surface protection.

OS 1 low environmental pollution	
	For environments prone to condensation and atmospheres with low humidity or contamination, such as outdoor applications under roof or with protection, unheated buildings where condensation can build up. According to corrosivity category: C2 (low)
Sample applications	• Systems in saw mills • Agitators and mixers
Condensation test ISO 6270	120 h
Salt spray test ISO 7253	–

OS 2 medium environmental pollution	
	For environments with high humidity or moderate atmospheric contamination, such as applications outdoors subject to direct weathering. According to corrosivity category: C3 (moderate)
Sample applications	• Applications in gravel plants • Cableways
Condensation test ISO 6270	120 h
Salt spray test ISO 7253	240 h

30593506/EN – 07/2023

OS 3 high environmental pollution	
	For environments with high humidity and occasionally severe atmospheric and chemical contamination. Occasional acidic or caustic wet cleaning. Also for applications in coastal areas with moderate salt load. According to corrosivity category: C4 (high)
Sample applications	• Port cranes • Sewage treatment plants • Mining applications
Condensation test ISO 6270	240 h
Salt spray test ISO 7253	480 h

OS 4 very high environmental pollution	
	Suitable for environments with permanent humidity or severe atmospheric or chemical contamination. Regular acidic and caustic wet cleaning also with chemical cleaning agents. Based on corrosivity category: C5 (very high)
Sample applications	• Drives in malting plants • Wet areas in the beverage industry • Conveyor belts in the food industry
Condensation test ISO 6270	360 h
Salt spray test ISO 7253	600 h

INFORMATION

- Standard top coat color RAL 7031, can deviate depending on the order, see order documents.
- Color according to RAL
- Water and hand perspiration repelling rust preventive for external preservation applied to uncoated parts, shaft ends/flanges.
- Sheet metal parts (such as protection covers) are painted in RAL 1003 as standard.
- If you need surface protection systems of a higher quality, contact SEW-EURODRIVE.

30593506/EN – 07/2023

2.20 Storage and transport conditions

The gear units can be provided with the following protection and packaging types depending on the storage and transport conditions.

2.20.1 Internal conservation

Standard corrosion protection

After the test run, the test oil is drained out of the gear unit. The remaining oil film protects the gear unit against corrosion for a limited period of time.

Long-term corrosion protection

After the test run, the test oil is drained out of the gear unit and the interior space is filled with a vapor phase inhibitor. The breather filter is replaced by a screw plug and enclosed with the gear unit.

2.20.2 Exterior corrosion protection

The following measures are taken for exterior corrosion protection:

- Corrosion protection is applied to bare, non-painted functional surfaces of shafts, flanges, mounting and foot surfaces on the gear unit. Remove it only using an appropriate solvent which is not harmful to the oil seal.
- Small spare parts and loose pieces, such as bolts, nuts, etc., are packed in corrosion protection plastic bags (VCI corrosion protection bags).
- Threaded holes and blind holes are covered by plastic plugs.

INFORMATION

If the gear unit is stored longer than 6 months, regularly check the protective coating of unpainted areas as well as the paint coating. Areas with protective coating and/or paint that has been removed may have to be repainted.

2.20.3 Packaging

Standard packaging

The gear unit is delivered on a pallet, securely attached and without cover.

Use: Transportation by land

Long-term packaging

The gear unit is delivered in a wooden box that is also appropriate for sea transport.

Application: Sea transport and/or for extended storage

30593506/EN – 07/2023

2.20.4 Storage conditions

INFORMATION

- The gear unit must be stored in a shock-free manner during the storage period until startup to prevent damage to the rolling bearing races.
- The gear units are delivered without oil; different protection systems are required depending on the storage period and storage conditions as shown in the table below.

Corrosion protection + packaging	Storage location	Storage duration
Standard corrosion protection + standard packaging	Under a roof and enclosed at constant temperature and atmospheric humidity (5 °C < ϑ < 60 °C, < 50% relative humidity). No sudden temperature fluctuations. Controlled ventilation with filter (free from dust and dirt). No aggressive vapors and no shocks.	Max. 6 months with intact surface protection.
Long-term corrosion protection + standard packaging	Under a roof and enclosed at constant temperature and atmospheric humidity (5 °C < ϑ < 60 °C, < 50% relative humidity). No sudden temperature fluctuations. Controlled ventilation with filter (free from dust and dirt). No aggressive vapors and no shocks.	Max. 3 years with regular inspection and checking for intactness.
Long-term corrosion protection + long-term packaging	Under a roof, protected against rain and free from shocks.	Max. 3 years with regular inspection and checking for intactness.

INFORMATION

If stored in tropical zones, provide for sufficient protection against insect damage. Contact SEW-EURODRIVE in the case of differing requirements.

30593506/EN – 07/2023

2.21 Ambient conditions

The gear units are suited for operation at ambient temperatures from -40°C to +40°C, though the standard design might have to be modified depending on the ambient temperature.

When operated in areas with low ambient temperatures, high levels of humidity, aggressive or explosive atmospheres, please consult SEW-EURODRIVE.

Sealing, lubrication, ventilation, surface protection, and other properties of the gear unit can then be adjusted to the specific ambient conditions.

2.22 Potentially explosive atmospheres (ATEX)

X..e series industrial gear units are available for operation in potentially explosive atmospheres.

The explosion-protected designs comply with the requirements of Directive 2014/34/EU for equipment group I, category M2 and equipment group II, categories 2 and 3.

For the project planning of the gear units, contact SEW-EURODRIVE.

30593506/EN – 07/2023

2.23 Gear unit characteristics

2.23.1 Gearing and shafts

The gearing with edge corrections is made of high-quality, tempered, and ground case hardening steels. The output shafts are made of tough quenched and tempered steel.

2.23.2 Shaft bearings

Self-aligning, cylindrical, and tapered roller bearings from well-known manufacturers are used.

2.23.3 Thermal rating

The thermal rating needs to be checked for every gear unit. The relevant values are listed in the "Selection tables".

The values specified in the selection tables serve as a guide, the number of real influencing factors cannot be mapped. For an exact calculation, contact SEW-EURODRIVE.

2.23.4 Noise level

Normally, the sound-power levels of the gear unit, according to ISO 8579-1, are below the 50% line given in the standard.

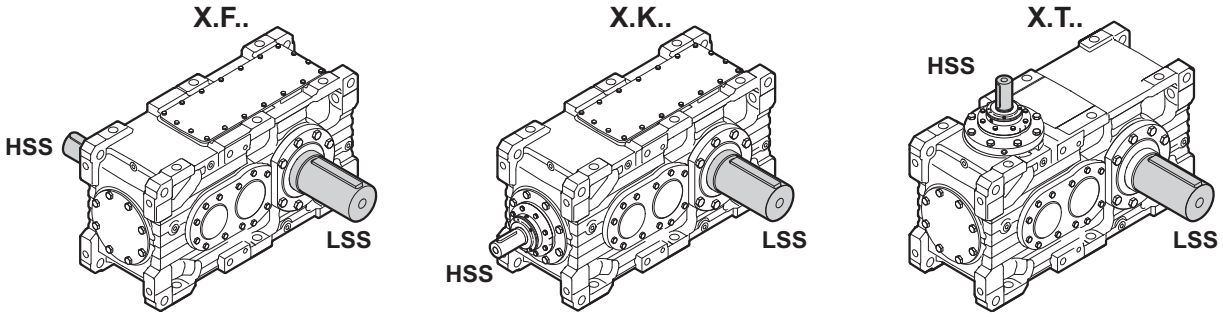
30593506/EN – 07/2023

3 Options and accessories

3.1 Input and output shafts

There are two types of shafts:

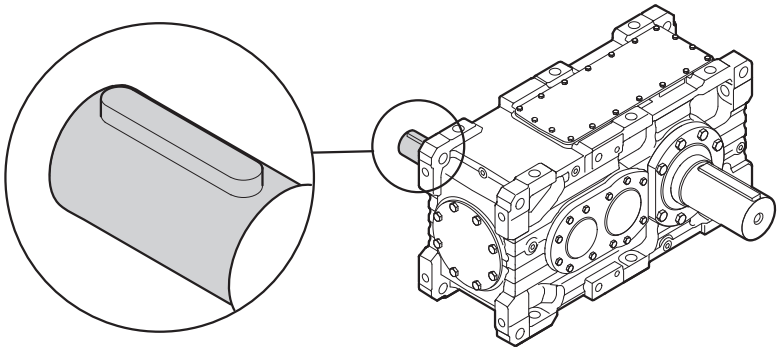
- High-speed shaft (**HSS**), usually the input shaft
- Low-speed shaft (**LSS**), usually the output shaft



20611259531

3.1.1 Input shaft

The input shaft is provided with a closed keyway according to DIN 6885/T1 and a center bore (according to DIN 332). The matching key according to DIN 6885/T1 - form A is included in the delivery.



27021598088261643

3.1.2 Optional input shaft ends X2K.., X3K.. and X4K..

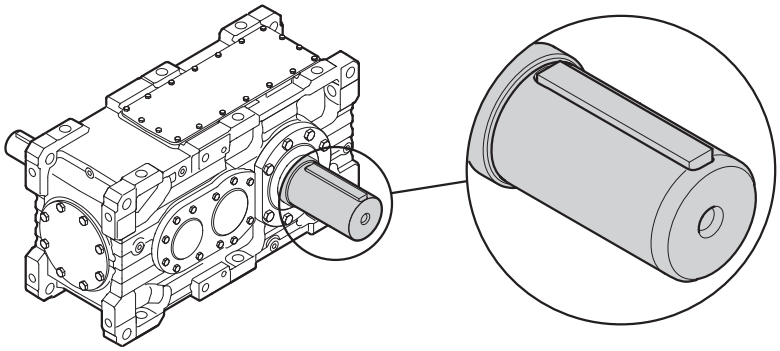
If the standard input shaft is too short because axial fans, brakes and a hydraulic coupling are used, the extended input shaft can be selected as an option.

For more information, refer to the chapter "Dimension sheet": "Optional input shaft ends X2K.. and X3K.." (→ 🗎 406).

30593506/EN – 07/2023

3.1.3 Output shaft as a solid shaft with key /..S

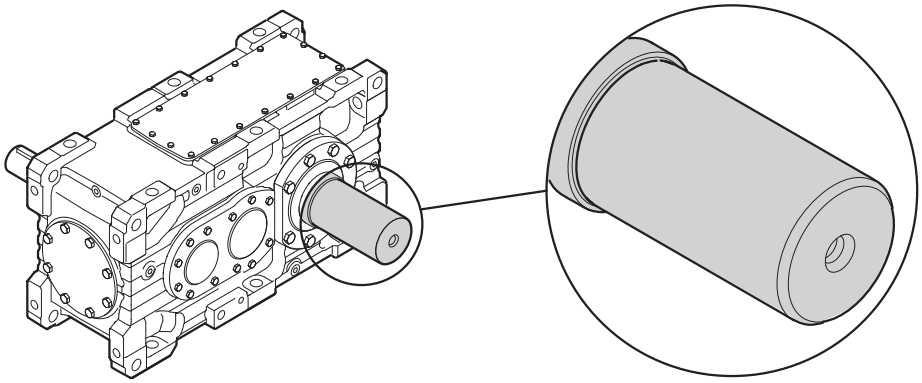
The output shaft is provided with a closed keyway according to DIN 6885/T1 and a centering bore (according to DIN 332). The delivery includes a key according to DIN 6885/T1 – form B. The shaft has an insertion area with a reduced diameter to simplify the mounting of output elements, such as a coupling hub.



27021598088460811

3.1.4 Smooth output shaft /..R

The gear units are available with a smooth output shaft to install non-positive output elements, such as flange couplings with a cylindrical interference fit. The shaft's face has a centering bore according to DIN 332. The insertion area with reduced diameter facilitates the mounting of output elements.

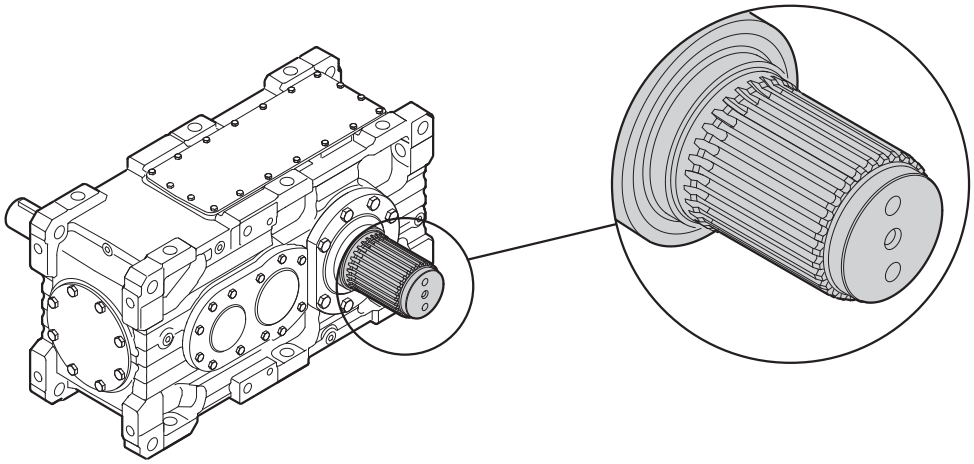


9007200756231819

30593506/EN – 07/2023

3.1.5 Output shaft as a splined solid shaft /..L

The output shaft is a splined shaft according to DIN 5480. There is a centering in front of and behind the splined shaft to improve the guide of the output element. Two threads are available on the front end of the shaft for mounting an end plate.



9007199999008011

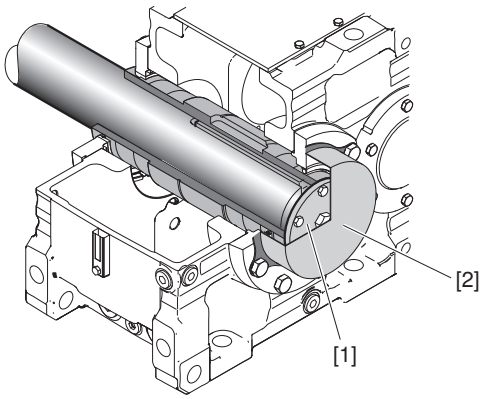
30593506/EN – 07/2023

3.1.6 Output shaft as a hollow shaft with keyway /..A

The hollow shaft is equipped with a keyway according to DIN 6885/T1.

The following are included in the scope of delivery:

- Protection cover [2]
- Retaining screws [1] or
- 2 retaining rings



18014407102630027

The protection cover is dust-tight. The standard sealing system is therefore generally used on the side of the safety cover.

INFORMATION

For detailed specifications on the geometry of the machine shaft, refer to chapter "Hollow shaft with keyway /..A [mm]" (→ 🗎 408). Dimension L14 refers to the length of the load bearing key. With a continuous machine shaft, the gear unit is delivered without end plate and protection cover. In this case, both gear unit sides are designed with the same sealing system.

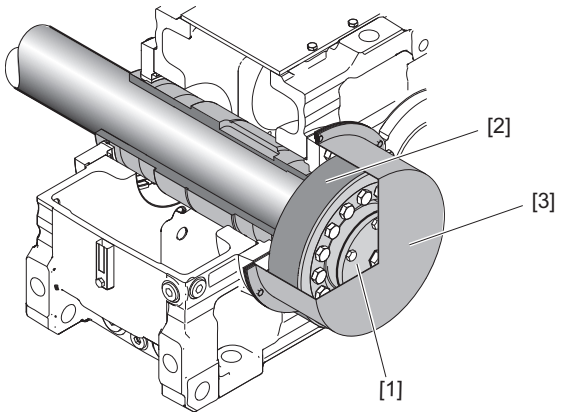
30593506/EN – 07/2023

3.1.7 Output shaft as a hollow shaft with shrink disk /..H

The shrink disk is positioned on the side opposite to the machine shaft.

Included in the delivery:

- Shrink disk [2] and protection cover [3]
- Endplate with retaining screws [1] or
- 2 retaining rings



9007207847897483

The protection cover is dust-tight. The standard sealing system is therefore normally used on the protection guard side.

INFORMATION

For detailed specifications on the geometry of the machine shaft, refer to chapter "Hollow shaft with shrink disk /..H [mm]" (→ 409).

In case of a through-going machine shaft, the gear unit is delivered without endplate and protection cover. In this case, both gear unit sides are equipped with the same sealing system.

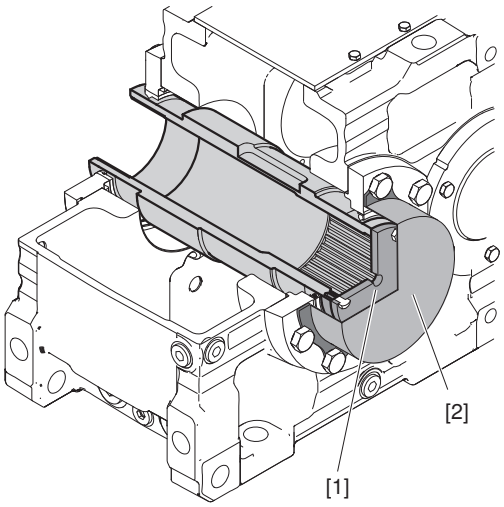
30593506/EN – 07/2023

3.1.8 Output shaft as a splined hollow shaft /..V

The output shaft is a splined shaft according to DIN 5480.

Included in the delivery:

- Protection cover [2]
- Endplate with retaining screws [1] or
- 2 retaining rings



9007207847901835

INFORMATION

For detailed specifications on the geometry of the machine shaft, refer to chapter "Splined hollow shaft X..V [mm]" (→ 🗎 410).

In case of a through-going machine shaft, the gear unit is delivered without endplate and protection cover. In this case, both gear unit sides are equipped with the same sealing system.

The protection cover is dust-tight, see previous page.

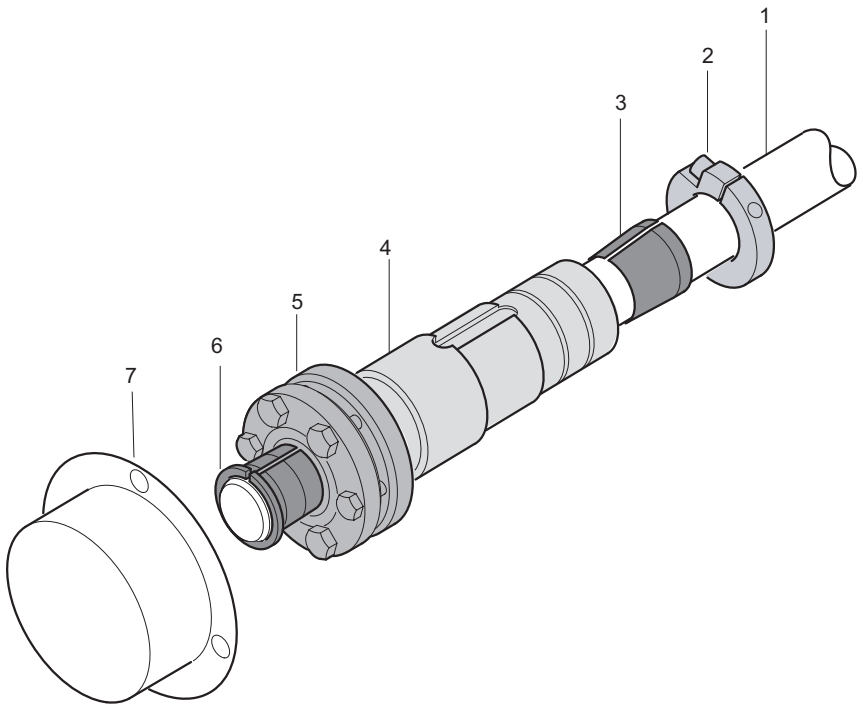
30593506/EN – 07/2023

3.1.9 TorqLOC® mounting system for gear units with hollow shaft

TorqLOC® description

The TorqLOC® hollow shaft mounting system is used for achieving a non-positive connection between the customer shaft and the hollow shaft in the gear unit. This makes the TorqLOC® hollow shaft mounting system an alternative to the previous hollow shaft with shrink disk, hollow shaft with key, and splined hollow shaft.

The TorqLOC® hollow shaft mounting system consists of the following components:



4309625867

[1] Customer shaft
[2] Clamping ring
[3] Conical bronze bushing
[4] Hollow shaft in gear unit
[5] Shrink disk
[6] Conical steel bushing
[7] Fixed safety cover

Advantages of TorqLOC®

The TorqLOC® hollow shaft mounting system is characterized by the following advantages:

- Cost saving as the customer shaft can be made from drawn material up to quality h11.
- Cost saving because different customer shaft diameters can be realized with one hollow shaft diameter and different bushings.
- Simple installation as there is no need to accommodate any shaft connections.
- Simple removal even after many hours of operation as the formation of contact corrosion has been reduced and the conical connections can easily be released.

30593506/EN – 07/2023

3.1.10 Gear unit mounting with hollow shaft gear units

Due to the rigid connection between the machine shaft and hollow shaft of the gear unit, constraining forces can occur on the output shaft bearing.

This is why you have to observe the following points when mounting hollow shaft gear units:

- The gear unit is usually foot or flange-mounted and used as bearing point when the machine shaft has no individual bearing or merely provides one bearing point. You have to provide for an accurate coaxial alignment with the bearing point.
- If the machine shaft has at least two bearing points, the gear unit should be connected only to the machine shaft and supported with a torque arm. In order to prevent excess stress on the bearing, gear units with foot or flange mounting are to be avoided.

INFORMATION



Non-observance may result in damages to the output shaft bearing and increased fretting corrosion in the connection between the machine and the hollow shaft of the gear unit.

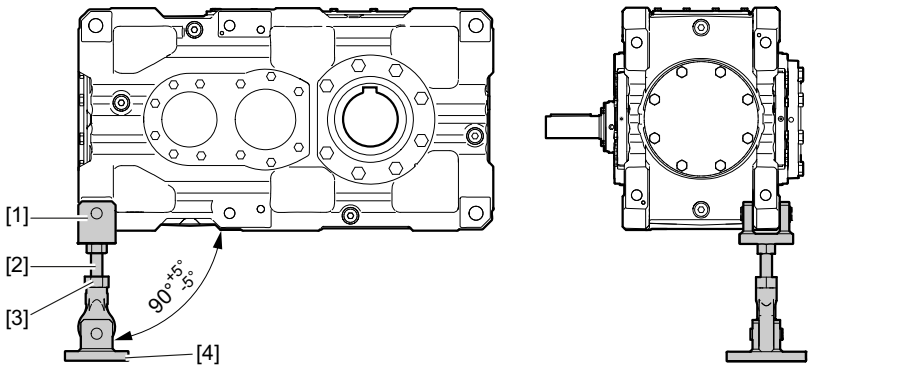
30593506/EN – 07/2023

3.2 Torque arm /T

An optional torque arm is available for shaft-mounted gear units to support the reaction torque (see chapter "Torque arm /T–HU [mm]" (→ 🗎 433) for dimensions). The torque arm can bear tensile stress as well as thrust loads.

The length of the torque arm can be adjusted within a certain range.

The torque arm consists of a yoke with bolt [1], a threaded bolt [2], a maintenance-free joint head [3], and a yoke plate with bolt [4]. The design with the joint head allows for compensating assembly tolerances and operational displacements. Constraining forces on the output shaft are avoided in this way.



27021598123349771

[1] Yoke head with bolt
[2] Stud bolt with nuts
[3] Joint head
[4] Yoke plate with bolt

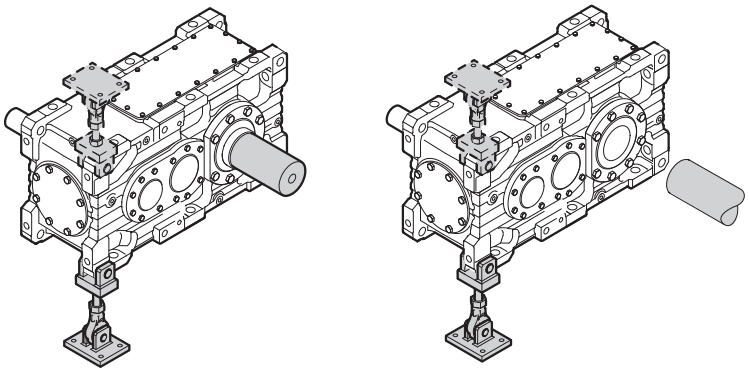
INFORMATION

As standard, the fan design for X.K.. gear units cannot be used together with a torque arm because the fan guard is mounted to the attachment point of the torque arm.

The X.K. fan guard with torque arm is only possible to a limited extent. Contact SEW-EURODRIVE.

To keep the bending moment on the machine shaft to a minimum, always mount the torque arm on the same side as the machine that is driven.

The torque arm can be mounted on the top or bottom of the gear unit.



9007207849064203

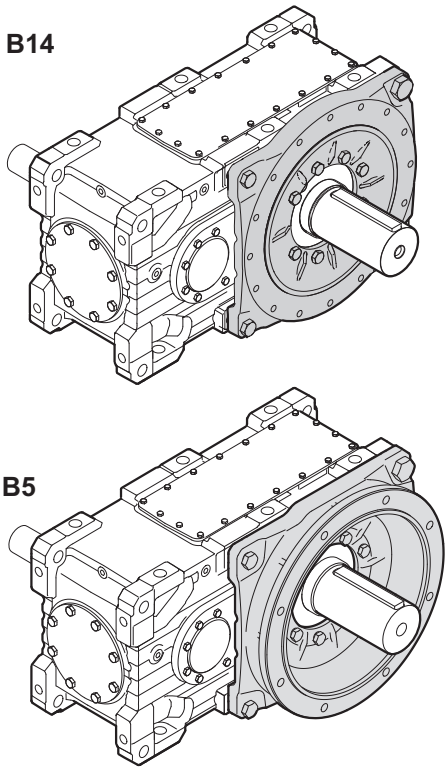
30593506/EN – 07/2023

3.3 Mounting flange /F

As an alternative to foot mounting, a mounting flange is available for gear units with universal housing /HU up to size 210. The gear unit can be attached to the operator's machine via the following 2 design types:

The mounting flange in B14 design has an outer centering and retaining threads.

In addition, a B5 design is available for sizes X130 – 190. The mounting flange is designed with through bores.



15632083083

INFORMATION

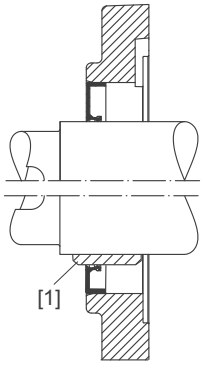
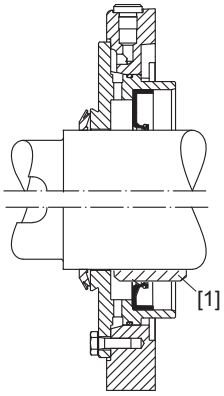
- The mounting flange can be combined with all output shaft types. The mounting flange cannot be used with the standard sealing system.
- For mounting flanges with external overhung loads, contact SEW-EURODRIVE.
- Observe the limitations for hollow-shaft gear units in chapter "Gear unit mounting for hollow shaft gear units".
- For gear units with mounting flange, observe the maximum permitted weight of the motor connected via motor adapters (see chapter "Motor adapter"). A combination of foot and flange mounting is not permitted.
- For dimensions of the mounting flange, see chapter "Mounting flange B14 /F [mm]" (→ 🗎 435).

30593506/EN – 07/2023

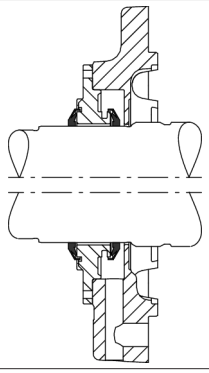
3.4 Sealing system

3.4.1 Input shaft

Non-regreasable seal

Designation	Property	Environment	Figure
Standard	Single oil seal with dust protection lip	Normal environment	
Designation	**Property**	**Environment**	**Figure**
Dust-protected	Single oil seal with dust protection cover	**Medium** dust load with abrasive particles	

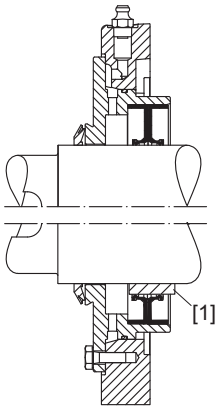
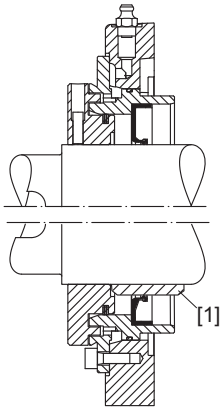
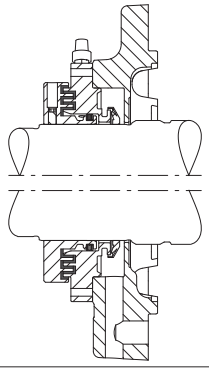
[1] Optional with oil seal sleeve

Designation	Property	Environment	Figure
Non-contact with dust protection*	Non-contact seal with dust protection and standstill sealing	**Low** dust load with abrasive particles	

* Available for all 2-stage gear units of sizes X2F260 – 320 in combination with lowered oil level and mounting position M1.

30593506/EN – 07/2023

Regreasable seal

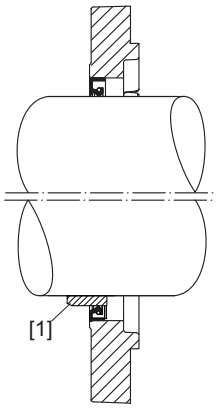
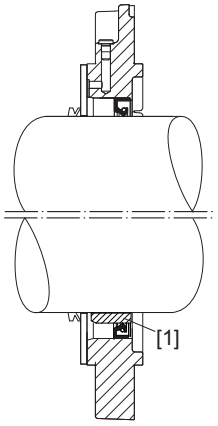
Designation	Property	Environment	Figure
Dust-protected regreasable	Double oil seal with dust protection cover	**High** dust load with abrasive particles	
Radial labyrinth seal (Taconite), regreasable	Single oil seal with radial labyrinth seal	**Very high** dust load with abrasive particles	
Non-contact with regreasable radial labyrinth seal	Non-contact seal with radial labyrinth and standstill sealing	**Medium to very high** dust load with abrasive particles	

[1] Optional with oil seal sleeve

30593506/EN – 07/2023

3.4.2 Output shaft

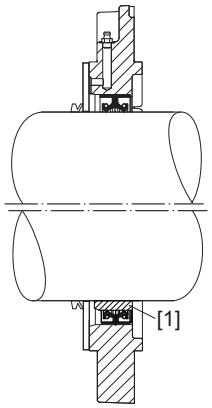
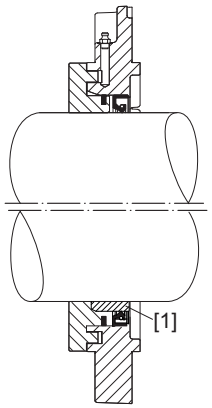
Non-regreasable seal

Designation	Property	Environment	Illustration
Standard	Single oil seal with dust protection lip	Normal environment	
Dust-protected	Single oil seal with dust protection cover	**Medium** dust load with abrasive particles	

[1] Optional with oil seal sleeve

30593506/EN – 07/2023

Regreasable seal

Designation	Property	Environment	Illustration
Protected against dust, regreasable	Double lip seal with dust protection cover	**High** dust load with abrasive particles	
Radial labyrinth seal (Taconite), regreasable	Single oil seal with radial labyrinth seal	**Very high** dust load with abrasive particles	

[1] Optional with oil seal sleeve

30593506/EN – 07/2023

3.4.3 Position of lubrication points

INFORMATION

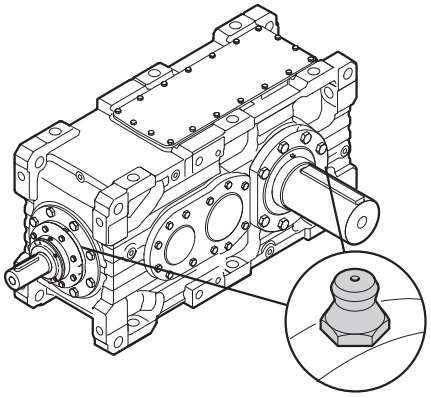
For further information on the lubrication points, refer to the dimension sheet.

Universal housing HU / horizontal housing HH / thermal housing HT

Grease nipple on gear unit cover

Regreasable sealing systems are usually equipped with taper greasing nipples according to DIN 71412 A R1/8. Relubrication must be carried out at regular intervals. The lubrication points are near the input and/or output shaft.

Example



18014398833098379

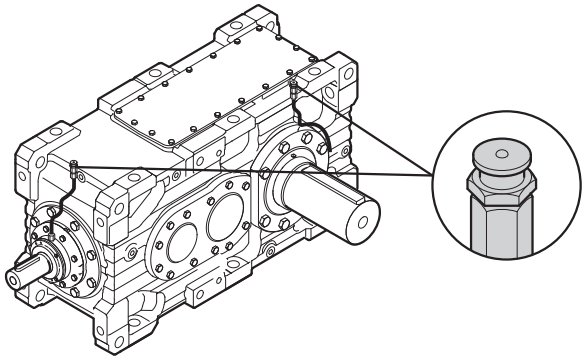
Grease nipple on the top side of the gear unit

When installed in a restricted space, the lubrication points can be relocated to the top side of the gear unit. Flat greasing nipples according to DIN 3404 A G1/8 are used. Relubrication must be carried out at regular intervals.

Note the following points:

- This option is normally used on drives with fans, motor adapters, or V-belt drives.
- The option applies to both input and/or output shaft(s).

Example

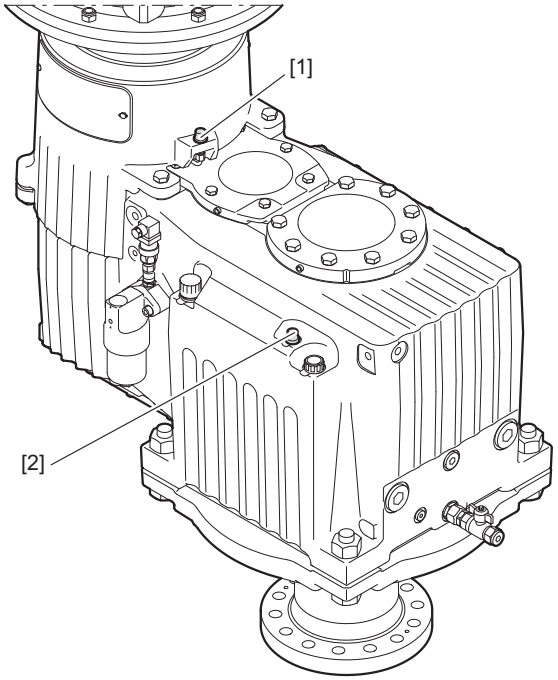


18014398833108107

30593506/EN – 07/2023

Agitator housing /HA

Regreasable sealing systems are equipped with domed head lubricating nipples as standard. Relubrication must be carried out at regular intervals. The lubrication point [1] serves to lubricate the seal at the input end. The lubrication point [2] serves to lubricate the seal at the output end.



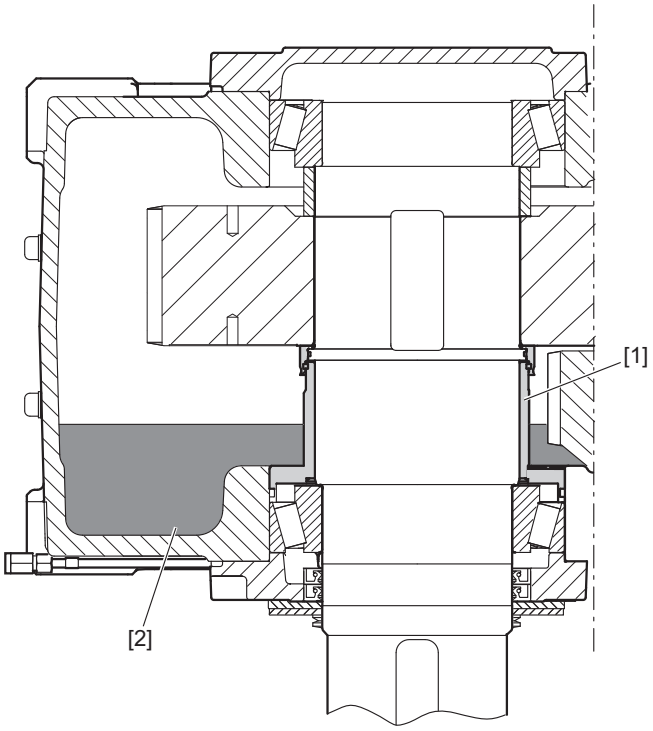
15644535179

30593506/EN – 07/2023

3.4.4 Drywell sealing system

Vertical gear units with output shaft pointing downwards can be equipped with a Drywell sealing system in addition to the usual sealing. The lower bearing of the output shaft is separated from the oil chamber by an integrated tube [1]. The bearing is grease-lubricated and has to be relubricated at regular intervals (DIN 3404 A G1/8 flat grease nipple). The oil level is lower than the upper end of the tube to prevent oil [2] from leaking at this point. All gear units with Drywell sealing system are equipped with pressure lubrication (shaft end pump or motor pump) to ensure sufficient lubrication of the upper bearing and the gearing.

For the lubrication points of drywell sealing systems, refer to chapter "Relubricating drywell sealing system bearings".



9007199961031563

30593506/EN – 07/2023

3.5 Oil expansion tank /ET

The oil expansion tank is designed to compensate for oil volume variations in the system caused by temperature fluctuations. When the gear unit temperature increases, the oil expansion tank absorbs some of the increasing oil volume and feeds it back to the gear unit as the temperature goes down, which means the gear unit is always completely filled with oil.

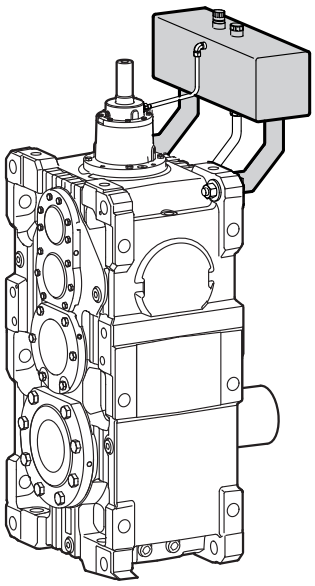
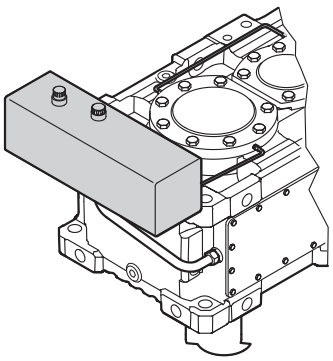
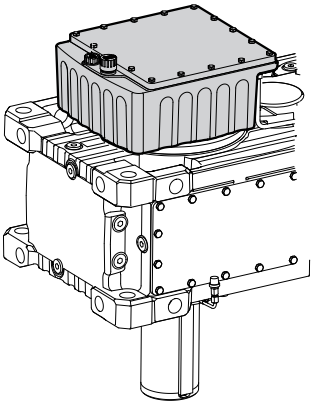
Based on the oil level specified by SEW-EURODRIVE, the oil expansion tank is designed to compensate the oil volume change within the permitted operating temperature range. A temperature decrease below the permitted temperature range causes the oil expansion tank to be completely emptied and air being sucked into the gear unit. This might result in insufficient lubrication and a malfunction of the gear unit. An increase above the permitted temperature range causes an overfilling of the expansion tank and oil might leak from the gear unit. Any oil level below or above the level specified by SEW-EURODRIVE is permitted during operation as long as there is oil in the oil expansion tank and the oil expansion tank does not overflow.

INFORMATION



For the dimension sheets of the oil expansion tanks, refer to chapter "Oil expansion tank /ET for mounting position M4 [mm]" (→ 🗎 517).

The following figure shows the accessories for mounting positions M4 and M5 by way of example.

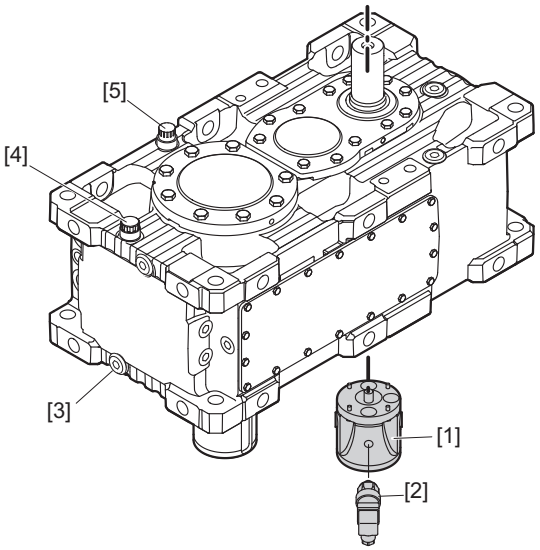
Mounting position M4	Mounting position M5 standard	Mounting position M5 optional
		The oil expansion tank is compact and can be used for gear units with output shaft as solid shaft. 

30593506/EN – 07/2023

3.6 Shaft end pump

3.6.1 Shaft end pumps for universal housings

The figure shows the accessories for M5 mounting position.



8702189579

[1] Shaft end pump
[2] Pressure switch
[3] Oil drain
[4] Breather
[5] Oil dipstick

With pressure lubrication. a shaft end pump (direction-independent) supplies all bearing points and gearing outside the oil sump with oil via a tube system.

The pump is mounted externally to the gear unit and is driven by the input shaft or intermediate shaft of the gear unit. A high reliability of the pump function is ensured in this way.

Different pump sizes are available. The adequate flow rate for the specific application depends on the following factors:

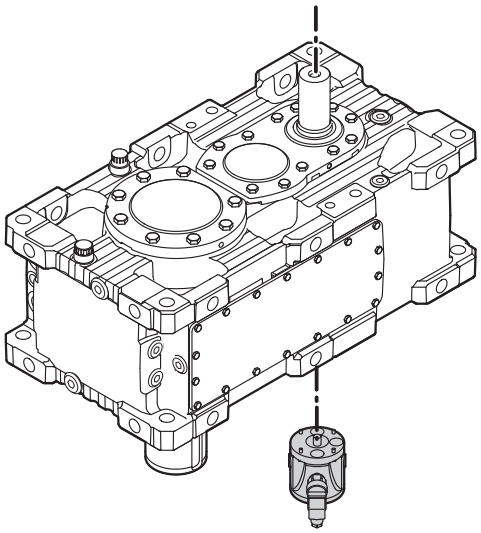
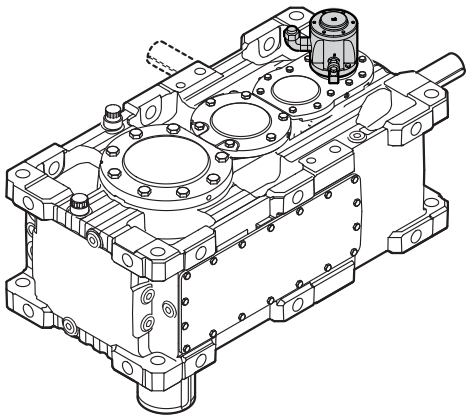
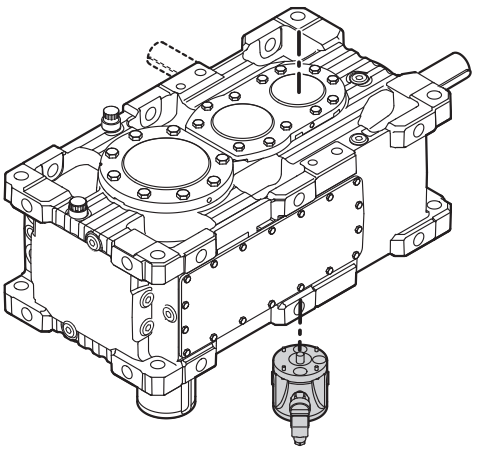
- Required oil quantity for supplying lubrication points
- Pump position (connected to input shaft or intermediate shaft)
- Gear unit ratio
- Speed range of the gear unit

INFORMATION

- Proper functioning of the shaft end pump is monitored via the connected pressure switch. For information, refer to chapter "Pressure switch /PS" (→ 🗎 112).
- With regard to the selection of suitable flow rates, consult SEW-EURODRIVE. For the dimensions, refer to chapter "Shaft end pump /SEP [mm]" (→ 🗎 428).
- A minimum input speed is required for the shaft end pump to operate properly. In case of variable and low input speeds (e.g. with inverter-controlled drives), contact SEW-EURODRIVE.

30593506/EN – 07/2023

Overview: Position of shaft end pump

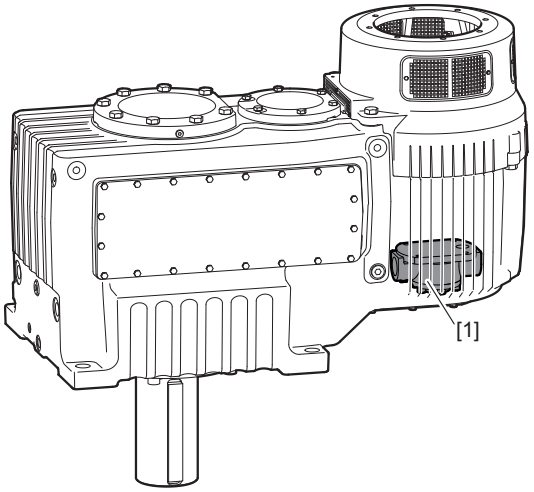
Design	Shaft end pump position	Figure
X.F..	With X.F.. helical gear units, the shaft end pump is positioned opposite the input shaft.	
X2K.. **X4K..** **X4T..**	The shaft end pump of X2K/X4K/X4T bevel-helical gear units is located opposite the output shaft.	
X3K.. **X3T..**	The shaft end pump of X3K/X3T gear units is located on the output shaft side.	

30593506/EN – 07/2023

3.6.2 Shaft end pump for agitator housing

For further information, refer to the technical brochure "Technology for Agitators and Aerators".

The following figure shows the shaft end pump [1].



18025223051

30593506/EN – 07/2023

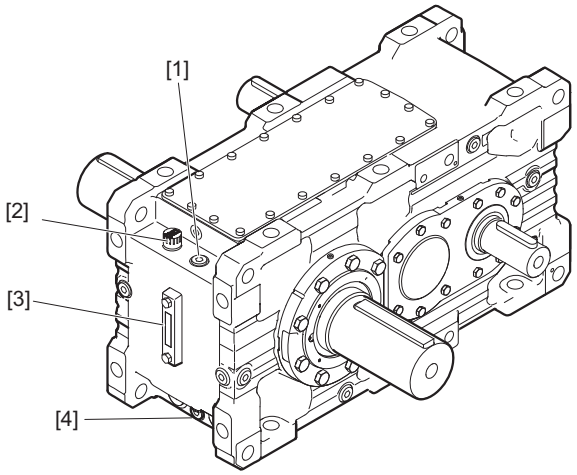
3.7 Accessories

The following section describes the accessories for the several lubrication types.

The position of the accessories may vary depending on gear unit design and gear unit size. For dimensions of the oil dipstick, oil drain valve and oil level glass, refer to chapter "Oil drain valve /ODV [mm]" (→ 🗎 525).

3.7.1 General accessories

The following figure shows the general accessories.



2671413899

[1] Oil dipstick (optional)
[2] Breather
[3] Oil level glass
[4] Oil drain

Visual oil level check

The following types are available as standard for gear units in **M1** mounting position with splash lubrication:

- Oil dipstick for sizes X.100 to X.170
- Oil level glass for sizes X.100 – X.320

For other mounting positions and lubrication types, the gear unit is equipped with an oil dipstick as standard.

A magnetic oil dipstick is available as an option. It has the same dimensions as the standard oil dipstick.

Gear unit venting

A breather serves to prevent non-permitted pressure generated by heating during operation. The gear units are equipped with a breather as standard.

Oil drain

The gear unit is equipped with an oil drain plug as standard. An oil drain valve may be provided as option. This valve allows for a drain pipe to be easily attached when changing the gear unit oil.

30593506/EN – 07/2023

3.8 Cooling

If the permitted thermal rating of the gear unit is exceeded, additional cooling measures must be applied.

The following cooling methods are possible as standard:

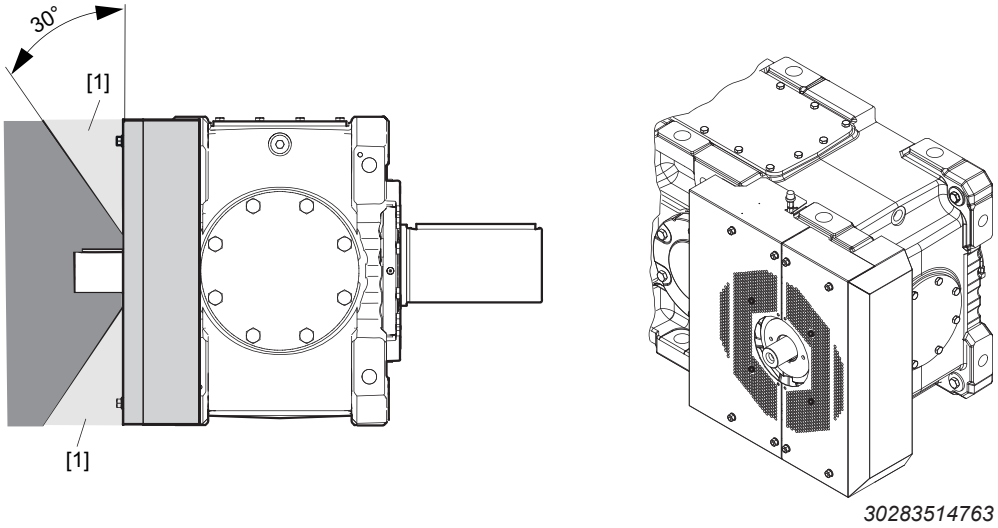
- Fan on the input shaft HSS
- A fan in combination with a water cooling cartridge
- A fan in combination with a water cooling cover
- Water cooling cartridge
- Water cooling cover
- Circulation cooling with oil-water cooler with motor pump
- Circulation cooling oil-air cooler with motor pump

3.8.1 Fan /FAN

Fans with optimized noise and flow engineering geometry are used. A fan may be retrofitted to raise the thermal rating or when the ambient conditions change after gear unit startup. The direction of rotation of the gear unit does not influence the operation of the fan.

SEW-EURODRIVE offers the following fan variants:

X.F..

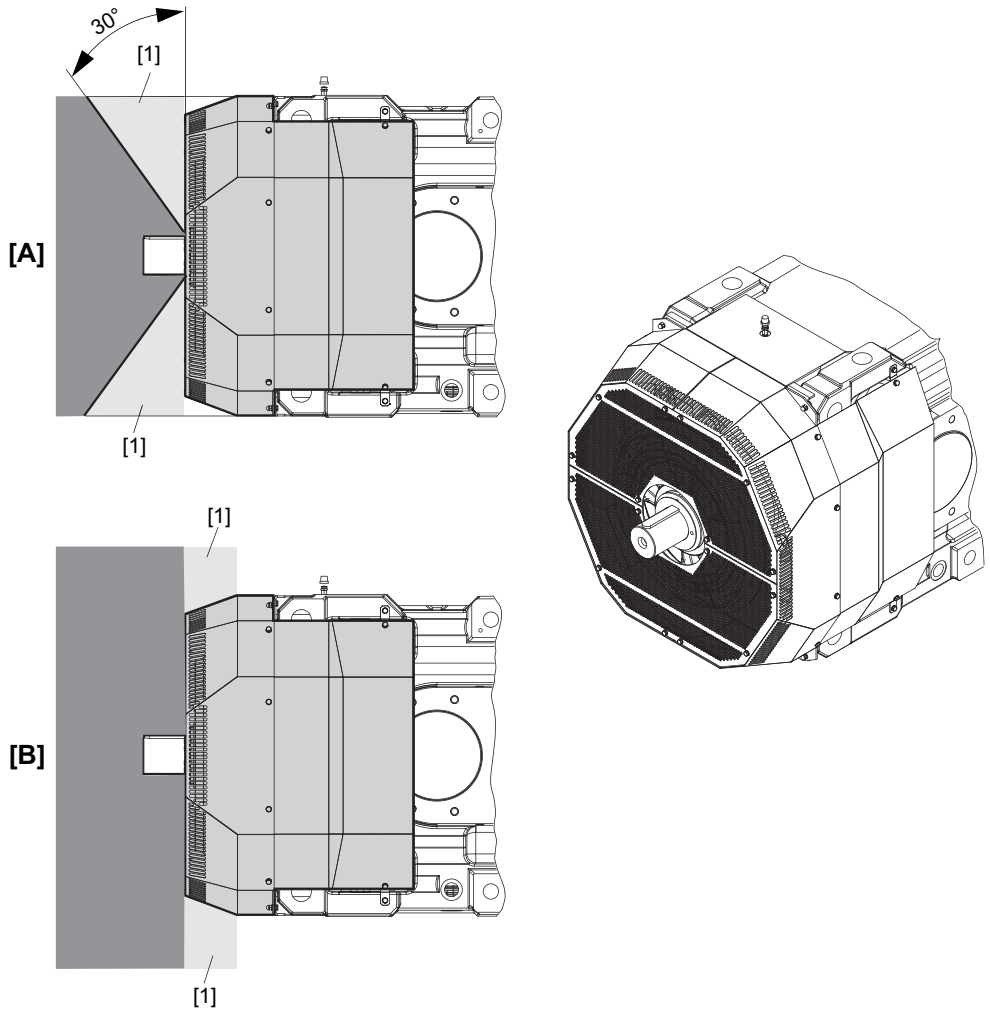


30283514763

[1] Air intake clearance

30593506/EN – 07/2023

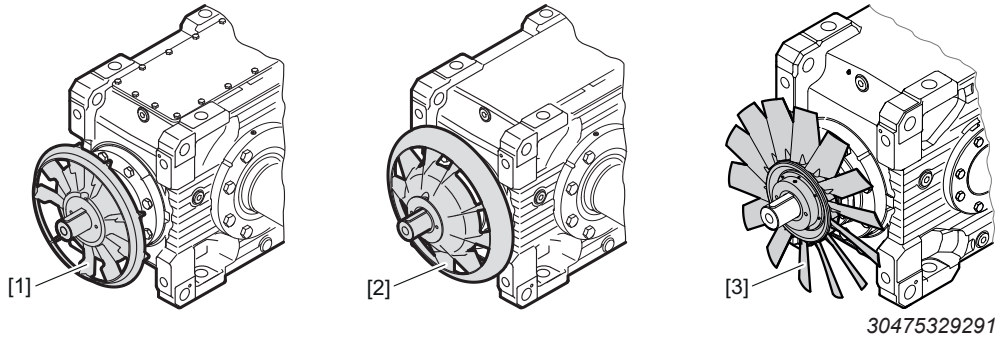
X.K..



32275118603

[A] Radial fan and axial fan
[B] Diagonal fan
[1] Air intake clearance

X.K.. fan designs

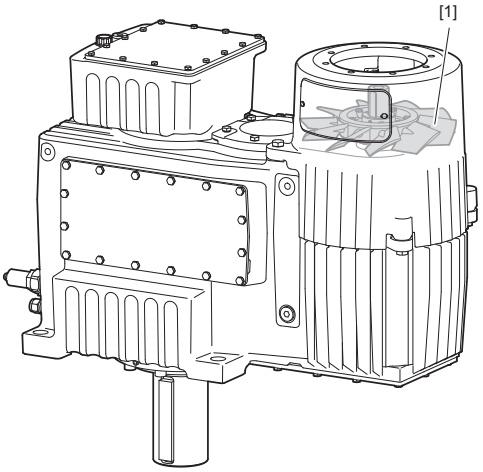


30475329291

[1] Radial fan
[2] Diagonal fan
[3] Axial fan

Axial fan basis

Agitator housing /HA



15583854347

30593506/EN – 07/2023

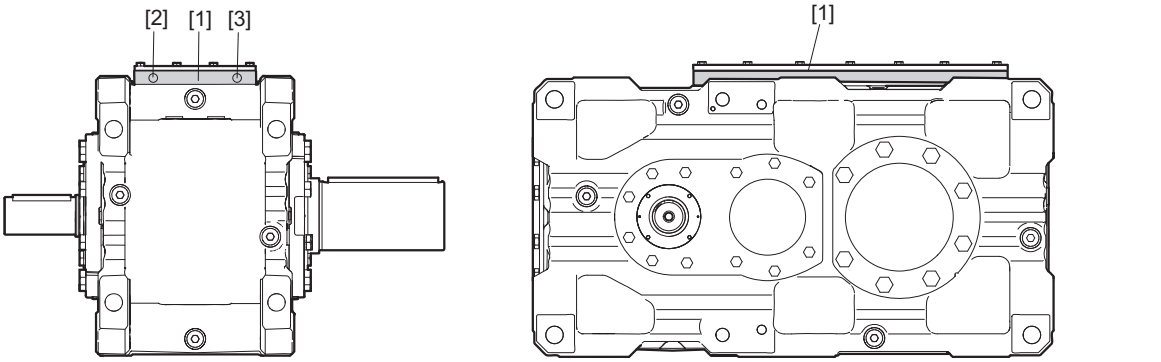
3.8.2 Built-in cooling, water cooling cover /CCV

The water cooling cover is located on the assembly opening of the gear unit and is provided with cooling water through a water connection that is provided by the operator. It is available for sizes X100 to 210. For the connection dimensions, refer to chapter "Water cooling cover /CCV and water cooling cartridge /CCT [mm]" (→ 🗎 431).

The amount of heat that can be dissipated depends on the intake temperature and the flow rate of the cooling medium that flows through the unit. Contact SEW-EURODRIVE regarding the thermal rating.

Structure

The figure shows an example of a gear unit with water cooling cover.



8702523019

[1] Water cooling cover
[2] Supply
[3] Return

The water cooling cover [1] is made of a corrosion-resistant aluminum alloy. Two bores with pipe threads are available to connect to the cooling circuit:

- Sizes X100 – 170: G3/8"
- Sizes X180 – 210: G1/2"

The piping is not included in the delivery. Gear units with water cooling cover are delivered completely assembled.

A water cooling cover can be retrofitted. Contact SEW-EURODRIVE.

Technical data

Adhere to the following values in the table. Do not exceed these values. Lower values are permitted. Also observe the information in the order-specific documents.

Size	Max. cooling water volume flow l/min	Max. water pressure bar
X100 – 110	15	6
X120 – 130	15	6
X140 – 150	15	6
X160 – 170	20	6
X180 – 190	28	6
X200 – 210	28	6

30593506/EN – 07/2023

Cooling media

INFORMATION

- Note that the service life, the efficiency, and the maintenance intervals of the heat exchanger depend to a great degree on the quality and ingredients of the cooling medium.
- Special measures have to be taken when using sea water or brackish water. Contact SEW-EURODRIVE.

Permitted cooling media

- The permitted cooling media is pure water. The use of cooling water additives, such as antifreeze or corrosion inhibitor, might negatively influence the cooling capacity and compatibility of materials. Contact SEW-EURODRIVE.
- Cooling water temperature and flow rate of cooling water according to order documents.

Dirt

The quantity of suspended solids (ball-shaped, particle size < 0.25 mm) should be less than 10 mg/l. Threadlike contaminants increase the risk of pressure loss.

Corrosion

Limit values: free chlorine < 0.5 ppm, chlorine ions < 200 ppm, sulfate < 100 ppm, ammonia < 10 ppm, free CO < 10 ppm, pH value 7-9.

The following ions do not have a corrosive effect under normal conditions: phosphate, nitrate, nitrite, iron, manganese, sodium, potassium.

30593506/EN – 07/2023

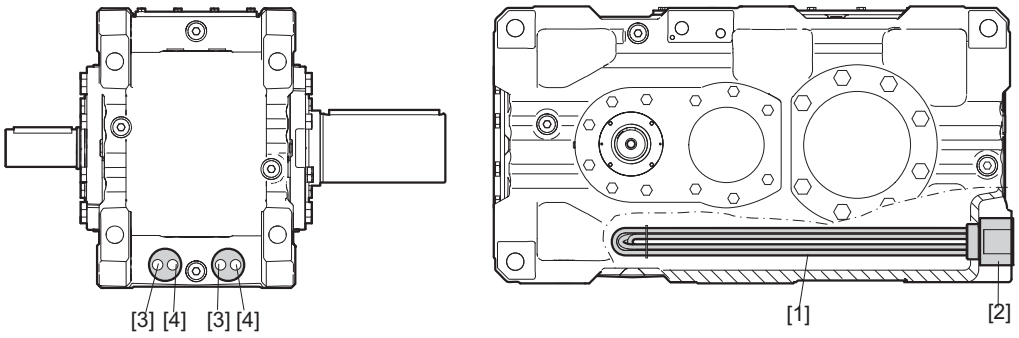
3.8.3 Built-in cooling, water cooling cartridge /CCT

The water cooling cartridge is mounted in the oil sump of the gear unit and is supplied with cooling water through a water connection that is provided by the user. It is available for sizes X100 to 320. For the connection dimensions, refer to chapter "Water cooling cover /CCV and water cooling cartridge /CCT [mm]" (→ 🗎 431).

The amount of heat that can be dissipated depends on the intake temperature and the flow rate of the cooling medium that flows through the unit. For the permitted thermal rating, refer to chapter "Selection tables" (→ 🗎 141).

Structure

The figure shows an example of a gear unit with water cooling cartridge.



[1] Cooling pipes
[2] Connection piece
[3] Supply
[4] Return

The water cooling cartridge consists of 3 main parts:

- Cooling pipes (CuNi alloy)
- Tube plate (brass)
- Connection piece (brass; gray cast iron; steel)

Two bores with pipe threads are available for connection to the cooling circuit:

- Pipe thread G1/4" for sizes X100 – 170
- Pipe thread G1/2" for sizes X180 – 320

. The piping is not included in the delivery.

Gear units with water cooling cartridge are delivered completely assembled.

Water cooling cartridges can be retrofitted to a certain extent. Contact SEW-EURODRIVE.

INFORMATION

- For gear unit sizes 140, 160, 180, 200, 220, 240, 260, 290, 310, the water cooling cartridge option comprises two cartridges as standard; for sizes 100, 110, 120, 130, 150, 170, 190, 210, 230, 250, 270, 280, 300, 320, it comprises one cartridge.
- The possible use as well as the maximum number of water cooling cartridges depends among others from the gear unit size, mounting position, end gear position, and lubrication type. Not all combinations of accessory options might be possible depending on the mounting position and mounting surface. Contact SEW-EURODRIVE.

30593506/EN – 07/2023

Technical data

Adhere to the following values in the table. Do not exceed these values. Lower values are permitted. Also observe the information in the order-specific documents.

The cooling water quantity has to be dimensioned individually for each cooling cartridge.

Twice the cooling water flow rate is required when using 2 cooling cartridges.

Size	Max. cooling water volume flow l/min	Max. water pressure bar
X100 – 110	11	10
X120 – 130	11	10
X140 – 150	15	10
X140 – 150	15	10
X140 – 150	15	10
X160 – 170	15	10
X180 – 190	28	10
X200 – 210	28	10
X220 – 230	28	10
X240 – 250	28	10
X260 – 270	25	10
X280 – 300	25	10
X310 – 320	25	10

Requirements on the water quality

INFORMATION

Contact SEW-EURODRIVE if you use cooling media such as brackish water or process water. Observe the information in chapter "Permitted cooling media" (→ 🗎 90).

The following requirements on the water quality are recommendations. In exceptional cases, certain concentrations of substances of content might cause unforeseen reactions.

The quality of the water as well as its substances are important factors for assessing the cooling water available for water cooling cartridges. The water quality is determined by the water hardness and the pH value of the water.

Water hardness

Water hardness is defined by the amount of hardeners (carbonates and bicarbonates) in the water. Hardeners accumulate on the surface of the water cooling cartridge in particular at high temperatures and in this way impair the performance. Take these deposits into account when selecting the water cooling cartridge for extremely hard water.

The following table shows the classification of German degrees of hardness to water quality °dH:

Degree of hardness[1)]	Water quality
0 – 5 °dH	Very soft water
5 – 10 °dH	Soft water
10 – 20 °dH	Medium hard water
20 – 30 °dH	Hard water
> 30 °dH	Very hard water

1) 10 mg/l of hardener corresponds to 1 °dH

30593506/EN – 07/2023

pH value

- The water cooling cartridge partially consists of a copper and nickel alloy, to which the following applies:

  → Corrosion problems when **pH value < 6**

- With alkaline water:

  → Corrosion problems when **water hardness < 6°dH**

  Smaller values can cause corrosion due to free carbonic acid.

  The following table describes the classification of the water quality based on the pH value:

pH Value	Water quality
4.5	Very acidic
4.5 – 6.0	Acidic
6.0 – 6.8	Slightly acidic
7.0	Neutral
7.2 – 7.7	Slightly alkaline
7.7 – 8.2	Alkaline
8.2	Very alkaline

Cooling water assessment based on water substances

The following table provides an overview of the resistance of copper-nickel pipes against substances in non-potable water.

Assessment criterion	Approximate concentration mg/l	Evaluation CuNi10Fe1Mn
pH value	< 6	0
	6 to 9	+
	> 9	0
Chloride	up to 1000	+
	> 1000	+ (< 25000 mg/l)
Sulfate	to 70	+
	70 to 300	+
	> 300	+ (< 25000 mg/l)
Nitrate	Up to 100	+
	> 100	0
Free (aggressive) carbonic acid	to 20	+
	20 to 50	0
	> 50	–
Oxygen	up to 2	+
	> 2	+
Ammonium	up to 2	+
	2 to 20	+
	> 20	–
Iron (dissolved)	to 10	0
	> 10	–
Manganese (dissolved)	to 1	0
	> 1	–
Free chlorine	to 5	permanently < 0.5 mg/l
	> 5	intermittently < 3.0 mg/l
Sulfide		0
Ammonia		+ (< 15 mg/l)

\+ = usually good resistivity

0 = corrosion problems can occur in particular if several factors are assessed with 0

– = we advise against use

30593506/EN – 07/2023

Types of cooling water/characteristics

Note the following conditions:

Industrial water

- Copper, brass and steel are very resistant against industrial water.
- Usually untreated water (no drinking water).
- Often very contaminated.
- A water analysis is necessary for assessment.

Stream water and river water

- As standard, water cooling cartridges are made of copper nickel pipes. As an option, stainless steel or titanium pipes are available.
- Cast iron parts must be protected against corrosion by suitable coating.
- Usually untreated water (no drinking water).
- Often very contaminated.
- A water analysis is necessary for assessment.

Salt water

- As standard, water cooling cartridges are made of copper nickel pipes. As an option, stainless steel or titanium pipes are available.

Brackish water

- As standard, water cooling cartridges are made of copper nickel pipes. As an option, stainless steel or titanium pipes are available.
- Mixture of sea water and river water.

30593506/EN – 07/2023

3.9 Oil heater /OH

An oil heater is required to ensure lubrication during a cold gear unit startup when the ambient temperature is low.

INFORMATION

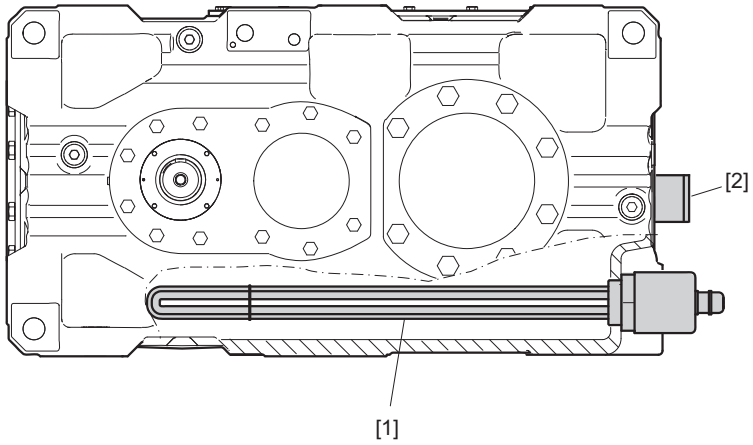
Note the oil viscosity outside of the gear unit (e.g. in the oil pipes) when performing a cold gear unit startup.

The heater is screwed into the gear unit housing at the factory and is controlled by a thermostat. The set trip temperature on the thermostat under the oil is set at the factory depending on the lubricant used.

3.9.1 Structure

The oil heater consists of 2 basic parts:

1. Heating element in the oil sump (oil heater) with terminal box
2. Thermostat with integrated temperature sensor



8723696011

[1] Oil heater
[2] Thermostat with integrated temperature sensor

30593506/EN – 07/2023

INFORMATION

- It is essential that the heating elements are fully immersed in the oil sump to prevent any damage.
- The position of the thermostat varies depending on the design and mounting position of the gear unit.
- The possible use as well as the maximum number of heating elements depends among others on the size, mounting position, end gear position, and lubrication type. Not all combinations of accessory options might be possible depending on the mounting position and mounting surface. Contact SEW-EURODRIVE.
- **1 heating element** is used with the following sizes as standard: 100, 110, 130, 150, 170, 190, 210, 230, 250, 270, 280, 300, 320. **2 heating elements** are used with the following sizes as standard: 120, 140, 160, 180, 200, 220, 240, 260, 290, 310
- To keep the gear unit startup temperature, the thermostat can be energized continuously. The heating process can take several hours.
- For dimensions of the heating elements, refer to chapter "Oil heater /OH [mm]" (→ 🗎 429).

3.9.2 Information on the function of the oil heater

- The trip point of the oil heater thermostat is factory-set to a temperature of about 5 K above the respective "initial temperature for gear unit startup", see chapter "Limit temperature for gear unit startup" (→ 🗎 98).

  At this temperature, the thermostat disables the oil heater, see chapter "Limit temperature for gear unit startup" (→ 🗎 98). The gear unit may not be started up until then. The thermostat activates the oil heater again once the temperature is about 5 K below the switching point.
- In order to prevent the oil from burning, the heating elements of the heater have a maximum surface load. This is why the heating process for cold gear unit oil can take between one and several hours. The exact duration of the heating process before the start varies depending on the gear unit size, design, mounting position, oil quantity, and ambient temperature.
- Thermostat and oil heater are installed in the gear unit and are ready for operation. Prior to startup, wire them properly and connect them to the current supply.
- Contact SEW-EURODRIVE if a differing oil viscosity class is used or if ambient temperatures fall below the specified limit temperature.

30593506/EN – 07/2023

3.9.3 Connection power

The table shows the power of the heating that may be installed.

Gear unit		P_{inst}		P_{inst}	
		1 heating element		2 heating elements	
Size	Design	kW	K/h	kW	K/h
X100	X2F, X2K, X3K	1 x 0.4	6	2 x 0.4	11
	X3F	1 x 0.3	3	2 x 0.3	7
X110	X2F, X2K, X3K	1 x 0.6	6	-	-
	X3F	1 x 0.3	4	-	-
X120	X2K	1 x 0.6	6	2 x 0.6	11
	X2F, X3K, X3F, X4K	1 x 0.7	6	2 x 0.7	11
	X4F	1 x 0.3	3	2 x 0.3	5
X130	X2F, X2K, X3K, X3F, X4K	1 x 0.7	5	-	-
	X4F	1 x 0.4	3	-	-
X140	X2K	1 x 0.7	4	2 x 0.7	9
	X2F, X3K, X3F, X4K	1 x 0.8	5	2 x 0.8	10
	X4F	1 x 0.4	3	2 x 0.4	5
X150	X2K	1 x 0.8	5	-	-
	X2F, X3K, X3F, X4K	1 x 0.9	5	-	-
	X4F	1 x 0.6	3	-	-
X160	X2K	1 x 0.9	4	2 x 0.9	8
	X2F, X3K, X3F, X4K	1 x 1.1	4	2 x 1.1	8
	X4F	1 x 0.7	3	2 x 0.7	5
X170	X2K	1 x 0.9	4	-	-
	X2F, X3K, X3F, X4K	1 x 1.1	4	-	-
	X4F	1 x 0.7	3	-	-
X180	X2F, X2K, X3K, X3F, X4K	1 x 1.6	5	2 x 1.6	10
	X4F	1 x 1.1	4	2 x 1.1	7
X190	X2F, X2K, X3K, X3F, X4K	1 x 1.6	5	-	-
	X4F	1 x 1.1	3	-	-
X200	X2K	1 x 1.6	4	2 x 1.6	8
	X2F, X3K, X3F,	1 x 1.8	4	2 x 1.8	8
	X4F	1 x 1.3	3	2 x 1.3	6
X210	X2K	1 x 1.5	4	-	-
	X2F, X3K, X3F, X4K	1 x 1.8	4	-	-
	X4F	1 x 1.3	3	-	-
X220	X2K	1 x 1.8	3	2 x 1.8	7
	X2F, X3K, X3F, X4F, X4K	1 x 2.2	4	2 x 2.2	8
X230	X2K	1 x 1.8	3	-	-
	X2F, X3K, X3F, X4F, X4K	1 x 2.2	4	-	-
X240	X2K	1 x 1.8	3	2 x 1.8	5
	X2F, X3K, X3F, X4F, X4K	1 x 2.2	3	2 x 2.2	6
X250	X2K	1 x 2.2	3	-	-
	X2F, X3K, X3F, X4F, X4K	1 x 2.6	3	-	-
X260	X2F, X3K, X3F, X4F, X4K	1 x 3.8	4	2 x 3.8	8
X270	X2F, X3K, X3F, X4F, X4K	1 x 3.8	4	-	-
X280	X2F, X3K, X3F, X4F, X4K	1 x 4.2	4	-	-
X290	X2F, X3K, X3F, X4F, X4K	1 x 4.2	3	2 x 4.2	6
X300	X2F, X3K, X3F, X4F, X4K	1 x 4.2	3	-	-
X310	X2F, X3K, X3F, X4F, X4K	1 x 5.0	3	2 x 5.0	6
X320	X2F, X3K, X3F, X4F, X4K	1 x 5.0	3	-	-

K/h = Heating capacity in Kelvin/hour

P_{inst} = Power of the installed heater

30593506/EN – 07/2023

3.9.4 Limit temperature for gear unit startup

The minimum permitted ambient temperature/oil temperature for gear unit startup depends on the viscosity of the oil used and the lubrication type of the gear unit.

INFORMATION

Before startup, it might be necessary to heat up the oil with an oil heater to the temperature specified under "Initial temperature". Observe the lubricant table in chapter "Permitted lubricants" (→ 🗎 43).

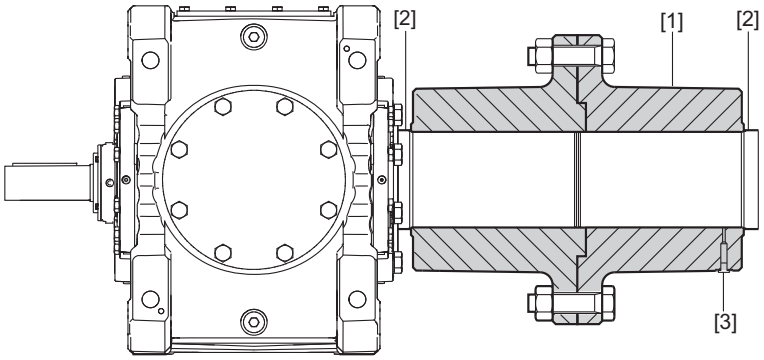
30593506/EN – 07/2023

3.10 Flange coupling with cylindrical interference fit /FC-S

Flange coupling [1] is a rigid coupling for connecting 2 shafts [2].

It is suitable for operation in both directions of rotation, but cannot compensate any shaft misalignments. Torque between the shaft and the coupling is transmitted via a cylindrical shrink fit. Both coupling halves are mounted together at their flanges. The couplings are equipped with several disassembly bores [3] for removing the interference fit hydraulically.

The dimensions and dimensioning of the machine shaft are available upon request from SEW-EURODRIVE.



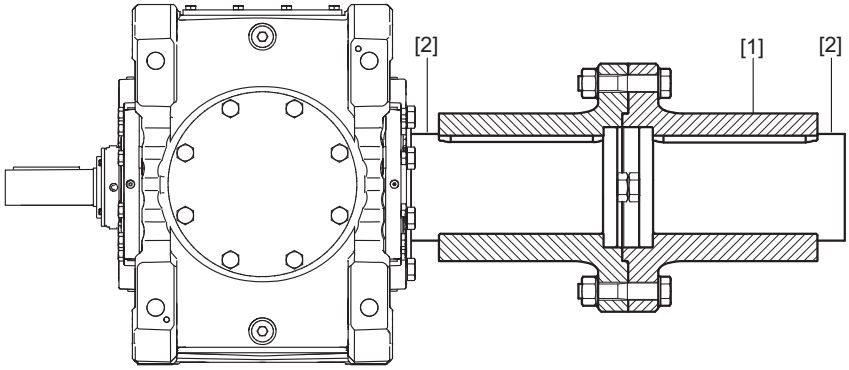
45035997225573259

3.11 Flange coupling with keyway /FC-K

Flange coupling [1] is a rigid coupling for connecting 2 shafts [2].

It is suitable for operation in both directions of rotation, but cannot compensate any shaft misalignments. Torque between the shaft and the coupling is transmitted via a keyed connection. Both coupling halves are mounted together at their flanges.

The dimensions and dimensioning of the machine shaft are available upon request from SEW-EURODRIVE.



19120961163

30593506/EN – 07/2023

3.12 Backstop /BS

INFORMATION

For information on the exact position, direction of rotation dependencies, and dimensions of the backstop, see chapter "Backstop X.F.. /BS [mm]" (→ 🗎 439).

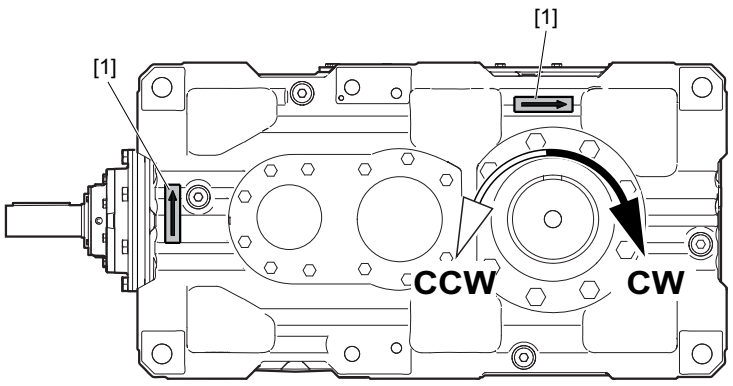
3.12.1 Use

The purpose of a backstop is to prevent unwanted directions of rotation. During operation, the backstop permits rotation in only one specified direction of rotation.

3.12.2 Description

The backstop operates with centrifugal lift-off sprags. Once the lift-off speed is reached, the sprags completely lift off from the contact surface of the outer ring. The backstop is lubricated with gear oil.

3.12.3 Direction of rotation



8594612875

Backstops are installed at SEW-EURODRIVE plants according to the order. This means that the direction of rotation for the output shaft must be specified. The customer must check whether the connected electric motor rotates in the correct direction of rotation. If not, the electric motor may damage the backstop.

The direction of rotation is determined as viewed onto the output shaft (LSS):

- CW = clockwise rotation
- CCW = counterclockwise rotation

The permitted direction of rotation [1] is indicated on the housing.

30593506/EN – 07/2023

3.12.4 Dimensioning

The backstop design complies with the following basic rules:

- Speed of the gear unit input shaft: 0 – 1800 min^{-1}
- Maximum permitted torque of the backstop in relation to the gear unit output shaft. At least 1.8 times the nominal gear unit torque with the exception of:

Size	Nominal gear unit ratio i_N	Size	Nominal gear unit ratio i_N
X2F140	6.3/7	**X3F260**	20
X2F150	8 / 9	**X3F270**	22.4
X2F260	8	**X3F280**	25/28
X2F280	10	**X3F300**	56
X2K220	8/10	**X4F120**	100
X2K230	9/11.2/12.5	**X4F130**	125
X3F180	20	**X4F290**	100
X3F230	45	**X4F300**	112

In case of deviating requirements, contact SEW-EURODRIVE.

Wear may occur in the backstop when operated below lift-off speed. This is why you should **always** contact SEW-EURODRIVE for defining the maintenance intervals for:

- Speeds at the input shaft n_1 < 950 min^{-1}
- For mounting positions other than the mounting position M1 or for pivoted mounting positions.
- For oil viscosities outside of the range of 40 – 19 000 cSt.

30593506/EN – 07/2023

3.13 Motor adapters /MA

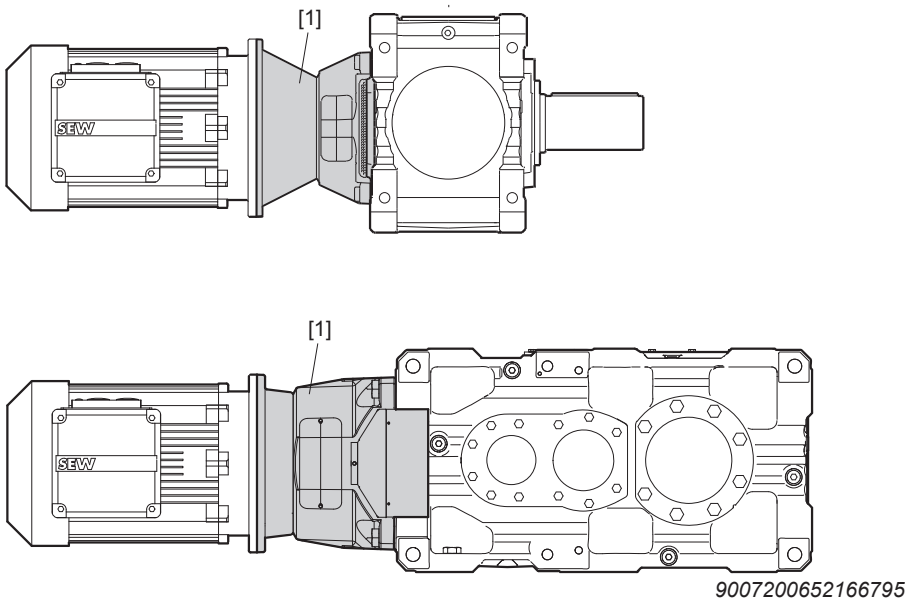
Motor adapters [1] are available for mounting:

- **IEC (B5) motors** of sizes 100 to 355
- **NEMA ("C" face) motors** of sizes 182 to 449

INFORMATION

- For sizes X220 and X270, the motor adapter connection type is available only in combination with the universal housing /HU.
- The gear unit must be installed in such a way that liquids cannot enter the motor adapter (HSS end) and accumulate there.
- An elastic claw coupling is included in the delivery.
- All motor adapters can be equipped with a fan for 2- and 3-stage gear units.
- The dimension sheets are provided in the "Motor adapter /MA" (→ 🗎 463) chapter.

The following figure shows an example of the motor adapter [1] connected to the gear unit:



9007200652166795

3.13.1 Maximum permitted motor weight

Two criteria are to be checked when mounting a motor onto the gear unit:

1. Maximum motor weight depends on gear unit design and mounting type
2. Maximum motor weight depends on motor adapter size

INFORMATION

The motor weight may not exceed either one of these criteria.

30593506/EN – 07/2023

1. Maximum motor weight depends on gear unit design and mounting type

INFORMATION

Result:

- The following tables apply only to stationary applications. For mobile applications (e.g. travel drives), contact SEW-EURODRIVE.
- In case of deviating mounting positions/mounting surfaces, contact SEW-EURODRIVE.

The following applies to all tables:

G_M = Motor weight

G_G = Gear unit weight

Horizontal gear units

Type of mounting	Mounting position M. / mounting surface F.		
	M1/F1 and M3/F2		
	X.F..	X.K..	X.T..
Foot-mounted X../ B	$G_M \leq 1.5\ G_G$	$G_M \leq 1.75\ G_G$	$G_M \leq 2.0\ G_G$
Shaft-mounted X../ T	$G_M \leq 0.5\ G_G$	$G_M \leq 1.5\ G_G$	$G_M \leq 1.5\ G_G$
Flange-mounted X../ F	$G_M \leq 0.5\ G_G$	$G_M \leq 0.5\ G_G$	$G_M \leq 0.5\ G_G$

Vertical gear units

INFORMATION

- When using the shaft-mounted version, contact SEW-EURODRIVE.
- Gear unit with mounting position M. / mounting surface F.: For M5/F4 and M6/F3, contact SEW-EURODRIVE.

Type of mounting	Mounting position M. / mounting surface F.		
	M5/F3 and M6/F4		
	X.F..	X.K..	X.T..
Foot-mounted X../ B	$G_M \leq 2.0\ G_G$	$G_M \leq 1.5\ G_G$	$G_M \leq 1.75\ G_G$
Flange-mounted X../ F	$G_M \leq 1.5\ G_G$	$G_M \leq 0.75\ G_G$	$G_M \leq 1.25\ G_G$

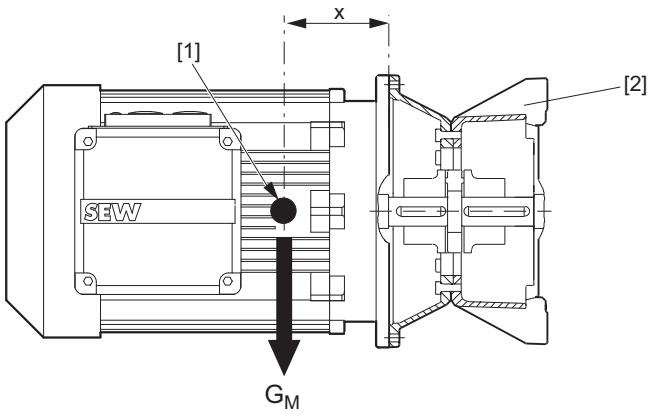
Upright gear units

Type of mounting	Mounting position M. / mounting surface F.		
	M4/F6		
	X.F..	X.K..	X.T..
Foot-mounted X../ B	$G_M \leq 1.25\ G_G$	$G_M \leq 1.75\ G_G$	$G_M \leq 1.5\ G_G$
Shaft-mounted X../ T	$G_M \leq 0.75\ G_G$	$G_M \leq 1.0\ G_G$	$G_M \leq 0.75\ G_G$
Flange-mounted X../ F	$G_M \leq 1.0\ G_G$	$G_M \leq 1.25\ G_G$	$G_M \leq 1.0\ G_G$

30593506/EN – 07/2023

2. Maximum motor weight depends on motor adapter size

The following maximum loads on the motor adapter must not be exceeded.



18014398866012811

[1] Center of gravity of the motor
[2] Motor adapter
X = Distance from the center of gravity
G_M = Weight of the mounted motor

INFORMATION

The table only applies to stationary applications. For mobile applications (e.g. travel drives), contact SEW-EURODRIVE.

Motor adapter		G_M	X
IEC	NEMA	kg	mm
100/112	182/184	60	190
132	213/215	110	230
160/180	254/286	220	310
200	324	280	340
225	326	400	420
250 / 280	364 - 405	820	480
315S-L	444 - 449	1450	680
315		2000	740
355		2500	740

The maximum permitted weight G_M must be linearly reduced if the centroidal distance **X** is increased. G_M cannot be increased if the centroidal distance is reduced.

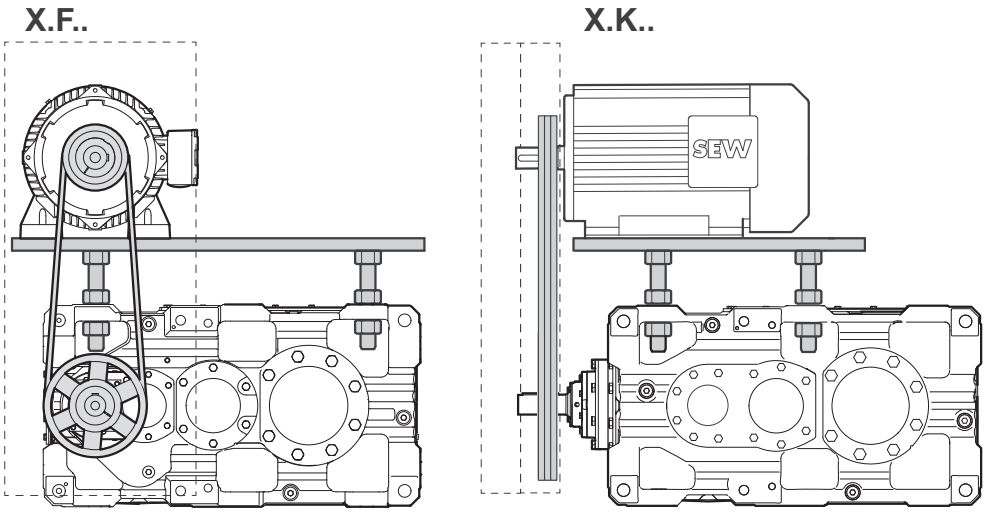
30593506/EN – 07/2023

3.14 V-belt drives /VBD

V-belt drives are usually employed where an equalization of the overall gear ratios is necessary or where physical peripheral conditions require a specific motor arrangement.

The standard delivery comprises motor scoop, belt pulleys, V-belt, and V-belt guard. As an alternative, the drive can be supplied as completely mounted unit with motor.

The following figure shows the basic design of a gear unit with V-belt drive.



18014399462586379

INFORMATION

- In standard design, V-belt drives cannot be combined with a mounting flange or a fan as these options would collide with the V-belt drive.
- For dimensions of the V-belt drives, refer to chapter "V-belt drives /VBD [mm]" (→ 🖹 447). More sizes are available from SEW-EURODRIVE on request.

3.15 Drive packages on a steel construction

For gear units in a horizontal mounting position, complete preassembled drive packages on a steel frame (swing base or base frame) are available from SEW-EURODRIVE.

The dimensions of the swing base and the base frame are determined by SEW-EURODRIVE specifically for each order.

For further information, refer to the "Drive packages on steel substructures" catalog.

3.15.1 Swing base /SB

A swing base is a steel frame [1] that accommodates the gear unit, (hydro) coupling and motor (and brake, if required), including a protection device, such as a cover. A swing base is normally used for

- Hollow shaft gear units or
- Solid shaft gear units with flange coupling on the output shaft

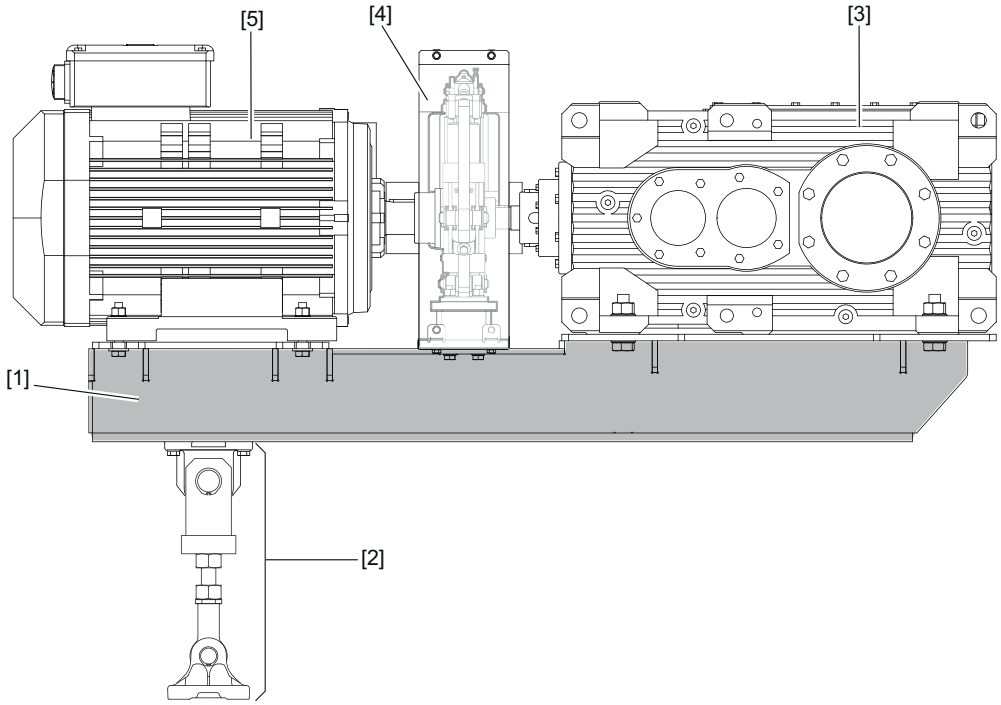
The steel frame [1] is supported by a torque arm [2].

30593506/EN – 07/2023

INFORMATION

The system frame must be sufficiently dimensioned to absorb the torque.

The following figure shows an example of a gear unit with swing base.



18014407108967691

[1] Swing base
[2] torque arm (optional)
[3] Bevel-helical gear unit
[4] Coupling with protection cover
[5] Motor

30593506/EN – 07/2023

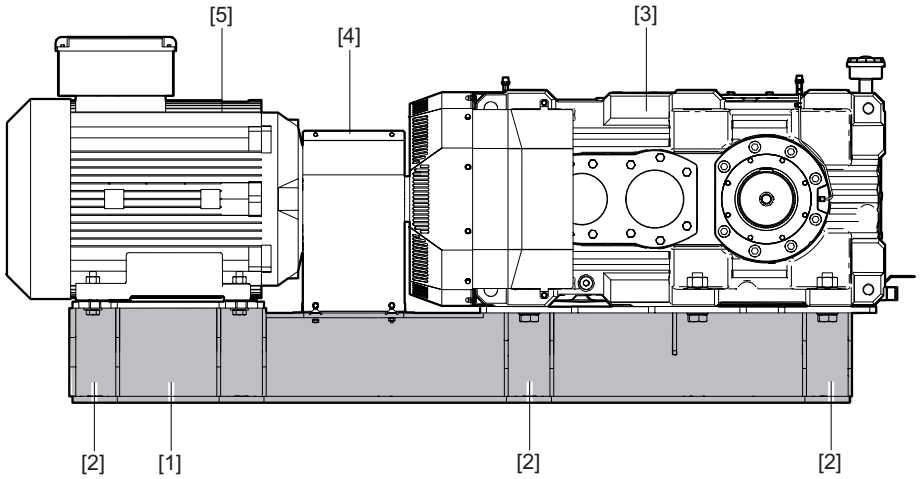
3.15.2 Base frame /BF

A base frame is a steel frame [1] that accommodates the gear unit, coupling and motor (and brake, if required), including a protection device, such as a cover. The steel frame is supported by several foot mountings [2]. Such a frame is usually used for solid shaft gear units with elastic coupling on the output shaft.

INFORMATION

It is important that the support structure of the foot mounting is adequately dimensioned and rigid.

The following figure shows an example of a gear unit with base frame and coupling.



18014407109171723

[1] Base frame
[2] Foot mounting
[3] Bevel-helical gear unit
[4] Coupling with protection cover
[5] Motor

30593506/EN – 07/2023

3.16 Breather /BPG

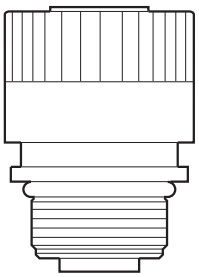
The breather serves to prevent non-permitted pressure generated by heating during operation.

INFORMATION

Refer to the dimension sheet and the order documents for further information on the breather.

The following breathers can be used.

3.16.1 Standard



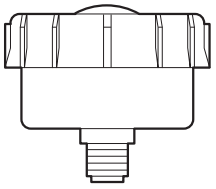
18847956107

Structure

Features	
Housing material	Polyamide
Filter inserts	Polyester filter, not exchangeable
Filter size	2 µm
Threads	3/4" or 1"

30593506/EN – 07/2023

3.16.2 Breather with filter insert /PI



9007218102699787

The breather has the following characteristics:

- Corrosion-resistant
- Robust filter housing
- High dirt-absorbing capacity

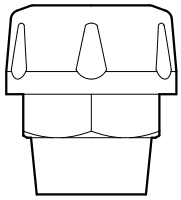
Structure

The breather has a corrosion-proof housing with an air intake opening at the top. The cover with protection lip keeps splashing water off.

Features	
Housing material	Polyamide
Filter inserts	Wire mesh, galvanized
Filter size	10 µm
Threads	3/4" or 1"

30593506/EN – 07/2023

3.16.3 Breather made of steel



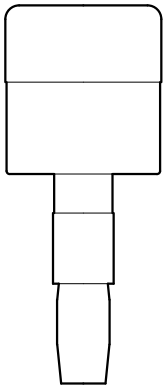
22880085899

Structure

Characteristics	
Housing material	Steel
Filter inserts	Wire mesh
Threads	3/4" or 1"

30593506/EN – 07/2023

3.16.4 Desiccant breather filter /DC



23545314443

The breather has the following characteristics:

- Absorbs water moisture and humidity
- Reduces oil mist

Structure

Features	
Housing material	Polycarbonate
Filter inserts	• Polyester filter: Removes air particles > 3 µm • Silica gel: Absorbs water moisture and humidity. Saturation is indicated by the color changing from blue to pink. • Foam pad: Absorbs oil mist.
Threads	3/8" or 1"

30593506/EN – 07/2023

4 Condition monitoring

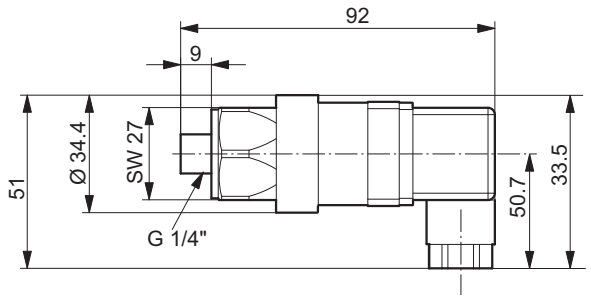
4.1 Pressure switch /PS

All gear units with pressure lubrication are equipped with a pressure switch for function monitoring.

The pressure switch is to be connected and integrated into the system in such a way that the gear unit can only be operated when the oil pump is building up pressure. A short-term compensation (max 20 s) during startup is permitted.

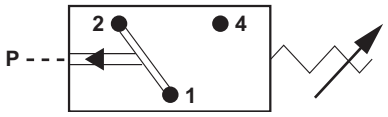
The electrical connection as well as evaluation of the switching signal are to be implemented by the customer.

4.1.1 Dimensions



721994635

4.1.2 Electrical connection



722003723

[1] [2] NC contact
[1] [4] NO contact

4.1.3 Technical data

- Switching pressure: 0.5 ± 0.2 bar
- Maximum switching capacity: 4 A – AC 250 V; 4 A – DC 24 V
- Plug connector: DIN EN 175301-803
- The tightening torque for the retaining screw in the back of the plug connector for electrical connection is 0.25 Nm.

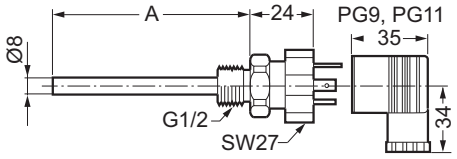
30593506/EN – 07/2023

4.2 Temperature sensor /PT100

The PT100 temperature sensor can be used to measure the temperature of the gear unit oil.

The temperature sensor is located in the oil sump of the gear unit. The exact position depends on the gear unit design and shaft position.

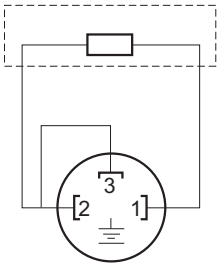
4.2.1 Dimensions



27021598123377419

A in mm
50
150

4.2.2 Electrical connection



359158539

[1] [2] Resistor element connection

4.2.3 Technical data

- Design with thermowell and changeable measuring insert
- Sensor tolerance in K ± (0.3 + 0.005 x T), (corresponds to DIN IEC 751 class B),

  T = Oil temperature in °C
- Plug connector: DIN EN 175301-803 PG9 (IP65)
- The tightening torque for the retaining screw in the back of the plug connector for electrical connection is 0.25 Nm.

30593506/EN – 07/2023

4.3 Temperature switch /NTB

A temperature switch with preset switching temperatures of 70, 80, 90 or 100 °C is used for monitoring the gear unit oil temperature.

For various functions, the temperature switch is also used as limit value switch, for example

- for a pre-alarm

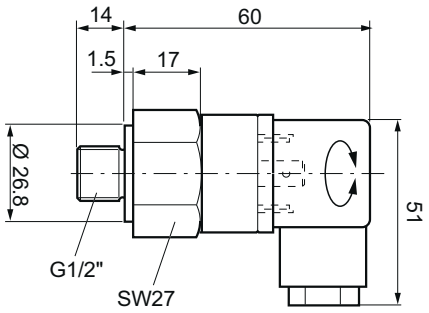
  or

- for a main alarm for switching off the main motor.

To guarantee a long service life and functioning under all conditions, it is recommended to use a relay in the power circuit instead of a direct connection through the temperature switch.

The temperature switch is located in the oil sump of the gear unit. The exact position depends on the gear unit design and shaft position.

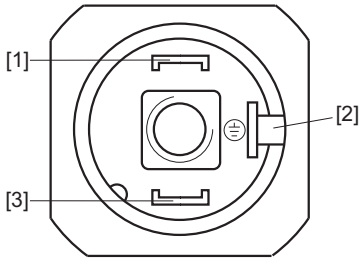
4.3.1 Dimensions



27021598130747915

4.3.2 Electrical connection

To guarantee a long service life and trouble-free functioning, we recommend that you use a relay in the power circuit instead of a direct connection through the temperature switch.



366532491

[1] [3] NC contact
[2] Grounding terminal 6.3 × 0.8

30593506/EN – 07/2023

4.3.3 Technical data

- Trip temperature: 70 °C, 80 °C, 90 °C, 100 °C ± 5 °C
- Contact capacity: 10 A – AC 240 V
- Plug connector: DIN EN 175301-803 PG9 (IP65)
- The tightening torque for the retaining screw in the back of the plug connector for electrical connection is 0.25 Nm.

4.4 Temperature switch /TSK

The TSK temperature switch is used with oil supply systems for circulation cooling. It is provided with 2 fixed trip points (60 °C and 90 °C) for controlling and monitoring the system.

The temperature switch is integrated in the circuit of the oil supply system as follows:

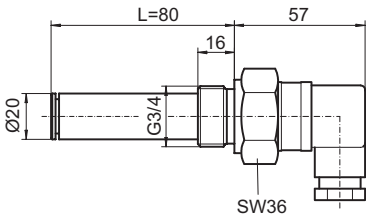
- The cooling system is activated when the oil temperature reaches 60 °C.
- Warning signal or disconnection of the gear unit when the oil temperature exceeds 90 °C (usually a sign of malfunction in the oil supply system)

The temperature switch is located in the gear unit's oil sump. The exact position depends on the gear unit version and position of the shaft.

INFORMATION

With sizes X100 – 210, the temperature switch is only possible in combination with the universal housing.

4.4.1 Dimensions

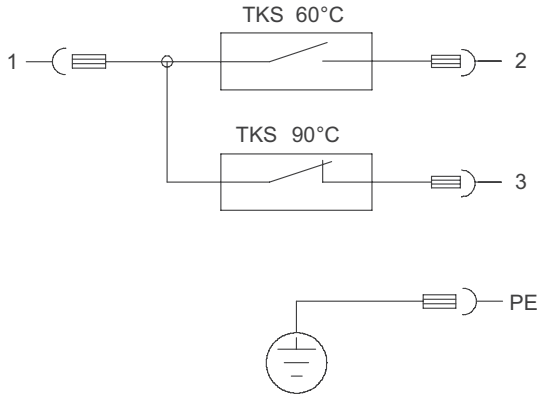


893872779

30593506/EN – 07/2023

4.4.2 Electrical connection

To guarantee a long service life and trouble-free functioning, we recommend that you use a relay in the power circuit instead of a direct connection through the temperature switch.



36028797912842123

[1][2] Switch 60 °C NO contact
[1][3] Switch 90 °C NC contact
PE Grounding terminal

4.4.3 Technical data

- Switching temperatures: 60 °C and 90 °C
- Contact capacity: 2 A – AC 240 V
- Plug connector: DIN EN 175301-803 PG11 (IP65)
- The tightening torque for the retaining screw in the back of the plug connector for electrical connection is 0.25 Nm.

30593506/EN – 07/2023

4.5 Diagnostic unit DUO10A (oil ageing)

The DUO10A diagnostic unit was developed for timely planning of oil changes.

The diagnostic unit consists of a PT100 temperature sensor and an evaluation unit. The PT100 temperature sensor installed in the gear unit measures the oil temperature present in the gear unit. The diagnostic unit uses the oil temperature values to calculate the predicted remaining service life of the oil. This calculated value is continuously displayed on the evaluation unit display. If required, the display can display the current gear unit oil temperature.

The oil types used by SEW-EURODRIVE are recorded in the evaluation unit, wherein a type of oil approved by SEW-EURODRIVE can be customized.

Oil grades:

Oil type	Designation	Limit temperature
Mineral oil CLP/ Bio oil	OIL1	100 °C
Synthetic oil CLPHC/CLPPAO	OIL2	130 °C
Polyglycol oil CLPPG	OIL3	130 °C
Food grade oil	OIL4	100 °C
Customer-specific	OIL5	Default setting = OIL1

4 switching outputs (NC/NO contact) with the following functions are available to connect the evaluation unit:

- Early warning:

  Is set to a few days before expiration of the remaining service life. The number of days can be set directly on the evaluation unit.

- Main alarm:

  Is set when the estimated remaining service life reaches zero.

- Limit temperature:

  Shows when the permitted oil temperature has been exceeded.

- Ready for operation:

  Displays errors in the wiring and recognizable faults in the evaluation unit.

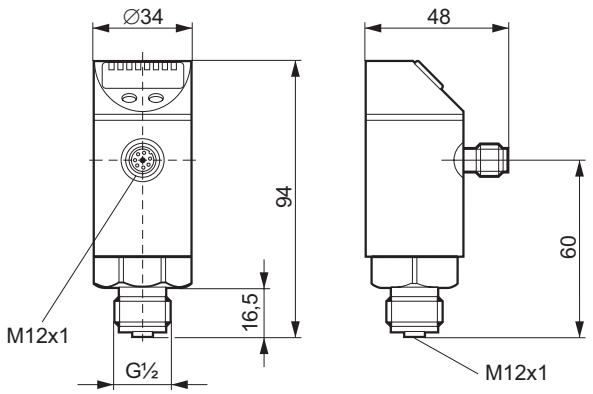
INFORMATION



For further information on the evaluation unit and accessories, refer to the "DUO10A Diagnostic Unit" manual, part no. 11473428.

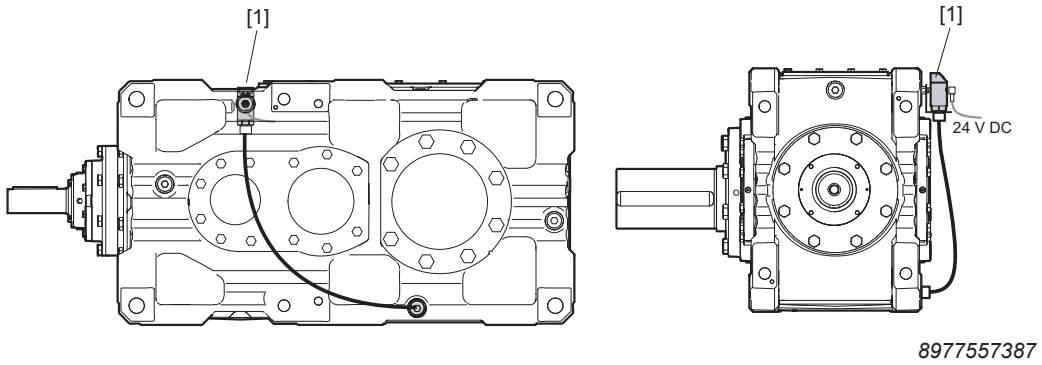
30593506/EN – 07/2023

4.5.1 Dimensions



8977554699

4.5.2 Mounting examples



8977557387

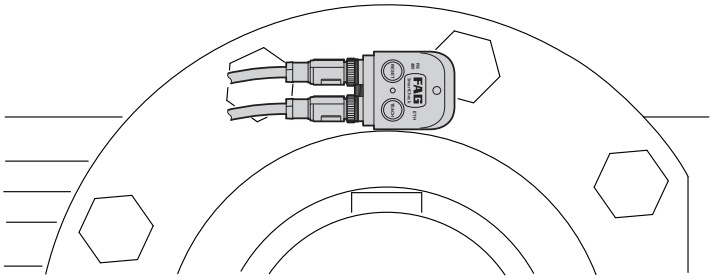
[1] DUO10A diagnostic unit

30593506/EN – 07/2023

4.6 DUV40A (Diagnostic Unit Vibration)

The DUV40A vibration monitoring system is used for early detection of damage to gear units and gearmotors (e.g. bearing damage or imbalance). Permanent frequency-selective monitoring of the gearmotor is used for this purpose. Apart from the vibration analysis, additional measured values of up to 3 signal encoders can be detected, recorded and analyzed. The additional signals can be used as reference values for signal analysis e.g. to trigger time or event-based measuring tasks. After the analysis and depending on user-defined alarm limits, the system can switch outputs and display the state using LEDs.

DUV40A is configured using the SmartWeb software. If you use several Vibration SmartCheck systems, you can control them centrally from one PC using the SmartUtility Light software.



INFORMATION

For more information about DUV40A, refer to the "Diagnostic Unit Vibration" manual, part No.: 29190258/DE.

4.6.1 Scope of delivery

- Vibration SmartCheck unit with integrated SmartWeb software
- Vibration SmartCheck and SmartWeb documentation on CD-ROM
- SmartUtility Light software with user documentation on CD-ROM

30593506/EN – 07/2023

4.6.2 Technical data

DUV40A (Diagnostic Unit Vibration)	
Housing	Glass fiber reinforced plastic
Fastening	Hexagon socket head screw M6 × 45 Contact surface on the machine: 25 mm Ø
Current consumption	< 200 mA at 24 V
Ambient temperature	-20 to +70 °C
Internal operating temperature	-20 to +85 °C
Voltage supply	DC 11 – 32 V or Power over Ethernet (PoE) based on 802.3af Mode A
Variable	44 mm × 57 mm × 55 mm
Weight	Approx. 210 g
Degree of protection	IP 67
Operating system	Embedded Linux
Software	SmartWeb (Mozilla Firefox ESR 38 (recommended), Internet Explorer 11, Internet Explorer 9 not recommended due to performance reasons) Vibration SmartUtility Light or optionally Vibration SmartUtility Languages: German, English, Chinese, Spanish, and French

Internal sensor technology	
Vibration	Acceleration sensor (piezoelectric sensor) Frequency range 0.8 Hz to 10 kHz Measuring range ±50 g
Temperature	Measuring range -20 to +70 °C

Measurement	
Measurement functions	Acceleration Speed and distance by integration System temperature Process parameters (e.g. speed, load, pressure)
Diagnostic methods	Time signal, envelope, spectrum and trend analysis, rotational speed and frequency tracking

Characteristic values (time and frequency range)	
Defined characteristic values	DIN/ISO 10816
Calculated characteristic values	RMS, frequency selected RMS, direct component, peak, peak to peak, crest factor, Wellhausen count, carpet level, condition monitoring Other user-defined characteristic values are available.

Signal processor	
Frequency resolution	1600, 3200, 6400, or 12800 lines

30593506/EN – 07/2023

Signal processor	
Measurement resolution	24 Bit (A/D converter)
Frequency range	0.8 Hz – 10 kHz
Low passes	50 Hz – 10 kHz (50 Hz, 100 Hz, 200 Hz, 500 Hz, 1 kHz, 2 kHz, 5 kHz, 10 kHz)
High passes (only envelope)	750 Hz, 1 kHz, 2 kHz (other filters on request)

Memory	
Program and data	64 MB RAM, 128 MB flash

Inputs and outputs	
Inputs	**2 analog inputs** (0 – 10 V / 0 – 24 V / 0 – 20 mA / 4 – 20 mA), frequency range 0 – 500 Hz, 12 bit **1 digital input** (0 – 30 V, 0.1 Hz – 1 kHz)
Outputs	**1 analog output** (0 – 10 V / -20 mA / 4 – 20 mA), 12 bit **1 switching output** (open collector, max. 1 A, 28 V)

Interfaces	
Control elements	2 capacitive pushbuttons (teach mode, alarm reset, restart, factory settings)
Display elements	1 LED to display status and alarm 1 LED to acknowledge the pushbuttons 2 LEDs to display communication
Communication	Ethernet 100 Mb/s OPC UA (server) available with additional license
Electrical connections	3 polarity reversal-protected M12 plug connectors for supply, input/outputs and Ethernet

30593506/EN – 07/2023

4.7 DriveRadar®

DriveRadar® Industrial Gear Units enable users to plan maintenance and service work on a predictive basis and avoid undesirable downtime.

Selected condition monitoring processes are used to record all the operationally relevant mechanical parameters of our gear units on a cyclical basis. The data that is captured is then evaluated and interpreted using state-of-the-art analytical processes.

Continuously monitoring measurement data in this way provides complete transparency regarding the condition of gear units at all times. Furthermore, the analytical processes match irregularities directly to the affected components, reveal trends and make it possible to predict when critical conditions are likely to arise. If the condition of a component changes, users are notified immediately. They are given initial recommendations and can then use our service offerings to take action in plenty of time.

Data acquisition

A uniform, specially selected and coordinated package of sensor technology records the gear unit's parameters and sends them to the EdgeProcessingUnit. The measuring technology comprises the following:

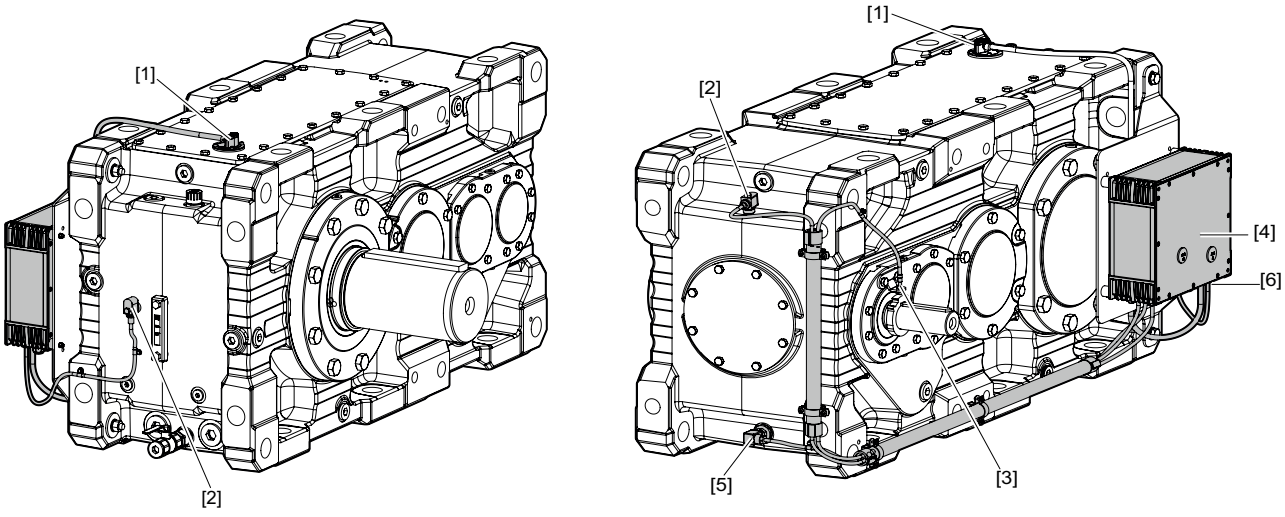
- Oil level sensor [1]
- Vibration sensor [2]
- Acceleration sensors [3]
- EdgeProcessingUnit [4]
- Oil temperature sensor [5]
- Ambient temperature sensor [6]

Data connection

The EdgeProcessingUnit records all sensor data, encrypts it and transmits the collated measured values to the SEW-EURODRIVE data center.

Data linking

Using an OPC UA interface as standard also means local measurement data can be incorporated directly into the customer system. A change in color of a higher-level traffic light to yellow or red ("Overall Health Status") lets the user know when to take a look at the DriveRadar® IoT Suite.



38493625227

30593506/EN – 07/2023

5 Project planning for drives

5.1 Additional documentation

In addition to the information in this catalog, SEW-EURODRIVE offers extensive documentation covering the entire topic of electrical drive engineering. This is primarily documentation from the "Drive Engineering – Practical Implementation" series. You can order the latest documentation from SEW-EURODRIVE. The documentation can also be downloaded in PDF format from the SEW-EURODRIVE homepage (www.sew-eurodrive.com).

30593506/EN – 07/2023

5.1.1 Explanation of the designations

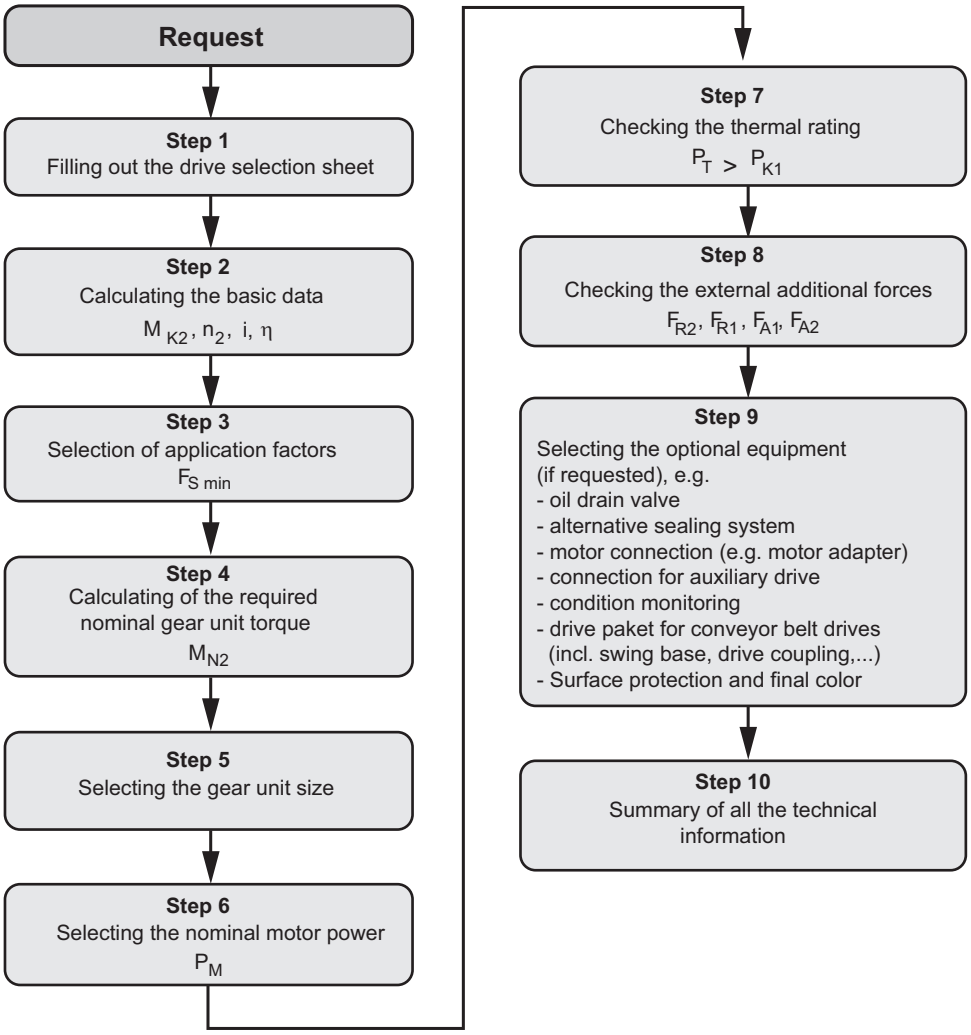
The table below describes the designations.

Designation	Explanation	
α	Application angle of the radial load	°
f_1	Altitude factor (= correction factor for calculation of the thermal rating of the gear unit)	–
F_A	Axial load	kN
F_R	Overhung load	N
F_{R1}	Overhung load on HSS (Distance from the shaft shoulder must be given)	kN
F_{R2}	Overhung load on LSS (Distance from the shaft shoulder must be given)	kN
F_S	Service factor = $M_{N2}/M_{K2} = P_{N1}/P_{K1}$	–
$F_{S\ min}$	Application-specific service factor	–
f_z	Transmission element factor	–
η	Efficiency	–
H	Installation altitude above sea level	m
HSS	High-speed gear shaft (usually input shaft)	–
f_1	Altitude factor	–
f_t	Thermal factor	–
f_{rev}	Reversing factor	–
i	Gear ratio	–
i_{ex}	Exact gear unit ratio	–
i_N	Nominal gear unit ratio	–
LSS	Low-speed gear shaft (usually output shaft)	–
$L_{h\ min}$	Required bearing service life	h
M_{K1}	Input torque (= Operating torque on HSS)	kNm
$M_{K1\ max}$	Peak input torque (= peak operating torque at HSS)	kNm
M_{K2}	Output torque (= Operating torque on LSS)	kNm
$M_{K2\ max}$	Peak output torque (= peak operating torque at LSS)	kNm
$M_{K2\ per}$	Permitted peak output torque	kNm
M_M	Nominal motor torque	kNm
M_{N2}	Nominal gear unit torque	kNm
n_1	Input speed (HSS)	min^{-1}
n_2	Output speed (LSS)	min^{-1}
n_M	Motor speed	min^{-1}
P_{K1}	Operating power on HSS	kW

30593506/EN – 07/2023

5.2 Project planning procedure

The following flow diagram illustrates the procedure for the project planning of X.. series industrial gear units.



18014407162416651

5.2.1 Step 1: Drive selection data

1. Machine on LSS (normally a driven machine)

Key: [...] = Values to be filled in
[X] = Mark your selection with ☒

1.1 Area of application/industry [...]

1.2 Application [...]

1.3 Ambient temperature [°C] [...]

normal | min. | max.

1.4 Installation altitude [m] [...]

1.5 Gear unit installation [X]

- ☐ Small space ($v_a \geq 0.5$ m/s)
- ☐ Large spaces and halls ($v_a \geq 1.4$ m/s)
- ☐ Outdoors with sun protection ($v_a \geq 3$ m/s)

1.6 Ambient conditions [X]

- ☐ Normal
- ☐ Dusty
- ☐ Damp
- ☐ Corrosive
- ☐ Dry

2. Load characteristics

2.1 Required speed n_2 [1/min] [...]

normal | min. | max.

2.2 Operating power on HSS P_{K1} [kW] [...]

normal | min. | max.

2.3 Operating torque on LSS M_{K2} [kNm] [...]

normal | min. | max.

2.4 Frequency of load peaks ($M_{K2\ max.}$ or $P_{K1\ max.}$)

per hour

2.5 Number of startups per hour [...]

Startups

2.6 Direction of rotation under load (LSS) [X]

- ☐ CW rotation
- ☐ CCW rotation
- ☐ Both directions of rotation
- ☐ Reversible

2.7 Operating time/day [X]

- ☐ < 3 hours
- ☐ 3 – 10 hours
- ☐ > 10 hours

2.8 Backstop required [X]

- ☐ No
- ☐ Yes

2.9 Exact load cycle attached [X]

- ☐ No
- ☐ Yes

3. Machine on HSS (normally a drive machine)

3.1 Type: [X]

- ☐ AC motor ☐ AC motor/inverter ☐ DC motor
- ☐ Hydraulic motor ☐ Servomotor
- ☐ Combustion engine with 1 – 3 cylinders
- ☐ Combustion engine with ≥ 4 cylinders

3.2 Motor power P_M [kW] [...]

normal | min. | max.

3.3 Motor speed n_M [kW] [...]

normal | min. | max.

3.4 Nominal motor torque M_M [kNm] [...]

normal | min. | max.

3.5 Input speed n_1 [1/min] [...]

normal | min. | max.

3.6 If electric motor: [X] [...]

- ☐ IEC
- ☐ NEMA

Motor size (IEC or NEMA code):

3.7 Motor mounting position [X] [...]

- ☐ B3
- ☐ B5
- ☐ V1
- ☐ Other:

4. Gear unit requirements

4.1 Gear unit type [X]

☐ Helical gear unit X.F.. ☐ Bevel-helical gear unit X.K..

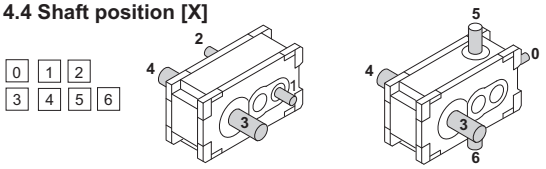
4.2 Mounting position [X]

☐ M1 – M6

4.3 Mounting surface [X]

☐ F1 – F6

4.4 Shaft position [X]



18014407760027915

30593506/EN – 07/2023

4.5 Required service factor $F_{S\ min.}$ [X] [...]

based on

☐ Nomial motor power P_M / motor torque M_M

☐ Operating power on LSS P_{K2}
Operating torque on LSS M_{K2}

4.6 Required bearing service life $L_{h\ min}$ [...]

Hours

4.7 Housing fixation [X]

☐ Foot-mounted
☐ Flange-mounted
☐ Torque arm

4.8 LSS connection to customer machine shaft [X] [...]

☐ Elastic coupling (claw coupling or pin coupling)
☐ Flexible coupling
☐ Rigid flange coupling
☐ Drum coupling
☐ Chain sprocket
☐ Pinion

☐ Hollow shaft – torque arm
☐ Hollow shaft – foot mounting
☐ Hollow shaft – flange mounting
☐ Other

4.9 LSS gear unit version [X] [...]

LSS version (if solid shaft)

☐ Solid shaft with keyway
☐ Solid shaft without keyway
☐ Splined solid shaft DIN 5480
☐ Other

LSS version (if hollow shaft)

☐ Hollow shaft with keyway
☐ Hollow shaft for shrink disc connection, includes shrink disc
☐ Splined hollow shaft DIN 5480
☐ Other

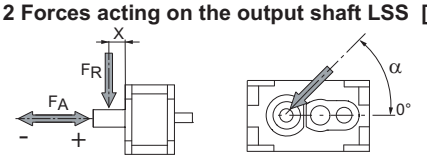
4.10 HSS connection to motor [X]

☐ Customer installation (base frame)
☐ Motor adapter with elastic coupling
☐ Swing base/base frame
☐ Motor bracket with V-belt drive
☐ Motor scoop
☐ Other, see diagram

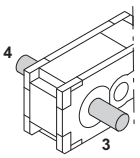
4.11 Machine shaft bearings

☐ 2 bearings, gear unit transfers only torque
☐ 1 bearing opposite gear unit, the gear unit acts as a bearing point
☐ 1 bearing directly at the gear unit, the gear unit acts as a bearing point

4.12 Forces acting on the output shaft LSS [X] [...]

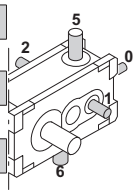


	Shaft 3	Shaft 4
Axial force F_A [kN]		
Radial force F_R [kN]		
Distance from shaft shoulder X [mm]		
Application angle of the radial force α [°]		
or variable	☐	☐



4.13 Forces acting on drive shaft HSS [X] [...]

	0	1	2	3	4	5	6
Axial force F_A [kN]							
Radial force F_R [kN]							
Distance from shaft shoulder X [mm]							
Application angle of the radial force α [°]							
or variable	☐	☐	☐	☐	☐	☐	☐



4.14 Electrical supply [X] [...]

	AC 3-phase	AC 1-phase	DC		
Mains supply V_{Line}	☐	☐	☐	V	Hz
Auxiliary voltage V_{Aux}	☐	☐	☐	V	Hz

Degree of protection IP

Explosion protection required ☐ Yes ☐ No

4.15 Permitted cooling (if required) [X]

	Permitted	Not permitted
Fan	☐	☐
Cooling cover / cartridge	☐	☐
External oil-air cooler	☐	☐
External oil-water cooler	☐	☐

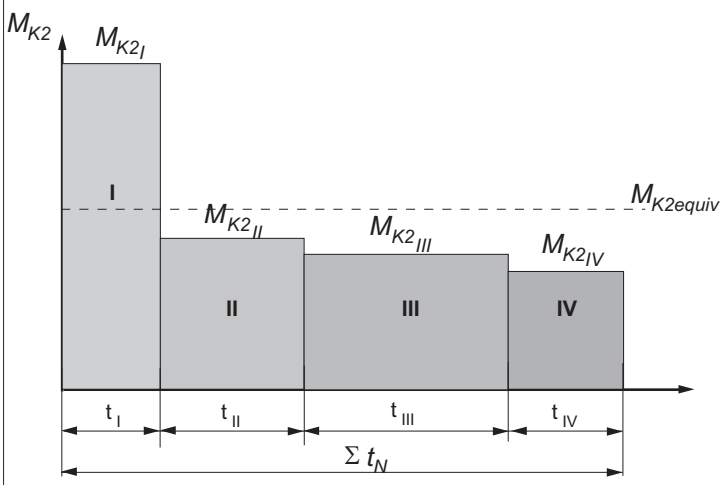
Cooling water available ☐ Yes ☐ No

Cooling water temperature °C

18014407162452363

30593506/EN – 07/2023

5.2.2 Step 2: Calculation of basic data – M_{K2}, n_2, i, η

Constant torque	$M_{K2} = \frac{P_{K1} \times 9550 \times \eta}{n_2}\ Nm$ Note: If P_{K1} is unknown → $P_{K1} = P_M$ M_{K2} = Operating torque on LSS in Nm P_{K1} = Operating power on HSS in kW n_2 = Output speed (LSS) in min^{-1} P_M = Nominal motor power in kW η = Efficiency
Equivalent torque with load spectrum and constant speed n2 for bearing service life calculation	$M_{K2equiv} = \sqrt[\frac{10}{3}]{(M_{K2_I})^{\frac{10}{3}} \times \frac{t_I}{\Sigma\ t_N} + (M_{K2_{II}})^{\frac{10}{3}} \times \frac{t_{II}}{\Sigma\ t_N} + \ldots. (M_{K2_n})^{\frac{10}{3}} \times \frac{t_n}{\Sigma\ t_N}}$ The following figure shows a load example:  M_{K2} = Operating torque on LSS in Nm $\frac{t_N}{\Sigma\ t_N}$ .... $\frac{t_N}{\Sigma\ t_N}$ = Time share of the load I, II,...n = load cases Gearing, shaft and key safety factors must be checked with the greatest torque of the load collective. If single load situations exceed the nominal torque of the gear unit, contact SEW-EURODRIVE.
Gear ratio	$i = \frac{n_1}{n_2}$ n_1 = Input speed (HSS) min^{-1} n_2 = Output speed (LSS) in min^{-1}
The following efficiency levels apply to gear units – η	η = f (i; gear unit type) The efficiency of the gear units is mainly determined by the gearing and bearing friction as well as by churning losses. For the calculation, the following **guide values** apply for splash and pressure lubrication: X2F.. = 0.976 X3F.. = 0.964 X4F.. = 0.953 X2K.. = 0.978 X3K.. = 0.970 X4K.. = 0.957

30593506/EN – 07/2023

5.2.3 Step 3: Selection of application factors

- Application-specific service factor $F_{S\,min}$

Application-specific service factor – $F_{S\,min}$ and peak loads

The application-specific service factor takes into account all continuously occurring dynamic torques that are applied to the gear unit from outside beyond rated operation based on the application factor according to DIN 3990/ISO 6336.

These torques depend, among others, on the characteristics of the driving and driven machine, the amount and distribution of the mass moments of inertia, the spring stiffness in the input and output trains (shafts and couplings, etc.), protective measures such as safety couplings, etc., as well as the operating conditions, and apply to gear units with uniform power requirements.

Furthermore, an additional check for peak loads is required only if this condition does not apply. This is necessary, for example, for intermittent operation, operation with extreme, repeated shock loads, etc.

In general, the gear units can be loaded with up to twice the rated gear unit torque for a limited number of load changes.

In this specific case, we recommend contacting SEW-EURODRIVE.

The application-specific service factor $F_{S\,min}$ takes account of the typical load behavior with regard to the driven machine.

Recommended values with reference to

- Area of application
- Type of driven machine
- Operating hours/day

are given in the following table.

INFORMATION

These tables apply only to gear units driven by electric motors. For other types of drive motors, the following correction values apply:

- Combustion engines with 4 or more cylinders:
  - $F_{S\,min}$ (selection table) + 0.25
- Combustion engines with 1 to 3 cylinders:
  - $F_{S\,min}$ (selection table) + 0.5

INFORMATION

In the event of deviations from the typical load behavior, consult SEW-EURODRIVE.

Area of application	Type of application (driven machine)	Application-specific service factor $F_{S\,min}$ Operating hours/day
		> 10 h
Waste water treatment	Impeller aerator	2.00
	Thickeners	1.50
	Vacuum filters	1.50
	Accumulator	1.50
	Screw pump	1.50
	Brush aerators	2.00

30593506/EN – 07/2023

Area of application	Type of application (driven machine)	Application-specific service factor $F_{S\ min}$ Operating hours/day
		> 10 h
Mining	Crushers	3.00
	Screens and shakers	2.00
	Slewing drives	1.80
	Bucket-wheel excavators	1)
Energy	Frequency converter	2.00
	Water wheels (low speed)	1)
	Water turbines	1)
Conveyors	Bucket elevators	1.50
	Belt conveyors ≤ 100 kW	1.40
	Belt conveyors > 100 kW	1.50
	Apron feeders	1.50
	Screw feeders	1.50
	Shakers, screens	2.00
	Escalators	1.50
	Passenger elevators	1)
Rubber and plastic industry	Extruders (plastic)	1.60
	Extruders (rubber)	1.80
	Rubber rollers (2 in a row)	2.00
	Rubber rollers (3 in a row)	1.75
	Heated rollers	1.75
	Calenders	1.65
	Mills	2.00
	Mixing rollers	1)
	Slab rollers	2.00
	Refiners	2.00
	Tire machine	1)
Timber industry	Timber industry	1)
Crane systems	Cranes and hoists	2)
Food industry	Crushers and mills	1.75
	Beet slicers	1.50
	Drying drums	1.50
Metal production and processing	Winder	1.75
	Cutting rollers	2.00
	Table conveyors, single drive	1)
	Table conveyors, group drives	1)
	Table conveyors, reciprocating	1)
	Wire drawing machines	1.75
	Rollers	1)
Mills and drums	Cooling and drying drums	1.60
	Rotary kilns	2.00
	Ball mills	2.00
	Coal mills	1.75
Agitators and mixers	Agitators for liquids	1.50
	Agitators for liquids (variable density)	1.65
	Agitators for solids (non-uniform material)	1.70
	Agitators for solids (uniform material)	1.40
	Concrete mixers	1.50

30593506/EN – 07/2023

Area of application	Type of application (driven machine)	Application-specific service factor $F_{S\ min}$ Operating hours/day
		> 10 h
Pulp and paper industry	Debarking drums and barkers	-
	Rolls (pick-up, wire drive, wire suction)	2.00
	Drying cylinder (rolling bearing)	2.00
	Calender (rolling bearing)	2.00
	Filters (pressure and vacuum)	2.00
	Beaters and chippers	2.00
	Jordan mills	1.75
	Presses (bark, felt, glue, suction)	1.75
	Reels	1.75
	Pulpers	1)
	Washer filters	1.50
	Yankee cylinders (dryers)	1)
Pumps	Centrifugal pumps	1.45
	Reciprocating pumps (1 cylinder)	1.80
	Reciprocating pumps (multi-cylinder)	1.50
	Screw pumps	1.50
	Rotary pumps (gear wheel, wing pumps)	1.25
Cable cars	Material ropeways	1.50
	Aerial tramways	1)
	Surface lifts	1)
	Continuous aerial tramways	1)
	Funicular railways	1)
Fans	Heat exchangers	1.50
	Dry cooling towers	2.00
	Wet cooling towers	2.00
	Blowers (axial and radial)	1.50
Fans	Heat exchangers	1.50
	Blowers (axial and radial)	1.50
	Dry cooling towers	2.00
	Wet cooling towers	2.00
Compressors	Reciprocating compressors	1.90
	Radial compressors	1.50
	Screw-type compressors	1.75

30593506/EN – 07/2023

5.2.4 Step 4: Calculating the required nominal torque – M_{N2}

Constant load direction – constant torque:

$$M_{N2} \geq M_{K2} \times F_{S\min}$$

M_{N2} = Nominal gear unit torque in kNm
M_{K2} = Operating torque at LSS in kNm
$F_{S\,min}$ = Application-specific service factor

Reversing load direction – constant torque:

$$M_{N2} \geq M_{K2} \times F_{S\min} \times f_{rev}$$

M_{N2} = Nominal gear unit torque in kNm
M_{K2} = Operating torque at LSS in kNm
$F_{S\,min}$ = Application-specific service factor
f_{rev} = Reversing factor

Depending on the ratio of the load between the two directions of rotation, the reversing factor must be assumed according to the following table. The values apply as an example to the load ratio. In case the load ratio differs, please contact SEW-EURODRIVE.

Load ratio of the directions of rotation	Factor f_{rev}
100%	1.43
50%	1.25
10%	1.0

5.2.5 Step 5: Selecting the gear unit size – M_{N2}

The selection of the gear unit size is based on the nominal gear unit torque M_{N2} according to the speed/power overview tables in chapter "Selection tables" (→ 🗎 141).

If the input speed n_1 **<** 1000 min^{-1}, the value for 1000 min^{-1} can be used for M_{N2}.

For input speeds n_1 **>** 1800 min^{-1}, contact SEW-EURODRIVE.

The following table shows an excerpt from the selection tables as an example.

XF100e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,09**	141	7,2	110	82	135	160	68	120	77	115	140
8	**7,94**	126	7,2	97	86	140	165	72	125	81	120	150
9	**8,52**	117	7,2	91	79	125	150	68	115	75	110	135
10	**9,53**	105	7,2	81	82	130	155	72	120	78	115	140
11,2	**11,03**	91	7,2	70	75	120	140	69	110	73	105	125
12,5	**12,34**	81	7,2	63	78	125	145	71	115	76	110	130
14	**13,93**	72	7,2	55	66	105	120	62	97	64	91	110
16	**15,59**	64	7,2	50	68	105	125	64	100	66	93	115
18	**17,21**	58	7,2	45	70	110	130	66	105	68	96	115
20	**19,26**	52	7,2	40	73	115	130	69	105	71	99	120

18014422666148619

30593506/EN – 07/2023

5.2.6 Step 6: Selecting the nominal motor power – P_M

$$P_M \geq P_{K1} = \frac{P_{K2}}{\eta}$$

P_M = Nominal motor power in kW
P_{K1} = Operating power at HSS in kW
P_{K2} = Operating power at LSS in kW
η = Efficiency

5.2.7 Step 7: Checking the thermal rating – P_T

The thermal rating P_T of a gear unit is the power that a gear unit can transmit continuously without exceeding a specific oil temperature.

The thermal rating P_T depends on the following factors:

- Ambient temperature
- Air circulation and sunlight exposure at the installation site
- Installation altitude
- Heat conduction to the base at the installation site
- Gear unit type, size and gear ratio
- External cooling type of the gear unit
- Lubrication type of the gear unit
- Lubricant type
- Cyclic duration factor

For the following ambient conditions, the thermal rating can be read directly from the "Selection tables" (→ 🖹 141):

- Ambient temperature 20 °C
- Installation in a large hall (air velocity ≥ 1.4 m/s)
- Self-cooling or fan cooling.
- Base as steel support structure
- Installation altitude < 1000 m above sea level

INFORMATION

- For other ambient temperatures and lubrication types, you can calculate the thermal rating P_T using the temperature factor f_T and the lubrication factor f_L. The resulting calculation results are approximate values. Contact SEW-EURODRIVE to determine the exact values.
- Sufficient protection from direct sunlight is absolutely necessary when installed outdoors. If the gear unit cannot be protected against direct sunlight, then the thermal calculation must be performed taking account of the actual sunlight in kW/m^2.

$$P_T = P_{TH} \times f_1 \times f_t$$

P_T = Thermal rating of the gear unit in kW
P_{TH} = Nominal thermal rating of the gear unit in kW. The values in the "Selection tables" (→ 🖹 141) depend on the type of cooling, mounting position, and lubrication type.
f_1 = Altitude factor
f_t = temperature factor

30593506/EN – 07/2023

Altitude factor f_1

The following table lists the altitude factor f_1.

Altitude factor	Altitude H in m above sea level				
	up to 999	1000 – 2000	2000 – 3000	3000 – 4000	4000 – 5000
f_1	1.00	0.95	0.91	0.87	0.83

Temperature factor f_t

The following table shows the temperature factor f_t.

Ambient temperature °C	10	15	20	25	30	35	40	45	50
SEW GearOil Base 320	0.92	0.86	0.80	0.73	0.67	0.60	0.54	0.47	0.41
SEW GearOil Synth 320	1.15	1.07	1.00	0.93	0.85	0.78	0.70	0.63	0.55

Selecting the cooling system

If the thermal rating P_T of a gear unit is not sufficient with cooling by fan, water cooling cover, or water cooling cartridge, you can use a cooling system with circulation cooling; see chapter "Cooling" (→ 🗎 86).

The proper size of the cooling system can be determined by approximation by means of the power loss P_V of the gear unit.

$$P_V = P_{K1} x (1 - \eta)$$

P_V = Power loss in kW

P_{K1} = Operating power at HSS in kW

η = Efficiency see chapter "Step 2: Calculation of basic data – MK2, n2, i, η" (→ 🗎 128) (applies only to splash or pressure lubrication)

The power loss P_V of the gear unit must be smaller than the cooling capacity of the cooling system.

P_V < *cooling capacity of cooling system [kW]*

The selection of an appropriate cooling system also depends on the following factors:

- Actual power loss to be cooled
- Present cooling water temperature and volume flow
- Ambient temperature
- Ratio of oil quantity in the gear unit to oil volume flow of cooling system > 2

INFORMATION

Contact SEW-EURODRIVE for selecting the appropriate cooling system based on the ambient conditions of your system.

30593506/EN – 07/2023

5.2.8 Step 8: Checking the external additional forces – F_R:

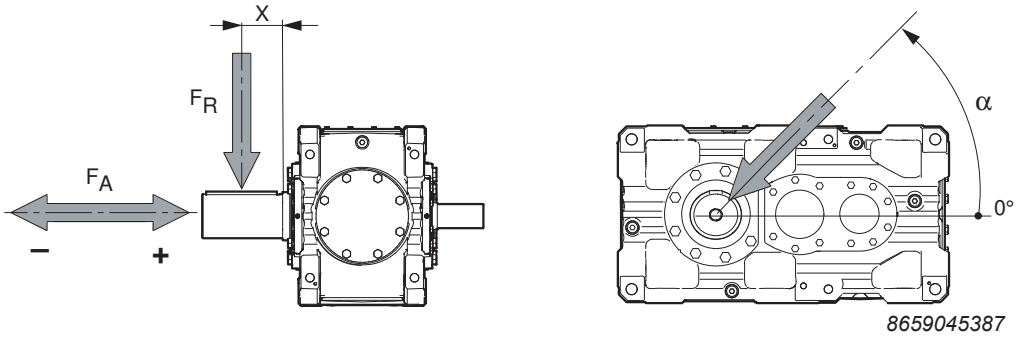
Dependencies

The permitted additional forces depend on the following factors:

- Service factor
- Required bearing service life
- Direction of the axial force (from or towards gear unit)
- Application angle of the overhung load (rotating or at a specific application angle)
- Application point of the overhung load in relation to the shaft shoulder
- Relation of axial load and overhung load

Definition of the force application

The coordinate system of the force is fixed. The angle 0° divides the housing in the longitudinal plane from right to left.



INFORMATION

The definition of the force application is always based on the output shaft end.

Determining the overhung load

When determining the resulting overhung load, the type of transmission element mounted on the shaft end must be considered. The following transmission element factors f_z must be considered for various transmission elements.

Drive component	Factor of the drive component f_z	Comments
Gear wheels	1.15	< 17 teeth
Sprockets	1.40	< 13 teeth
Sprockets	1.25	< 20 teeth
Narrow V-belt pulleys	1.75	Influence of pre-tensioning
Flat V-belt pulleys	2.50	Influence of pre-tensioning
Toothed belt pulleys	1.50	Influence of pre-tensioning

The overhung load acting on the gear shaft is calculated as follows:

$$F_R = \frac{M_{K2} \times 2000}{d_0} \times f_z$$

F_R = Overhung load in N
M_{K2} = Output torque in Nm
d_0 = Mean diameter of the installed transmission element in mm
f_z = Transmission element factor

Maximum permitted overhung load $F_{Rmax\ per}$

The following table shows the permitted overhung load that applies under the following conditions:

- The specified loads only refer to the gear unit housing. Other machine elements, such as shaft, bearing or screw fittings, are not included in the table below.
- Overhung load acts on standard solid shafts (LSS).
- The application point of the overhung load is on the center of the shaft end.
- No external axial force F_A acts on the output shaft.
- The gear unit service factor is 1.3 or higher.
- The application angle of the overhung load is applied at a favorable point.
- For mounting flanges with external overhung loads, contact SEW-EURODRIVE.
- Applies only to foot-mounted gear units in mounting position M1 and mounting surface F1.
- Quasi-static overhung load (N_{max} = 1000) with constant direction and value.
- Cyclic overhung load can be sustained (N ≥ 1000 000) for a repeated load.
- Contact SEW-EURODRIVE for differing requirements.

Size	$F_{Rmax.\ per}$ kN	
	Static	Cyclical
X100	104	61
X110	104	61
X120	131	77
X130	131	77
X140	157	92
X150	157	92
X160	302	152
X170	302	152
X180	397	194
X190	397	194
X200	445	218
X210	445	218
X220	632	328
X230	632	328
X240	758	370
X250	758	370
X260	880	408
X270	880	408
X280	880	408
X290	880	408
X300	880	408
X310	880	408
X320	880	408

General information

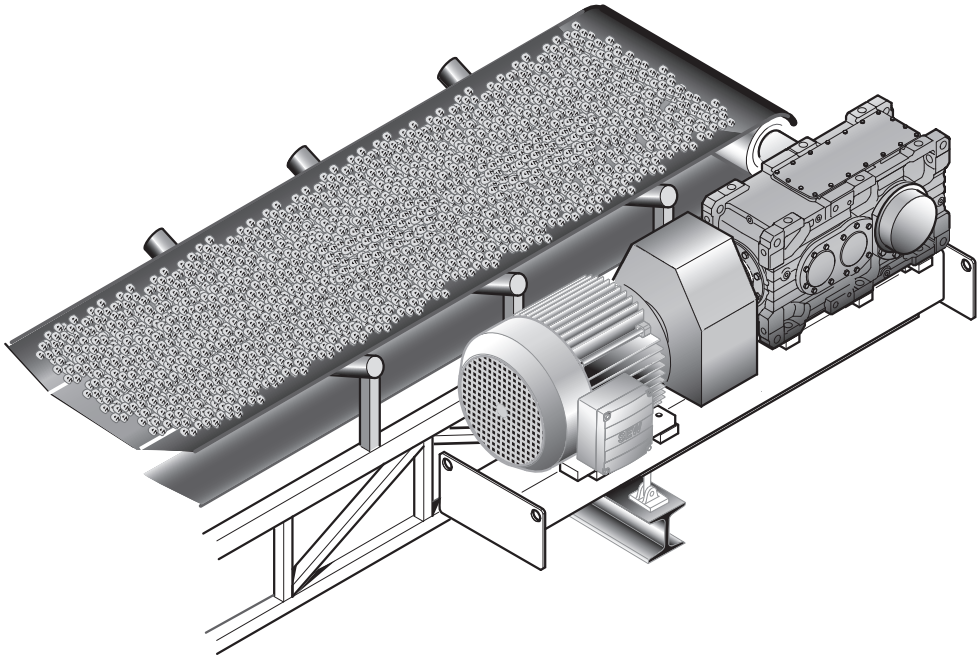
Contact SEW-EURODRIVE in case of the following:

- Permitted axial loads on the output shaft **(LSS)**.
- With permitted overhung and axial loads on the input shaft **(HSS)**.

30593506/EN – 07/2023

5.3 Sample for project planning: Conveyor drive

The following example shows the project planning for a conveyor drive.



8670594699

5.3.1 Technical data and application conditions

- Bevel-helical gear unit, foot-mounted (mounting position M1), hollow shaft with key
- Output speed n_2 = 35 min^{-1}
- Input speed motor n_1 = 1470 min^{-1}
- Operating power on the output shaft LSS P_{K2} = 135 kW
- Peak operating torque on the output shaft LSS $M_{K2\ max}$ = 55 kNm
- Operating time: 16 hours per day
- The gear unit is started up once per hour (frequency of maximum output speed)
- Estimated service life of 15 years
- The gear unit is to be operated outdoors under very dusty conditions and an ambient temperature range of 0 °C – 40 °C.
- Installation altitude H = 1200 m
- Customer requirements: Service factor ≥1.4

30593506/EN – 07/2023

Step 1: Filling out the drive selection sheet

See chapter "Drive selection data" (→ 🗎 126)

Step 2: Calculating the basic data

Constant operating torque M_{K2}:

$$M_{K2} = \frac{P_{K1} \times 9550 \times \eta}{n_2} = \frac{135kW \times 9550}{35\,\text{min}^{-1}} = 36.8kNm$$

M_{K2} = Operating torque at LSS in kNm
P_{K2} = Output power in kW
n_2 = Output speed of the LSS in min^{-1}

Calculate the gear unit ratio using the following formula:

$$i = \frac{n_1}{n_2} = \frac{1470}{35} = 42$$

i = Gear ratio
n_1 = Input speed (HSS) in min^{-1}
n_2 = Output speed (LSS) in min^{-1}

This value is used to determine the nominal gear ratio after having specified the gear unit size.

Step 3: Selection of application factors

Application-specific service factor (Belt conveyor P > 100 kW, t > 10 h/day)	$F_{S\,min}$ = 1.5

30593506/EN – 07/2023

Step 4: Calculating of the required nominal gear unit torque

Required nominal gear unit torque M_{N2}:

$$M_{N2} \geq M_{K2} \times F_{S\min} = 36.8kNm \times 1.5 = 55.2kNm$$

M_{N2} = Nominal gear unit torque in kNm
M_{K2} = Operating torque at LSS in kNm
$F_{S\ min}$ = Application-specific service factor

Step 5: Selecting the gear unit size

Select a gear unit of the next larger torque class using the foldout page at the end of this catalog.

- Nominal gear unit torque M_{N2} = 60.7 kNm

See chapter "Selection tables" (→ 🗎 141).

- Gear unit type **X3KA180e/HH/B**
- Nominal gear ratio i_N = 45, see exact gear ratio i_{ex} = 43.6

Step 6: Selecting the nominal motor power

Required motor power:

$$P_M \geq P_{K1} = \frac{P_{K2}}{\eta} = \frac{135kW}{0.955} = 141.4kW$$

P_M = Nominal motor power in kW
P_{K2} = Operating power at LSS in kW
P_{K1} = Operating power at HSS in kW
η = Efficiency from chapter "Step 2: Calculation of basic data – MK2, n2, i, η" (→ 🗎 128)

Select a motor of the next larger power class: P_M = 160 kW

30593506/EN – 07/2023

Step 7: Checking the peak load conditions

A peak load analysis deviating from the procedure defined in chapter 5.2 cannot be performed via the catalog selection. Contact SEW-EURODRIVE in such cases.

Step 8: Checking the thermal rating

$$P_T \geq P_{TH} \times f_1 \times f_T = 155kW \times 0.95 \times 0.7 = 103kW$$

P_T = Thermal rating in kW
P_{TH} = Nominal thermal rating in kW
f_1 = Altitude factor = 0.95; See chapter "Altitude factor" (→ 🗎 134)
f_T = Temperature factor = 0.7; see chapter "Temperature factor" (ambient temperature with splash lubrication without additional cooling).

The operating power P_{K1} must not exceed the thermal rating P_T ($P_{K1} \leq P_T$). Additional cooling is required if $P_{K1} > P_T$

141.4 kW > 103 kW

→ Thermal rating is not sufficient at 40 °C without additional cooling.

$$P_T \geq P_{TH} \times f_1 \times f_T = 395kW \times 0.95 \times 0.7 = 263kW$$

$$141.4kW < 263kW$$

With one fan:

→ Thermal rating sufficient at 40 °C with a fan

Step 9: Checking the external additional forces

There are no external additional forces.

Step 10: Selecting the optional equipment

- Dusty environment → Taconite seals on the input and output shafts.

Step 11: Summary of all the technical information

- Gear unit type X3KA180e/HH/B
- Gear ratio i_{ex} = 43.6
- Nominal gear unit torque M_{N2} = 60.7 kNm
- Motor P_M = 160 kW
- Taconite seals on the input and output shafts
- Fan on the input shaft

30593506/EN – 07/2023

6 Selection tables

6.1 Information on the selection tables

The thermal rating P_{TH} depends on several influencing factors. Contact SEW-EURODRIVE for your specific application.

XF100e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,09**	141	7,2	110	82	135	160	68	120	77	115	140
8	**7,94**	126	7,2	97	86	140	165	72	125	81	120	150
9	**8,52**	117	7,2	91	79	125	150	68	115	75	110	135
10	**9,53**	105	7,2	81	82	130	155	72	120	78	115	140
[1]	[2]	[3]	[4]	[5]								

Key:

P_{TH} Thermal rating at an ambient temperature of 20 °C

[1] Nominal gear ratio

[2] Exact gear unit ratio

[3] Output speed (LSS)

[4] Nominal gear unit torque

[5] Nominal gear unit power

Type of cooling:

Without additional cooling



With radial fan



With radial fan in the motor adapter



With radial fan /Duo



With radial fan and single-sided flush fan guard



With axial fan



With axial fan and thermal housing

Lubrication types:



Splash lubrication



Bath lubrication



Pressure lubrication

30593506/EN – 07/2023

6.2 X.F..

XF100e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,09**	141	7,2	110	82	135	160	68	120	77	115	140
8	**7,94**	126	7,2	97	86	140	165	72	125	81	120	150
9	**8,52**	117	7,2	91	79	125	150	68	115	75	110	135
10	**9,53**	105	7,2	81	82	130	155	72	120	78	115	140
11,2	**11,03**	91	7,2	70	75	120	140	69	110	73	105	125
12,5	**12,34**	81	7,2	63	78	125	145	71	115	76	110	130
14	**13,93**	72	7,2	55	66	105	120	62	97	64	91	110
16	**15,59**	64	7,2	50	68	105	125	64	100	66	93	115
18	**17,21**	58	7,2	45	70	110	130	66	105	68	96	115
20	**19,26**	52	7,2	40	73	115	130	69	105	71	99	120
22,4	**22,6**	44	7,2	35	53	66	77	51	62	52	58	71
25	**25,29**	40	7,2	31	55	68	80	53	64	54	60	73
28	**27,94**	36	7,2	28	48	60	70	46	56	48	53	64
31,5	**31,27**	32	7,2	25	50	61	72	48	58	49	54	66
35,5	**34,95**	29	7,2	22	44	54	63	42	51	43	48	58
40	**39,11**	26	7,2	20	45	55	65	43	53	44	49	60
45	**42,31**	24	7,2	18	42	51	60	41	49	41	46	55
50	**47,35**	21	7,2	17	43	53	62	42	50	42	47	57
56	**52,91**	19	7,2	15	38	47	55	37	45	38	42	50
63	**59,22**	17	7,2	13	39	48	56	38	46	39	43	52
71	**68,53**	15	7,2	11	37	45	53	36	44	37	41	49
80	**76,69**	13	7,2	10	38	46	54	37	45	37	42	50
90	**85,71**	12	7,2	9	33	41	48	33	39	33	37	44
100	**95,92**	10	7,2	8	34	42	49	34	41	34	38	45
XF100e..,n_1= 1200 1/min												7.2 kNm
7,1	**7,09**	169	7,2	130	80	145	175	57	120	73	125	155
8	**7,94**	151	7,2	115	84	150	180	61	130	77	130	160
9	**8,52**	141	7,2	110	78	135	165	62	120	72	120	145
10	**9,53**	126	7,2	97	82	140	170	65	125	76	120	150
11,2	**11,03**	109	7,2	84	76	130	155	65	120	72	115	140
12,5	**12,34**	97	7,2	75	79	135	160	68	120	76	115	145
14	**13,93**	86	7,2	67	68	115	135	61	105	65	99	120
16	**15,59**	77	7,2	59	71	115	140	64	110	68	100	125
18	**17,21**	70	7,2	54	72	120	140	67	110	70	105	130
20	**19,26**	62	7,2	48	75	125	145	69	115	72	110	135
22,4	**22,6**	53	7,2	42	55	75	89	52	71	54	67	81
25	**25,29**	47	7,2	37	56	77	91	53	73	55	68	83
28	**27,94**	43	7,2	34	50	68	80	47	64	49	60	73
31,5	**31,27**	38	7,2	30	52	70	82	48	66	50	62	75
35,5	**34,95**	34	7,2	27	46	62	73	43	58	45	55	66
40	**39,11**	31	7,2	24	47	63	75	44	60	46	56	68
45	**42,31**	28	7,2	22	43	59	69	42	56	43	52	63
50	**47,35**	25	7,2	20	45	60	71	43	58	44	54	65
56	**52,91**	23	7,2	18	40	53	63	38	51	39	48	58
63	**59,22**	20	7,2	16	41	55	64	39	52	40	49	59
71	**68,53**	18	7,2	14	38	52	61	37	50	38	46	56
80	**76,69**	16	7,2	12	39	53	62	38	51	39	48	58
90	**85,71**	14	7,2	11	35	47	55	34	45	35	42	51
100	**95,92**	13	7,2	10	36	48	57	35	46	36	43	52

30593506/EN – 07/2023

XF100e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,09**	212	7,2	165	73	155	190	34	115	62	130	165
8	**7,94**	189	7,2	145	77	165	195	37	125	67	135	170
9	**8,52**	176	7,2	135	74	150	180	46	120	65	125	160
10	**9,53**	157	7,2	120	78	155	185	50	130	69	130	165
11,2	**11,03**	136	7,2	105	75	145	170	56	125	68	125	155
12,5	**12,34**	122	7,2	94	78	150	180	59	130	72	125	160
14	**13,93**	108	7,2	83	69	125	150	57	115	64	110	135
16	**15,59**	96	7,2	74	72	130	155	59	115	67	115	140
18	**17,21**	87	7,2	67	74	135	160	64	120	70	115	145
20	**19,26**	78	7,2	60	77	140	165	67	125	73	120	150
22,4	**22,6**	66	7,2	52	56	88	105	51	81	55	77	94
25	**25,29**	59	7,2	46	58	90	105	52	83	56	79	97
28	**27,94**	54	7,2	42	52	80	94	47	73	50	70	85
31,5	**31,27**	48	7,2	38	53	82	97	48	76	52	72	88
35,5	**34,95**	43	7,2	34	47	73	86	43	67	46	64	78
40	**39,11**	38	7,2	30	49	75	88	44	69	47	65	80
45	**42,31**	35	7,2	28	46	69	81	43	65	45	61	75
50	**47,35**	32	7,2	25	47	71	84	44	67	46	63	77
56	**52,91**	28	7,2	22	41	63	74	39	60	41	56	68
63	**59,22**	25	7,2	20	43	65	76	40	61	42	57	70
71	**68,53**	22	7,2	17	40	61	72	39	58	40	55	66
80	**76,69**	20	7,2	15	41	63	73	40	60	41	56	68
90	**85,71**	18	7,2	14	37	56	65	35	53	36	50	60
100	**95,92**	16	7,2	12	38	57	67	36	55	37	51	62
XF100e..,n_1= 1800 1/min												7.2 kNm
7,1	**7,09**	254	7,2	195	63	165	200	0	100	48	125	170
8	**7,94**	227	7,2	175	67	170	210	0	110	52	135	180
9	**8,52**	211	7,2	165	67	160	195	22	115	55	130	165
10	**9,53**	189	7,2	145	71	165	200	26	120	59	135	175
11,2	**11,03**	163	7,2	125	71	155	185	41	125	61	130	165
12,5	**12,34**	146	7,2	115	74	160	190	44	130	65	135	170
14	**13,93**	129	7,2	100	68	135	165	49	120	61	115	145
16	**15,59**	115	7,2	89	71	140	170	52	125	64	120	150
18	**17,21**	105	7,2	81	74	145	170	59	130	68	125	155
20	**19,26**	93	7,2	72	77	150	180	62	135	71	130	160
22,4	**22,6**	80	7,2	62	57	99	115	47	89	54	86	105
25	**25,29**	71	7,2	56	58	100	120	49	92	56	89	110
28	**27,94**	64	7,2	50	52	91	105	44	81	50	79	96
31,5	**31,27**	58	7,2	45	54	93	110	46	83	51	81	99
35,5	**34,95**	52	7,2	40	48	82	97	41	74	46	71	87
40	**39,11**	46	7,2	36	49	85	100	42	76	47	73	90
45	**42,31**	43	7,2	33	47	79	93	43	74	46	70	85
50	**47,35**	38	7,2	30	48	81	95	44	76	47	72	87
56	**52,91**	34	7,2	27	43	72	85	39	67	42	64	77
63	**59,22**	30	7,2	24	44	74	87	40	69	43	65	79
71	**68,53**	26	7,2	21	42	69	82	40	66	41	62	75
80	**76,69**	23	7,2	18	43	71	84	41	68	42	64	77
90	**85,71**	21	7,2	16	38	63	75	36	60	38	57	69
100	**95,92**	19	7,2	15	39	65	77	37	62	39	58	70

30593506/EN – 07/2023

XF110e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
8	**8,16**	123	8,93	115	87	145	170	75	130	85	125	155
9	**9,14**	109	8,79	105	90	145	175	78	135	88	130	160
10	**9,8**	102	8,96	98	84	135	160	75	125	82	120	145
11,2	**10,98**	91	8,82	86	87	140	165	78	125	85	120	150
12,5	**12,69**	79	9	76	81	130	150	75	120	80	115	140
14	**14,2**	70	8,85	67	82	130	155	77	120	81	115	140
16	**16,03**	62	9	60	71	110	130	67	105	70	98	120
18	**17,94**	56	8,88	53	72	110	130	69	105	71	100	120
20	**19,8**	51	9	49	75	115	140	72	110	74	105	125
22,4	**22,17**	45	8,92	43	77	120	140	74	115	76	105	130
25	**26,01**	38	8,69	36	57	71	84	55	68	57	63	77
28	**29,12**	34	8,68	32	58	72	85	56	69	58	64	78
31,5	**32,15**	31	8,68	29	52	64	75	50	61	51	57	69
35,5	**36**	28	8,68	26	53	65	77	51	62	52	58	70
40	**40,21**	25	8,67	23	47	58	68	45	55	47	52	63
45	**45,02**	22	8,67	21	48	59	69	46	56	47	52	64
50	**48,68**	21	8,69	19	45	55	65	44	53	45	49	60
56	**54,51**	18	8,68	17	45	56	66	44	54	45	50	61
63	**60,89**	16	8,67	15	41	50	59	40	48	41	45	54
71	**68,17**	15	8,67	14	41	51	60	40	49	41	46	55
80	**78,85**	13	8,69	12	39	49	57	39	47	39	44	53
90	**88,29**	11	8,69	11	40	49	58	39	48	40	44	53
100	**98,62**	10	8,68	10	36	44	52	35	43	36	40	48
112	**110,42**	9,1	8,67	9	37	45	52	36	43	36	40	48
XF110e..,n_1= 1200 1/min												**9 kNm**
8	**8,16**	147	8,93	140	84	155	185	64	135	81	135	170
9	**9,14**	131	8,79	125	87	160	190	67	140	84	140	170
10	**9,8**	122	8,96	120	83	145	175	68	130	80	130	160
11,2	**10,98**	109	8,82	105	85	150	180	71	135	83	130	160
12,5	**12,69**	95	9	91	81	140	165	72	130	79	125	150
14	**14,2**	85	8,85	80	83	145	170	74	130	82	125	155
16	**16,03**	75	9	72	73	120	145	67	115	71	110	130
18	**17,94**	67	8,88	64	74	125	145	68	115	73	110	135
20	**19,8**	61	9	59	77	130	150	73	120	76	115	140
22,4	**22,17**	54	8,92	52	79	130	155	74	125	78	115	140
25	**26,01**	46	8,69	44	59	81	95	56	76	58	72	87
28	**29,12**	41	8,68	39	60	82	97	57	78	59	73	89
31,5	**32,15**	37	8,68	35	54	74	87	51	69	53	65	79
35,5	**36**	33	8,68	31	55	75	88	52	70	54	66	80
40	**40,21**	30	8,67	28	49	67	78	46	63	48	59	72
45	**45,02**	27	8,67	25	50	68	80	47	64	49	60	73
50	**48,68**	25	8,69	23	47	63	74	45	61	46	57	68
56	**54,51**	22	8,68	21	48	64	75	46	61	47	57	69
63	**60,89**	20	8,67	19	43	58	68	41	55	42	52	62
71	**68,17**	18	8,67	17	43	58	69	42	56	43	52	63
80	**78,85**	15	8,69	14	41	56	65	40	54	41	50	61
90	**88,29**	14	8,69	13	42	57	66	41	55	42	51	61
100	**98,62**	12	8,68	11	38	51	59	37	49	37	46	55
112	**110,42**	11	8,67	10	38	52	60	37	50	38	46	56

30593506/EN – 07/2023

XF110e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
8	**8,16**	184	8,93	175	75	165	200	39	130	70	140	180
9	**9,14**	164	8,79	155	78	170	205	43	135	74	145	185
10	**9,8**	153	8,96	145	77	160	190	52	135	73	140	175
11,2	**10,98**	137	8,82	130	80	165	195	55	140	76	140	175
12,5	**12,69**	118	9	115	78	155	185	62	135	76	135	165
14	**14,2**	106	8,85	100	81	155	185	65	140	78	135	170
16	**16,03**	94	9	90	72	135	160	63	125	70	120	145
18	**17,94**	84	8,88	80	74	135	165	65	125	72	120	150
20	**19,8**	76	9	73	78	145	170	71	135	77	125	155
22,4	**22,17**	68	8,92	65	80	145	175	72	135	79	130	160
25	**26,01**	58	8,69	54	61	95	110	56	88	60	83	100
28	**29,12**	52	8,68	49	62	96	115	56	89	61	85	105
31,5	**32,15**	47	8,68	44	56	86	100	51	80	54	76	92
35,5	**36**	42	8,68	39	57	88	105	52	81	55	77	94
40	**40,21**	37	8,67	35	51	78	92	46	72	49	69	84
45	**45,02**	33	8,67	31	52	80	94	47	73	50	70	85
50	**48,68**	31	8,69	29	49	75	88	46	71	48	66	80
56	**54,51**	28	8,68	26	50	76	89	47	72	49	67	82
63	**60,89**	25	8,67	23	45	68	80	42	64	44	60	73
71	**68,17**	22	8,67	21	45	69	81	43	65	45	61	74
80	**78,85**	19	8,69	18	43	66	77	42	63	43	59	71
90	**88,29**	17	8,69	16	44	67	78	42	64	44	60	72
100	**98,62**	15	8,68	14	40	60	70	38	57	39	54	65
112	**110,42**	14	8,67	13	40	61	71	39	58	40	54	66
XF110e..,n_1= 1800 1/min												9 kNm
8	**8,16**	221	8,93	210	61	170	215	0	115	54	140	185
9	**9,14**	197	8,79	185	65	180	215	6	120	58	145	190
10	**9,8**	184	8,96	175	68	170	205	27	130	62	140	180
11,2	**10,98**	164	8,82	155	71	170	210	31	135	65	145	185
12,5	**12,69**	142	9	135	72	165	195	47	140	69	140	175
14	**14,2**	127	8,85	120	75	165	200	50	140	71	145	180
16	**16,03**	112	9	110	70	145	175	55	130	67	125	155
18	**17,94**	100	8,88	96	72	150	175	57	130	69	130	160
20	**19,8**	91	9	88	78	155	185	65	140	75	135	170
22,4	**22,17**	81	8,92	78	80	160	190	67	145	77	140	170
25	**26,01**	69	8,69	65	62	105	125	52	97	59	93	115
28	**29,12**	62	8,68	58	63	110	130	54	98	60	95	115
31,5	**32,15**	56	8,68	53	57	98	115	49	88	55	85	105
35,5	**36**	50	8,68	47	57	99	115	50	90	55	86	105
40	**40,21**	45	8,67	42	52	89	105	45	80	50	77	95
45	**45,02**	40	8,67	38	53	90	105	46	81	51	78	96
50	**48,68**	37	8,69	35	51	85	100	47	80	50	75	91
56	**54,51**	33	8,68	31	52	86	100	47	81	50	76	93
63	**60,89**	30	8,67	28	46	77	91	43	73	45	69	83
71	**68,17**	26	8,67	25	47	79	92	43	74	46	69	84
80	**78,85**	23	8,69	22	45	75	88	43	71	45	67	81
90	**88,29**	20	8,69	19	46	76	89	43	72	45	68	82
100	**98,62**	18	8,68	17	41	68	80	39	65	41	61	74
112	**110,42**	16	8,67	15	42	69	82	40	66	41	62	75

30593506/EN – 07/2023

XF120e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,44**	155	13,6	225	110	195	235	105	135	115	150	190
7,1	**7,34**	136	12,9	190	115	200	240	110	140	120	155	195
8	**8,04**	124	13,6	180	110	185	225	105	135	115	145	180
9	**9,15**	109	13	150	115	190	230	110	140	115	150	185
10	**10,2**	98	13,6	145	105	175	210	99	125	105	135	165
11,2	**11,61**	86	13	120	110	180	210	105	130	110	140	170
12,5	**12,83**	78	13,6	115	110	175	205	105	130	105	130	165
14	**14,61**	68	13,1	96	115	180	210	105	130	110	135	165
16	**16,28**	61	13,6	90	99	155	180	93	115	95	120	145
18	**18,53**	54	13,1	76	100	155	185	95	115	98	120	145
20	**20,26**	49	12,2	65	77	96	115	72	79	75	82	89
22,4	**23,06**	43	12,7	60	79	98	115	73	81	76	84	91
25	**25,7**	39	12,9	55	74	92	110	69	76	71	78	85
28	**29,26**	34	12,7	47	75	94	110	70	77	73	79	86
31,5	**30,9**	32	13,6	48	66	82	96	61	67	64	70	76
35,5	**35,18**	28	12,7	39	67	83	98	62	68	65	71	77
40	**41,45**	24	12,9	34	65	80	95	61	67	62	68	74
45	**47,18**	21	12,7	29	66	82	96	62	68	64	70	76
50	**49,83**	20	13,6	30	58	72	84	54	59	56	61	66
56	**56,73**	18	12,7	24	59	73	86	55	61	57	62	67
63	**65,48**	15	12,9	21	56	68	80	52	57	53	58	63
71	**74,54**	13	12,7	19	57	70	82	53	58	54	59	64
80	**78,73**	13	13,6	19	50	61	72	47	51	48	52	56
90	**89,63**	11	12,7	15	51	62	73	47	52	48	53	57
100	**107,48**	9,3	13,3	14	44	---	---	41	---	42	---	---
112	**122,36**	8,2	12,8	11	45	---	---	42	---	43	---	---
125	**129,23**	7,7	13,6	12	40	---	---	38	---	38	---	---
140	**147,12**	6,8	12,8	10	40	---	---	38	---	39	---	---
160	**154,68**	6,5	13,6	10	37	---	---	35	---	35	---	---
180	**176,09**	5,7	12,8	8	38	---	---	36	---	36	---	---
200	**205,3**	4,9	13,3	7	36	---	---	34	---	34	---	---
224	**233,72**	4,3	12,8	6	36	---	---	34	---	35	---	---
250	**246,85**	4,1	13,6	6	32	---	---	31	---	31	---	---
280	**281,01**	3,6	12,8	5	33	---	---	31	---	31	---	---
315	**295,46**	3,4	13,6	5	30	---	---	28	---	29	---	---
355	**336,35**	3	12,8	4	31	---	---	29	---	29	---	---
XF120e..,n_1= 1200 1/min												13.6 kNm
6,3	**6,44**	186	13,6	270	99	205	250	94	140	115	160	205
7,1	**7,34**	163	12,9	225	105	215	255	100	150	120	165	210
8	**8,04**	149	13,6	220	105	200	240	98	145	110	155	195
9	**9,15**	131	13	185	110	205	250	105	150	115	160	200
10	**10,2**	118	13,6	170	105	190	225	96	135	105	145	180
11,2	**11,61**	103	13	145	110	195	230	100	140	110	150	185
12,5	**12,83**	94	13,6	135	110	190	225	105	140	110	145	180
14	**14,61**	82	13,1	115	115	195	230	110	145	115	150	185
16	**16,28**	74	13,6	110	100	170	200	94	125	99	130	160
18	**18,53**	65	13,1	91	105	175	205	96	130	100	135	165
20	**20,26**	59	12,2	78	79	110	130	73	81	78	86	105
22,4	**23,06**	52	12,7	72	81	110	130	75	83	79	87	105
25	**25,7**	47	12,9	65	76	105	125	70	77	74	81	98
28	**29,26**	41	12,7	57	78	105	125	71	79	75	83	99
31,5	**30,9**	39	13,6	57	68	93	110	63	69	66	73	87
35,5	**35,18**	34	12,7	47	70	95	110	64	70	68	74	89
40	**41,45**	29	12,9	41	68	92	110	63	69	65	71	86
45	**47,18**	25	12,7	35	69	94	110	64	70	67	73	87
50	**49,83**	24	13,6	36	60	82	97	56	62	58	64	76
56	**56,73**	21	12,7	29	61	84	98	57	63	59	65	78
63	**65,48**	18	12,9	26	58	78	92	54	59	55	61	73
71	**74,54**	16	12,7	22	59	80	94	55	60	56	62	74
80	**78,73**	15	13,6	23	52	70	83	48	53	50	54	65
90	**89,63**	13	12,7	18	53	72	84	49	54	51	55	66
100	**107,48**	11	13,3	16	46	---	---	43	---	44	---	---
112	**122,36**	9,8	12,8	14	47	---	---	44	---	45	---	---
125	**129,23**	9,3	13,6	14	42	---	---	39	---	40	---	---
140	**147,12**	8,2	12,8	11	42	---	---	40	---	40	---	---
160	**154,68**	7,8	13,6	12	39	---	---	37	---	37	---	---
180	**176,09**	6,8	12,8	10	39	---	---	37	---	38	---	---
200	**205,3**	5,8	13,3	9	38	---	---	35	---	36	---	---
224	**233,72**	5,1	12,8	7	38	---	---	36	---	36	---	---
250	**246,85**	4,9	13,6	7	34	---	---	32	---	32	---	---
280	**281,01**	4,3	12,8	6	35	---	---	33	---	33	---	---
315	**295,46**	4,1	13,6	6	32	---	---	30	---	30	---	---
355	**336,35**	3,6	12,8	5	32	---	---	30	---	31	---	---

30593506/EN – 07/2023

XF120e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,44**	233	13,6	340	78	210	265	76	145	105	170	220
7,1	**7,34**	204	12,9	285	84	220	275	82	150	110	180	230
8	**8,04**	187	13,6	270	90	215	260	84	150	110	170	215
9	**9,15**	164	13	230	97	220	270	91	155	115	175	225
10	**10,2**	147	13,6	215	95	205	245	87	145	105	160	205
11,2	**11,61**	129	13	180	100	210	255	92	150	110	165	210
12,5	**12,83**	117	13,6	170	110	210	250	100	155	110	165	200
14	**14,61**	103	13,1	145	115	215	255	105	160	115	165	205
16	**16,28**	92	13,6	135	100	190	225	93	140	100	145	180
18	**18,53**	81	13,1	115	105	195	230	97	145	105	150	185
20	**20,26**	74	12,2	98	79	125	150	73	91	80	99	120
22,4	**23,06**	65	12,7	90	81	130	155	75	94	82	100	125
25	**25,7**	58	12,9	82	77	120	145	70	87	77	94	115
28	**29,26**	51	12,7	71	78	125	145	72	89	79	96	115
31,5	**30,9**	49	13,6	72	70	110	130	63	78	70	84	105
35,5	**35,18**	43	12,7	59	71	110	130	64	80	70	86	105
40	**41,45**	36	12,9	51	71	110	130	65	79	69	83	100
45	**47,18**	32	12,7	44	72	110	130	66	81	70	85	105
50	**49,83**	30	13,6	44	63	96	115	58	71	61	74	90
56	**56,73**	26	12,7	36	64	98	115	59	72	62	75	92
63	**65,48**	23	12,9	32	60	92	110	56	68	58	71	86
71	**74,54**	20	12,7	28	62	94	110	57	69	59	72	88
80	**78,73**	19	13,6	28	54	83	97	50	61	52	63	77
90	**89,63**	17	12,7	23	55	84	99	51	62	53	64	78
100	**107,48**	14	13,3	20	48	---	---	46	---	47	---	---
112	**122,36**	12	12,8	17	49	---	---	47	---	47	---	---
125	**129,23**	12	13,6	17	44	---	---	42	---	42	---	---
140	**147,12**	10	12,8	14	44	---	---	42	---	43	---	---
160	**154,68**	9,7	13,6	14	41	---	---	39	---	39	---	---
180	**176,09**	8,5	12,8	12	41	---	---	39	---	40	---	---
200	**205,3**	7,3	13,3	11	40	---	---	37	---	38	---	---
224	**233,72**	6,4	12,8	9	40	---	---	38	---	38	---	---
250	**246,85**	6,1	13,6	9	36	---	---	34	---	34	---	---
280	**281,01**	5,3	12,8	8	37	---	---	35	---	35	---	---
315	**295,46**	5,1	13,6	8	33	---	---	32	---	32	---	---
355	**336,35**	4,5	12,8	6	34	---	---	32	---	32	---	---
XF120e..,n_1= 1800 1/min												**13.6 kNm**
6,3	**6,44**	280	13,6	410	51	205	270	54	135	94	175	230
7,1	**7,34**	245	12,9	340	57	220	280	60	145	100	185	245
8	**8,04**	224	13,6	325	71	220	275	69	145	99	180	230
9	**9,15**	197	13	275	76	230	280	73	155	105	185	240
10	**10,2**	176	13,6	260	82	215	265	74	145	100	170	220
11,2	**11,61**	155	13	215	87	220	270	80	155	105	180	225
12,5	**12,83**	140	13,6	205	105	225	270	96	165	110	175	220
14	**14,61**	123	13,1	175	110	230	275	100	170	115	180	225
16	**16,28**	111	13,6	160	98	205	240	90	150	100	160	195
18	**18,53**	97	13,1	135	105	210	250	94	155	105	160	200
20	**20,26**	89	12,2	120	77	140	170	70	100	81	115	140
22,4	**23,06**	78	12,7	110	79	145	175	72	105	84	115	140
25	**25,7**	70	12,9	98	76	135	165	68	98	79	105	130
28	**29,26**	62	12,7	85	78	140	165	70	99	81	110	135
31,5	**30,9**	58	13,6	86	68	125	145	61	88	71	96	120
35,5	**35,18**	51	12,7	71	70	125	150	63	89	73	98	120
40	**41,45**	43	12,9	61	72	125	145	66	90	71	95	115
45	**47,18**	38	12,7	53	74	125	150	67	91	72	96	120
50	**49,83**	36	13,6	53	65	110	130	59	80	63	85	105
56	**56,73**	32	12,7	44	66	110	130	60	81	64	86	105
63	**65,48**	27	12,9	39	62	105	125	57	77	61	81	99
71	**74,54**	24	12,7	33	63	105	125	58	79	62	82	100
80	**78,73**	23	13,6	34	56	94	110	51	69	54	72	88
90	**89,63**	20	12,7	28	57	96	115	52	70	55	74	90
100	**107,48**	17	13,3	24	50	---	---	48	---	49	---	---
112	**122,36**	15	12,8	21	51	---	---	48	---	50	---	---
125	**129,23**	14	13,6	21	46	---	---	43	---	44	---	---
140	**147,12**	12	12,8	17	46	---	---	44	---	45	---	---
160	**154,68**	12	13,6	17	42	---	---	40	---	41	---	---
180	**176,09**	10	12,8	14	43	---	---	41	---	42	---	---
200	**205,3**	8,8	13,3	13	41	---	---	39	---	40	---	---
224	**233,72**	7,7	12,8	11	42	---	---	40	---	40	---	---
250	**246,85**	7,3	13,6	11	38	---	---	36	---	36	---	---
280	**281,01**	6,4	12,8	9	38	---	---	36	---	37	---	---
315	**295,46**	6,1	13,6	9	35	---	---	33	---	34	---	---
355	**336,35**	5,4	12,8	8	36	---	---	34	---	34	---	---

30593506/EN – 07/2023

XF130e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
8	**8,06**	124	17	225	125	215	255	115	155	130	165	205
9	**9,15**	109	15,7	185	125	215	255	120	155	130	165	205
10	**10,05**	100	17	180	125	205	245	115	150	125	160	195
11,2	**11,41**	88	15,8	150	125	205	245	120	150	125	160	195
12,5	**12,75**	78	17	145	120	190	225	110	140	120	150	180
14	**14,48**	69	15,9	120	120	190	225	110	140	120	145	180
16	**16,04**	62	17	115	120	190	225	115	140	120	145	175
18	**18,22**	55	15,9	94	120	190	220	115	140	115	145	175
20	**20,35**	49	17	90	110	170	200	100	125	105	130	155
22,4	**23,11**	43	16	74	110	165	195	100	125	105	130	155
25	**25,32**	39	15,3	66	85	105	125	79	87	82	90	98
28	**28,76**	35	15,8	60	84	105	125	79	87	82	90	98
31,5	**32,12**	31	16	54	81	100	120	76	83	78	85	93
35,5	**36,48**	27	15,8	47	80	100	120	75	83	78	85	92
40	**38,62**	26	16,7	47	72	89	105	67	74	70	76	83
45	**43,87**	23	15,8	39	72	89	105	67	74	70	76	83
50	**51,81**	19	16,1	34	71	88	105	67	73	68	75	81
56	**58,84**	17	15,8	29	71	87	105	67	73	68	75	81
63	**62,29**	16	16,7	29	63	78	92	59	65	61	66	72
71	**70,75**	14	15,8	24	63	78	92	59	65	61	66	72
80	**81,85**	12	16,1	21	61	75	88	57	62	58	63	69
90	**92,96**	11	15,8	18	60	74	87	57	62	58	63	69
100	**98,41**	10	16,7	18	54	67	79	51	56	52	57	62
112	**111,77**	8,9	15,8	15	54	67	78	51	56	52	57	62
125	**134,35**	7,4	16,8	14	48	---	---	45	---	46	---	---
140	**152,59**	6,6	15,8	11	48	---	---	45	---	46	---	---
160	**161,54**	6,2	16,9	11	43	---	---	41	---	41	---	---
180	**183,47**	5,5	15,8	9	43	---	---	41	---	41	---	---
200	**193,35**	5,2	16,9	10	40	---	---	38	---	38	---	---
224	**219,59**	4,6	15,8	8	40	---	---	38	---	38	---	---
250	**256,63**	3,9	16,8	7	39	---	---	37	---	37	---	---
280	**291,46**	3,4	15,8	6	39	---	---	37	---	37	---	---
315	**308,56**	3,2	16,9	6	35	---	---	33	---	34	---	---
355	**350,43**	2,9	15,8	5	35	---	---	33	---	34	---	---
400	**369,32**	2,7	16,9	5	33	---	---	31	---	31	---	---
450	**419,44**	2,4	15,8	4	33	---	---	31	---	31	---	---
XF130e..,n_1= 1200 1/min												17 kNm
8	**8,06**	149	17	270	115	225	275	110	160	125	180	225
9	**9,15**	131	15,7	220	120	230	275	115	165	130	180	225
10	**10,05**	119	17	220	120	220	265	110	160	125	175	215
11,2	**11,41**	105	15,8	180	120	220	265	115	160	130	175	215
12,5	**12,75**	94	17	170	115	210	250	110	150	120	160	200
14	**14,48**	83	15,9	140	120	210	245	110	150	120	160	200
16	**16,04**	75	17	135	125	210	245	115	155	120	160	195
18	**18,22**	66	15,9	110	125	205	245	115	155	120	160	195
20	**20,35**	59	17	110	110	185	220	105	140	110	145	175
22,4	**23,11**	52	16	89	110	185	220	105	140	110	140	175
25	**25,32**	47	15,3	79	87	120	140	81	89	86	94	115
28	**28,76**	42	15,8	72	87	120	140	81	89	85	93	110
31,5	**32,12**	37	16	65	83	115	135	77	85	81	89	105
35,5	**36,48**	33	15,8	56	83	115	135	77	85	81	89	105
40	**38,62**	31	16,7	56	75	100	120	69	76	73	80	95
45	**43,87**	27	15,8	47	74	100	120	69	76	73	79	95
50	**51,81**	23	16,1	41	74	100	120	69	76	71	78	94
56	**58,84**	20	15,8	35	74	100	120	69	76	71	78	93
63	**62,29**	19	16,7	35	66	89	105	62	68	64	70	83
71	**70,75**	17	15,8	29	66	89	105	61	67	63	69	83
80	**81,85**	15	16,1	26	63	85	100	59	65	61	66	79
90	**92,96**	13	15,8	22	63	85	100	59	65	60	66	79
100	**98,41**	12	16,7	22	57	77	90	53	58	54	59	71
112	**111,77**	11	15,8	18	56	76	90	53	58	54	59	71
125	**134,35**	8,9	16,8	16	50	---	---	47	---	48	---	---
140	**152,59**	7,9	15,8	14	50	---	---	47	---	48	---	---
160	**161,54**	7,4	16,9	14	45	---	---	43	---	43	---	---
180	**183,47**	6,5	15,8	11	45	---	---	43	---	43	---	---
200	**193,35**	6,2	16,9	12	42	---	---	40	---	40	---	---
224	**219,59**	5,5	15,8	9	42	---	---	40	---	40	---	---
250	**256,63**	4,7	16,8	9	41	---	---	39	---	39	---	---
280	**291,46**	4,1	15,8	7	41	---	---	39	---	39	---	---
315	**308,56**	3,9	16,9	7	37	---	---	35	---	35	---	---
355	**350,43**	3,4	15,8	6	37	---	---	35	---	35	---	---
400	**369,32**	3,2	16,9	6	34	---	---	33	---	33	---	---
450	**419,44**	2,9	15,8	5	34	---	---	33	---	33	---	---

30593506/EN – 07/2023

XF130e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
8	**8,06**	186	17	340	91	240	295	89	165	120	190	245
9	**9,15**	164	15,7	275	97	240	295	96	170	125	195	250
10	**10,05**	149	17	270	105	240	290	99	170	120	190	240
11,2	**11,41**	131	15,8	225	110	240	290	105	170	125	190	240
12,5	**12,75**	118	17	215	110	225	270	100	160	120	180	225
14	**14,48**	104	15,9	175	110	225	270	105	165	120	180	220
16	**16,04**	94	17	170	120	230	270	115	170	125	180	220
18	**18,22**	82	15,9	140	125	230	270	115	170	125	180	220
20	**20,35**	74	17	135	110	205	245	105	155	110	160	195
22,4	**23,11**	65	16	110	115	205	245	105	155	110	160	195
25	**25,32**	59	15,3	98	88	140	165	81	100	89	110	135
28	**28,76**	52	15,8	90	88	140	165	82	100	89	110	135
31,5	**32,12**	47	16	81	85	135	155	78	96	85	105	125
35,5	**36,48**	41	15,8	71	85	135	155	78	96	85	105	125
40	**38,62**	39	16,7	70	76	120	140	70	86	76	92	115
45	**43,87**	34	15,8	59	76	120	140	70	86	76	92	115
50	**51,81**	29	16,1	51	77	120	140	71	87	75	91	110
56	**58,84**	25	15,8	44	77	120	140	71	87	75	91	110
63	**62,29**	24	16,7	44	69	105	125	64	78	67	81	99
71	**70,75**	21	15,8	36	69	105	125	64	77	67	81	98
80	**81,85**	18	16,1	32	66	100	120	61	75	64	77	94
90	**92,96**	16	15,8	28	66	100	120	61	74	64	77	94
100	**98,41**	15	16,7	28	59	90	105	55	67	57	69	84
112	**111,77**	13	15,8	23	59	90	105	55	67	57	69	84
125	**134,35**	11	16,8	21	53	---	---	50	---	51	---	---
140	**152,59**	9,8	15,8	17	53	---	---	50	---	51	---	---
160	**161,54**	9,3	16,9	17	48	---	---	45	---	46	---	---
180	**183,47**	8,2	15,8	14	48	---	---	45	---	46	---	---
200	**193,35**	7,8	16,9	14	44	---	---	42	---	43	---	---
224	**219,59**	6,8	15,8	12	44	---	---	42	---	43	---	---
250	**256,63**	5,8	16,8	11	43	---	---	41	---	41	---	---
280	**291,46**	5,1	15,8	9	43	---	---	41	---	41	---	---
315	**308,56**	4,9	16,9	9	39	---	---	37	---	38	---	---
355	**350,43**	4,3	15,8	7	39	---	---	37	---	38	---	---
400	**369,32**	4,1	16,9	8	36	---	---	35	---	35	---	---
450	**419,44**	3,6	15,8	6	36	---	---	34	---	35	---	---
XF130e..,n_1= 1800 1/min												17 kNm
8	**8,06**	223	17	405	65	235	300	68	160	105	200	260
9	**9,15**	197	15,7	330	69	240	305	73	165	115	205	265
10	**10,05**	179	17	325	84	245	305	81	170	115	200	255
11,2	**11,41**	158	15,8	265	89	250	305	87	175	120	205	260
12,5	**12,75**	141	17	260	95	240	290	88	165	115	190	240
14	**14,48**	124	15,9	210	99	240	290	92	170	115	195	240
16	**16,04**	112	17	205	115	245	295	110	180	125	195	240
18	**18,22**	99	15,9	170	120	245	295	110	180	125	195	240
20	**20,35**	88	17	160	110	225	265	100	165	115	175	215
22,4	**23,11**	78	16	135	110	225	265	105	165	115	175	215
25	**25,32**	71	15,3	120	86	155	185	79	115	90	125	150
28	**28,76**	63	15,8	105	86	155	185	79	115	91	125	150
31,5	**32,12**	56	16	97	84	150	180	77	110	87	115	145
35,5	**36,48**	49	15,8	85	84	150	175	77	105	87	115	145
40	**38,62**	47	16,7	85	76	135	160	69	96	78	105	130
45	**43,87**	41	15,8	70	76	135	160	69	96	78	105	130
50	**51,81**	35	16,1	61	79	135	160	72	99	78	105	125
56	**58,84**	31	15,8	53	79	135	160	72	98	77	105	125
63	**62,29**	29	16,7	52	71	120	140	65	88	70	93	115
71	**70,75**	25	15,8	44	71	120	140	65	88	69	92	115
80	**81,85**	22	16,1	38	68	115	135	63	85	66	88	110
90	**92,96**	19	15,8	33	68	115	135	63	84	66	88	105
100	**98,41**	18	16,7	33	61	105	120	56	76	59	79	96
112	**111,77**	16	15,8	28	61	100	120	56	76	59	79	96
125	**134,35**	13	16,8	25	55	---	---	52	---	53	---	---
140	**152,59**	12	15,8	20	55	---	---	52	---	53	---	---
160	**161,54**	11	16,9	21	50	---	---	47	---	48	---	---
180	**183,47**	9,8	15,8	17	50	---	---	47	---	48	---	---
200	**193,35**	9,3	16,9	17	46	---	---	44	---	45	---	---
224	**219,59**	8,2	15,8	14	46	---	---	44	---	45	---	---
250	**256,63**	7	16,8	13	45	---	---	43	---	43	---	---
280	**291,46**	6,2	15,8	11	45	---	---	43	---	43	---	---
315	**308,56**	5,8	16,9	11	41	---	---	39	---	39	---	---
355	**350,43**	5,1	15,8	9	41	---	---	39	---	39	---	---
400	**369,32**	4,9	16,9	9	38	---	---	36	---	37	---	---
450	**419,44**	4,3	15,8	7	38	---	---	36	---	37	---	---

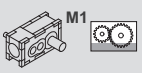
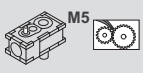
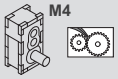
30593506/EN – 07/2023

XF140e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,61**	151	23,4	380	165	325	390	155	205	175	230	315
7,1	**7,07**	141	23,4	355	170	330	395	160	210	180	235	320
8	**8,21**	122	23,4	305	165	305	360	150	200	170	215	290
9	**8,78**	114	23,4	285	170	310	365	155	205	175	220	295
10	**10,18**	98	23,4	245	160	280	335	145	190	160	205	270
11,2	**10,89**	92	23,4	230	165	285	340	150	195	165	205	270
12,5	**12,95**	77	23,4	195	150	255	305	140	180	150	185	245
14	**13,85**	72	23,4	180	155	260	310	145	180	150	190	245
16	**16,49**	61	23,4	150	150	250	295	140	175	145	180	235
18	**17,63**	57	23,4	140	150	255	300	140	175	150	185	240
20	**21,8**	46	23,4	115	115	140	165	105	115	110	125	135
22,4	**23,31**	43	23,4	110	115	145	170	105	120	115	125	135
25	**27,25**	37	23,4	93	105	130	155	99	110	105	115	125
28	**29,14**	34	23,4	87	105	135	160	100	110	105	115	125
31,5	**33,22**	30	23,4	77	96	120	140	91	100	96	105	115
35,5	**35,52**	28	23,4	72	98	120	145	92	100	96	105	115
40	**42,36**	24	23,4	60	95	115	140	90	98	93	100	110
45	**45,3**	22	23,4	56	96	120	140	91	99	94	100	110
50	**51,63**	19	23,4	49	86	105	125	82	89	84	92	100
56	**55,21**	18	23,4	46	87	110	125	82	90	85	93	100
63	**66,11**	15	23,4	38	86	105	125	81	89	83	91	99
71	**70,69**	14	23,4	36	87	105	125	82	90	84	92	100
80	**80,57**	12	23,4	32	78	96	115	74	81	76	82	89
90	**86,16**	12	23,4	30	79	97	115	74	81	76	83	90
100	**107,36**	9,3	23,4	24	63	---	---	61	---	62	---	---
112	**114,8**	8,7	23,4	22	64	---	---	62	---	62	---	---
125	**130,85**	7,6	23,4	20	59	---	---	56	---	57	---	---
140	**139,92**	7,1	23,4	18	59	---	---	57	---	58	---	---
160	**163,65**	6,1	23,4	16	54	---	---	52	---	53	---	---
180	**175**	5,7	23,4	15	55	---	---	53	---	53	---	---
200	**210,13**	4,8	23,4	12	51	---	---	49	---	50	---	---
224	**224,7**	4,5	23,4	11	52	---	---	50	---	50	---	---
250	**256,11**	3,9	23,4	10	47	---	---	46	---	46	---	---
280	**273,87**	3,7	23,4	9	48	---	---	46	---	46	---	---
315	**320,31**	3,1	23,4	8	44	---	---	42	---	42	---	---
355	**342,53**	2,9	23,4	8	44	---	---	42	---	43	---	---
XF140e..,n_1= 1200 1/min												23.4 kNm
6,3	**6,61**	182	23,4	455	145	345	420	135	210	170	245	340
7,1	**7,07**	170	23,4	425	150	350	430	140	220	175	250	350
8	**8,21**	146	23,4	365	150	325	395	140	210	165	235	320
9	**8,78**	137	23,4	345	155	335	400	145	215	170	240	325
10	**10,18**	118	23,4	295	155	305	365	140	200	160	220	295
11,2	**10,89**	110	23,4	275	155	310	370	140	205	160	225	300
12,5	**12,95**	93	23,4	235	150	280	335	135	190	150	205	270
14	**13,85**	87	23,4	220	155	285	340	140	195	155	210	270
16	**16,49**	73	23,4	185	150	275	325	140	190	150	200	260
18	**17,63**	68	23,4	170	155	280	330	140	190	155	200	265
20	**21,8**	55	23,4	140	115	160	190	105	115	115	125	155
22,4	**23,31**	51	23,4	130	115	160	190	105	120	115	130	155
25	**27,25**	44	23,4	110	110	150	175	100	110	110	120	145
28	**29,14**	41	23,4	105	110	150	180	100	110	110	120	145
31,5	**33,22**	36	23,4	92	99	135	160	92	100	99	110	130
35,5	**35,52**	34	23,4	86	100	140	165	93	100	100	110	130
40	**42,36**	28	23,4	72	98	135	160	92	100	97	105	125
45	**45,3**	26	23,4	67	99	135	160	93	100	98	105	130
50	**51,63**	23	23,4	59	89	120	145	84	92	88	96	115
56	**55,21**	22	23,4	55	90	125	145	85	93	89	97	115
63	**66,11**	18	23,4	46	89	120	140	84	92	87	95	115
71	**70,69**	17	23,4	43	90	120	145	85	93	88	96	115
80	**80,57**	15	23,4	38	81	110	130	76	84	79	86	105
90	**86,16**	14	23,4	35	82	110	130	77	84	80	87	105
100	**107,36**	11	23,4	29	66	---	---	64	---	65	---	---
112	**114,8**	10	23,4	27	67	---	---	64	---	65	---	---
125	**130,85**	9,2	23,4	24	61	---	---	59	---	60	---	---
140	**139,92**	8,6	23,4	22	62	---	---	59	---	60	---	---
160	**163,65**	7,3	23,4	19	57	---	---	54	---	55	---	---
180	**175**	6,9	23,4	18	57	---	---	55	---	56	---	---
200	**210,13**	5,7	23,4	15	54	---	---	52	---	52	---	---
224	**224,7**	5,3	23,4	14	54	---	---	52	---	53	---	---
250	**256,11**	4,7	23,4	12	50	---	---	48	---	48	---	---
280	**273,87**	4,4	23,4	11	50	---	---	48	---	49	---	---
315	**320,31**	3,7	23,4	10	46	---	---	44	---	45	---	---
355	**342,53**	3,5	23,4	9	46	---	---	45	---	45	---	---

30593506/EN – 07/2023

XF140e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
6,3	**6,61**	227	23,4	570	100	350	445	100	205	150	260	365
7,1	**7,07**	212	23,4	530	105	360	455	105	215	160	265	375
8	**8,21**	183	23,4	460	120	345	430	115	210	155	250	345
9	**8,78**	171	23,4	430	125	355	435	120	220	160	255	355
10	**10,18**	147	23,4	370	130	335	400	120	210	155	240	325
11,2	**10,89**	138	23,4	345	135	340	405	125	215	160	245	330
12,5	**12,95**	116	23,4	290	145	310	370	130	205	150	225	300
14	**13,85**	108	23,4	270	145	315	375	130	210	155	230	305
16	**16,49**	91	23,4	230	150	305	365	130	205	150	220	290
18	**17,63**	85	23,4	215	150	310	370	135	210	155	225	295
20	**21,8**	69	23,4	175	110	185	220	100	130	120	145	180
22,4	**23,31**	64	23,4	165	115	185	225	105	130	120	150	185
25	**27,25**	55	23,4	140	105	175	205	96	125	110	140	170
28	**29,14**	51	23,4	130	110	175	210	98	125	115	140	170
31,5	**33,22**	45	23,4	115	99	160	190	89	115	105	125	155
35,5	**35,52**	42	23,4	105	100	160	190	90	115	105	125	155
40	**42,36**	35	23,4	90	100	155	185	94	115	100	120	150
45	**45,3**	33	23,4	84	100	160	185	95	115	100	125	150
50	**51,63**	29	23,4	74	92	140	170	86	105	92	110	135
56	**55,21**	27	23,4	69	93	145	170	86	105	94	115	135
63	**66,11**	23	23,4	58	93	140	165	87	105	92	110	135
71	**70,69**	21	23,4	54	94	145	170	87	105	93	110	135
80	**80,57**	19	23,4	47	84	130	150	79	96	83	100	120
90	**86,16**	17	23,4	44	85	130	155	79	97	84	100	125
100	**107,36**	14	23,4	36	69	---	---	67	---	69	---	---
112	**114,8**	13	23,4	34	70	---	---	68	---	69	---	---
125	**130,85**	11	23,4	29	64	---	---	62	---	63	---	---
140	**139,92**	11	23,4	28	65	---	---	62	---	64	---	---
160	**163,65**	9,2	23,4	24	59	---	---	57	---	58	---	---
180	**175**	8,6	23,4	22	60	---	---	58	---	59	---	---
200	**210,13**	7,1	23,4	18	57	---	---	54	---	55	---	---
224	**224,7**	6,7	23,4	17	57	---	---	55	---	56	---	---
250	**256,11**	5,9	23,4	15	53	---	---	50	---	51	---	---
280	**273,87**	5,5	23,4	14	53	---	---	51	---	52	---	---
315	**320,31**	4,7	23,4	12	49	---	---	47	---	47	---	---
355	**342,53**	4,4	23,4	11	49	---	---	47	---	48	---	---
XF140e..,n_1= 1800 1/min												**23.4 kNm**
6,3	**6,61**	272	23,4	680	44	340	445	53	180	130	260	380
7,1	**7,07**	255	23,4	640	50	350	455	62	195	135	270	395
8	**8,21**	219	23,4	550	79	345	440	83	200	140	260	365
9	**8,78**	205	23,4	510	84	355	450	88	210	145	265	375
10	**10,18**	177	23,4	445	100	345	425	95	205	145	250	350
11,2	**10,89**	165	23,4	415	110	350	435	100	215	150	255	355
12,5	**12,95**	139	23,4	350	130	335	400	115	210	145	240	325
14	**13,85**	130	23,4	325	130	340	405	120	215	150	245	330
16	**16,49**	109	23,4	275	140	330	395	120	215	150	240	315
18	**17,63**	102	23,4	255	145	335	400	125	220	150	245	320
20	**21,8**	83	23,4	210	110	205	245	91	140	120	165	205
22,4	**23,31**	77	23,4	195	110	210	250	94	140	120	165	210
25	**27,25**	66	23,4	170	105	195	230	89	135	115	155	190
28	**29,14**	62	23,4	155	105	195	235	90	135	115	160	195
31,5	**33,22**	54	23,4	140	96	175	210	83	120	105	145	175
35,5	**35,52**	51	23,4	130	98	180	215	84	125	105	145	175
40	**42,36**	42	23,4	110	100	175	210	92	130	105	140	170
45	**45,3**	40	23,4	100	105	180	210	93	130	105	140	170
50	**51,63**	35	23,4	89	94	160	190	85	115	95	130	155
56	**55,21**	33	23,4	83	95	165	190	86	120	96	130	155
63	**66,11**	27	23,4	69	95	160	190	88	120	95	125	155
71	**70,69**	25	23,4	65	96	165	190	88	120	96	130	155
80	**80,57**	22	23,4	57	86	145	175	80	110	86	115	140
90	**86,16**	21	23,4	53	87	150	175	80	110	87	115	140
100	**107,36**	17	23,4	43	72	---	---	69	---	72	---	---
112	**114,8**	16	23,4	40	72	---	---	70	---	72	---	---
125	**130,85**	14	23,4	35	66	---	---	64	---	66	---	---
140	**139,92**	13	23,4	33	67	---	---	65	---	67	---	---
160	**163,65**	11	23,4	28	61	---	---	59	---	61	---	---
180	**175**	10	23,4	26	62	---	---	60	---	62	---	---
200	**210,13**	8,6	23,4	22	59	---	---	57	---	58	---	---
224	**224,7**	8	23,4	21	60	---	---	57	---	58	---	---
250	**256,11**	7	23,4	18	55	---	---	53	---	54	---	---
280	**273,87**	6,6	23,4	17	55	---	---	53	---	54	---	---
315	**320,31**	5,6	23,4	14	51	---	---	49	---	50	---	---
355	**342,53**	5,3	23,4	14	51	---	---	49	---	50	---	---

30593506/EN – 07/2023

XF150e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1			 M5		 M4		
						RAD 	RAD /DUO 		RAD /MA 		RAD /MA 	RAD 
		min^{-1}	kNm	kW								
8	**8,21**	122	29,2	380	190	365	435	175	235	200	260	350
9	**8,79**	114	29,2	355	190	360	430	175	235	200	255	350
10	**10,19**	98	29,2	305	185	335	400	170	225	190	240	325
11,2	**10,91**	92	29,2	285	185	330	395	170	225	190	240	320
12,5	**12,64**	79	29,2	250	175	310	370	165	210	180	225	295
14	**13,54**	74	29,2	230	175	305	365	165	210	180	225	295
16	**16,08**	62	29,2	195	170	285	335	155	200	165	205	270
18	**17,22**	58	29,2	180	165	280	330	155	195	165	205	265
20	**20,48**	49	29,2	155	165	275	325	155	195	165	200	260
22,4	**21,93**	46	29,2	145	165	275	320	155	190	160	200	260
25	**27,08**	37	29,2	115	125	155	185	120	130	125	135	150
28	**28,99**	34	29,2	110	125	155	180	115	130	125	135	145
31,5	**33,85**	30	29,2	94	115	145	170	110	120	115	125	135
35,5	**36,24**	28	29,2	88	115	145	170	110	120	115	125	135
40	**41,25**	24	29,2	77	105	130	155	100	110	105	115	125
45	**44,17**	23	29,2	72	105	130	155	100	110	105	115	125
50	**52,61**	19	29,2	60	105	130	150	99	110	100	110	120
56	**56,33**	18	29,2	56	105	130	150	98	105	100	110	120
63	**64,12**	16	29,2	49	95	115	140	90	99	93	100	110
71	**68,66**	15	29,2	46	94	115	135	89	98	92	100	110
80	**82,1**	12	29,2	39	94	115	135	90	98	92	100	110
90	**87,91**	11	29,2	36	93	115	135	89	97	91	99	105
100	**100,07**	10	29,2	32	85	105	125	81	89	83	91	98
112	**107,15**	9,3	29,2	30	85	105	120	80	88	82	90	97
125	**133,33**	7,5	29,2	24	70	---	---	67	---	68	---	---
140	**142,77**	7	29,2	22	69	---	---	67	---	67	---	---
160	**162,51**	6,2	29,2	20	64	---	---	62	---	63	---	---
180	**174,01**	5,7	29,2	18	64	---	---	61	---	62	---	---
200	**203,25**	4,9	29,2	16	59	---	---	57	---	58	---	---
224	**217,63**	4,6	29,2	15	59	---	---	57	---	57	---	---
250	**260,96**	3,8	29,2	12	56	---	---	54	---	55	---	---
280	**279,43**	3,6	29,2	11	56	---	---	54	---	54	---	---
315	**318,07**	3,1	29,2	10	52	---	---	50	---	50	---	---
355	**340,58**	2,9	29,2	9	52	---	---	50	---	50	---	---
400	**397,81**	2,5	29,2	8	48	---	---	46	---	47	---	---
450	**425,96**	2,3	29,2	8	48	---	---	46	---	46	---	---
XF150e..,n_1= 1200 1/min												**29.2 kNm**
8	**8,21**	146	29,2	460	170	385	470	160	240	195	275	380
9	**8,79**	137	29,2	430	170	385	465	160	240	195	275	375
10	**10,19**	118	29,2	370	175	365	435	160	235	185	260	355
11,2	**10,91**	110	29,2	345	175	360	430	165	235	185	260	350
12,5	**12,64**	95	29,2	295	175	340	405	160	225	180	245	325
14	**13,54**	89	29,2	280	175	335	400	160	225	180	245	320
16	**16,08**	75	29,2	235	170	310	370	155	215	170	225	295
18	**17,22**	70	29,2	220	170	310	365	155	215	165	225	295
20	**20,48**	59	29,2	185	170	305	360	155	210	165	220	290
22,4	**21,93**	55	29,2	170	165	300	355	155	210	165	220	285
25	**27,08**	44	29,2	140	125	175	210	120	130	130	140	170
28	**28,99**	41	29,2	130	125	175	205	115	130	125	140	170
31,5	**33,85**	35	29,2	110	120	165	195	110	125	120	130	160
35,5	**36,24**	33	29,2	105	120	165	195	110	120	120	130	155
40	**41,25**	29	29,2	92	110	150	180	100	110	110	120	145
45	**44,17**	27	29,2	86	110	150	175	100	110	110	120	145
50	**52,61**	23	29,2	72	110	145	175	100	110	105	115	140
56	**56,33**	21	29,2	68	105	145	170	100	110	105	115	140
63	**64,12**	19	29,2	59	98	135	160	93	100	97	105	125
71	**68,66**	17	29,2	55	97	135	155	92	100	96	105	125
80	**82,1**	15	29,2	46	98	135	155	93	100	96	105	125
90	**87,91**	14	29,2	43	97	130	155	92	100	95	105	125
100	**100,07**	12	29,2	38	89	120	140	84	92	87	95	115
112	**107,15**	11	29,2	36	88	120	140	83	91	86	94	110
125	**133,33**	9	29,2	29	73	---	---	70	---	71	---	---
140	**142,77**	8,4	29,2	27	72	---	---	70	---	71	---	---
160	**162,51**	7,4	29,2	24	67	---	---	65	---	66	---	---
180	**174,01**	6,9	29,2	22	67	---	---	64	---	65	---	---
200	**203,25**	5,9	29,2	19	62	---	---	60	---	61	---	---
224	**217,63**	5,5	29,2	18	62	---	---	59	---	60	---	---
250	**260,96**	4,6	29,2	15	59	---	---	57	---	57	---	---
280	**279,43**	4,3	29,2	14	58	---	---	56	---	57	---	---
315	**318,07**	3,8	29,2	12	55	---	---	53	---	53	---	---
355	**340,58**	3,5	29,2	11	54	---	---	52	---	53	---	---
400	**397,81**	3	29,2	10	50	---	---	48	---	49	---	---
450	**425,96**	2,8	29,2	9	50	---	---	48	---	49	---	---

30593506/EN – 07/2023

XF150e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
8	**8,21**	183	29,2	570	125	400	500	120	240	180	290	410
9	**8,79**	171	29,2	530	125	395	495	125	240	180	295	410
10	**10,19**	147	29,2	460	140	390	475	135	245	180	280	390
11,2	**10,91**	137	29,2	430	145	385	470	140	245	180	280	385
12,5	**12,64**	119	29,2	370	155	370	445	140	235	175	265	365
14	**13,54**	111	29,2	345	155	365	440	140	235	175	265	360
16	**16,08**	93	29,2	290	165	345	410	145	230	170	250	330
18	**17,22**	87	29,2	275	165	340	405	145	230	170	250	325
20	**20,48**	73	29,2	230	165	340	400	150	230	170	245	320
22,4	**21,93**	68	29,2	215	165	335	395	150	225	170	245	320
25	**27,08**	55	29,2	175	125	205	245	115	145	130	160	200
28	**28,99**	52	29,2	165	125	205	240	115	145	130	160	200
31,5	**33,85**	44	29,2	140	120	190	225	110	135	125	150	185
35,5	**36,24**	41	29,2	130	120	190	225	110	135	125	150	185
40	**41,25**	36	29,2	115	110	175	205	100	125	115	140	170
45	**44,17**	34	29,2	110	110	175	205	100	125	115	135	170
50	**52,61**	29	29,2	90	110	175	205	105	125	110	135	165
56	**56,33**	27	29,2	84	110	170	200	105	125	110	135	165
63	**64,12**	23	29,2	74	100	155	185	95	115	100	125	150
71	**68,66**	22	29,2	69	100	155	185	94	115	100	120	150
80	**82,1**	18	29,2	58	100	155	185	96	115	100	120	150
90	**87,91**	17	29,2	54	100	155	180	95	115	100	120	145
100	**100,07**	15	29,2	48	93	140	165	87	105	92	110	135
112	**107,15**	14	29,2	44	92	140	165	86	105	91	110	135
125	**133,33**	11	29,2	36	76	---	---	74	---	76	---	---
140	**142,77**	11	29,2	34	76	---	---	73	---	75	---	---
160	**162,51**	9,2	29,2	30	70	---	---	68	---	70	---	---
180	**174,01**	8,6	29,2	28	70	---	---	68	---	69	---	---
200	**203,25**	7,4	29,2	24	65	---	---	63	---	64	---	---
224	**217,63**	6,9	29,2	22	65	---	---	63	---	64	---	---
250	**260,96**	5,7	29,2	18	62	---	---	60	---	61	---	---
280	**279,43**	5,4	29,2	17	62	---	---	59	---	60	---	---
315	**318,07**	4,7	29,2	15	58	---	---	55	---	56	---	---
355	**340,58**	4,4	29,2	14	57	---	---	55	---	56	---	---
400	**397,81**	3,8	29,2	12	53	---	---	51	---	52	---	---
450	**425,96**	3,5	29,2	11	53	---	---	51	---	52	---	---
XF150e..,n_1= 1800 1/min												29.2 kNm
8	**8,21**	219	29,2	690	71	395	510	75	220	150	300	430
9	**8,79**	205	29,2	640	74	390	500	82	225	155	300	430
10	**10,19**	177	29,2	550	100	395	495	100	235	165	295	410
11,2	**10,91**	165	29,2	520	100	390	490	105	240	165	295	410
12,5	**12,64**	142	29,2	445	125	390	475	115	240	165	280	390
14	**13,54**	133	29,2	415	125	385	470	120	240	165	280	385
16	**16,08**	112	29,2	350	150	370	440	135	240	165	270	360
18	**17,22**	105	29,2	330	150	365	440	135	240	165	265	355
20	**20,48**	88	29,2	275	160	365	435	140	240	165	265	350
22,4	**21,93**	82	29,2	255	160	360	430	140	240	165	265	345
25	**27,08**	66	29,2	210	120	230	275	105	155	135	185	225
28	**28,99**	62	29,2	195	120	225	270	105	155	130	180	225
31,5	**33,85**	53	29,2	170	115	215	255	100	150	125	175	210
35,5	**36,24**	50	29,2	160	115	210	250	100	150	125	170	210
40	**41,25**	44	29,2	140	110	195	235	94	140	115	160	195
45	**44,17**	41	29,2	130	110	195	230	94	135	115	155	190
50	**52,61**	34	29,2	110	115	195	230	105	140	115	155	190
56	**56,33**	32	29,2	100	110	195	230	105	140	115	150	185
63	**64,12**	28	29,2	89	105	175	210	95	130	105	140	170
71	**68,66**	26	29,2	83	105	175	210	94	130	105	140	170
80	**82,1**	22	29,2	70	105	180	210	97	130	105	140	170
90	**87,91**	20	29,2	65	105	175	205	96	130	105	140	170
100	**100,07**	18	29,2	57	95	160	190	88	120	95	125	155
112	**107,15**	17	29,2	53	95	160	190	88	120	94	125	150
125	**133,33**	14	29,2	43	79	---	---	77	---	79	---	---
140	**142,77**	13	29,2	40	78	---	---	76	---	78	---	---
160	**162,51**	11	29,2	36	73	---	---	71	---	73	---	---
180	**174,01**	10	29,2	33	72	---	---	70	---	72	---	---
200	**203,25**	8,9	29,2	28	67	---	---	65	---	67	---	---
224	**217,63**	8,3	29,2	27	67	---	---	65	---	67	---	---
250	**260,96**	6,9	29,2	22	65	---	---	62	---	64	---	---
280	**279,43**	6,4	29,2	21	64	---	---	62	---	63	---	---
315	**318,07**	5,7	29,2	18	60	---	---	58	---	59	---	---
355	**340,58**	5,3	29,2	17	60	---	---	57	---	58	---	---
400	**397,81**	4,5	29,2	15	56	---	---	54	---	55	---	---
450	**425,96**	4,2	29,2	14	55	---	---	53	---	54	---	---

30593506/EN – 07/2023

XF160e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,21**	161	38	660	255	510	610	245	330	290	375	500
7,1	**7**	143	38	580	260	500	600	250	330	295	375	495
8	**7,73**	129	38	530	255	475	560	240	315	275	350	460
9	**8,71**	115	38	470	260	470	560	245	315	275	345	455
10	**10,02**	100	38	405	255	445	530	240	305	265	330	430
11,2	**11,3**	88	38	360	255	440	520	240	300	260	325	425
12,5	**12,34**	81	38	330	235	405	475	225	280	240	300	385
14	**13,91**	72	38	295	235	395	470	220	280	240	295	380
16	**15,93**	63	38	255	225	380	445	215	265	225	280	365
18	**17,95**	56	38	225	225	375	440	210	260	225	275	355
20	**20,5**	49	37,7	200	185	230	275	175	195	190	210	230
22,4	**23,1**	43	38	180	185	230	275	175	195	190	210	225
25	**25,09**	40	37,5	160	170	215	255	165	185	180	195	210
28	**28,27**	35	38	145	170	215	255	165	180	175	195	210
31,5	**31,72**	32	38	130	140	180	210	140	150	145	160	175
35,5	**35,75**	28	38	115	140	175	210	135	150	145	160	175
40	**39,72**	25	37,8	105	155	190	225	150	165	155	170	185
45	**44,76**	22	38	92	155	190	225	150	165	155	170	185
50	**50,22**	20	38	82	125	160	185	125	135	130	140	150
56	**56,59**	18	38	73	125	155	185	120	135	125	140	150
63	**63,38**	16	38	65	135	170	200	135	145	135	150	160
71	**71,42**	14	38	58	135	170	195	130	145	135	145	160
80	**80,13**	12	38	52	115	140	165	110	120	110	120	130
90	**90,31**	11	38	46	110	140	165	110	120	110	120	130
100	**100,04**	10	36,6	40	110	---	---	105	---	105	---	---
112	**112,74**	8,9	38	37	105	---	---	105	---	105	---	---
125	**126,49**	7,9	38	33	91	---	---	89	---	89	---	---
140	**142,55**	7	38	29	90	---	---	88	---	89	---	---
160	**152,08**	6,6	38	27	84	---	---	82	---	82	---	---
180	**171,4**	5,8	38	24	83	---	---	81	---	82	---	---
200	**202,75**	4,9	36,6	20	87	---	---	84	---	84	---	---
224	**228,49**	4,4	38	18	86	---	---	83	---	84	---	---
250	**256,35**	3,9	38	16	73	---	---	71	---	71	---	---
280	**288,9**	3,5	38	14	73	---	---	71	---	71	---	---
315	**308,22**	3,2	38	14	67	---	---	65	---	66	---	---
355	**347,36**	2,9	38	12	67	---	---	65	---	65	---	---
XF160e..,n_1= 1200 1/min												**38 kNm**
6,3	**6,21**	193	38	790	220	530	650	210	330	280	400	540
7,1	**7**	171	38	700	225	530	650	220	335	285	400	540
8	**7,73**	155	38	630	235	510	610	220	325	270	375	500
9	**8,71**	138	38	560	240	500	600	225	330	275	375	500
10	**10,02**	120	38	490	245	485	580	225	320	265	360	475
11,2	**11,3**	106	38	435	245	480	570	230	320	265	355	470
12,5	**12,34**	97	38	395	235	440	520	220	300	245	325	425
14	**13,91**	86	38	350	235	435	510	220	300	240	325	420
16	**15,93**	75	38	305	225	415	490	210	290	230	305	400
18	**17,95**	67	38	275	225	410	485	210	285	230	305	395
20	**20,5**	59	37,7	240	180	260	310	175	195	195	215	260
22,4	**23,1**	52	38	215	180	260	310	175	195	195	215	260
25	**25,09**	48	37,5	195	170	240	290	165	185	185	200	240
28	**28,27**	42	38	175	170	240	285	165	180	185	200	240
31,5	**31,72**	38	38	155	140	200	240	135	155	150	165	200
35,5	**35,75**	34	38	140	140	200	235	135	150	150	165	200
40	**39,72**	30	37,8	125	155	215	260	150	165	160	175	210
45	**44,76**	27	38	110	155	215	255	150	165	160	175	210
50	**50,22**	24	38	99	130	180	210	125	140	135	145	175
56	**56,59**	21	38	88	130	180	210	125	135	135	145	175
63	**63,38**	19	38	78	140	195	230	135	150	140	155	185
71	**71,42**	17	38	69	140	190	225	135	150	140	155	185
80	**80,13**	15	38	62	115	160	190	115	125	115	130	150
90	**90,31**	13	38	55	115	160	185	115	125	115	125	150
100	**100,04**	12	36,6	48	115	---	---	110	---	110	---	---
112	**112,74**	11	38	44	110	---	---	110	---	110	---	---
125	**126,49**	9,5	38	40	95	---	---	92	---	94	---	---
140	**142,55**	8,4	38	35	94	---	---	92	---	93	---	---
160	**152,08**	7,9	38	33	87	---	---	85	---	86	---	---
180	**171,4**	7	38	29	87	---	---	85	---	86	---	---
200	**202,75**	5,9	36,6	24	91	---	---	88	---	88	---	---
224	**228,49**	5,3	38	22	90	---	---	87	---	88	---	---
250	**256,35**	4,7	38	20	77	---	---	75	---	75	---	---
280	**288,9**	4,2	38	17	77	---	---	74	---	75	---	---
315	**308,22**	3,9	38	16	71	---	---	69	---	69	---	---
355	**347,36**	3,5	38	14	70	---	---	68	---	69	---	---

30593506/EN – 07/2023

XF160e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,21**	242	38	980	140	540	680	140	310	245	415	590
7,1	**7**	214	38	870	145	540	680	150	325	260	425	590
8	**7,73**	194	38	790	180	540	660	170	325	255	405	550
9	**8,71**	172	38	700	185	530	660	180	335	260	405	550
10	**10,02**	150	38	610	210	520	630	195	335	255	390	520
11,2	**11,3**	133	38	540	215	520	620	200	335	260	390	520
12,5	**12,34**	122	38	495	220	485	580	200	320	240	360	475
14	**13,91**	108	38	440	225	480	570	205	320	240	355	470
16	**15,93**	94	38	385	220	455	540	200	310	235	340	445
18	**17,95**	84	38	340	220	455	540	200	305	230	335	440
20	**20,5**	73	37,7	300	170	295	355	160	210	200	245	305
22,4	**23,1**	65	38	270	170	295	355	165	210	200	245	305
25	**25,09**	60	37,5	245	165	275	330	155	200	185	230	285
28	**28,27**	53	38	220	165	275	330	155	200	185	230	280
31,5	**31,72**	47	38	195	135	230	275	130	165	155	190	235
35,5	**35,75**	42	38	175	135	230	275	130	165	155	190	235
40	**39,72**	38	37,8	155	160	250	300	155	190	170	205	250
45	**44,76**	34	38	140	160	250	295	150	185	165	200	245
50	**50,22**	30	38	125	130	210	250	125	155	140	170	205
56	**56,59**	27	38	110	130	205	245	125	155	140	170	205
63	**63,38**	24	38	98	145	225	265	140	170	150	180	220
71	**71,42**	21	38	87	145	225	265	140	170	150	180	215
80	**80,13**	19	38	77	120	185	220	115	140	125	150	180
90	**90,31**	17	38	69	120	185	220	115	140	125	145	180
100	**100,04**	15	36,6	60	115	---	---	115	---	115	---	---
112	**112,74**	13	38	56	115	---	---	115	---	115	---	---
125	**126,49**	12	38	50	99	---	---	97	---	99	---	---
140	**142,55**	11	38	44	99	---	---	96	---	98	---	---
160	**152,08**	9,9	38	41	91	---	---	89	---	91	---	---
180	**171,4**	8,8	38	37	91	---	---	89	---	91	---	---
200	**202,75**	7,4	36,6	30	96	---	---	93	---	94	---	---
224	**228,49**	6,6	38	27	95	---	---	92	---	93	---	---
250	**256,35**	5,9	38	24	81	---	---	79	---	79	---	---
280	**288,9**	5,2	38	22	81	---	---	78	---	79	---	---
315	**308,22**	4,9	38	20	75	---	---	73	---	73	---	---
355	**347,36**	4,3	38	18	75	---	---	72	---	73	---	---
XF160e..,n_1= 1800 1/min												**38 kNm**
6,3	**6,21**	290	38	1200	31	520	680	42	260	205	415	610
7,1	**7**	257	38	1050	46	520	680	66	280	215	430	610
8	**7,73**	233	38	950	115	530	680	110	300	225	415	580
9	**8,71**	207	38	840	120	540	680	120	315	235	420	580
10	**10,02**	180	38	730	160	550	670	145	330	240	415	560
11,2	**11,3**	159	38	650	170	540	660	155	335	245	415	560
12,5	**12,34**	146	38	590	190	510	620	170	330	235	380	510
14	**13,91**	129	38	530	195	510	610	175	330	235	380	510
16	**15,93**	113	38	460	205	490	580	180	320	230	365	480
18	**17,95**	100	38	410	210	485	580	180	320	230	360	475
20	**20,5**	88	37,7	360	150	325	395	145	225	195	275	345
22,4	**23,1**	78	38	320	155	325	390	145	225	200	275	340
25	**25,09**	72	37,5	290	145	305	365	140	215	185	260	320
28	**28,27**	64	38	265	150	300	365	140	215	190	260	320
31,5	**31,72**	57	38	235	125	255	305	120	180	155	215	265
35,5	**35,75**	50	38	210	125	250	305	120	180	160	215	265
40	**39,72**	45	37,8	185	155	280	335	150	210	175	230	285
45	**44,76**	40	38	165	155	280	335	150	205	170	230	280
50	**50,22**	36	38	150	130	235	280	125	175	145	195	235
56	**56,59**	32	38	130	130	230	275	125	170	145	190	235
63	**63,38**	28	38	115	150	255	305	145	195	155	205	250
71	**71,42**	25	38	105	150	255	300	145	190	155	205	250
80	**80,13**	22	38	93	125	210	250	120	160	130	170	205
90	**90,31**	20	38	82	125	210	250	120	160	130	170	205
100	**100,04**	18	36,6	72	120	---	---	120	---	120	---	---
112	**112,74**	16	38	67	120	---	---	115	---	120	---	---
125	**126,49**	14	38	59	100	---	---	100	---	105	---	---
140	**142,55**	13	38	53	100	---	---	100	---	105	---	---
160	**152,08**	12	38	49	94	---	---	93	---	95	---	---
180	**171,4**	11	38	44	94	---	---	92	---	95	---	---
200	**202,75**	8,9	36,6	36	100	---	---	96	---	98	---	---
224	**228,49**	7,9	38	33	99	---	---	96	---	97	---	---
250	**256,35**	7	38	29	85	---	---	82	---	83	---	---
280	**288,9**	6,2	38	26	84	---	---	81	---	83	---	---
315	**308,22**	5,8	38	24	78	---	---	76	---	77	---	---
355	**347,36**	5,2	38	22	78	---	---	75	---	76	---	---

30593506/EN – 07/2023

XF170e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
8	**7,72**	130	47,5	660	275	540	640	265	350	310	395	530
9	**8,67**	115	47,5	590	275	530	630	265	350	310	390	520
10	**9,61**	104	47,5	530	275	500	590	260	335	290	370	485
11,2	**10,8**	93	47,5	470	275	490	580	260	330	290	365	480
12,5	**12,46**	80	47,5	410	270	470	560	255	320	280	350	455
14	**14**	71	47,5	365	270	460	540	250	320	275	340	445
16	**15,34**	65	47,5	330	250	425	500	235	295	255	315	410
18	**17,24**	58	47,5	295	245	415	490	235	295	250	310	400
20	**19,79**	51	47,5	260	240	400	470	225	280	240	295	380
22,4	**22,24**	45	47,5	230	235	390	460	220	275	235	290	375
25	**25,47**	39	46,9	200	195	245	290	190	210	200	220	240
28	**28,63**	35	47,5	180	190	240	285	185	205	200	215	235
31,5	**31,18**	32	46,8	165	180	225	270	175	195	185	205	220
35,5	**35,04**	29	47,5	145	180	225	265	175	190	185	200	220
40	**39,42**	25	46,5	130	150	190	225	145	160	155	170	185
45	**44,31**	23	47,5	115	150	185	220	145	160	155	165	180
50	**49,36**	20	46,7	105	160	200	240	155	170	165	180	195
56	**55,48**	18	47,5	93	160	200	235	155	170	160	175	190
63	**62,41**	16	46	80	135	165	195	130	140	135	150	160
71	**70,14**	14	47,5	74	130	165	195	130	140	135	145	160
80	**78,77**	13	46,3	64	145	180	210	140	155	145	155	170
90	**88,53**	11	47,5	58	140	175	205	140	150	140	155	165
100	**99,59**	10	45,7	50	120	145	170	115	125	120	130	140
112	**111,93**	8,9	47,4	46	115	145	170	115	125	115	125	140
125	**124,34**	8	45,6	40	115	---	---	110	---	110	---	---
140	**139,74**	7,2	47,5	37	110	---	---	110	---	110	---	---
160	**157,21**	6,4	46,2	32	96	---	---	93	---	94	---	---
180	**176,68**	5,7	47,5	30	95	---	---	92	---	93	---	---
200	**189,02**	5,3	46,1	27	88	---	---	86	---	86	---	---
224	**212,43**	4,7	47,5	25	87	---	---	85	---	85	---	---
250	**251,99**	4	45,5	20	91	---	---	88	---	89	---	---
280	**283,2**	3,5	47,5	18	90	---	---	87	---	88	---	---
315	**318,61**	3,1	45,8	16	77	---	---	75	---	75	---	---
355	**358,08**	2,8	47,5	15	76	---	---	74	---	74	---	---
400	**383,08**	2,6	45,8	13	71	---	---	69	---	69	---	---
450	**430,53**	2,3	47,5	12	70	---	---	68	---	68	---	---
XF170e..,n_1= 1200 1/min												47.5 kNm
8	**7,72**	155	47,5	790	240	570	690	230	355	300	420	570
9	**8,67**	138	47,5	710	240	560	680	235	360	300	420	560
10	**9,61**	125	47,5	640	255	540	650	240	350	290	400	530
11,2	**10,8**	111	47,5	570	250	530	630	240	350	290	395	520
12,5	**12,46**	96	47,5	490	260	510	610	240	340	280	380	500
14	**14**	86	47,5	435	260	500	590	240	340	280	375	490
16	**15,34**	78	47,5	400	250	465	550	235	320	260	345	450
18	**17,24**	70	47,5	355	245	455	540	230	315	255	340	440
20	**19,79**	61	47,5	310	240	435	520	225	305	245	325	420
22,4	**22,24**	54	47,5	275	235	430	500	220	300	240	315	410
25	**25,47**	47	46,9	240	190	275	330	185	205	205	230	275
28	**28,63**	42	47,5	215	190	270	325	185	205	205	225	270
31,5	**31,18**	38	46,8	195	180	255	305	175	195	195	215	255
35,5	**35,04**	34	47,5	175	180	250	300	175	190	190	210	250
40	**39,42**	30	46,5	155	150	210	250	145	160	160	175	210
45	**44,31**	27	47,5	140	150	210	250	145	160	160	175	210
50	**49,36**	24	46,7	125	165	230	270	160	175	170	185	225
56	**55,48**	22	47,5	110	165	225	270	160	175	170	185	220
63	**62,41**	19	46	96	140	190	225	135	145	140	155	185
71	**70,14**	17	47,5	88	135	185	220	130	145	140	150	180
80	**78,77**	15	46,3	77	150	205	240	145	160	150	165	195
90	**88,53**	14	47,5	70	145	200	235	145	155	150	160	190
100	**99,59**	12	45,7	60	125	170	200	120	130	125	135	160
112	**111,93**	11	47,4	55	120	165	195	120	130	120	135	160
125	**124,34**	9,7	45,6	48	120	---	---	115	---	115	---	---
140	**139,74**	8,6	47,5	45	115	---	---	115	---	115	---	---
160	**157,21**	7,6	46,2	39	100	---	---	97	---	99	---	---
180	**176,68**	6,8	47,5	35	99	---	---	96	---	97	---	---
200	**189,02**	6,3	46,1	32	92	---	---	90	---	91	---	---
224	**212,43**	5,6	47,5	29	91	---	---	89	---	90	---	---
250	**251,99**	4,8	45,5	24	95	---	---	93	---	93	---	---
280	**283,2**	4,2	47,5	22	94	---	---	91	---	92	---	---
315	**318,61**	3,8	45,8	19	81	---	---	79	---	79	---	---
355	**358,08**	3,4	47,5	17	80	---	---	78	---	78	---	---
400	**383,08**	3,1	45,8	16	74	---	---	72	---	72	---	---
450	**430,53**	2,8	47,5	15	74	---	---	71	---	72	---	---

30593506/EN – 07/2023

XF170e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
8	**7,72**	194	47,5	990	155	580	730	155	340	265	445	620
9	**8,67**	173	47,5	880	160	570	720	165	345	275	445	610
10	**9,61**	156	47,5	800	200	570	700	190	355	270	430	580
11,2	**10,8**	139	47,5	710	205	560	690	195	355	275	425	570
12,5	**12,46**	120	47,5	610	230	560	670	210	355	275	415	550
14	**14**	107	47,5	550	230	550	650	215	355	275	410	540
16	**15,34**	98	47,5	500	240	510	610	215	340	255	380	500
18	**17,24**	87	47,5	445	235	500	600	215	340	255	375	490
20	**19,79**	76	47,5	385	235	480	570	215	330	245	360	470
22,4	**22,24**	67	47,5	345	235	470	560	215	325	245	350	460
25	**25,47**	59	46,9	300	180	315	375	175	225	210	260	320
28	**28,63**	52	47,5	270	180	310	370	175	225	210	260	315
31,5	**31,18**	48	46,8	245	175	290	350	165	210	200	245	300
35,5	**35,04**	43	47,5	220	170	290	345	165	210	195	240	295
40	**39,42**	38	46,5	190	145	240	290	140	180	165	205	250
45	**44,31**	34	47,5	175	145	240	285	140	175	165	200	245
50	**49,36**	30	46,7	155	170	265	315	160	200	180	215	260
56	**55,48**	27	47,5	140	165	260	310	160	195	175	210	260
63	**62,41**	24	46	120	140	220	260	135	165	150	180	215
71	**70,14**	21	47,5	110	140	215	260	135	165	145	175	215
80	**78,77**	19	46,3	96	155	240	280	150	180	155	190	230
90	**88,53**	17	47,5	87	155	235	275	150	180	155	185	225
100	**99,59**	15	45,7	75	130	195	230	125	150	130	155	190
112	**111,93**	13	47,4	69	125	195	230	120	150	130	155	185
125	**124,34**	12	45,6	60	125	---	---	120	---	125	---	---
140	**139,74**	11	47,5	56	120	---	---	120	---	120	---	---
160	**157,21**	9,5	46,2	48	105	---	---	100	---	105	---	---
180	**176,68**	8,5	47,5	44	105	---	---	100	---	105	---	---
200	**189,02**	7,9	46,1	40	96	---	---	94	---	96	---	---
224	**212,43**	7,1	47,5	37	95	---	---	93	---	95	---	---
250	**251,99**	6	45,5	30	100	---	---	98	---	99	---	---
280	**283,2**	5,3	47,5	28	99	---	---	96	---	97	---	---
315	**318,61**	4,7	45,8	24	85	---	---	83	---	84	---	---
355	**358,08**	4,2	47,5	22	85	---	---	82	---	83	---	---
400	**383,08**	3,9	45,8	20	79	---	---	77	---	77	---	---
450	**430,53**	3,5	47,5	18	78	---	---	76	---	76	---	---
XF170e..,n_1= 1800 1/min												47.5 kNm
8	**7,72**	233	47,5	1200	56	560	730	65	285	215	445	640
9	**8,67**	208	47,5	1050	70	560	720	84	305	235	455	640
10	**9,61**	187	47,5	950	130	570	720	125	330	245	440	620
11,2	**10,8**	167	47,5	850	135	570	710	135	335	250	445	610
12,5	**12,46**	144	47,5	740	180	580	710	165	355	260	440	590
14	**14**	129	47,5	660	185	570	700	170	355	260	435	580
16	**15,34**	117	47,5	600	205	540	650	190	350	250	405	540
18	**17,24**	104	47,5	530	210	540	640	190	350	250	400	530
20	**19,79**	91	47,5	465	220	520	620	195	340	245	385	510
22,4	**22,24**	81	47,5	410	220	510	600	195	335	240	380	500
25	**25,47**	71	46,9	360	165	345	420	155	240	210	295	365
28	**28,63**	63	47,5	325	165	340	410	155	240	210	290	360
31,5	**31,18**	58	46,8	295	160	320	390	150	230	200	275	340
35,5	**35,04**	51	47,5	265	160	315	385	150	225	200	275	335
40	**39,42**	46	46,5	230	135	270	325	130	190	165	230	280
45	**44,31**	41	47,5	210	135	265	320	130	190	165	225	280
50	**49,36**	36	46,7	185	165	295	355	160	220	185	245	300
56	**55,48**	32	47,5	165	165	295	350	155	220	180	240	295
63	**62,41**	29	46	145	140	245	295	130	185	150	205	250
71	**70,14**	26	47,5	130	135	245	290	130	180	150	200	245
80	**78,77**	23	46,3	115	160	270	320	150	205	165	215	260
90	**88,53**	20	47,5	105	155	265	315	150	200	160	215	260
100	**99,59**	18	45,7	90	130	225	265	125	170	135	180	215
112	**111,93**	16	47,4	83	130	220	260	125	165	135	175	215
125	**124,34**	14	45,6	73	125	---	---	125	---	130	---	---
140	**139,74**	13	47,5	67	125	---	---	125	---	125	---	---
160	**157,21**	11	46,2	58	110	---	---	105	---	110	---	---
180	**176,68**	10	47,5	53	105	---	---	105	---	110	---	---
200	**189,02**	9,5	46,1	48	99	---	---	98	---	100	---	---
224	**212,43**	8,5	47,5	44	98	---	---	97	---	99	---	---
250	**251,99**	7,1	45,5	36	105	---	---	100	---	105	---	---
280	**283,2**	6,4	47,5	33	105	---	---	100	---	100	---	---
315	**318,61**	5,6	45,8	28	89	---	---	86	---	88	---	---
355	**358,08**	5	47,5	26	88	---	---	85	---	87	---	---
400	**383,08**	4,7	45,8	24	82	---	---	80	---	81	---	---
450	**430,53**	4,2	47,5	22	81	---	---	79	---	80	---	---

30593506/EN – 07/2023

XF180e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,49**	154	59,4	980	315	580	710	255	360	320	425	590
7,1	**7,27**	138	60,8	900	330	610	740	280	385	345	450	620
8	**8,1**	123	60,3	800	305	550	660	260	355	310	400	550
9	**9,08**	110	61	720	325	570	680	280	375	330	425	570
10	**9,97**	100	61	660	300	520	620	265	350	305	390	520
11,2	**11,17**	90	61	590	315	540	640	280	370	320	405	540
12,5	**12,19**	82	61	540	295	500	590	270	350	295	375	495
14	**13,65**	73	61	480	310	510	610	280	365	310	390	510
16	**16,06**	62	61	410	265	450	530	250	320	270	340	445
18	**17,98**	56	61	365	270	460	540	260	330	280	350	455
20	**19,99**	50	61	330	215	275	335	210	235	225	250	275
22,4	**22,39**	45	61	295	220	285	340	215	240	235	260	285
25	**25,88**	39	61	255	205	260	315	200	225	215	240	260
28	**28,98**	35	61	230	210	270	320	205	230	225	245	265
31,5	**31,13**	32	61	215	185	235	280	185	200	195	215	235
35,5	**34,86**	29	61	190	190	240	290	185	205	200	220	240
40	**39,86**	25	61	165	185	230	275	180	200	190	205	225
45	**44,64**	22	61	150	190	235	280	185	205	195	210	230
50	**47,95**	21	61	140	170	210	245	165	180	170	185	205
56	**53,7**	19	61	125	170	215	255	165	185	175	190	205
63	**64,56**	15	61	105	170	205	245	160	180	170	185	200
71	**72,3**	14	61	92	170	210	250	165	180	170	185	205
80	**77,67**	13	61	85	150	185	220	145	160	150	165	175
90	**86,98**	11	60,8	76	155	190	225	150	165	155	165	180
100	**106,69**	9,4	61	63	130	---	---	125	---	130	---	---
112	**119,48**	8,4	60,9	56	130	---	---	130	---	130	---	---
125	**128,35**	7,8	61	52	115	---	---	115	---	115	---	---
140	**143,73**	7	60,7	46	120	---	---	120	---	120	---	---
160	**158,55**	6,3	60,8	42	105	---	---	105	---	105	---	---
180	**177,55**	5,6	60,6	38	110	---	---	105	---	105	---	---
200	**209,5**	4,8	60,9	32	105	---	---	100	---	100	---	---
224	**234,6**	4,3	60,6	28	105	---	---	105	---	100	---	---
250	**252,02**	4	60,7	26	94	---	---	92	---	92	---	---
280	**282,23**	3,5	60,2	23	96	---	---	94	---	94	---	---
315	**311,32**	3,2	60,6	21	86	---	---	83	---	83	---	---
355	**348,63**	2,9	60,3	19	87	---	---	85	---	85	---	---
XF180e..,n_1= 1200 1/min												61 kNm
6,3	**6,49**	185	59,4	1200	280	620	760	190	345	295	440	620
7,1	**7,27**	165	60,8	1100	300	640	790	220	380	320	470	660
8	**8,1**	148	60,3	960	290	580	710	220	360	295	425	590
9	**9,08**	132	61	870	305	610	730	245	380	315	450	620
10	**9,97**	120	61	790	290	560	680	240	365	295	415	570
11,2	**11,17**	107	61	700	305	580	700	255	380	315	435	590
12,5	**12,19**	98	61	640	290	540	650	255	365	295	405	540
14	**13,65**	88	61	580	305	560	660	270	385	310	425	560
16	**16,06**	75	61	490	270	490	580	240	340	270	370	490
18	**17,98**	67	61	435	270	500	590	250	350	285	380	500
20	**19,99**	60	61	400	205	305	370	205	230	230	255	310
22,4	**22,39**	54	61	355	215	315	380	210	235	235	265	320
25	**25,88**	46	61	305	200	295	350	195	220	220	245	295
28	**28,98**	41	61	275	205	300	360	205	230	230	250	305
31,5	**31,13**	39	61	255	180	265	315	180	200	200	220	265
35,5	**34,86**	34	61	230	190	270	325	185	205	205	225	275
40	**39,86**	30	61	200	190	260	310	185	200	195	215	255
45	**44,64**	27	61	180	190	270	320	190	205	200	220	265
50	**47,95**	25	61	165	170	235	280	165	185	175	195	235
56	**53,7**	22	61	150	175	240	285	170	190	180	195	235
63	**64,56**	19	61	125	175	235	280	165	185	175	190	230
71	**72,3**	17	61	110	175	240	285	170	185	180	195	235
80	**77,67**	15	61	100	155	210	250	150	165	155	170	205
90	**86,98**	14	60,8	91	160	215	255	155	170	160	175	210
100	**106,69**	11	61	75	135	---	---	130	---	135	---	---
112	**119,48**	10	60,9	67	135	---	---	135	---	135	---	---
125	**128,35**	9,3	61	63	120	---	---	120	---	120	---	---
140	**143,73**	8,3	60,7	56	125	---	---	125	---	125	---	---
160	**158,55**	7,6	60,8	51	110	---	---	110	---	110	---	---
180	**177,55**	6,8	60,6	45	115	---	---	110	---	110	---	---
200	**209,5**	5,7	60,9	38	110	---	---	105	---	105	---	---
224	**234,6**	5,1	60,6	34	110	---	---	105	---	105	---	---
250	**252,02**	4,8	60,7	32	99	---	---	96	---	96	---	---
280	**282,23**	4,3	60,2	28	100	---	---	98	---	98	---	---
315	**311,32**	3,9	60,6	26	90	---	---	88	---	88	---	---
355	**348,63**	3,4	60,3	23	91	---	---	89	---	89	---	---

30593506/EN – 07/2023

XF180e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
6,3	**6,49**	231	59,4	1450	215	640	800	91	285	235	445	660
7,1	**7,27**	206	60,8	1350	230	670	840	120	330	265	480	700
8	**8,1**	185	60,3	1200	240	620	760	150	335	255	445	630
9	**9,08**	165	61	1100	260	650	800	170	365	285	475	660
10	**9,97**	150	61	980	260	610	740	180	355	275	440	610
11,2	**11,17**	134	61	880	280	630	760	200	380	290	465	640
12,5	**12,19**	123	61	810	275	590	710	215	375	280	440	600
14	**13,65**	110	61	720	290	610	730	235	400	300	460	620
16	**16,06**	93	61	610	265	540	640	215	355	270	405	540
18	**17,98**	83	61	550	275	560	660	230	370	280	420	560
20	**19,99**	75	61	495	185	340	420	185	245	225	285	360
22,4	**22,39**	67	61	445	195	350	435	195	255	235	295	375
25	**25,88**	58	61	385	185	330	400	185	240	220	275	345
28	**28,98**	52	61	345	190	340	410	190	245	230	285	355
31,5	**31,13**	48	61	320	170	300	360	170	220	200	250	310
35,5	**34,86**	43	61	285	175	305	370	175	225	210	260	320
40	**39,86**	38	61	250	185	300	360	180	225	200	245	300
45	**44,64**	34	61	225	190	310	370	185	230	205	250	310
50	**47,95**	31	61	205	165	275	325	165	205	180	220	270
56	**53,7**	28	61	185	170	280	335	170	210	185	225	280
63	**64,56**	23	61	155	175	275	325	170	210	180	220	265
71	**72,3**	21	61	135	180	280	335	175	210	185	225	275
80	**77,67**	19	61	130	160	250	295	155	185	165	195	240
90	**86,98**	17	60,8	115	165	255	300	155	190	165	200	245
100	**106,69**	14	61	94	140	---	---	140	---	140	---	---
112	**119,48**	13	60,9	84	140	---	---	140	---	145	---	---
125	**128,35**	12	61	78	125	---	---	125	---	130	---	---
140	**143,73**	10	60,7	70	130	---	---	130	---	130	---	---
160	**158,55**	9,5	60,8	63	115	---	---	115	---	115	---	---
180	**177,55**	8,4	60,6	56	115	---	---	115	---	120	---	---
200	**209,5**	7,2	60,9	48	115	---	---	110	---	110	---	---
224	**234,6**	6,4	60,6	43	115	---	---	115	---	115	---	---
250	**252,02**	6	60,7	40	105	---	---	100	---	100	---	---
280	**282,23**	5,3	60,2	35	105	---	---	105	---	105	---	---
315	**311,32**	4,8	60,6	32	94	---	---	92	---	93	---	---
355	**348,63**	4,3	60,3	29	96	---	---	94	---	94	---	---
XF180e..,n_1= 1800 1/min												61 kNm
6,3	**6,49**	277	59,4	1750	140	630	810	0	210	175	425	660
7,1	**7,27**	248	60,8	1600	165	670	860	0	245	205	470	710
8	**8,1**	222	60,3	1450	190	630	790	52	280	210	445	650
9	**9,08**	198	61	1300	200	660	830	81	315	235	480	690
10	**9,97**	181	61	1200	215	630	780	115	325	235	455	640
11,2	**11,17**	161	61	1050	235	660	810	130	355	260	480	680
12,5	**12,19**	148	61	970	245	620	760	160	370	260	460	640
14	**13,65**	132	61	860	260	650	780	180	395	285	485	660
16	**16,06**	112	61	730	245	580	690	180	355	255	425	580
18	**17,98**	100	61	660	260	590	710	195	375	270	445	600
20	**19,99**	90	61	600	155	365	455	160	260	220	320	405
22,4	**22,39**	80	61	530	165	380	470	170	270	230	330	420
25	**25,88**	70	61	460	160	355	440	165	255	220	310	390
28	**28,98**	62	61	410	165	365	450	170	265	225	320	400
31,5	**31,13**	58	61	385	145	325	400	150	235	200	280	350
35,5	**34,86**	52	61	340	155	335	405	160	240	210	290	360
40	**39,86**	45	61	300	175	335	405	175	250	200	275	340
45	**44,64**	40	61	265	180	340	410	180	255	205	285	350
50	**47,95**	38	61	250	160	305	365	160	225	185	250	310
56	**53,7**	34	61	220	165	310	370	165	235	190	255	315
63	**64,56**	28	61	185	175	310	370	170	230	185	250	305
71	**72,3**	25	61	165	180	320	375	170	240	190	255	310
80	**77,67**	23	61	155	160	280	330	155	210	165	225	275
90	**86,98**	21	60,8	135	165	285	340	155	215	170	230	280
100	**106,69**	17	61	115	140	---	---	140	---	145	---	---
112	**119,48**	15	60,9	100	145	---	---	145	---	150	---	---
125	**128,35**	14	61	94	130	---	---	130	---	135	---	---
140	**143,73**	13	60,7	84	135	---	---	130	---	135	---	---
160	**158,55**	11	60,8	76	120	---	---	120	---	120	---	---
180	**177,55**	10	60,6	68	120	---	---	120	---	125	---	---
200	**209,5**	8,6	60,9	57	115	---	---	115	---	115	---	---
224	**234,6**	7,7	60,6	51	120	---	---	115	---	120	---	---
250	**252,02**	7,1	60,7	48	105	---	---	105	---	105	---	---
280	**282,23**	6,4	60,2	42	110	---	---	105	---	110	---	---
315	**311,32**	5,8	60,6	39	98	---	---	95	---	97	---	---
355	**348,63**	5,2	60,3	34	100	---	---	97	---	99	---	---

30593506/EN – 07/2023

XF190e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							69 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,25**	138	65,1	960	345	630	770	285	395	350	465	640
8	**8,14**	123	67,6	890	360	650	780	300	415	370	480	660
9	**9,05**	110	66,1	780	335	590	710	290	390	340	435	590
10	**10,17**	98	68,2	720	345	600	720	305	400	350	450	600
11,2	**11,14**	90	67,4	650	330	560	670	290	380	330	420	560
12,5	**12,52**	80	68,6	590	335	570	680	300	395	340	430	570
14	**13,61**	73	68,5	540	320	540	630	295	375	320	405	530
16	**15,3**	65	69	485	325	540	640	300	385	330	415	540
18	**17,93**	56	69	415	280	480	560	270	340	295	365	475
20	**20,15**	50	69	365	285	485	570	275	350	300	370	480
22,4	**22,32**	45	68,3	330	230	295	355	215	240	240	265	295
25	**25,08**	40	68,2	295	235	300	360	220	245	245	275	300
28	**28,9**	35	68,1	255	220	280	335	210	230	230	255	275
31,5	**32,47**	31	68	230	225	285	340	215	235	235	260	280
35,5	**34,76**	29	69	215	200	250	300	190	210	210	230	250
40	**39,06**	26	68	190	200	255	300	190	210	210	230	250
45	**44,51**	22	68,4	165	195	245	290	190	210	200	220	240
50	**50,01**	20	68,2	150	200	250	295	190	210	205	220	240
56	**53,55**	19	69	140	180	220	260	170	190	180	195	215
63	**60,17**	17	67,9	125	180	225	265	175	190	180	200	215
71	**72,09**	14	69	105	180	220	260	170	190	175	195	210
80	**81,01**	12	68,2	91	180	225	265	175	190	180	195	215
90	**86,73**	12	69	86	160	195	230	155	170	160	175	185
100	**97,45**	10	68,1	76	160	200	235	155	170	160	175	190
112	**119,14**	8,4	68,7	63	135	---	---	135	---	135	---	---
125	**133,87**	7,5	68,4	56	140	---	---	135	---	135	---	---
140	**143,33**	7	68,7	53	125	---	---	120	---	120	---	---
160	**161,05**	6,2	68,4	47	125	---	---	125	---	125	---	---
180	**177,05**	5,6	68,6	43	110	---	---	110	---	110	---	---
200	**198,95**	5	68,4	38	115	---	---	110	---	110	---	---
224	**233,94**	4,3	68,1	32	110	---	---	105	---	105	---	---
250	**262,87**	3,8	68,4	29	110	---	---	105	---	105	---	---
280	**281,43**	3,6	68,2	27	99	---	---	97	---	97	---	---
315	**316,23**	3,2	68,4	24	100	---	---	98	---	98	---	---
355	**347,64**	2,9	68,1	22	90	---	---	88	---	88	---	---
400	**390,64**	2,6	68,4	19	91	---	---	89	---	89	---	---
XF190e..,n_1= 1200 1/min												69 kNm
7,1	**7,25**	166	65,1	1150	310	670	820	220	385	325	485	680
8	**8,14**	147	67,6	1050	325	690	840	245	410	345	510	700
9	**9,05**	133	66,1	940	315	630	770	250	395	325	465	640
10	**10,17**	118	68,2	860	330	650	780	265	410	340	480	660
11,2	**11,14**	108	67,4	780	315	610	730	265	395	320	450	610
12,5	**12,52**	96	68,6	710	325	620	740	280	410	335	465	620
14	**13,61**	88	68,5	650	315	580	690	280	395	320	440	580
16	**15,3**	78	69	580	325	590	700	290	410	330	450	590
18	**17,93**	67	69	495	280	530	620	260	365	295	395	520
20	**20,15**	60	69	440	285	530	630	270	375	300	405	530
22,4	**22,32**	54	68,3	400	220	325	395	205	235	245	270	330
25	**25,08**	48	68,2	355	225	335	400	210	240	250	280	340
28	**28,9**	42	68,1	305	215	310	375	200	225	235	260	315
31,5	**32,47**	37	68	275	220	315	380	205	230	240	265	320
35,5	**34,76**	35	69	260	195	280	335	180	205	215	235	285
40	**39,06**	31	68	225	200	285	340	185	210	215	240	285
45	**44,51**	27	68,4	200	200	280	330	190	210	205	225	275
50	**50,01**	24	68,2	180	200	280	335	190	210	210	230	275
56	**53,55**	22	69	170	180	250	300	170	190	185	205	245
63	**60,17**	20	67,9	145	180	255	300	175	190	190	205	250
71	**72,09**	17	69	125	185	250	295	175	190	185	200	240
80	**81,01**	15	68,2	110	185	255	300	175	195	185	205	245
90	**86,73**	14	69	105	165	225	265	160	175	165	180	215
100	**97,45**	12	68,1	91	165	230	270	160	175	165	180	220
112	**119,14**	10	68,7	76	140	---	---	140	---	140	---	---
125	**133,87**	9	68,4	67	145	---	---	140	---	145	---	---
140	**143,33**	8,4	68,7	63	130	---	---	125	---	130	---	---
160	**161,05**	7,5	68,4	56	130	---	---	130	---	130	---	---
180	**177,05**	6,8	68,6	51	115	---	---	115	---	115	---	---
200	**198,95**	6	68,4	45	120	---	---	115	---	115	---	---
224	**233,94**	5,1	68,1	38	115	---	---	110	---	110	---	---
250	**262,87**	4,6	68,4	34	115	---	---	110	---	110	---	---
280	**281,43**	4,3	68,2	32	105	---	---	100	---	100	---	---
315	**316,23**	3,8	68,4	29	105	---	---	100	---	105	---	---
355	**347,64**	3,5	68,1	26	94	---	---	92	---	92	---	---
400	**390,64**	3,1	68,4	23	95	---	---	93	---	93	---	---

30593506/EN – 07/2023

XF190e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							69 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,25**	207	65,1	1450	235	700	870	110	325	260	490	710
8	**8,14**	184	67,6	1350	255	720	900	140	365	290	520	750
9	**9,05**	166	66,1	1200	270	670	830	170	370	290	485	690
10	**10,17**	147	68,2	1100	285	690	850	185	395	310	510	710
11,2	**11,14**	135	67,4	970	290	660	800	200	395	300	480	660
12,5	**12,52**	120	68,6	880	300	670	810	220	410	315	500	680
14	**13,61**	110	68,5	810	300	640	770	240	410	310	475	640
16	**15,3**	98	69	730	310	650	770	255	425	320	490	660
18	**17,93**	84	69	620	285	580	690	235	385	290	435	580
20	**20,15**	74	69	550	275	590	700	245	395	300	445	590
22,4	**22,32**	67	68,3	500	200	365	450	180	245	245	305	385
25	**25,08**	60	68,2	445	210	375	455	185	250	250	315	395
28	**28,9**	52	68,1	385	200	350	425	180	240	235	295	370
31,5	**32,47**	46	68	340	205	355	435	185	245	245	300	375
35,5	**34,76**	43	69	325	180	320	385	165	215	215	265	330
40	**39,06**	38	68	285	185	320	390	170	220	220	270	335
45	**44,51**	34	68,4	250	195	320	385	185	235	215	260	320
50	**50,01**	30	68,2	220	200	325	385	185	235	215	265	325
56	**53,55**	28	69	210	180	290	345	165	210	195	235	290
63	**60,17**	25	67,9	185	180	290	350	170	210	195	240	290
71	**72,09**	21	69	155	185	295	345	175	220	195	235	285
80	**81,01**	19	68,2	135	190	295	350	180	220	195	235	285
90	**86,73**	17	69	130	170	260	310	160	195	175	210	255
100	**97,45**	15	68,1	115	170	265	315	160	200	175	210	255
112	**119,14**	13	68,7	95	145	---	---	145	---	150	---	---
125	**133,87**	11	68,4	84	150	---	---	145	---	150	---	---
140	**143,33**	10	68,7	79	135	---	---	130	---	135	---	---
160	**161,05**	9,3	68,4	70	135	---	---	135	---	135	---	---
180	**177,05**	8,5	68,6	64	120	---	---	120	---	120	---	---
200	**198,95**	7,5	68,4	57	120	---	---	120	---	125	---	---
224	**233,94**	6,4	68,1	48	120	---	---	115	---	120	---	---
250	**262,87**	5,7	68,4	43	120	---	---	115	---	120	---	---
280	**281,43**	5,3	68,2	40	110	---	---	105	---	105	---	---
315	**316,23**	4,7	68,4	36	110	---	---	105	---	110	---	---
355	**347,64**	4,3	68,1	32	99	---	---	96	---	97	---	---
400	**390,64**	3,8	68,4	29	100	---	---	97	---	98	---	---
XF190e..,n_1= 1800 1/min												69 kNm
7,1	**7,25**	248	65,1	1750	165	690	890	0	235	195	465	720
8	**8,14**	221	67,6	1600	180	720	920	0	270	225	510	760
9	**9,05**	199	66,1	1400	210	690	860	72	315	235	485	710
10	**10,17**	177	68,2	1300	220	710	880	96	350	260	510	740
11,2	**11,14**	162	67,4	1150	240	680	840	130	360	265	495	700
12,5	**12,52**	144	68,6	1050	255	700	860	145	385	285	520	720
14	**13,61**	132	68,5	970	270	670	820	185	405	290	500	690
16	**15,3**	118	69	870	280	690	830	200	425	300	510	700
18	**17,93**	100	69	740	265	620	740	200	390	280	460	620
20	**20,15**	89	69	660	275	630	750	210	400	290	475	630
22,4	**22,32**	81	68,3	600	170	390	490	140	250	240	340	430
25	**25,08**	72	68,2	530	175	400	500	150	255	245	350	440
28	**28,9**	62	68,1	460	170	380	470	145	245	235	330	415
31,5	**32,47**	55	68	410	180	390	475	150	250	240	335	420
35,5	**34,76**	52	69	390	160	345	425	135	225	215	300	375
40	**39,06**	46	68	340	165	350	430	140	230	220	305	380
45	**44,51**	40	68,4	300	185	355	430	170	250	215	295	360
50	**50,01**	36	68,2	265	190	360	430	175	255	220	300	365
56	**53,55**	34	69	250	170	320	385	155	230	195	265	325
63	**60,17**	30	67,9	220	175	325	390	160	230	200	270	330
71	**72,09**	25	69	185	190	330	390	175	240	200	265	325
80	**81,01**	22	68,2	165	190	330	395	175	245	200	265	325
90	**86,73**	21	69	155	170	295	350	160	220	180	235	290
100	**97,45**	18	68,1	135	170	300	355	160	220	180	240	295
112	**119,14**	15	68,7	115	150	---	---	150	---	155	---	---
125	**133,87**	13	68,4	100	150	---	---	150	---	155	---	---
140	**143,33**	13	68,7	95	135	---	---	135	---	140	---	---
160	**161,05**	11	68,4	84	140	---	---	135	---	140	---	---
180	**177,05**	10	68,6	77	125	---	---	125	---	125	---	---
200	**198,95**	9	68,4	68	125	---	---	125	---	130	---	---
224	**233,94**	7,7	68,1	58	125	---	---	120	---	125	---	---
250	**262,87**	6,8	68,4	51	125	---	---	120	---	125	---	---
280	**281,43**	6,4	68,2	48	115	---	---	110	---	110	---	---
315	**316,23**	5,7	68,4	43	115	---	---	110	---	115	---	---
355	**347,64**	5,2	68,1	39	105	---	---	100	---	100	---	---
400	**390,64**	4,6	68,4	35	105	---	---	100	---	105	---	---

30593506/EN – 07/2023

XF200e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,44**	155	77	1300	405	770	940	315	455	420	560	780
7,1	**7,31**	137	82,5	1200	400	750	910	320	455	420	550	760
8	**7,98**	125	78,4	1050	410	740	890	340	470	420	550	750
9	**9,05**	110	83	980	400	720	860	345	465	415	540	730
10	**10,09**	99	80	850	395	690	820	345	455	405	510	690
11,2	**11,44**	87	83	780	385	670	790	340	450	395	500	670
12,5	**12,69**	79	81,7	690	395	670	790	350	460	400	510	670
14	**14,39**	69	83	620	385	650	760	345	450	395	495	650
16	**16,28**	61	83	550	360	610	720	335	425	375	465	610
18	**18,47**	54	83	480	345	590	700	325	415	365	455	590
20	**20,73**	48	83	435	275	355	430	260	290	295	325	355
22,4	**23,51**	43	83	385	270	350	420	255	285	290	320	350
25	**25,94**	39	83	350	255	330	395	240	270	270	300	325
28	**29,41**	34	83	305	250	325	385	240	265	270	295	320
31,5	**32,13**	31	83	280	255	325	385	235	265	265	290	315
35,5	**36,44**	27	83	245	250	315	375	230	255	260	285	310
40	**39,25**	25	83	230	240	300	350	230	250	240	265	285
45	**44,51**	22	83	205	235	290	345	225	245	235	260	280
50	**48,62**	21	83	185	230	290	340	220	240	235	255	275
56	**55,14**	18	83	165	225	285	335	215	235	230	250	270
63	**64,48**	16	83	140	210	260	305	200	220	210	230	245
71	**73,13**	14	83	125	205	255	300	195	215	205	225	240
80	**79,88**	13	83	115	205	250	295	195	215	200	220	240
90	**90,59**	11	83	100	200	245	290	190	210	200	215	235
100	**99,49**	10	83	92	160	---	---	160	---	160	---	---
112	**112,83**	8,9	83	81	160	---	---	155	---	160	---	---
125	**123,25**	8,1	83	74	155	---	---	155	---	155	---	---
140	**139,78**	7,2	83	65	155	---	---	150	---	155	---	---
160	**152,34**	6,6	83	60	145	---	---	140	---	145	---	---
180	**172,77**	5,8	83	53	140	---	---	140	---	140	---	---
200	**199,92**	5	83	46	130	---	---	125	---	125	---	---
224	**226,73**	4,4	83	40	125	---	---	125	---	125	---	---
250	**247,66**	4	83	37	125	---	---	125	---	125	---	---
280	**280,87**	3,6	83	32	125	---	---	120	---	120	---	---
315	**306,12**	3,3	83	30	115	---	---	115	---	115	---	---
355	**347,17**	2,9	83	26	115	---	---	110	---	110	---	---
XF200e..,n_1= 1200 1/min												83 kNm
6,3	**6,44**	186	77	1550	355	810	1000	220	425	380	580	830
7,1	**7,31**	164	82,5	1450	355	790	970	230	435	385	580	810
8	**7,98**	150	78,4	1250	375	780	960	275	465	395	580	800
9	**9,05**	133	83	1200	370	770	930	285	465	395	570	780
10	**10,09**	119	80	1000	375	740	890	300	465	390	550	750
11,2	**11,44**	105	83	930	370	720	860	305	460	390	540	730
12,5	**12,69**	95	81,7	830	385	720	860	325	475	395	550	730
14	**14,39**	83	83	740	375	700	840	320	470	390	530	710
16	**16,28**	74	83	660	365	670	790	315	450	370	510	670
18	**18,47**	65	83	580	340	650	770	310	440	365	495	650
20	**20,73**	58	83	520	265	395	485	240	275	300	330	405
22,4	**23,51**	51	83	460	265	390	470	240	270	295	325	395
25	**25,94**	46	83	415	250	370	445	230	260	275	305	370
28	**29,41**	41	83	370	245	360	435	225	255	275	300	365
31,5	**32,13**	37	83	335	250	360	435	225	255	270	300	360
35,5	**36,44**	33	83	295	245	355	425	225	250	265	295	350
40	**39,25**	31	83	275	240	340	400	225	250	250	275	330
45	**44,51**	27	83	245	235	330	390	225	245	245	270	320
50	**48,62**	25	83	225	235	330	390	220	245	245	265	320
56	**55,14**	22	83	195	230	320	380	215	240	235	260	310
63	**64,48**	19	83	170	215	295	350	205	225	220	240	285
71	**73,13**	16	83	150	210	290	340	200	220	215	235	280
80	**79,88**	15	83	135	210	285	340	200	220	210	230	275
90	**90,59**	13	83	120	205	280	330	195	215	205	225	270
100	**99,49**	12	83	110	165	---	---	165	---	170	---	---
112	**112,83**	11	83	97	165	---	---	160	---	165	---	---
125	**123,25**	9,7	83	89	165	---	---	160	---	165	---	---
140	**139,78**	8,6	83	78	160	---	---	155	---	160	---	---
160	**152,34**	7,9	83	72	150	---	---	145	---	150	---	---
180	**172,77**	6,9	83	63	145	---	---	145	---	145	---	---
200	**199,92**	6	83	55	135	---	---	130	---	135	---	---
224	**226,73**	5,3	83	48	135	---	---	130	---	130	---	---
250	**247,66**	4,8	83	44	130	---	---	130	---	130	---	---
280	**280,87**	4,3	83	39	130	---	---	125	---	130	---	---
315	**306,12**	3,9	83	36	120	---	---	120	---	120	---	---
355	**347,17**	3,5	83	32	120	---	---	115	---	115	---	---

30593506/EN – 07/2023

XF200e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,44**	233	77	1900	260	830	1050	29	315	295	580	860
7,1	**7,31**	205	82,5	1800	265	810	1000	77	345	310	580	850
8	**7,98**	188	78,4	1600	300	820	1000	160	410	340	600	850
9	**9,05**	166	83	1500	305	810	1000	175	425	350	590	840
10	**10,09**	149	80	1300	330	790	970	210	450	360	580	810
11,2	**11,44**	131	83	1150	330	770	940	220	450	360	580	800
12,5	**12,69**	118	81,7	1050	360	790	950	255	480	375	590	800
14	**14,39**	104	83	930	355	770	920	260	475	375	580	780
16	**16,28**	92	83	820	350	730	880	265	460	360	550	740
18	**18,47**	81	83	720	340	710	850	265	455	355	540	720
20	**20,73**	72	83	650	240	445	550	200	280	295	370	470
22,4	**23,51**	64	83	580	240	435	540	200	280	295	365	460
25	**25,94**	58	83	520	230	415	510	195	265	280	345	435
28	**29,41**	51	83	460	230	405	495	195	265	275	345	425
31,5	**32,13**	47	83	420	235	410	495	195	265	275	340	420
35,5	**36,44**	41	83	370	230	400	485	195	260	270	335	410
40	**39,25**	38	83	345	240	390	465	215	275	255	315	385
45	**44,51**	34	83	305	235	380	455	215	270	255	310	380
50	**48,62**	31	83	280	235	380	450	215	270	250	305	375
56	**55,14**	27	83	245	230	370	440	210	265	245	300	365
63	**64,48**	23	83	210	220	345	410	210	255	230	275	335
71	**73,13**	21	83	185	215	340	400	205	250	225	270	330
80	**79,88**	19	83	170	220	335	395	205	250	220	265	325
90	**90,59**	17	83	150	215	330	390	200	240	215	260	315
100	**99,49**	15	83	140	170	---	---	170	---	175	---	---
112	**112,83**	13	83	120	170	---	---	165	---	175	---	---
125	**123,25**	12	83	110	170	---	---	165	---	170	---	---
140	**139,78**	11	83	98	165	---	---	160	---	170	---	---
160	**152,34**	9,8	83	90	155	---	---	150	---	160	---	---
180	**172,77**	8,7	83	79	150	---	---	150	---	155	---	---
200	**199,92**	7,5	83	68	140	---	---	140	---	140	---	---
224	**226,73**	6,6	83	60	140	---	---	135	---	140	---	---
250	**247,66**	6,1	83	55	140	---	---	135	---	140	---	---
280	**280,87**	5,3	83	49	135	---	---	135	---	135	---	---
315	**306,12**	4,9	83	45	125	---	---	125	---	125	---	---
355	**347,17**	4,3	83	39	125	---	---	120	---	125	---	---
XF200e..,n_1= 1800 1/min												83 kNm
6,3	**6,44**	280	77	2300	145	810	1050	0	185	205	530	850
7,1	**7,31**	246	82,5	2200	165	800	1050	0	230	230	560	860
8	**7,98**	226	78,4	1900	225	830	1050	0	310	270	590	870
9	**9,05**	199	83	1750	230	820	1050	16	340	280	590	870
10	**10,09**	178	80	1550	265	820	1000	110	395	305	600	850
11,2	**11,44**	157	83	1400	270	800	990	130	405	315	590	840
12,5	**12,69**	142	81,7	1250	310	830	1000	170	450	340	610	850
14	**14,39**	125	83	1100	310	810	980	175	450	345	600	830
16	**16,28**	111	83	980	320	780	940	195	450	340	580	790
18	**18,47**	97	83	870	315	760	910	205	445	340	570	770
20	**20,73**	87	83	780	200	475	590	140	275	290	415	520
22,4	**23,51**	77	83	690	205	470	590	145	275	290	410	520
25	**25,94**	69	83	630	200	450	560	145	265	275	390	490
28	**29,41**	61	83	550	200	440	550	145	265	275	385	480
31,5	**32,13**	56	83	510	205	445	550	150	265	275	380	475
35,5	**36,44**	49	83	445	205	440	530	150	265	270	375	465
40	**39,25**	46	83	415	225	435	520	195	295	260	355	440
45	**44,51**	40	83	365	225	425	510	195	290	255	350	430
50	**48,62**	37	83	335	225	425	510	195	290	255	345	425
56	**55,14**	33	83	295	225	415	495	190	285	250	340	415
63	**64,48**	28	83	250	225	390	465	205	285	235	310	380
71	**73,13**	25	83	220	220	380	455	200	280	230	305	370
80	**79,88**	23	83	205	220	380	450	200	275	225	300	370
90	**90,59**	20	83	180	215	370	440	195	270	220	295	360
100	**99,49**	18	83	165	175	---	---	170	---	185	---	---
112	**112,83**	16	83	145	170	---	---	170	---	180	---	---
125	**123,25**	15	83	135	170	---	---	165	---	180	---	---
140	**139,78**	13	83	115	165	---	---	165	---	175	---	---
160	**152,34**	12	83	110	155	---	---	155	---	165	---	---
180	**172,77**	10	83	95	155	---	---	150	---	160	---	---
200	**199,92**	9	83	82	150	---	---	145	---	150	---	---
224	**226,73**	7,9	83	72	145	---	---	140	---	145	---	---
250	**247,66**	7,3	83	66	145	---	---	140	---	145	---	---
280	**280,87**	6,4	83	58	140	---	---	140	---	140	---	---
315	**306,12**	5,9	83	54	130	---	---	130	---	130	---	---
355	**347,17**	5,2	83	47	130	---	---	125	---	130	---	---

30593506/EN – 07/2023

XF210e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,29**	137	87,5	1300	420	790	960	330	470	435	580	800
8	**8,26**	121	94	1200	410	760	930	335	470	430	570	780
9	**9,04**	111	89,1	1050	420	750	910	355	485	435	560	760
10	**10,24**	98	95,6	1000	410	730	870	355	475	425	550	740
11,2	**11,42**	88	90,9	850	405	700	840	355	470	415	530	700
12,5	**12,93**	77	96	800	395	680	810	350	460	405	510	680
14	**14,37**	70	92,9	690	400	680	810	360	470	410	520	680
16	**16,27**	61	96	630	385	660	780	355	455	400	500	660
18	**18,44**	54	94,6	550	360	630	740	345	435	380	475	620
20	**20,88**	48	96	495	350	600	710	335	425	370	460	600
22,4	**23,47**	43	96	445	280	365	440	265	295	300	330	365
25	**26,57**	38	96	395	275	355	430	260	290	295	325	355
28	**29,37**	34	96	355	260	335	405	245	275	280	305	335
31,5	**33,25**	30	96	315	260	330	390	245	270	275	300	325
35,5	**36,38**	27	96	285	260	330	390	240	270	270	295	320
40	**41,19**	24	96	255	255	320	380	235	265	265	290	315
45	**44,44**	23	96	235	245	305	360	230	255	245	270	295
50	**50,32**	20	96	205	240	295	350	225	250	240	265	285
56	**55,06**	18	95,8	190	235	295	350	225	245	240	260	285
63	**62,33**	16	96	165	230	290	340	220	240	235	255	275
71	**73,02**	14	95,5	140	215	265	310	205	225	215	235	250
80	**82,67**	12	96	125	210	260	305	200	220	210	225	245
90	**90,45**	11	95,3	115	205	255	300	200	215	205	225	245
100	**102,41**	9,8	95,5	100	200	250	295	195	210	200	220	240
112	**112,66**	8,9	95,3	93	165	---	---	160	---	165	---	---
125	**127,55**	7,8	95,8	83	160	---	---	160	---	160	---	---
140	**139,56**	7,2	95	75	160	---	---	155	---	160	---	---
160	**158,01**	6,3	95,5	66	155	---	---	155	---	155	---	---
180	**172,51**	5,8	94,7	60	145	---	---	145	---	145	---	---
200	**195,31**	5,1	95,3	54	145	---	---	140	---	145	---	---
224	**226,38**	4,4	94,4	46	130	---	---	130	---	130	---	---
250	**256,3**	3,9	95,3	41	130	---	---	125	---	125	---	---
280	**280,44**	3,6	94,2	37	130	---	---	125	---	125	---	---
315	**317,51**	3,1	95	33	125	---	---	125	---	125	---	---
355	**346,64**	2,9	94	30	120	---	---	115	---	115	---	---
400	**392,45**	2,5	94,8	27	115	---	---	115	---	115	---	---
XF210e..,n_1= 1200 1/min												96 kNm
7,1	**7,29**	165	87,5	1550	370	830	1000	235	440	395	600	850
8	**8,26**	145	94	1450	370	810	990	245	450	400	590	830
9	**9,04**	133	89,1	1250	390	800	980	290	485	410	590	820
10	**10,24**	117	95,6	1200	380	780	940	295	480	405	580	800
11,2	**11,42**	105	90,9	1000	390	760	910	315	480	400	560	760
12,5	**12,93**	93	96	960	380	730	880	315	475	395	550	740
14	**14,37**	84	92,9	830	395	740	880	335	490	405	560	740
16	**16,27**	74	96	760	380	720	850	330	480	400	540	720
18	**18,44**	65	94,6	660	355	680	810	325	460	380	520	680
20	**20,88**	57	96	590	350	660	780	315	450	375	500	660
22,4	**23,47**	51	96	530	275	405	495	250	285	305	335	415
25	**26,57**	45	96	470	270	400	480	245	280	300	330	405
28	**29,37**	41	96	425	255	375	455	235	265	285	315	380
31,5	**33,25**	36	96	375	250	370	440	230	260	280	305	370
35,5	**36,38**	33	96	345	255	370	440	235	260	275	305	370
40	**41,19**	29	96	305	250	360	430	230	255	270	300	360
45	**44,44**	27	96	280	245	345	410	230	255	255	280	335
50	**50,32**	24	96	250	240	335	400	230	250	250	275	330
56	**55,06**	22	95,8	225	240	335	395	225	250	250	270	325
63	**62,33**	19	96	200	235	325	390	220	245	240	265	315
71	**73,02**	16	95,5	170	220	300	355	210	230	220	245	290
80	**82,67**	15	96	150	215	295	345	205	225	215	235	285
90	**90,45**	13	95,3	135	215	290	345	205	225	215	235	280
100	**102,41**	12	95,5	120	210	285	335	200	220	210	230	275
112	**112,66**	11	95,3	110	170	---	---	165	---	170	---	---
125	**127,55**	9,4	95,8	99	165	---	---	165	---	170	---	---
140	**139,56**	8,6	95	90	165	---	---	160	---	170	---	---
160	**158,01**	7,6	95,5	80	165	---	---	160	---	165	---	---
180	**172,51**	7	94,7	72	150	---	---	150	---	155	---	---
200	**195,31**	6,1	95,3	64	150	---	---	145	---	150	---	---
224	**226,38**	5,3	94,4	55	140	---	---	135	---	135	---	---
250	**256,3**	4,7	95,3	49	135	---	---	130	---	135	---	---
280	**280,44**	4,3	94,2	44	135	---	---	130	---	130	---	---
315	**317,51**	3,8	95	39	130	---	---	130	---	130	---	---
355	**346,64**	3,5	94	36	125	---	---	120	---	120	---	---
400	**392,45**	3,1	94,8	32	120	---	---	120	---	120	---	---

30593506/EN – 07/2023

XF210e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,29**	206	87,5	1950	275	850	1050	43	335	305	590	880
8	**8,26**	182	94	1850	275	830	1050	91	360	320	600	870
9	**9,04**	166	89,1	1600	315	850	1050	175	430	355	610	870
10	**10,24**	146	95,6	1500	320	820	1000	190	440	360	610	860
11,2	**11,42**	131	90,9	1300	345	810	990	225	465	370	600	830
12,5	**12,93**	116	96	1200	340	790	960	235	465	370	590	810
14	**14,37**	104	92,9	1050	365	800	970	270	495	385	600	820
16	**16,27**	92	96	950	360	780	940	270	485	380	590	790
18	**18,44**	81	94,6	830	355	750	890	275	475	370	560	750
20	**20,88**	72	96	740	335	730	860	275	465	365	550	730
22,4	**23,47**	64	96	670	250	455	560	210	290	305	380	480
25	**26,57**	56	96	590	250	445	550	210	285	300	375	470
28	**29,37**	51	96	530	240	425	520	200	275	285	355	440
31,5	**33,25**	45	96	470	235	415	510	200	270	280	350	435
35,5	**36,38**	41	96	430	240	420	510	200	270	280	350	430
40	**41,19**	36	96	380	235	410	495	200	265	275	340	420
45	**44,44**	34	96	350	240	400	475	220	285	265	320	395
50	**50,32**	30	96	310	240	390	465	220	275	260	315	385
56	**55,06**	27	95,8	285	240	390	460	220	275	255	310	380
63	**62,33**	24	96	250	235	380	450	215	270	250	305	370
71	**73,02**	21	95,5	215	225	355	420	215	260	230	280	340
80	**82,67**	18	96	190	220	345	405	210	255	225	275	335
90	**90,45**	17	95,3	170	220	340	405	205	255	225	270	330
100	**102,41**	15	95,5	150	215	335	395	200	245	220	265	320
112	**112,66**	13	95,3	140	175	---	---	170	---	180	---	---
125	**127,55**	12	95,8	125	170	---	---	170	---	175	---	---
140	**139,56**	11	95	110	170	---	---	170	---	175	---	---
160	**158,01**	9,5	95,5	100	170	---	---	165	---	170	---	---
180	**172,51**	8,7	94,7	90	155	---	---	155	---	160	---	---
200	**195,31**	7,7	95,3	80	155	---	---	150	---	160	---	---
224	**226,38**	6,6	94,4	69	145	---	---	140	---	145	---	---
250	**256,3**	5,9	95,3	61	140	---	---	140	---	140	---	---
280	**280,44**	5,3	94,2	55	140	---	---	140	---	140	---	---
315	**317,51**	4,7	95	49	140	---	---	135	---	135	---	---
355	**346,64**	4,3	94	45	130	---	---	125	---	130	---	---
400	**392,45**	3,8	94,8	40	125	---	---	125	---	125	---	---
XF210e..,n_1= 1800 1/min												**96 kNm**
7,1	**7,29**	247	87,5	2300	155	830	1100	0	195	215	550	870
8	**8,26**	218	94	2200	180	820	1050	0	240	240	570	880
9	**9,04**	199	89,1	1900	240	860	1100	0	330	280	610	900
10	**10,24**	176	95,6	1800	245	840	1050	31	355	290	610	890
11,2	**11,42**	158	90,9	1550	280	840	1050	125	410	320	610	870
12,5	**12,93**	139	96	1450	280	820	1000	140	420	325	610	850
14	**14,37**	125	92,9	1250	325	850	1050	180	465	355	630	870
16	**16,27**	111	96	1150	320	820	1000	185	465	355	620	850
18	**18,44**	98	94,6	990	330	800	960	210	465	350	590	810
20	**20,88**	86	96	890	315	770	930	215	460	350	580	780
22,4	**23,47**	77	96	800	210	490	610	150	285	295	425	540
25	**26,57**	68	96	710	210	480	600	155	285	295	420	530
28	**29,37**	61	96	640	210	460	570	155	275	280	395	500
31,5	**33,25**	54	96	560	205	450	560	155	270	280	390	490
35,5	**36,38**	49	96	520	215	455	560	160	275	280	390	485
40	**41,19**	44	96	455	210	450	550	155	270	275	385	475
45	**44,44**	41	96	420	230	445	530	200	305	265	365	445
50	**50,32**	36	96	375	230	435	520	200	300	260	355	435
56	**55,06**	33	95,8	340	230	435	520	200	300	260	355	430
63	**62,33**	29	96	300	230	420	510	195	290	255	345	420
71	**73,02**	25	95,5	255	230	400	475	210	290	240	320	390
80	**82,67**	22	96	225	225	390	460	205	285	235	310	380
90	**90,45**	20	95,3	205	225	390	460	205	280	230	310	375
100	**102,41**	18	95,5	180	220	380	445	200	275	225	300	365
112	**112,66**	16	95,3	165	180	---	---	175	---	185	---	---
125	**127,55**	14	95,8	150	175	---	---	170	---	185	---	---
140	**139,56**	13	95	135	175	---	---	170	---	180	---	---
160	**158,01**	11	95,5	120	170	---	---	165	---	180	---	---
180	**172,51**	10	94,7	110	160	---	---	155	---	165	---	---
200	**195,31**	9,2	95,3	97	155	---	---	155	---	165	---	---
224	**226,38**	8	94,4	82	150	---	---	145	---	150	---	---
250	**256,3**	7	95,3	74	145	---	---	145	---	150	---	---
280	**280,44**	6,4	94,2	66	145	---	---	145	---	145	---	---
315	**317,51**	5,7	95	59	145	---	---	140	---	145	---	---
355	**346,64**	5,2	94	54	135	---	---	130	---	135	---	---
400	**392,45**	4,6	94,8	48	130	---	---	130	---	130	---	---

30593506/EN – 07/2023

XF220e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							117 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,42**	156	108,5	1800	540	990	1200	290	485	540	720	990
7,1	**7,08**	141	113,9	1750	530	960	1150	295	480	540	700	960
8	**7,97**	125	110,2	1500	520	910	1100	330	495	520	670	910
9	**8,8**	114	114,2	1400	500	880	1050	330	490	510	660	880
10	**10,06**	99	112,8	1200	520	890	1050	365	520	520	670	890
11,2	**11,1**	90	115	1100	510	860	1050	360	510	510	650	860
12,5	**12,61**	79	114,5	970	510	850	1000	450	580	520	650	850
14	**13,92**	72	115,4	890	500	830	970	440	570	510	630	830
16	**16,21**	62	116,9	770	465	770	910	425	540	480	590	770
18	**17,89**	56	116,2	700	440	750	880	415	520	470	580	750
20	**20,46**	49	114,8	610	365	470	570	360	400	410	450	490
22,4	**22,58**	44	115	550	360	460	550	355	390	400	440	480
25	**25,06**	40	115,8	500	340	435	520	330	370	375	410	450
28	**27,66**	36	114,6	450	330	425	510	325	360	370	405	440
31,5	**30,96**	32	117	410	315	400	475	310	340	350	380	415
35,5	**34,16**	29	114,5	365	310	390	465	305	335	340	375	405
40	**40,46**	25	115,8	310	310	385	455	305	330	325	355	380
45	**44,65**	22	113,2	275	300	375	445	295	325	315	345	370
50	**49,96**	20	117	255	285	355	420	280	305	300	325	350
56	**55,14**	18	113,3	225	280	345	410	275	300	290	315	345
63	**64,28**	16	115,8	195	270	335	395	265	290	280	300	325
71	**70,94**	14	112,3	170	265	325	385	260	285	270	295	320
80	**79,39**	13	117	160	250	310	360	245	270	255	280	300
90	**87,62**	11	112,3	140	245	300	355	240	260	250	270	295
100	**101,26**	9,9	115,8	125	220	---	---	220	---	220	---	---
112	**111,76**	8,9	111,5	110	215	---	---	215	---	215	---	---
125	**125,06**	8	116,4	100	205	---	---	205	---	205	---	---
140	**138,02**	7,2	111,6	89	200	---	---	200	---	200	---	---
160	**158,12**	6,3	116,1	81	180	---	---	175	---	180	---	---
180	**174,51**	5,7	111,3	70	175	---	---	170	---	175	---	---
200	**201,61**	5	115,8	63	180	---	---	180	---	180	---	---
224	**222,51**	4,5	110,5	55	180	---	---	175	---	175	---	---
250	**248,99**	4	115,4	51	170	---	---	165	---	165	---	---
280	**274,8**	3,6	110,8	44	165	---	---	160	---	165	---	---
315	**314,81**	3,2	115,1	40	145	---	---	145	---	145	---	---
355	**347,45**	2,9	110,5	35	145	---	---	140	---	140	---	---
XF220e..,n_1= 1200 1/min												117 kNm
6,3	**6,42**	187	108,5	2200	470	1050	1250	125	375	475	730	1050
7,1	**7,08**	169	113,9	2050	460	1000	1250	150	385	475	720	1000
8	**7,97**	151	110,2	1800	475	960	1150	210	435	480	700	970
9	**8,8**	136	114,2	1650	460	940	1150	215	435	475	690	950
10	**10,06**	119	112,8	1450	495	950	1150	265	490	500	710	950
11,2	**11,1**	108	115	1350	485	930	1100	265	480	495	690	930
12,5	**12,61**	95	114,5	1150	510	920	1100	420	600	520	700	930
14	**13,92**	86	115,4	1050	495	900	1050	410	590	510	690	900
16	**16,21**	74	116,9	930	470	850	1000	400	570	480	640	840
18	**17,89**	67	116,2	840	445	820	970	395	550	470	630	820
20	**20,46**	59	114,8	730	350	520	630	340	385	420	460	560
22,4	**22,58**	53	115	660	345	510	620	335	380	410	450	550
25	**25,06**	48	115,8	600	325	480	580	320	355	385	425	510
28	**27,66**	43	114,6	540	320	470	570	315	350	380	415	500
31,5	**30,96**	39	117	495	305	445	530	295	335	360	395	475
35,5	**34,16**	35	114,5	435	300	435	520	290	325	350	385	460
40	**40,46**	30	115,8	375	310	435	510	305	335	335	370	440
45	**44,65**	27	113,2	330	305	425	500	295	330	330	360	425
50	**49,96**	24	117	305	285	400	475	280	310	310	340	405
56	**55,14**	22	113,3	270	280	390	460	275	305	305	330	395
63	**64,28**	19	115,8	235	275	380	450	275	300	290	315	375
71	**70,94**	17	112,3	205	270	370	440	265	295	285	310	365
80	**79,39**	15	117	190	255	350	415	255	275	270	290	345
90	**87,62**	14	112,3	165	250	340	405	245	270	260	285	340
100	**101,26**	12	115,8	150	230	---	---	225	---	230	---	---
112	**111,76**	11	111,5	130	225	---	---	220	---	225	---	---
125	**125,06**	9,6	116,4	125	215	---	---	210	---	215	---	---
140	**138,02**	8,7	111,6	105	210	---	---	205	---	210	---	---
160	**158,12**	7,6	116,1	97	185	---	---	185	---	185	---	---
180	**174,51**	6,9	111,3	84	180	---	---	180	---	185	---	---
200	**201,61**	6	115,8	76	190	---	---	190	---	190	---	---
224	**222,51**	5,4	110,5	65	185	---	---	185	---	185	---	---
250	**248,99**	4,8	115,4	61	175	---	---	175	---	175	---	---
280	**274,8**	4,4	110,8	53	175	---	---	170	---	170	---	---
315	**314,81**	3,8	115,1	48	155	---	---	150	---	150	---	---
355	**347,45**	3,5	110,5	42	150	---	---	150	---	150	---	---

30593506/EN – 07/2023

XF220e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							117 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,42**	234	108,5	2700	345	1050	1350	0	145	340	680	1050
7,1	**7,08**	212	113,9	2600	340	1050	1300	0	180	355	690	1050
8	**7,97**	188	110,2	2250	370	1000	1250	0	285	380	700	1000
9	**8,8**	170	114,2	2100	365	980	1200	0	295	385	700	1000
10	**10,06**	149	112,8	1800	430	1000	1250	57	380	440	730	1000
11,2	**11,1**	135	115	1650	420	990	1200	73	385	435	720	1000
12,5	**12,61**	119	114,5	1450	475	1000	1200	325	610	495	760	1000
14	**13,92**	108	115,4	1350	465	980	1150	325	600	490	740	990
16	**16,21**	93	116,9	1150	455	930	1100	335	580	470	700	930
18	**17,89**	84	116,2	1050	445	900	1050	335	570	465	690	910
20	**20,46**	73	114,8	910	305	570	700	295	400	425	520	650
22,4	**22,58**	66	115	830	300	560	690	295	395	415	510	630
25	**25,06**	60	115,8	750	290	530	650	280	375	395	485	600
28	**27,66**	54	114,6	680	285	520	640	280	370	385	475	580
31,5	**30,96**	48	117	620	270	495	600	265	350	370	450	550
35,5	**34,16**	44	114,5	550	270	485	590	265	345	360	440	540
40	**40,46**	37	115,8	465	300	495	590	290	370	350	425	510
45	**44,65**	34	113,2	415	295	485	580	285	360	340	415	500
50	**49,96**	30	117	380	280	460	550	275	340	325	390	475
56	**55,14**	27	113,3	335	275	445	530	270	335	315	380	460
63	**64,28**	23	115,8	295	280	440	520	275	335	305	365	440
71	**70,94**	21	112,3	260	275	430	510	270	330	295	355	430
80	**79,39**	19	117	240	260	405	480	255	310	280	335	405
90	**87,62**	17	112,3	210	255	395	470	250	305	275	330	400
100	**101,26**	15	115,8	190	240	---	---	235	---	245	---	---
112	**111,76**	13	111,5	165	235	---	---	230	---	240	---	---
125	**125,06**	12	116,4	155	220	---	---	220	---	230	---	---
140	**138,02**	11	111,6	135	215	---	---	215	---	225	---	---
160	**158,12**	9,5	116,1	120	195	---	---	190	---	200	---	---
180	**174,51**	8,6	111,3	105	190	---	---	190	---	195	---	---
200	**201,61**	7,4	115,8	95	200	---	---	200	---	200	---	---
224	**222,51**	6,7	110,5	82	200	---	---	195	---	195	---	---
250	**248,99**	6	115,4	76	185	---	---	185	---	185	---	---
280	**274,8**	5,5	110,8	66	185	---	---	180	---	180	---	---
315	**314,81**	4,8	115,1	60	160	---	---	160	---	160	---	---
355	**347,45**	4,3	110,5	52	160	---	---	155	---	160	---	---
XF220e..,n_1= 1800 1/min												117 kNm
6,3	**6,42**	280	108,5	3250	150	1050	1350	0	0	140	570	990
7,1	**7,08**	254	113,9	3100	175	1000	1300	0	0	190	600	1000
8	**7,97**	226	110,2	2650	275	1000	1300	0	33	275	660	1000
9	**8,8**	205	114,2	2500	270	990	1250	0	73	290	660	1000
10	**10,06**	179	112,8	2150	330	1050	1300	0	215	340	720	1050
11,2	**11,1**	162	115	2000	325	1000	1250	0	225	345	720	1050
12,5	**12,61**	143	114,5	1750	425	1050	1300	210	560	455	790	1100
14	**13,92**	129	115,4	1600	415	1050	1250	215	560	450	770	1050
16	**16,21**	111	116,9	1400	425	980	1200	240	560	445	740	1000
18	**17,89**	101	116,2	1250	415	960	1150	245	550	440	720	970
20	**20,46**	88	114,8	1100	235	600	760	230	410	420	580	730
22,4	**22,58**	80	115	1000	235	590	740	230	405	415	570	710
25	**25,06**	72	115,8	900	230	560	700	225	390	395	540	670
28	**27,66**	65	114,6	810	230	550	690	225	385	385	530	660
31,5	**30,96**	58	117	740	225	530	660	220	370	370	500	620
35,5	**34,16**	53	114,5	660	220	520	640	220	365	365	495	610
40	**40,46**	44	115,8	560	280	550	660	270	395	355	480	580
45	**44,65**	40	113,2	495	275	530	640	265	390	350	470	570
50	**49,96**	36	117	460	260	510	610	255	370	330	445	540
56	**55,14**	33	113,3	400	255	495	590	250	365	325	435	530
63	**64,28**	28	115,8	350	275	490	580	270	375	315	415	500
71	**70,94**	25	112,3	310	270	480	570	265	365	305	405	490
80	**79,39**	23	117	290	255	455	540	250	345	290	385	465
90	**87,62**	21	112,3	250	250	445	530	245	335	285	375	450
100	**101,26**	18	115,8	225	240	---	---	240	---	255	---	---
112	**111,76**	16	111,5	195	235	---	---	235	---	250	---	---
125	**125,06**	14	116,4	185	225	---	---	225	---	240	---	---
140	**138,02**	13	111,6	160	220	---	---	220	---	235	---	---
160	**158,12**	11	116,1	145	195	---	---	195	---	205	---	---
180	**174,51**	10	111,3	125	195	---	---	195	---	205	---	---
200	**201,61**	8,9	115,8	115	210	---	---	205	---	210	---	---
224	**222,51**	8,1	110,5	98	205	---	---	200	---	205	---	---
250	**248,99**	7,2	115,4	92	195	---	---	190	---	195	---	---
280	**274,8**	6,6	110,8	80	190	---	---	185	---	190	---	---
315	**314,81**	5,7	115,1	72	170	---	---	165	---	170	---	---
355	**347,45**	5,2	110,5	63	165	---	---	160	---	165	---	---

30593506/EN – 07/2023

XF230e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							134 kNm
					M1			M5		M4		
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,27**	138	121,8	1800	550	1000	1200	300	500	550	730	1000
8	**7,98**	125	129,4	1750	540	980	1200	310	500	550	720	990
9	**9,03**	111	123,7	1450	530	920	1100	340	510	530	680	920
10	**9,91**	101	131,3	1400	510	900	1100	345	510	520	670	910
11,2	**11,39**	88	126,6	1200	530	900	1100	380	530	530	680	900
12,5	**12,5**	80	134	1150	520	880	1050	375	530	530	660	880
14	**14,28**	70	128,5	970	520	870	1000	460	590	530	660	870
16	**15,68**	64	134	920	500	850	1000	455	580	520	650	850
18	**18,36**	54	131,2	770	460	790	920	430	550	490	600	780
20	**20,16**	50	134	710	450	770	900	425	540	480	590	770
22,4	**23,17**	43	128,9	600	375	480	580	370	410	420	460	500
25	**25,44**	39	133,5	570	370	475	570	360	400	410	450	490
28	**28,38**	35	129,9	495	345	440	530	340	375	385	420	455
31,5	**31,17**	32	132,7	460	340	435	520	335	370	375	415	450
35,5	**35,05**	29	132,2	410	320	410	485	315	350	355	390	420
40	**38,49**	26	132,7	375	315	400	475	310	345	350	380	415
45	**45,81**	22	129,9	310	315	390	460	310	340	330	360	390
50	**50,3**	20	131,3	285	310	385	455	305	330	325	350	380
56	**56,58**	18	132,2	255	290	360	425	285	310	305	330	360
63	**62,12**	16	131,3	230	285	355	420	280	305	300	325	350
71	**72,79**	14	129,9	195	275	340	400	275	300	285	305	330
80	**79,92**	13	130,1	175	270	335	395	265	290	275	300	325
90	**89,89**	11	132,2	160	255	315	370	250	275	260	285	305
100	**98,71**	10	130,1	145	250	310	360	245	270	255	280	300
112	**114,66**	8,7	129,9	125	225	---	---	220	---	225	---	---
125	**125,9**	7,9	129	115	220	---	---	220	---	220	---	---
140	**141,61**	7,1	132,2	105	210	---	---	205	---	210	---	---
160	**155,49**	6,4	129,3	91	205	---	---	205	---	205	---	---
180	**179,04**	5,6	132,2	81	180	---	---	180	---	180	---	---
200	**196,6**	5,1	129	72	180	---	---	175	---	180	---	---
224	**228,29**	4,4	129,9	63	185	---	---	180	---	185	---	---
250	**250,68**	4	127,9	56	180	---	---	180	---	180	---	---
280	**281,94**	3,5	132,2	52	170	---	---	170	---	170	---	---
315	**309,59**	3,2	128,5	46	170	---	---	165	---	165	---	---
355	**356,48**	2,8	132,2	41	150	---	---	145	---	145	---	---
400	**391,43**	2,6	127,9	36	145	---	---	145	---	145	---	---
XF230e..,n_1= 1200 1/min												**134 kNm**
7,1	**7,27**	165	121,8	2150	480	1050	1300	135	390	485	740	1050
8	**7,98**	150	129,4	2100	475	1050	1250	155	405	490	740	1050
9	**9,03**	133	123,7	1750	485	980	1200	220	450	490	710	980
10	**9,91**	121	131,3	1700	475	960	1150	225	455	490	700	970
11,2	**11,39**	105	126,6	1450	510	970	1150	275	500	510	720	970
12,5	**12,5**	96	134	1400	495	950	1150	280	500	510	710	950
14	**14,28**	84	128,5	1150	520	940	1100	430	620	530	720	940
16	**15,68**	77	134	1100	500	920	1100	425	610	520	700	930
18	**18,36**	65	131,2	920	460	860	1000	410	580	490	660	860
20	**20,16**	60	134	860	450	840	990	405	570	485	640	840
22,4	**23,17**	52	128,9	730	360	530	640	350	395	430	470	570
25	**25,44**	47	133,5	680	355	520	630	345	390	420	460	560
28	**28,38**	42	129,9	600	330	490	590	325	365	395	430	520
31,5	**31,17**	38	132,7	550	330	480	580	320	360	390	425	510
35,5	**35,05**	34	132,2	490	310	455	540	305	340	365	400	480
40	**38,49**	31	132,7	450	305	445	530	300	335	360	395	470
45	**45,81**	26	129,9	370	315	440	520	310	340	345	375	445
50	**50,3**	24	131,3	340	310	435	510	305	335	335	365	435
56	**56,58**	21	132,2	305	295	405	480	285	315	315	345	410
63	**62,12**	19	131,3	275	290	400	475	280	310	310	340	400
71	**72,79**	16	129,9	235	280	390	455	280	305	295	320	380
80	**79,92**	15	130,1	210	280	380	450	275	300	290	315	375
90	**89,89**	13	132,2	190	260	355	420	255	280	270	295	350
100	**98,71**	12	130,1	170	255	350	410	255	275	270	290	345
112	**114,66**	10	129,9	150	235	---	---	230	---	235	---	---
125	**125,9**	9,5	129	135	230	---	---	225	---	235	---	---
140	**141,61**	8,5	132,2	125	215	---	---	215	---	220	---	---
160	**155,49**	7,7	129,3	110	215	---	---	210	---	215	---	---
180	**179,04**	6,7	132,2	97	190	---	---	185	---	190	---	---
200	**196,6**	6,1	129	87	185	---	---	185	---	185	---	---
224	**228,29**	5,3	129,9	75	195	---	---	190	---	195	---	---
250	**250,68**	4,8	127,9	67	190	---	---	190	---	190	---	---
280	**281,94**	4,3	132,2	62	180	---	---	175	---	180	---	---
315	**309,59**	3,9	128,5	55	175	---	---	175	---	175	---	---
355	**356,48**	3,4	132,2	49	155	---	---	155	---	155	---	---
400	**391,43**	3,1	127,9	43	155	---	---	150	---	150	---	---

30593506/EN – 07/2023

XF230e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							134 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,27**	206	121,8	2700	340	1100	1350	0	155	340	700	1050
8	**7,98**	188	129,4	2600	345	1050	1350	0	190	360	710	1050
9	**9,03**	166	123,7	2200	380	1050	1250	0	300	385	720	1050
10	**9,91**	151	131,3	2150	375	1000	1250	0	310	395	710	1000
11,2	**11,39**	132	126,6	1800	440	1050	1250	71	395	450	750	1050
12,5	**12,5**	120	134	1750	430	1000	1250	86	400	450	740	1000
14	**14,28**	105	128,5	1450	485	1000	1250	335	620	510	770	1050
16	**15,68**	96	134	1400	475	1000	1200	340	610	500	760	1000
18	**18,36**	82	131,2	1150	460	940	1150	350	600	480	720	950
20	**20,16**	74	134	1050	430	920	1100	345	590	475	700	930
22,4	**23,17**	65	128,9	910	315	590	720	305	410	435	530	660
25	**25,44**	59	133,5	860	310	580	710	305	405	425	530	650
28	**28,38**	53	129,9	750	300	540	670	290	385	400	490	610
31,5	**31,17**	48	132,7	690	295	530	650	290	380	395	485	600
35,5	**35,05**	43	132,2	610	280	500	620	275	360	375	460	560
40	**38,49**	39	132,7	560	275	495	600	270	355	370	450	550
45	**45,81**	33	129,9	460	305	510	600	300	375	355	430	520
50	**50,3**	30	131,3	425	300	495	590	295	370	350	425	510
56	**56,58**	27	132,2	380	285	465	560	280	350	330	400	480
63	**62,12**	24	131,3	345	285	460	550	275	345	325	390	475
71	**72,79**	21	129,9	290	285	450	530	280	345	310	370	450
80	**79,92**	19	130,1	265	280	440	520	275	335	305	365	440
90	**89,89**	17	132,2	240	265	415	490	260	320	285	345	415
100	**98,71**	15	130,1	215	260	405	480	255	310	280	335	410
112	**114,66**	13	129,9	185	240	---	---	240	---	250	---	---
125	**125,9**	12	129	170	240	---	---	235	---	245	---	---
140	**141,61**	11	132,2	155	225	---	---	225	---	230	---	---
160	**155,49**	9,6	129,3	135	220	---	---	220	---	230	---	---
180	**179,04**	8,4	132,2	120	195	---	---	195	---	200	---	---
200	**196,6**	7,6	129	110	195	---	---	190	---	200	---	---
224	**228,29**	6,6	129,9	94	205	---	---	200	---	205	---	---
250	**250,68**	6	127,9	84	200	---	---	200	---	200	---	---
280	**281,94**	5,3	132,2	77	190	---	---	185	---	190	---	---
315	**309,59**	4,8	128,5	68	185	---	---	185	---	185	---	---
355	**356,48**	4,2	132,2	61	165	---	---	160	---	165	---	---
400	**391,43**	3,8	127,9	54	160	---	---	160	---	160	---	---
XF230e..,n_1= 1800 1/min												134 kNm
7,1	**7,27**	248	121,8	3250	130	1050	1350	0	0	130	580	1000
8	**7,98**	226	129,4	3150	160	1050	1350	0	0	185	610	1000
9	**9,03**	199	123,7	2650	280	1050	1300	0	50	275	670	1050
10	**9,91**	182	131,3	2550	280	1000	1300	0	87	295	680	1050
11,2	**11,39**	158	126,6	2150	340	1050	1300	0	230	350	740	1050
12,5	**12,5**	144	134	2050	335	1050	1300	0	245	355	730	1050
14	**14,28**	126	128,5	1750	435	1100	1300	220	580	465	800	1100
16	**15,68**	115	134	1650	425	1050	1300	225	570	460	790	1100
18	**18,36**	98	131,2	1400	430	1000	1200	255	580	455	750	1000
20	**20,16**	89	134	1300	420	980	1200	260	570	450	740	1000
22,4	**23,17**	78	128,9	1100	245	620	780	240	420	430	600	740
25	**25,44**	71	133,5	1050	245	610	770	240	420	425	590	730
28	**28,38**	63	129,9	900	240	580	720	235	400	400	550	680
31,5	**31,17**	58	132,7	830	240	570	710	235	395	395	540	670
35,5	**35,05**	51	132,2	740	230	540	670	230	380	375	510	630
40	**38,49**	47	132,7	670	230	530	660	230	375	370	510	630
45	**45,81**	39	129,9	550	285	560	670	280	405	360	485	590
50	**50,3**	36	131,3	510	285	550	660	275	400	355	480	580
56	**56,58**	32	132,2	455	270	520	620	260	380	335	450	550
63	**62,12**	29	131,3	415	265	510	610	255	375	330	445	540
71	**72,79**	25	129,9	350	280	500	590	275	380	320	420	510
80	**79,92**	23	130,1	320	275	490	590	270	375	315	415	500
90	**89,89**	20	132,2	290	260	465	550	255	355	295	390	470
100	**98,71**	18	130,1	260	255	455	540	255	345	290	385	465
112	**114,66**	16	129,9	225	245	---	---	245	---	260	---	---
125	**125,9**	14	129	205	240	---	---	240	---	255	---	---
140	**141,61**	13	132,2	185	230	---	---	230	---	240	---	---
160	**155,49**	12	129,3	165	225	---	---	225	---	240	---	---
180	**179,04**	10	132,2	145	200	---	---	200	---	210	---	---
200	**196,6**	9,2	129	130	200	---	---	195	---	205	---	---
224	**228,29**	7,9	129,9	115	215	---	---	210	---	215	---	---
250	**250,68**	7,2	127,9	100	210	---	---	205	---	210	---	---
280	**281,94**	6,4	132,2	93	200	---	---	195	---	200	---	---
315	**309,59**	5,8	128,5	82	195	---	---	190	---	195	---	---
355	**356,48**	5	132,2	73	170	---	---	170	---	170	---	---
400	**391,43**	4,6	127,9	65	170	---	---	165	---	170	---	---

30593506/EN – 07/2023

XF240e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							165 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,3**	159	164,2	2800	570	1150	1450	255	470	620	850	1200
7,1	**7,26**	138	165	2450	540	1100	1350	270	475	610	820	1150
8	**8,01**	125	165	2200	580	1100	1300	330	530	610	790	1100
9	**9,22**	108	165	1900	550	1050	1250	325	520	590	770	1050
10	**10,14**	99	165	1750	610	1100	1300	400	590	630	810	1100
11,2	**11,67**	86	165	1500	580	1050	1250	390	570	600	770	1050
12,5	**12,34**	81	164,9	1450	640	1100	1300	550	720	660	830	1100
14	**14,21**	70	165	1250	600	1050	1250	530	690	630	790	1050
16	**15,69**	64	165	1150	580	970	1150	510	660	590	740	970
18	**18,06**	55	165	980	530	920	1100	490	630	560	700	920
20	**20,93**	48	157,9	820	430	560	680	415	465	490	540	590
22,4	**24,09**	42	162,7	730	415	540	650	395	445	470	520	560
25	**26,34**	38	165	680	390	510	610	375	420	440	485	530
28	**30,32**	33	162,7	580	380	490	590	365	405	425	465	510
31,5	**32,42**	31	165	550	385	495	590	370	410	430	470	510
35,5	**37,31**	27	162	470	370	475	560	355	395	415	450	490
40	**40,49**	25	165	445	365	460	540	355	390	385	425	460
45	**46,6**	21	160,7	375	350	440	520	340	375	375	405	440
50	**49,83**	20	165	360	355	445	520	345	380	375	410	440
56	**57,35**	17	160,3	305	340	425	500	330	360	360	390	420
63	**65,18**	15	164,6	275	330	405	480	315	345	335	365	390
71	**75,02**	13	159	230	315	390	455	305	330	320	350	375
80	**80,22**	12	163,6	220	315	390	455	305	335	320	350	375
90	**92,34**	11	159	185	300	370	435	290	320	310	335	360
100	**105,04**	9,5	163,2	170	265	---	---	260	---	265	---	---
112	**120,9**	8,3	157,7	145	255	---	---	250	---	255	---	---
125	**129,28**	7,7	162,3	140	255	---	---	250	---	255	---	---
140	**148,8**	6,7	158	115	245	---	---	240	---	245	---	---
160	**155,53**	6,4	162	115	235	---	---	230	---	235	---	---
180	**179,01**	5,6	157,4	97	225	---	---	220	---	225	---	---
200	**205,74**	4,9	161,7	86	210	---	---	210	---	210	---	---
224	**236,8**	4,2	156	72	205	---	---	200	---	200	---	---
250	**253,21**	3,9	161	70	205	---	---	200	---	200	---	---
280	**291,45**	3,4	156,7	59	195	---	---	190	---	195	---	---
315	**304,61**	3,3	160,7	58	190	---	---	185	---	185	---	---
355	**350,61**	2,9	156,4	49	180	---	---	175	---	180	---	---
XF240e..,n_1= 1200 1/min												165 kNm
6,3	**6,3**	190	164,2	3350	435	1200	1500	0	305	510	830	1250
7,1	**7,26**	165	165	2950	415	1150	1400	0	330	500	820	1200
8	**8,01**	150	165	2650	480	1150	1400	155	415	530	810	1150
9	**9,22**	130	165	2300	465	1100	1350	170	430	530	790	1100
10	**10,14**	118	165	2100	550	1150	1400	260	530	590	840	1150
11,2	**11,67**	103	165	1800	530	1100	1350	255	520	570	810	1100
12,5	**12,34**	97	164,9	1700	610	1200	1400	480	730	650	890	1200
14	**14,21**	84	165	1500	580	1100	1350	465	700	620	850	1100
16	**15,69**	76	165	1350	570	1050	1250	465	680	590	800	1050
18	**18,06**	66	165	1200	520	1000	1200	450	650	560	760	1000
20	**20,93**	57	157,9	980	405	610	750	380	435	500	550	660
22,4	**24,09**	50	162,7	880	390	590	720	370	420	480	530	640
25	**26,34**	46	165	820	370	560	680	350	400	450	495	600
28	**30,32**	40	162,7	700	360	540	650	340	385	435	480	580
31,5	**32,42**	37	165	660	370	540	660	345	390	440	485	580
35,5	**37,31**	32	162	570	355	520	630	335	380	425	465	560
40	**40,49**	30	165	530	365	520	610	345	385	400	435	520
45	**46,6**	26	160,7	450	350	495	590	335	375	385	420	500
50	**49,83**	24	165	430	355	500	590	340	375	390	425	500
56	**57,35**	21	160,3	365	340	475	560	325	360	370	405	480
63	**65,18**	18	164,6	330	335	460	540	325	355	350	380	450
71	**75,02**	16	159	275	320	440	520	310	340	335	365	430
80	**80,22**	15	163,6	265	325	445	520	310	340	335	365	435
90	**92,34**	13	159	225	310	425	500	295	325	320	350	415
100	**105,04**	11	163,2	205	270	---	---	270	---	280	---	---
112	**120,9**	9,9	157,7	170	260	---	---	260	---	270	---	---
125	**129,28**	9,3	162,3	165	265	---	---	260	---	270	---	---
140	**148,8**	8,1	158	140	255	---	---	250	---	260	---	---
160	**155,53**	7,7	162	135	240	---	---	240	---	245	---	---
180	**179,01**	6,7	157,4	115	235	---	---	230	---	240	---	---
200	**205,74**	5,8	161,7	105	220	---	---	215	---	220	---	---
224	**236,8**	5,1	156	87	215	---	---	210	---	210	---	---
250	**253,21**	4,7	161	84	215	---	---	210	---	215	---	---
280	**291,45**	4,1	156,7	71	205	---	---	200	---	205	---	---
315	**304,61**	3,9	160,7	70	195	---	---	190	---	195	---	---
355	**350,61**	3,4	156,4	59	190	---	---	185	---	190	---	---

30593506/EN – 07/2023

XF240e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								165 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,3**	238	164,2	4200	160	1100	1450	0	0	275	700	1200
7,1	**7,26**	207	165	3650	190	1050	1400	0	0	320	730	1150
8	**8,01**	187	165	3300	340	1150	1450	0	200	400	780	1150
9	**9,22**	163	165	2900	330	1100	1400	0	220	405	770	1150
10	**10,14**	148	165	2600	415	1200	1500	0	355	480	860	1200
11,2	**11,67**	129	165	2300	400	1150	1400	0	360	480	830	1150
12,5	**12,34**	122	164,9	2150	530	1250	1500	325	700	600	940	1300
14	**14,21**	106	165	1850	510	1200	1450	325	680	580	900	1200
16	**15,69**	96	165	1700	530	1150	1400	355	670	560	860	1150
18	**18,06**	83	165	1450	500	1100	1300	350	650	540	820	1100
20	**20,93**	72	157,9	1250	340	670	830	310	440	500	620	770
22,4	**24,09**	62	162,7	1100	330	640	800	305	425	480	600	740
25	**26,34**	57	165	1000	320	610	760	295	410	455	560	700
28	**30,32**	49	162,7	870	315	590	730	290	400	440	540	670
31,5	**32,42**	46	165	830	325	600	740	300	410	445	550	680
35,5	**37,31**	40	162	710	315	580	710	290	395	430	530	650
40	**40,49**	37	165	660	345	590	710	325	415	410	500	610
45	**46,6**	32	160,7	560	335	560	680	315	400	395	480	590
50	**49,83**	30	165	540	340	570	680	320	405	400	485	590
56	**57,35**	26	160,3	455	330	540	650	310	395	385	465	570
63	**65,18**	23	164,6	410	335	530	630	315	395	365	435	530
71	**75,02**	20	159	345	325	510	610	305	375	350	420	510
80	**80,22**	19	163,6	330	330	510	610	310	380	350	420	510
90	**92,34**	16	159	280	315	490	580	295	365	335	405	485
100	**105,04**	14	163,2	255	280	---	---	275	---	295	---	---
112	**120,9**	12	157,7	215	270	---	---	265	---	285	---	---
125	**129,28**	12	162,3	205	270	---	---	265	---	285	---	---
140	**148,8**	10	158	175	260	---	---	255	---	275	---	---
160	**155,53**	9,6	162	170	250	---	---	245	---	260	---	---
180	**179,01**	8,4	157,4	145	240	---	---	240	---	250	---	---
200	**205,74**	7,3	161,7	130	235	---	---	230	---	235	---	---
224	**236,8**	6,3	156	110	225	---	---	220	---	225	---	---
250	**253,21**	5,9	161	105	225	---	---	220	---	225	---	---
280	**291,45**	5,1	156,7	89	215	---	---	210	---	215	---	---
315	**304,61**	4,9	160,7	87	210	---	---	200	---	210	---	---
355	**350,61**	4,3	156,4	74	200	---	---	195	---	200	---	---
XF240e..,n_1= 1800 1/min												165 kNm
6,3	**6,3**	286	164,2	5050	0	920	1350	0	0	0	510	1000
7,1	**7,26**	248	165	4400	0	930	1350	0	0	0	570	1050
8	**8,01**	225	165	4000	115	1050	1400	0	0	215	670	1150
9	**9,22**	195	165	3450	145	1050	1350	0	0	255	690	1100
10	**10,14**	178	165	3150	285	1200	1500	0	74	360	810	1250
11,2	**11,67**	154	165	2750	270	1150	1450	0	120	360	800	1200
12,5	**12,34**	146	164,9	2600	410	1300	1600	140	590	520	960	1350
14	**14,21**	127	165	2250	390	1200	1500	155	590	510	930	1300
16	**15,69**	115	165	2050	455	1200	1450	225	620	510	890	1200
18	**18,06**	100	165	1750	435	1150	1400	225	600	500	860	1150
20	**20,93**	86	157,9	1500	240	700	890	225	440	485	690	860
22,4	**24,09**	75	162,7	1300	240	680	860	220	430	470	660	830
25	**26,34**	68	165	1200	245	650	820	220	415	450	630	780
28	**30,32**	59	162,7	1050	245	630	790	220	405	435	610	750
31,5	**32,42**	56	165	1000	265	650	810	235	420	445	610	760
35,5	**37,31**	48	162	850	260	620	770	230	405	430	590	730
40	**40,49**	44	165	800	315	640	780	285	445	410	560	690
45	**46,6**	39	160,7	670	305	620	750	275	430	400	540	670
50	**49,83**	36	165	650	310	620	750	285	435	405	550	670
56	**57,35**	31	160,3	550	300	600	720	275	420	390	530	640
63	**65,18**	28	164,6	495	330	600	710	300	430	370	495	600
71	**75,02**	24	159	415	320	570	680	290	415	360	475	580
80	**80,22**	22	163,6	400	320	570	680	295	415	360	480	580
90	**92,34**	19	159	335	310	550	650	285	400	345	455	550
100	**105,04**	17	163,2	305	280	---	---	280	---	305	---	---
112	**120,9**	15	157,7	260	270	---	---	270	---	295	---	---
125	**129,28**	14	162,3	250	270	---	---	270	---	295	---	---
140	**148,8**	12	158	210	260	---	---	260	---	285	---	---
160	**155,53**	12	162	205	250	---	---	250	---	270	---	---
180	**179,01**	10	157,4	175	240	---	---	240	---	260	---	---
200	**205,74**	8,7	161,7	155	245	---	---	235	---	245	---	---
224	**236,8**	7,6	156	130	235	---	---	225	---	235	---	---
250	**253,21**	7,1	161	125	235	---	---	225	---	235	---	---
280	**291,45**	6,2	156,7	105	225	---	---	220	---	230	---	---
315	**304,61**	5,9	160,7	105	215	---	---	210	---	220	---	---
355	**350,61**	5,1	156,4	88	210	---	---	200	---	210	---	---

30593506/EN – 07/2023

XF250e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							185 kNm
					M1			M5		M4		
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**6,78**	147	178,6	2850	560	1150	1450	260	470	610	840	1200
8	**7,78**	129	185	2550	530	1100	1350	270	470	600	810	1150
9	**8,61**	116	178,2	2200	570	1050	1300	330	530	600	790	1100
10	**9,89**	101	185	2000	540	1000	1250	320	520	580	760	1050
11,2	**10,89**	92	182,4	1800	600	1100	1300	395	590	620	800	1050
12,5	**12,51**	80	185	1600	570	1000	1200	385	570	590	760	1000
14	**13,26**	75	185	1500	630	1100	1300	540	710	650	820	1100
16	**15,24**	66	185	1300	590	1000	1200	520	680	620	780	1000
18	**16,86**	59	185	1200	550	970	1150	500	650	590	730	960
20	**19,37**	52	185	1000	520	920	1100	485	620	560	700	910
22,4	**22,49**	44	169,7	820	430	560	680	415	460	485	530	580
25	**25,83**	39	182,4	770	410	530	650	395	440	465	510	560
28	**28,31**	35	185	710	390	500	610	375	415	440	480	520
31,5	**32,52**	31	182,1	610	375	485	580	360	405	420	465	500
35,5	**34,84**	29	185	580	380	490	590	365	410	425	465	510
40	**40,02**	25	182,1	495	370	470	560	350	390	410	450	485
45	**43,51**	23	185	460	365	460	540	350	390	385	420	455
50	**49,98**	20	179,9	390	350	440	520	340	375	370	405	435
56	**53,55**	19	185	375	355	440	520	340	375	375	405	440
63	**61,51**	16	179,9	320	340	420	500	330	360	355	390	420
71	**70,05**	14	183,3	285	325	405	475	315	345	335	360	390
80	**80,46**	12	178	240	315	390	455	305	330	320	350	375
90	**86,21**	12	183,3	230	315	390	455	305	330	320	350	375
100	**99,03**	10	178,4	195	300	370	435	290	320	305	335	360
112	**112,88**	8,9	181,7	175	265	---	---	260	---	265	---	---
125	**129,66**	7,7	176,5	150	255	---	---	250	---	255	---	---
140	**138,93**	7,2	181,8	145	255	---	---	250	---	255	---	---
160	**159,59**	6,3	176,9	120	245	---	---	240	---	245	---	---
180	**167,13**	6	181,4	120	235	---	---	230	---	235	---	---
200	**191,98**	5,2	176,2	100	225	---	---	220	---	225	---	---
224	**221,09**	4,5	179,9	89	210	---	---	205	---	210	---	---
250	**253,96**	3,9	175,1	76	205	---	---	200	---	200	---	---
280	**272,11**	3,7	180,3	73	205	---	---	200	---	200	---	---
315	**312,57**	3,2	175,4	62	195	---	---	190	---	195	---	---
355	**327,35**	3,1	179,8	60	190	---	---	185	---	185	---	---
400	**376,02**	2,7	175,1	51	180	---	---	175	---	180	---	---
XF250e..,n_1= 1200 1/min												**185 kNm**
7,1	**6,78**	177	178,6	3400	430	1150	1450	0	310	500	820	1200
8	**7,78**	154	185	3050	415	1100	1400	0	330	495	800	1200
9	**8,61**	139	178,2	2650	475	1100	1350	165	420	520	800	1150
10	**9,89**	121	185	2400	455	1050	1300	180	425	520	780	1100
11,2	**10,89**	110	182,4	2150	540	1150	1400	260	530	580	830	1150
12,5	**12,51**	96	185	1900	520	1100	1300	260	510	560	800	1100
14	**13,26**	90	185	1800	600	1150	1400	475	730	640	880	1150
16	**15,24**	79	185	1550	570	1100	1300	460	700	610	840	1100
18	**16,86**	71	185	1400	560	1050	1250	460	670	580	790	1050
20	**19,37**	62	185	1250	510	1000	1200	445	650	560	750	990
22,4	**22,49**	53	169,7	980	405	610	750	380	435	495	550	660
25	**25,83**	46	182,4	920	390	590	720	365	415	475	520	630
28	**28,31**	42	185	850	370	550	680	350	395	445	490	600
31,5	**32,52**	37	182,1	730	360	530	650	340	385	430	475	570
35,5	**34,84**	34	185	690	365	540	660	345	390	435	480	580
40	**40,02**	30	182,1	590	355	520	630	335	375	420	460	560
45	**43,51**	28	185	550	360	520	610	345	385	395	435	520
50	**49,98**	24	179,9	470	350	495	590	335	370	385	420	500
56	**53,55**	22	185	450	350	495	590	335	375	385	420	500
63	**61,51**	20	179,9	380	340	475	560	325	360	370	405	480
71	**70,05**	17	183,3	340	335	460	540	320	350	345	380	450
80	**80,46**	15	178	290	320	440	520	305	335	330	360	430
90	**86,21**	14	183,3	275	320	440	520	310	340	335	365	430
100	**99,03**	12	178,4	235	310	420	495	295	325	320	350	415
112	**112,88**	11	181,7	210	270	---	---	270	---	280	---	---
125	**129,66**	9,3	176,5	180	260	---	---	260	---	270	---	---
140	**138,93**	8,6	181,8	175	265	---	---	260	---	270	---	---
160	**159,59**	7,5	176,9	145	250	---	---	250	---	260	---	---
180	**167,13**	7,2	181,4	145	245	---	---	240	---	245	---	---
200	**191,98**	6,3	176,2	120	235	---	---	230	---	235	---	---
224	**221,09**	5,4	179,9	105	220	---	---	215	---	220	---	---
250	**253,96**	4,7	175,1	91	215	---	---	210	---	210	---	---
280	**272,11**	4,4	180,3	87	215	---	---	210	---	210	---	---
315	**312,57**	3,8	175,4	74	205	---	---	200	---	205	---	---
355	**327,35**	3,7	179,8	72	195	---	---	190	---	195	---	---
400	**376,02**	3,2	175,1	61	190	---	---	185	---	190	---	---

30593506/EN – 07/2023

XF250e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								185 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**6,78**	221	178,6	4250	145	1050	1450	0	0	270	690	1150
8	**7,78**	193	185	3850	180	1050	1400	0	0	315	710	1150
9	**8,61**	174	178,2	3350	340	1100	1400	0	205	400	770	1150
10	**9,89**	152	185	3000	325	1050	1350	0	225	400	760	1150
11,2	**10,89**	138	182,4	2700	415	1200	1450	0	360	470	850	1200
12,5	**12,51**	120	185	2400	395	1150	1400	0	355	470	820	1150
14	**13,26**	113	185	2250	520	1250	1500	330	690	590	930	1250
16	**15,24**	98	185	1950	500	1150	1450	320	670	570	890	1200
18	**16,86**	89	185	1750	520	1150	1350	355	670	560	850	1150
20	**19,37**	77	185	1550	485	1100	1300	350	640	540	810	1100
22,4	**22,49**	67	169,7	1250	340	670	830	315	440	495	620	770
25	**25,83**	58	182,4	1150	330	640	800	305	425	475	590	730
28	**28,31**	53	185	1050	320	610	760	295	410	450	560	690
31,5	**32,52**	46	182,1	910	315	590	730	285	395	440	540	670
35,5	**34,84**	43	185	870	325	600	740	295	405	445	550	670
40	**40,02**	37	182,1	740	315	580	710	290	390	430	530	650
45	**43,51**	34	185	690	345	580	700	325	415	405	495	610
50	**49,98**	30	179,9	590	335	560	670	315	405	395	480	590
56	**53,55**	28	185	560	340	570	680	320	405	395	485	590
63	**61,51**	24	179,9	475	330	540	650	305	395	385	465	560
71	**70,05**	21	183,3	425	335	530	630	315	395	360	435	530
80	**80,46**	19	178	360	325	510	600	305	375	350	420	510
90	**86,21**	17	183,3	345	330	510	600	310	380	350	420	510
100	**99,03**	15	178,4	295	315	490	580	295	365	335	400	485
112	**112,88**	13	181,7	265	280	---	---	275	---	295	---	---
125	**129,66**	12	176,5	225	270	---	---	265	---	285	---	---
140	**138,93**	11	181,8	215	270	---	---	265	---	285	---	---
160	**159,59**	9,4	176,9	185	260	---	---	255	---	275	---	---
180	**167,13**	9	181,4	180	250	---	---	245	---	260	---	---
200	**191,98**	7,8	176,2	150	240	---	---	240	---	250	---	---
224	**221,09**	6,8	179,9	135	235	---	---	230	---	235	---	---
250	**253,96**	5,9	175,1	115	225	---	---	220	---	225	---	---
280	**272,11**	5,5	180,3	110	225	---	---	220	---	225	---	---
315	**312,57**	4,8	175,4	92	215	---	---	210	---	215	---	---
355	**327,35**	4,6	179,8	91	205	---	---	200	---	205	---	---
400	**376,02**	4	175,1	77	200	---	---	195	---	200	---	---
XF250e..,n_1= 1800 1/min												**185 kNm**
7,1	**6,78**	265	178,6	5100	0	890	1300	0	0	0	500	990
8	**7,78**	231	185	4600	0	890	1300	0	0	0	560	1000
9	**8,61**	209	178,2	4000	105	1050	1400	0	0	210	660	1100
10	**9,89**	182	185	3600	140	1000	1350	0	0	250	680	1100
11,2	**10,89**	165	182,4	3250	285	1200	1500	0	87	355	800	1200
12,5	**12,51**	144	185	2850	270	1100	1450	0	125	360	790	1200
14	**13,26**	136	185	2700	405	1250	1550	145	590	510	950	1350
16	**15,24**	118	185	2350	385	1200	1500	160	580	500	920	1250
18	**16,86**	107	185	2100	450	1200	1450	225	610	510	880	1200
20	**19,37**	93	185	1850	425	1150	1400	225	600	500	850	1150
22,4	**22,49**	80	169,7	1500	245	700	890	225	445	485	680	860
25	**25,83**	70	182,4	1400	240	670	850	220	430	465	660	820
28	**28,31**	64	185	1300	245	650	820	220	415	445	620	780
31,5	**32,52**	55	182,1	1100	245	630	790	220	405	435	600	750
35,5	**34,84**	52	185	1050	265	640	800	235	420	445	610	760
40	**40,02**	45	182,1	890	255	620	770	230	405	430	590	730
45	**43,51**	41	185	830	310	640	780	285	445	410	560	690
50	**49,98**	36	179,9	700	305	620	750	275	430	395	540	660
56	**53,55**	34	185	680	310	620	750	285	435	400	540	670
63	**61,51**	29	179,9	570	300	600	720	275	420	390	520	640
71	**70,05**	26	183,3	510	330	590	710	300	430	370	495	600
80	**80,46**	22	178	435	315	570	680	290	415	355	475	580
90	**86,21**	21	183,3	415	320	570	680	295	415	360	475	580
100	**99,03**	18	178,4	350	310	550	650	285	400	345	455	550
112	**112,88**	16	181,7	320	280	---	---	280	---	305	---	---
125	**129,66**	14	176,5	270	270	---	---	270	---	295	---	---
140	**138,93**	13	181,8	260	270	---	---	270	---	295	---	---
160	**159,59**	11	176,9	220	260	---	---	260	---	285	---	---
180	**167,13**	11	181,4	215	250	---	---	250	---	270	---	---
200	**191,98**	9,4	176,2	180	240	---	---	240	---	260	---	---
224	**221,09**	8,1	179,9	160	240	---	---	235	---	245	---	---
250	**253,96**	7,1	175,1	135	235	---	---	225	---	235	---	---
280	**272,11**	6,6	180,3	130	235	---	---	225	---	235	---	---
315	**312,57**	5,8	175,4	110	225	---	---	220	---	225	---	---
355	**327,35**	5,5	179,8	110	215	---	---	210	---	215	---	---
400	**376,02**	4,8	175,1	92	205	---	---	200	---	210	---	---

30593506/EN – 07/2023

XF260e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							217 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,43**	156	213	3550	530	1150	1500	355	---	700	---	1300
7,1	**7,28**	137	217	3200	510	1100	1400	360	---	700	---	1300
8	**8,16**	123	217	2850	600	1150	1450	455	---	750	---	1300
9	**9,22**	108	217	2550	580	1150	1400	450	---	730	---	1250
10	**10,08**	99	217	2300	640	1150	1450	520	---	760	---	1250
11,2	**11,4**	88	217	2050	620	1100	1350	510	---	740	---	1200
12,5	**12,74**	78	217	1850	670	1150	1350	620	---	750	---	1200
14	**14,41**	69	217	1600	640	1100	1300	610	---	730	---	1150
16	**15,86**	63	217	1450	660	1100	1350	630	---	730	---	1150
18	**17,94**	56	217	1300	610	1050	1250	610	---	700	---	1100
20	**21,22**	47	199	1000	540	710	850	485	550	590	650	720
22,4	**24,01**	42	217	980	520	690	810	470	530	570	620	690
25	**26,24**	38	217	900	485	640	760	435	490	520	570	640
28	**29,75**	34	217	790	495	650	770	465	520	540	590	650
31,5	**32,52**	31	217	720	460	600	710	430	480	495	540	600
35,5	**36,78**	27	217	640	445	580	680	420	465	480	530	590
40	**41,08**	24	217	570	430	560	650	415	455	460	500	560
45	**46,47**	22	216	500	415	540	630	400	445	445	490	540
50	**48,31**	21	217	490	420	540	630	405	450	450	495	550
56	**60,68**	16	213,3	380	415	530	620	415	455	445	480	530
63	**66,33**	15	217	355	385	485	570	385	420	410	445	490
71	**75,02**	13	213,7	310	370	470	550	375	405	395	430	475
80	**78**	13	217	300	370	475	560	375	410	400	430	475
90	**88,23**	11	213,7	265	360	455	530	360	395	385	415	460
100	**105,64**	9,5	217	225	290	---	---	300	---	315	---	---
112	**119,49**	8,4	211,6	195	280	---	---	295	---	305	---	---
125	**124,24**	8	217	190	285	---	---	295	---	305	---	---
140	**140,53**	7,1	212,1	165	275	---	---	285	---	295	---	---
160	**153,9**	6,5	217	155	270	---	---	285	---	290	---	---
180	**174,09**	5,7	211,2	135	260	---	---	275	---	280	---	---
200	**203,69**	4,9	217	115	235	---	---	250	---	255	---	---
224	**230,4**	4,3	209,8	100	230	---	---	240	---	245	---	---
250	**239,55**	4,2	217	100	230	---	---	245	---	245	---	---
280	**270,97**	3,7	209,9	85	225	---	---	235	---	240	---	---
315	**296,76**	3,4	217	80	220	---	---	235	---	235	---	---
355	**335,68**	3	209,4	69	215	---	---	225	---	230	---	---
XF260e..,n_1= 1200 1/min												217 kNm
6,3	**6,43**	187	213	4250	370	1150	1500	0	---	580	---	1350
7,1	**7,28**	165	217	3850	360	1100	1450	51	---	580	---	1300
8	**8,16**	147	217	3400	475	1200	1500	270	---	660	---	1350
9	**9,22**	130	217	3050	455	1150	1450	280	---	660	---	1300
10	**10,08**	119	217	2750	540	1200	1500	370	---	700	---	1350
11,2	**11,4**	105	217	2450	520	1150	1450	365	---	690	---	1300
12,5	**12,74**	94	217	2200	620	1200	1450	540	---	730	---	1300
14	**14,41**	83	217	1950	590	1150	1400	530	---	710	---	1250
16	**15,86**	76	217	1750	630	1200	1450	570	---	730	---	1250
18	**17,94**	67	217	1550	580	1150	1350	550	---	700	---	1200
20	**21,22**	57	199	1200	540	800	960	445	510	600	660	820
22,4	**24,01**	50	217	1200	520	770	920	430	490	570	630	790
25	**26,24**	46	217	1100	485	720	860	405	460	530	590	730
28	**29,75**	40	217	950	500	730	870	440	500	550	600	740
31,5	**32,52**	37	217	870	470	680	810	410	465	510	560	690
35,5	**36,78**	33	217	770	455	660	780	405	450	490	540	670
40	**41,08**	29	217	690	440	630	750	405	450	475	520	640
45	**46,47**	26	216	610	425	610	720	395	440	460	500	620
50	**48,31**	25	217	590	430	620	720	400	445	465	510	620
56	**60,68**	20	213,3	460	430	600	710	425	465	460	500	610
63	**66,33**	18	217	425	395	560	650	390	430	425	465	560
71	**75,02**	16	213,7	370	385	540	630	380	415	410	450	540
80	**78**	15	217	365	385	540	630	380	420	415	450	550
90	**88,23**	14	213,7	315	375	520	610	370	405	400	435	530
100	**105,64**	11	217	270	300	---	---	310	---	330	---	---
112	**119,49**	10	211,6	235	290	---	---	300	---	320	---	---
125	**124,24**	9,7	217	230	295	---	---	305	---	320	---	---
140	**140,53**	8,5	212,1	200	285	---	---	295	---	310	---	---
160	**153,9**	7,8	217	185	280	---	---	295	---	305	---	---
180	**174,09**	6,9	211,2	160	270	---	---	285	---	295	---	---
200	**203,69**	5,9	217	140	250	---	---	260	---	265	---	---
224	**230,4**	5,2	209,8	120	240	---	---	255	---	260	---	---
250	**239,55**	5	217	120	245	---	---	255	---	260	---	---
280	**270,97**	4,4	209,9	100	235	---	---	245	---	250	---	---
315	**296,76**	4	217	96	230	---	---	245	---	250	---	---
355	**335,68**	3,6	209,4	82	225	---	---	235	---	240	---	---

30593506/EN – 07/2023

XF260e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							217 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,43**	233	213	5350	0	940	1400	0	---	305	---	1250
7,1	**7,28**	206	217	4800	0	950	1350	0	---	365	---	1250
8	**8,16**	184	217	4300	255	1150	1500	0	---	500	---	1350
9	**9,22**	163	217	3800	255	1100	1450	0	---	510	---	1350
10	**10,08**	149	217	3450	370	1200	1550	38	---	580	---	1400
11,2	**11,4**	132	217	3050	360	1150	1500	68	---	580	---	1350
12,5	**12,74**	118	217	2750	480	1250	1550	370	---	670	---	1400
14	**14,41**	104	217	2400	465	1200	1500	365	---	660	---	1350
16	**15,86**	95	217	2200	540	1250	1550	430	---	690	---	1350
18	**17,94**	84	217	1950	510	1200	1450	425	---	670	---	1300
20	**21,22**	71	199	1550	520	920	1100	345	475	590	700	940
22,4	**24,01**	62	217	1450	500	880	1050	335	460	570	680	910
25	**26,24**	57	217	1350	470	830	990	325	435	530	630	840
28	**29,75**	50	217	1200	495	850	1000	385	490	550	650	860
31,5	**32,52**	46	217	1100	465	790	940	360	460	510	610	800
35,5	**36,78**	41	217	960	450	770	910	350	450	500	590	780
40	**41,08**	37	217	860	440	740	870	370	460	485	570	750
45	**46,47**	32	216	760	430	710	840	360	445	470	550	720
50	**48,31**	31	217	730	435	720	850	365	455	475	560	730
56	**60,68**	25	213,3	570	445	710	830	415	495	480	560	720
63	**66,33**	23	217	530	410	650	770	385	460	445	520	660
71	**75,02**	20	213,7	465	395	630	740	375	445	430	500	640
80	**78**	19	217	455	400	640	750	375	450	435	500	640
90	**88,23**	17	213,7	395	390	610	720	365	430	420	485	620
100	**105,64**	14	217	340	315	---	---	320	---	345	---	---
112	**119,49**	13	211,6	290	305	---	---	310	---	335	---	---
125	**124,24**	12	217	290	305	---	---	310	---	335	---	---
140	**140,53**	11	212,1	250	295	---	---	300	---	325	---	---
160	**153,9**	9,7	217	230	295	---	---	300	---	320	---	---
180	**174,09**	8,6	211,2	200	285	---	---	290	---	310	---	---
200	**203,69**	7,4	217	175	265	---	---	275	---	285	---	---
224	**230,4**	6,5	209,8	150	255	---	---	265	---	275	---	---
250	**239,55**	6,3	217	150	260	---	---	265	---	275	---	---
280	**270,97**	5,5	209,9	130	250	---	---	260	---	270	---	---
315	**296,76**	5,1	217	120	245	---	---	255	---	265	---	---
355	**335,68**	4,5	209,4	105	240	---	---	245	---	255	---	---
XF260e..,n_1= 1800 1/min												**217 kNm**
6,3	**6,43**	280	213	6400	0	700	1100	0	---	0	---	1050
7,1	**7,28**	247	217	5750	0	700	1100	0	---	0	---	1100
8	**8,16**	221	217	5150	0	980	1450	0	---	270	---	1300
9	**9,22**	195	217	4550	0	980	1400	0	---	320	---	1300
10	**10,08**	179	217	4150	135	1150	1550	0	---	440	---	1400
11,2	**11,4**	158	217	3700	140	1100	1500	0	---	450	---	1400
12,5	**12,74**	141	217	3300	350	1250	1600	150	---	570	---	1450
14	**14,41**	125	217	2900	335	1200	1550	170	---	570	---	1400
16	**15,86**	113	217	2650	410	1300	1600	265	---	630	---	1450
18	**17,94**	100	217	2350	390	1250	1550	265	---	620	---	1400
20	**21,22**	85	199	1850	495	1000	1250	235	455	570	770	1050
22,4	**24,01**	75	217	1750	460	980	1200	230	440	550	750	1000
25	**26,24**	69	217	1600	440	910	1100	230	425	510	700	940
28	**29,75**	61	217	1450	475	940	1150	295	495	540	720	970
31,5	**32,52**	55	217	1300	450	880	1050	285	470	510	670	900
35,5	**36,78**	49	217	1150	435	850	1000	280	455	495	660	870
40	**41,08**	44	217	1050	435	830	990	315	480	485	640	840
45	**46,47**	39	216	910	425	800	950	305	465	470	620	820
50	**48,31**	37	217	880	430	810	960	315	475	480	630	820
56	**60,68**	30	213,3	690	445	800	940	390	540	490	630	810
63	**66,33**	27	217	640	415	740	870	365	500	455	580	750
71	**75,02**	24	213,7	560	400	720	840	355	485	440	560	730
80	**78**	23	217	540	405	720	850	360	490	445	570	730
90	**88,23**	20	213,7	475	395	690	820	345	470	430	550	700
100	**105,64**	17	217	405	315	---	---	315	---	355	---	---
112	**119,49**	15	211,6	350	310	---	---	305	---	350	---	---
125	**124,24**	14	217	345	310	---	---	310	---	350	---	---
140	**140,53**	13	212,1	300	305	---	---	300	---	340	---	---
160	**153,9**	12	217	280	300	---	---	300	---	335	---	---
180	**174,09**	10	211,2	240	290	---	---	290	---	325	---	---
200	**203,69**	8,8	217	210	275	---	---	285	---	295	---	---
224	**230,4**	7,8	209,8	180	265	---	---	275	---	290	---	---
250	**239,55**	7,5	217	180	270	---	---	275	---	290	---	---
280	**270,97**	6,6	209,9	155	260	---	---	265	---	280	---	---
315	**296,76**	6,1	217	145	255	---	---	265	---	275	---	---
355	**335,68**	5,4	209,4	125	250	---	---	255	---	270	---	---

30593506/EN – 07/2023

XF270e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							252 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,07**	141	235,9	3600	560	1200	1500	345	---	700	---	1300
8	**7,91**	126	252	3400	550	1200	1500	365	---	710	---	1300
9	**8,96**	112	240,4	2900	620	1200	1500	455	---	750	---	1300
10	**10,03**	100	252	2700	620	1200	1450	460	---	750	---	1300
11,2	**11,07**	90	244,8	2350	660	1200	1450	520	---	760	---	1250
12,5	**12,39**	81	252	2200	650	1150	1400	530	---	760	---	1250
14	**13,99**	71	248,4	1900	670	1150	1400	630	---	750	---	1200
16	**15,66**	64	252	1750	660	1150	1350	630	---	750	---	1200
18	**17,42**	57	252	1550	640	1100	1350	630	---	740	---	1150
20	**19,5**	51	252	1400	630	1100	1300	620	---	730	---	1150
22,4	**23,31**	43	218,6	1000	550	720	860	490	550	590	650	730
25	**26,09**	38	244,7	1000	540	710	840	485	540	580	640	710
28	**28,82**	35	251,8	950	490	640	760	440	490	530	580	650
31,5	**32,34**	31	251,6	850	510	670	790	480	530	550	600	670
35,5	**35,72**	28	251,8	770	465	610	720	435	485	500	550	610
40	**39,98**	25	250,8	680	460	600	710	430	480	495	540	600
45	**45,12**	22	251,8	610	435	560	660	415	460	465	510	560
50	**50,51**	20	249,2	540	430	550	650	415	455	460	500	560
56	**53,07**	19	252	520	425	550	640	410	450	455	495	550
63	**65,96**	15	248,7	410	430	540	640	430	470	455	495	550
71	**72,85**	14	251,8	375	385	495	580	390	425	415	450	495
80	**81,55**	12	247,2	330	380	485	570	385	420	405	440	485
90	**85,68**	12	252	320	375	480	560	380	415	400	435	485
100	**95,91**	10	246,1	280	370	470	550	375	405	395	430	475
112	**116,03**	8,6	251,8	240	295	---	---	305	---	315	---	---
125	**129,88**	7,7	245,1	205	290	---	---	300	---	310	---	---
140	**136,46**	7,3	250,8	200	285	---	---	300	---	310	---	---
160	**152,75**	6,5	244,1	175	285	---	---	295	---	305	---	---
180	**169,04**	5,9	249,6	160	275	---	---	285	---	295	---	---
200	**189,23**	5,3	243,6	140	270	---	---	280	---	290	---	---
224	**223,73**	4,5	249,7	125	240	---	---	250	---	255	---	---
250	**250,44**	4	243,2	105	235	---	---	250	---	250	---	---
280	**263,12**	3,8	248,7	105	235	---	---	245	---	250	---	---
315	**294,53**	3,4	242,5	90	230	---	---	245	---	245	---	---
355	**325,95**	3,1	248,2	84	225	---	---	235	---	240	---	---
400	**364,87**	2,7	242	73	220	---	---	230	---	235	---	---
XF270e..,n_1= 1200 1/min												252 kNm
7,1	**7,07**	170	235,9	4300	380	1150	1500	0	---	560	---	1350
8	**7,91**	152	252	4100	400	1150	1500	32	---	590	---	1350
9	**8,96**	134	240,4	3450	500	1200	1550	265	---	650	---	1350
10	**10,03**	120	252	3250	490	1200	1500	285	---	660	---	1350
11,2	**11,07**	108	244,8	2850	560	1250	1550	370	---	710	---	1350
12,5	**12,39**	97	252	2600	560	1200	1500	375	---	710	---	1350
14	**13,99**	86	248,4	2300	630	1250	1500	540	---	730	---	1300
16	**15,66**	77	252	2050	620	1200	1450	540	---	730	---	1300
18	**17,42**	69	252	1850	620	1200	1450	570	---	730	---	1250
20	**19,5**	62	252	1650	600	1200	1400	570	---	720	---	1250
22,4	**23,31**	51	218,6	1200	550	810	970	450	520	600	660	820
25	**26,09**	46	244,7	1200	540	800	950	440	510	590	650	810
28	**28,82**	42	251,8	1150	490	730	870	405	460	530	590	730
31,5	**32,34**	37	251,6	1000	520	760	900	455	510	560	620	760
35,5	**35,72**	34	251,8	920	470	690	820	415	470	510	560	690
40	**39,98**	30	250,8	820	470	680	810	415	465	510	550	680
45	**45,12**	27	251,8	730	445	640	760	410	455	475	520	640
50	**50,51**	24	249,2	640	440	630	740	405	450	475	520	640
56	**53,07**	23	252	620	440	630	730	405	445	470	510	630
63	**65,96**	18	248,7	490	445	620	730	435	480	475	520	630
71	**72,85**	16	251,8	450	400	560	660	395	435	430	470	570
80	**81,55**	15	247,2	395	395	560	650	390	425	425	460	560
90	**85,68**	14	252	385	390	550	640	385	425	420	455	550
100	**95,91**	13	246,1	335	385	540	630	380	415	410	450	540
112	**116,03**	10	251,8	285	305	---	---	315	---	330	---	---
125	**129,88**	9,2	245,1	250	300	---	---	310	---	325	---	---
140	**136,46**	8,8	250,8	240	300	---	---	305	---	325	---	---
160	**152,75**	7,9	244,1	210	295	---	---	305	---	320	---	---
180	**169,04**	7,1	249,6	195	285	---	---	295	---	310	---	---
200	**189,23**	6,3	243,6	170	280	---	---	290	---	305	---	---
224	**223,73**	5,4	249,7	145	250	---	---	265	---	270	---	---
250	**250,44**	4,8	243,2	130	250	---	---	260	---	265	---	---
280	**263,12**	4,6	248,7	125	245	---	---	255	---	265	---	---
315	**294,53**	4,1	242,5	110	240	---	---	255	---	260	---	---
355	**325,95**	3,7	248,2	100	235	---	---	245	---	250	---	---
400	**364,87**	3,3	242	87	230	---	---	240	---	245	---	---

30593506/EN – 07/2023

XF270e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							252 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	**7,07**	212	235,9	5350	0	960	1400	0	---	265	---	1250
8	**7,91**	190	252	5150	0	990	1450	0	---	350	---	1250
9	**8,96**	167	240,4	4300	275	1200	1550	0	---	490	---	1350
10	**10,03**	150	252	4050	295	1150	1550	0	---	510	---	1400
11,2	**11,07**	136	244,8	3550	400	1250	1600	30	---	570	---	1400
12,5	**12,39**	121	252	3250	395	1250	1550	66	---	590	---	1400
14	**13,99**	107	248,4	2850	500	1300	1600	370	---	670	---	1400
16	**15,66**	96	252	2600	500	1250	1550	375	---	670	---	1400
18	**17,42**	86	252	2350	550	1300	1550	430	---	690	---	1400
20	**19,5**	77	252	2100	530	1250	1550	435	---	690	---	1350
22,4	**23,31**	64	218,6	1550	530	930	1100	355	480	590	710	950
25	**26,09**	57	244,7	1550	520	920	1100	350	475	580	700	930
28	**28,82**	52	251,8	1400	475	830	1000	325	435	530	630	850
31,5	**32,34**	46	251,6	1250	510	880	1050	395	500	570	670	890
35,5	**35,72**	42	251,8	1150	470	800	950	365	465	510	610	810
40	**39,98**	38	250,8	1000	465	790	940	365	460	510	600	800
45	**45,12**	33	251,8	910	450	750	890	370	460	485	570	750
50	**50,51**	30	249,2	800	445	740	870	370	460	485	570	740
56	**53,07**	28	252	770	445	730	860	370	455	480	560	740
63	**65,96**	23	248,7	610	460	730	860	425	510	495	580	740
71	**72,85**	21	251,8	560	415	660	780	390	465	445	520	670
80	**81,55**	18	247,2	495	410	650	760	385	455	445	510	660
90	**85,68**	18	252	480	405	640	760	380	455	440	510	650
100	**95,91**	16	246,1	420	400	630	740	375	445	430	500	640
112	**116,03**	13	251,8	360	320	---	---	320	---	350	---	---
125	**129,88**	12	245,1	310	315	---	---	320	---	345	---	---
140	**136,46**	11	250,8	305	310	---	---	315	---	340	---	---
160	**152,75**	9,8	244,1	265	310	---	---	310	---	335	---	---
180	**169,04**	8,9	249,6	245	300	---	---	305	---	325	---	---
200	**189,23**	7,9	243,6	210	295	---	---	300	---	320	---	---
224	**223,73**	6,7	249,7	185	265	---	---	275	---	285	---	---
250	**250,44**	6	243,2	160	265	---	---	275	---	280	---	---
280	**263,12**	5,7	248,7	155	260	---	---	270	---	280	---	---
315	**294,53**	5,1	242,5	135	255	---	---	265	---	275	---	---
355	**325,95**	4,6	248,2	125	250	---	---	260	---	265	---	---
400	**364,87**	4,1	242	110	245	---	---	255	---	260	---	---
XF270e..,n_1= 1800 1/min												**252 kNm**
7,1	**7,07**	255	235,9	6450	0	740	1150	0	---	0	---	990
8	**7,91**	228	252	6150	0	780	1200	0	---	0	---	1050
9	**8,96**	201	240,4	5200	0	1000	1450	0	---	240	---	1300
10	**10,03**	179	252	4850	0	1050	1450	0	---	305	---	1300
11,2	**11,07**	163	244,8	4250	175	1200	1600	0	---	430	---	1400
12,5	**12,39**	145	252	3950	195	1200	1550	0	---	455	---	1400
14	**13,99**	129	248,4	3450	380	1300	1650	145	---	560	---	1450
16	**15,66**	115	252	3100	375	1250	1600	175	---	580	---	1450
18	**17,42**	103	252	2800	430	1300	1600	265	---	620	---	1450
20	**19,5**	92	252	2500	420	1300	1600	275	---	630	---	1450
22,4	**23,31**	77	218,6	1850	490	1050	1250	240	460	570	780	1050
25	**26,09**	69	244,7	1850	480	1000	1200	240	455	560	770	1050
28	**28,82**	62	251,8	1700	445	920	1100	235	430	510	700	950
31,5	**32,34**	56	251,6	1500	495	980	1150	305	510	560	740	990
35,5	**35,72**	50	251,8	1400	455	890	1050	285	475	510	680	900
40	**39,98**	45	250,8	1250	455	880	1050	290	470	510	670	900
45	**45,12**	40	251,8	1100	445	840	1000	315	480	485	640	850
50	**50,51**	36	249,2	960	440	830	990	315	480	485	640	840
56	**53,07**	34	252	930	445	830	980	320	480	480	630	830
63	**65,96**	27	248,7	740	465	830	970	405	550	500	650	840
71	**72,85**	25	251,8	680	420	750	880	365	500	455	590	760
80	**81,55**	22	247,2	590	415	740	870	365	500	455	580	750
90	**85,68**	21	252	580	415	730	860	360	495	450	580	740
100	**95,91**	19	246,1	500	410	720	840	360	490	445	570	730
112	**116,03**	16	251,8	430	325	---	---	315	---	360	---	---
125	**129,88**	14	245,1	375	320	---	---	315	---	355	---	---
140	**136,46**	13	250,8	365	320	---	---	310	---	355	---	---
160	**152,75**	12	244,1	315	315	---	---	310	---	350	---	---
180	**169,04**	11	249,6	290	305	---	---	305	---	340	---	---
200	**189,23**	9,5	243,6	255	305	---	---	300	---	335	---	---
224	**223,73**	8	249,7	220	280	---	---	285	---	300	---	---
250	**250,44**	7,2	243,2	190	275	---	---	280	---	295	---	---
280	**263,12**	6,8	248,7	185	275	---	---	280	---	295	---	---
315	**294,53**	6,1	242,5	165	270	---	---	275	---	290	---	---
355	**325,95**	5,5	248,2	150	260	---	---	265	---	280	---	---
400	**364,87**	4,9	242	130	255	---	---	265	---	275	---	---

30593506/EN – 07/2023

XF280e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							285 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
8	**7,91**	126	262,7	3550	720	1450	1800	495	---	870	---	1600
9	**8,86**	113	279,9	3400	720	1450	1800	500	---	870	---	1550
10	**10,03**	100	267,7	2850	790	1450	1750	620	---	900	---	1550
11,2	**11,23**	89	285	2700	770	1400	1700	620	---	890	---	1500
12,5	**12,39**	81	272,6	2350	810	1400	1700	690	---	910	---	1500
14	**13,88**	72	285	2200	780	1350	1650	680	---	890	---	1450
16	**15,66**	64	276,5	1900	800	1350	1650	770	---	890	---	1400
18	**17,54**	57	285	1750	750	1300	1600	750	---	870	---	1350
20	**19,5**	51	281,4	1550	770	1300	1550	760	---	870	---	1350
22,4	**21,85**	46	285	1400	750	1250	1500	740	---	850	---	1300
25	**26,09**	38	244,7	1000	640	840	990	590	---	690	---	840
28	**29,22**	34	274,1	1000	620	810	960	570	---	670	---	820
31,5	**32,26**	31	280,2	940	570	740	880	530	---	610	---	750
35,5	**36,22**	28	281,8	850	590	770	900	560	---	630	---	770
40	**39,98**	25	280,2	760	540	700	820	510	---	580	---	700
45	**44,78**	22	285	690	530	680	800	510	---	570	---	690
50	**50,51**	20	280,2	600	500	640	750	490	---	540	---	650
56	**56,57**	18	282,8	540	495	630	740	480	---	530	---	630
63	**59,4**	17	283,1	520	490	630	730	480	---	520	---	630
71	**73,87**	14	279,9	410	485	620	720	495	---	520	---	620
80	**81,55**	12	280,2	375	445	560	660	450	---	470	---	570
90	**91,33**	11	279,9	335	435	550	640	440	---	460	---	550
100	**95,91**	10	283,1	320	430	550	640	440	---	460	---	550
112	**107,42**	9,3	280,4	285	420	540	620	425	---	450	---	540
125	**129,88**	7,7	280,2	235	335	---	---	350	---	360	---	---
140	**145,47**	6,9	277,6	210	330	---	---	345	---	355	---	---
160	**152,75**	6,5	283,1	205	330	---	---	340	---	350	---	---
180	**171,08**	5,8	278,1	180	320	---	---	335	---	345	---	---
200	**189,23**	5,3	283,1	165	315	---	---	325	---	335	---	---
224	**211,93**	4,7	277	145	310	---	---	320	---	330	---	---
250	**250,44**	4	280,2	125	275	---	---	285	---	290	---	---
280	**280,49**	3,6	274,6	110	270	---	---	280	---	285	---	---
315	**294,53**	3,4	283,1	105	265	---	---	280	---	285	---	---
355	**329,88**	3	275,3	92	260	---	---	275	---	280	---	---
400	**364,87**	2,7	283,1	85	255	---	---	270	---	270	---	---
450	**408,66**	2,4	274,7	74	250	---	---	265	---	265	---	---
XF280e..,n_1= 1200 1/min												285 kNm
8	**7,91**	152	262,7	4300	530	1450	1850	180	---	700	---	1600
9	**8,86**	135	279,9	4050	540	1450	1800	235	---	720	---	1600
10	**10,03**	120	267,7	3450	660	1500	1850	415	---	820	---	1600
11,2	**11,23**	107	285	3250	650	1450	1800	425	---	820	---	1600
12,5	**12,39**	97	272,6	2850	720	1500	1800	520	---	860	---	1600
14	**13,88**	86	285	2650	710	1450	1750	520	---	850	---	1550
16	**15,66**	77	276,5	2250	770	1450	1750	700	---	880	---	1550
18	**17,54**	68	285	2100	730	1400	1700	690	---	860	---	1500
20	**19,5**	62	281,4	1850	740	1400	1700	710	---	870	---	1450
22,4	**21,85**	55	285	1700	720	1350	1650	700	---	850	---	1450
25	**26,09**	46	244,7	1200	650	950	1100	550	---	700	---	960
28	**29,22**	41	274,1	1200	630	920	1100	540	---	680	---	930
31,5	**32,26**	37	280,2	1150	580	840	1000	495	---	620	---	850
35,5	**36,22**	33	281,8	1000	600	870	1050	550	---	650	---	880
40	**39,98**	30	280,2	910	550	800	940	500	---	590	---	800
45	**44,78**	27	285	830	540	780	920	490	---	580	---	780
50	**50,51**	24	280,2	720	520	740	860	485	---	550	---	740
56	**56,57**	21	282,8	650	510	720	840	475	---	540	---	720
63	**59,4**	20	283,1	620	510	720	840	475	---	540	---	720
71	**73,87**	16	279,9	495	510	710	830	500	---	540	---	710
80	**81,55**	15	280,2	450	465	650	750	460	---	495	---	650
90	**91,33**	13	279,9	400	450	630	740	450	---	480	---	630
100	**95,91**	13	283,1	385	450	630	740	445	---	480	---	630
112	**107,42**	11	280,4	340	440	610	720	440	---	470	---	620
125	**129,88**	9,2	280,2	285	350	---	---	360	---	380	---	---
140	**145,47**	8,2	277,6	250	345	---	---	355	---	370	---	---
160	**152,75**	7,9	283,1	245	345	---	---	355	---	370	---	---
180	**171,08**	7	278,1	215	335	---	---	345	---	360	---	---
200	**189,23**	6,3	283,1	195	325	---	---	340	---	350	---	---
224	**211,93**	5,7	277	170	320	---	---	330	---	345	---	---
250	**250,44**	4,8	280,2	150	285	---	---	300	---	305	---	---
280	**280,49**	4,3	274,6	130	280	---	---	295	---	300	---	---
315	**294,53**	4,1	283,1	125	280	---	---	295	---	300	---	---
355	**329,88**	3,6	275,3	110	275	---	---	290	---	295	---	---
400	**364,87**	3,3	283,1	100	270	---	---	280	---	285	---	---
450	**408,66**	2,9	274,7	89	260	---	---	275	---	280	---	---

30593506/EN – 07/2023

XF280e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							285 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
8	**7,91**	190	262,7	5350	94	1300	1800	0	---	410	---	1550
9	**8,86**	169	279,9	5100	165	1300	1750	0	---	480	---	1550
10	**10,03**	150	267,7	4300	425	1450	1900	0	---	620	---	1650
11,2	**11,23**	134	285	4100	445	1450	1850	0	---	640	---	1650
12,5	**12,39**	121	272,6	3550	540	1550	1900	225	---	730	---	1700
14	**13,88**	108	285	3300	530	1500	1850	240	---	740	---	1650
16	**15,66**	96	276,5	2850	660	1550	1900	510	---	820	---	1650
18	**17,54**	86	285	2600	640	1500	1850	520	---	820	---	1600
20	**19,5**	77	281,4	2300	680	1500	1850	580	---	840	---	1600
22,4	**21,85**	69	285	2100	640	1500	1800	580	---	820	---	1550
25	**26,09**	57	244,7	1550	630	1100	1300	470	---	700	---	1100
28	**29,22**	51	274,1	1550	620	1050	1250	460	---	690	---	1100
31,5	**32,26**	46	280,2	1400	570	970	1150	430	---	630	---	980
35,5	**36,22**	41	281,8	1250	600	1000	1200	495	---	660	---	1000
40	**39,98**	38	280,2	1150	550	930	1100	455	---	600	---	930
45	**44,78**	33	285	1050	550	910	1050	450	---	590	---	910
50	**50,51**	30	280,2	900	530	860	1000	455	---	570	---	870
56	**56,57**	27	282,8	810	520	840	990	450	---	560	---	850
63	**59,4**	25	283,1	780	520	840	990	450	---	560	---	840
71	**73,87**	20	279,9	620	530	830	980	500	---	570	---	840
80	**81,55**	18	280,2	560	480	760	890	460	---	520	---	760
90	**91,33**	16	279,9	500	470	740	870	450	---	510	---	750
100	**95,91**	16	283,1	480	470	740	860	450	---	500	---	740
112	**107,42**	14	280,4	425	460	720	840	440	---	495	---	720
125	**129,88**	12	280,2	355	365	---	---	375	---	400	---	---
140	**145,47**	10	277,6	315	360	---	---	365	---	390	---	---
160	**152,75**	9,8	283,1	305	360	---	---	365	---	390	---	---
180	**171,08**	8,8	278,1	270	350	---	---	355	---	380	---	---
200	**189,23**	7,9	283,1	245	345	---	---	350	---	370	---	---
224	**211,93**	7,1	277	215	335	---	---	340	---	365	---	---
250	**250,44**	6	280,2	185	305	---	---	315	---	325	---	---
280	**280,49**	5,3	274,6	160	300	---	---	310	---	320	---	---
315	**294,53**	5,1	283,1	160	300	---	---	310	---	320	---	---
355	**329,88**	4,5	275,3	140	290	---	---	305	---	310	---	---
400	**364,87**	4,1	283,1	130	285	---	---	295	---	305	---	---
450	**408,66**	3,7	274,7	110	280	---	---	290	---	295	---	---
XF280e..,n_1= 1800 1/min												285 kNm
8	**7,91**	228	262,7	6400	0	1000	1600	0	---	0	---	1300
9	**8,86**	203	279,9	6100	0	1050	1600	0	---	0	---	1400
10	**10,03**	179	267,7	5150	42	1350	1850	0	---	375	---	1600
11,2	**11,23**	160	285	4900	110	1350	1800	0	---	440	---	1600
12,5	**12,39**	145	272,6	4250	340	1500	1950	0	---	560	---	1700
14	**13,88**	130	285	3950	355	1500	1900	0	---	580	---	1700
16	**15,66**	115	276,5	3400	510	1550	1950	305	---	720	---	1750
18	**17,54**	103	285	3150	495	1550	1900	315	---	730	---	1700
20	**19,5**	92	281,4	2800	570	1550	1950	405	---	770	---	1700
22,4	**21,85**	82	285	2500	520	1550	1900	400	---	770	---	1650
25	**26,09**	69	244,7	1850	600	1200	1450	350	---	680	---	1250
28	**29,22**	62	274,1	1850	580	1200	1400	345	---	670	---	1200
31,5	**32,26**	56	280,2	1700	540	1100	1300	330	---	620	---	1100
35,5	**36,22**	50	281,8	1500	590	1150	1350	415	---	650	---	1150
40	**39,98**	45	280,2	1350	540	1050	1250	385	---	600	---	1050
45	**44,78**	40	285	1250	540	1000	1200	385	---	590	---	1050
50	**50,51**	36	280,2	1100	530	970	1150	405	---	570	---	980
56	**56,57**	32	282,8	980	520	960	1100	400	---	560	---	960
63	**59,4**	30	283,1	930	520	950	1100	405	---	570	---	960
71	**73,87**	24	279,9	740	540	950	1100	485	---	580	---	950
80	**81,55**	22	280,2	670	490	860	1000	445	---	530	---	870
90	**91,33**	20	279,9	600	480	840	990	435	---	520	---	850
100	**95,91**	19	283,1	580	480	840	980	435	---	520	---	850
112	**107,42**	17	280,4	510	470	820	960	425	---	510	---	820
125	**129,88**	14	280,2	425	375	---	---	375	---	415	---	---
140	**145,47**	12	277,6	375	370	---	---	370	---	405	---	---
160	**152,75**	12	283,1	365	370	---	---	365	---	405	---	---
180	**171,08**	11	278,1	320	365	---	---	360	---	395	---	---
200	**189,23**	9,5	283,1	295	355	---	---	355	---	385	---	---
224	**211,93**	8,5	277	260	345	---	---	345	---	380	---	---
250	**250,44**	7,2	280,2	220	320	---	---	330	---	340	---	---
280	**280,49**	6,4	274,6	195	315	---	---	320	---	335	---	---
315	**294,53**	6,1	283,1	190	310	---	---	320	---	335	---	---
355	**329,88**	5,5	275,3	165	305	---	---	315	---	330	---	---
400	**364,87**	4,9	283,1	155	295	---	---	305	---	320	---	---
450	**408,66**	4,4	274,7	135	290	---	---	300	---	315	---	---

30593506/EN – 07/2023

XF290e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							325 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,34**	158	319	5400	680	1400	1800	425	---	900	---	1600
7,1	**7,16**	140	323,6	4850	700	1450	1850	495	---	990	---	1700
8	**8,11**	123	325	4300	770	1450	1800	610	---	990	---	1600
9	**9,17**	109	325	3800	800	1450	1800	650	---	1050	---	1650
10	**10,05**	100	325	3450	810	1400	1700	670	---	980	---	1500
11,2	**11,36**	88	325	3050	830	1400	1700	710	---	1000	---	1550
12,5	**12,76**	78	325	2750	850	1400	1700	750	---	990	---	1500
14	**14,42**	69	325	2400	860	1400	1700	770	---	1000	---	1500
16	**16,05**	62	325	2150	830	1350	1600	760	---	960	---	1400
18	**18,14**	55	325	1900	820	1350	1600	770	---	970	---	1400
20	**20,27**	49	276,8	1500	730	890	1050	670	---	790	---	910
22,4	**22,91**	44	312,9	1500	730	890	1050	670	---	800	---	910
25	**26,45**	38	325	1350	680	840	1000	630	---	740	---	850
28	**28,45**	35	321,1	1250	680	830	980	660	---	740	---	840
31,5	**32,86**	30	325	1050	640	780	920	620	---	690	---	780
35,5	**37,13**	27	325	950	640	780	920	620	---	690	---	790
40	**41,45**	24	325	850	610	740	870	600	---	660	---	750
45	**46,84**	21	325	750	620	750	870	610	---	670	---	750
50	**49,69**	20	325	710	560	680	790	550	---	600	---	680
56	**57,86**	17	323,9	610	560	670	790	560	---	600	---	680
63	**66,82**	15	325	530	530	630	730	520	---	560	---	630
71	**75,52**	13	323,9	465	530	630	730	520	---	560	---	630
80	**80,1**	12	325	440	480	570	670	480	---	510	---	580
90	**90,53**	11	323,9	390	480	570	670	480	---	510	---	580
100	**103,31**	9,7	325	345	415	---	---	430	---	445	---	---
112	**116,77**	8,6	321,2	300	415	---	---	430	---	450	---	---
125	**123,85**	8,1	325	290	380	---	---	395	---	410	---	---
140	**139,98**	7,1	321,3	250	385	---	---	395	---	410	---	---
160	**152,96**	6,5	325	235	355	---	---	370	---	380	---	---
180	**172,88**	5,8	320,6	205	360	---	---	370	---	385	---	---
200	**205,34**	4,9	325	175	330	---	---	340	---	350	---	---
224	**232,08**	4,3	317,3	150	330	---	---	340	---	350	---	---
250	**246,17**	4,1	325	145	305	---	---	315	---	325	---	---
280	**278,23**	3,6	318	125	305	---	---	315	---	325	---	---
315	**304,02**	3,3	325	115	285	---	---	295	---	300	---	---
355	**343,61**	2,9	317,3	100	285	---	---	295	---	300	---	---
XF290e..,n_1= 1200 1/min												325 kNm
6,3	**6,34**	189	319	6500	380	1250	1750	0	---	720	---	1550
7,1	**7,16**	168	323,6	5800	450	1350	1800	0	---	800	---	1700
8	**8,11**	148	325	5150	620	1400	1850	350	---	860	---	1650
9	**9,17**	131	325	4550	630	1450	1900	400	---	930	---	1700
10	**10,05**	119	325	4150	670	1400	1800	490	---	900	---	1600
11,2	**11,36**	106	325	3700	690	1450	1800	520	---	950	---	1650
12,5	**12,76**	94	325	3300	760	1450	1800	580	---	950	---	1600
14	**14,42**	83	325	2900	780	1450	1800	620	---	980	---	1600
16	**16,05**	75	325	2600	790	1400	1700	630	---	940	---	1500
18	**18,14**	66	325	2300	760	1450	1750	660	---	960	---	1550
20	**20,27**	59	276,8	1800	720	1000	1200	620	---	800	---	1000
22,4	**22,91**	52	312,9	1800	720	1000	1200	620	---	800	---	1050
25	**26,45**	45	325	1600	680	940	1150	590	---	750	---	960
28	**28,45**	42	321,1	1450	680	930	1100	630	---	750	---	950
31,5	**32,86**	37	325	1300	650	880	1050	600	---	700	---	890
35,5	**37,13**	32	325	1150	650	880	1050	610	---	710	---	900
40	**41,45**	29	325	1000	630	840	1000	590	---	680	---	850
45	**46,84**	26	325	900	630	850	1000	600	---	680	---	860
50	**49,69**	24	325	850	570	770	910	540	---	620	---	780
56	**57,86**	21	323,9	730	580	770	900	560	---	630	---	780
63	**66,82**	18	325	630	540	720	840	530	---	580	---	720
71	**75,52**	16	323,9	560	540	720	840	530	---	580	---	720
80	**80,1**	15	325	530	495	650	770	480	---	530	---	660
90	**90,53**	13	323,9	465	495	650	770	485	---	530	---	660
100	**103,31**	12	325	415	430	---	---	440	---	470	---	---
112	**116,77**	10	321,2	365	430	---	---	440	---	470	---	---
125	**123,85**	9,7	325	345	395	---	---	405	---	430	---	---
140	**139,98**	8,6	321,3	305	395	---	---	405	---	430	---	---
160	**152,96**	7,8	325	280	370	---	---	380	---	400	---	---
180	**172,88**	6,9	320,6	245	370	---	---	380	---	400	---	---
200	**205,34**	5,8	325	210	345	---	---	355	---	370	---	---
224	**232,08**	5,2	317,3	180	345	---	---	355	---	370	---	---
250	**246,17**	4,9	325	175	320	---	---	325	---	340	---	---
280	**278,23**	4,3	318	150	320	---	---	325	---	340	---	---
315	**304,02**	3,9	325	140	295	---	---	305	---	315	---	---
355	**343,61**	3,5	317,3	120	295	---	---	305	---	315	---	---

30593506/EN – 07/2023

XF290e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								325 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,34**	237	319	8100	0	980	1500	0	---	205	---	1350
7,1	**7,16**	209	323,6	7250	0	1050	1600	0	---	395	---	1500
8	**8,11**	185	325	6450	245	1250	1750	0	---	630	---	1600
9	**9,17**	164	325	5700	305	1350	1850	0	---	710	---	1700
10	**10,05**	149	325	5200	480	1400	1800	42	---	740	---	1650
11,2	**11,36**	132	325	4600	495	1450	1850	115	---	780	---	1700
12,5	**12,76**	118	325	4100	570	1450	1850	300	---	830	---	1700
14	**14,42**	104	325	3650	580	1500	1850	330	---	880	---	1750
16	**16,05**	93	325	3250	630	1450	1800	395	---	870	---	1650
18	**18,14**	83	325	2900	640	1500	1850	415	---	900	---	1650
20	**20,27**	74	276,8	2250	680	1150	1350	500	---	790	---	1150
22,4	**22,91**	65	312,9	2250	680	1150	1350	510	---	790	---	1200
25	**26,45**	57	325	2000	660	1050	1300	500	---	750	---	1100
28	**28,45**	53	321,1	1850	670	1050	1300	570	---	750	---	1100
31,5	**32,86**	46	325	1600	640	1000	1200	550	---	710	---	1050
35,5	**37,13**	40	325	1450	650	1000	1200	560	---	720	---	1050
40	**41,45**	36	325	1300	630	980	1150	560	---	690	---	990
45	**46,84**	32	325	1150	640	980	1150	570	---	700	---	1000
50	**49,69**	30	325	1050	580	890	1050	520	---	630	---	910
56	**57,86**	26	323,9	910	590	900	1050	540	---	640	---	910
63	**66,82**	22	325	790	550	840	980	510	---	600	---	850
71	**75,52**	20	323,9	700	560	840	980	520	---	610	---	850
80	**80,1**	19	325	660	510	760	900	465	---	550	---	770
90	**90,53**	17	323,9	580	510	760	900	470	---	550	---	770
100	**103,31**	15	325	520	445	---	---	440	---	490	---	---
112	**116,77**	13	321,2	455	445	---	---	440	---	490	---	---
125	**123,85**	12	325	435	410	---	---	405	---	455	---	---
140	**139,98**	11	321,3	380	410	---	---	405	---	455	---	---
160	**152,96**	9,8	325	350	385	---	---	385	---	420	---	---
180	**172,88**	8,7	320,6	305	385	---	---	385	---	420	---	---
200	**205,34**	7,3	325	260	365	---	---	370	---	390	---	---
224	**232,08**	6,5	317,3	225	365	---	---	370	---	390	---	---
250	**246,17**	6,1	325	220	335	---	---	340	---	360	---	---
280	**278,23**	5,4	318	190	335	---	---	340	---	360	---	---
315	**304,02**	4,9	325	175	310	---	---	315	---	335	---	---
355	**343,61**	4,4	317,3	150	310	---	---	315	---	335	---	---
XF290e..,n_1= 1800 1/min												**325 kNm**
6,3	**6,34**	284	319	9700	0	420	1050	0	---	0	---	1000
7,1	**7,16**	251	323,6	8750	0	530	1150	0	---	0	---	1200
8	**8,11**	222	325	7750	0	1050	1550	0	---	230	---	1450
9	**9,17**	196	325	6850	0	1100	1650	0	---	385	---	1600
10	**10,05**	179	325	6250	105	1250	1750	0	---	540	---	1600
11,2	**11,36**	158	325	5550	175	1300	1800	0	---	600	---	1700
12,5	**12,76**	141	325	4900	385	1450	1850	0	---	690	---	1700
14	**14,42**	125	325	4350	395	1450	1900	0	---	730	---	1750
16	**16,05**	112	325	3900	475	1450	1850	45	---	760	---	1700
18	**18,14**	99	325	3450	470	1500	1900	77	---	800	---	1750
20	**20,27**	89	276,8	2650	650	1250	1500	365	---	750	---	1300
22,4	**22,91**	79	312,9	2650	620	1250	1500	380	---	760	---	1300
25	**26,45**	68	325	2400	610	1200	1450	380	---	720	---	1250
28	**28,45**	63	321,1	2200	630	1200	1450	470	---	740	---	1250
31,5	**32,86**	55	325	1950	610	1150	1350	465	---	700	---	1150
35,5	**37,13**	48	325	1700	620	1150	1350	480	---	710	---	1150
40	**41,45**	43	325	1550	620	1100	1300	500	---	690	---	1100
45	**46,84**	38	325	1350	630	1100	1300	510	---	700	---	1100
50	**49,69**	36	325	1300	570	1000	1200	460	---	640	---	1000
56	**57,86**	31	323,9	1100	590	1000	1200	500	---	650	---	1050
63	**66,82**	27	325	950	550	940	1100	470	---	610	---	960
71	**75,52**	24	323,9	840	560	940	1100	480	---	620	---	960
80	**80,1**	22	325	790	510	860	1000	435	---	560	---	870
90	**90,53**	20	323,9	700	510	860	1000	440	---	560	---	870
100	**103,31**	17	325	620	450	---	---	425	---	510	---	---
112	**116,77**	15	321,2	540	455	---	---	430	---	510	---	---
125	**123,85**	15	325	520	415	---	---	395	---	470	---	---
140	**139,98**	13	321,3	455	420	---	---	400	---	470	---	---
160	**152,96**	12	325	420	390	---	---	380	---	435	---	---
180	**172,88**	10	320,6	365	390	---	---	380	---	435	---	---
200	**205,34**	8,8	325	315	375	---	---	370	---	405	---	---
224	**232,08**	7,8	317,3	270	375	---	---	375	---	405	---	---
250	**246,17**	7,3	325	260	345	---	---	345	---	375	---	---
280	**278,23**	6,5	318	225	350	---	---	345	---	375	---	---
315	**304,02**	5,9	325	210	325	---	---	320	---	350	---	---
355	**343,61**	5,2	317,3	185	325	---	---	320	---	350	---	---

30593506/EN – 07/2023

XF300e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							370 kNm
					M1			M5		M4		
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**6,75**	148	340	5400	690	1400	1850	435	---	930	---	1650
8	**7,66**	131	367,3	5150	710	1450	1850	490	---	980	---	1700
9	**8,64**	116	365,9	4550	780	1450	1850	630	---	1000	---	1650
10	**9,8**	102	368,5	4050	800	1450	1850	650	---	1050	---	1650
11,2	**10,71**	93	370	3700	820	1400	1750	680	---	990	---	1550
12,5	**12,13**	82	369,4	3250	830	1400	1750	710	---	1000	---	1550
14	**13,59**	74	370	2900	870	1400	1700	760	---	1000	---	1500
16	**15,41**	65	369,1	2550	860	1400	1700	780	---	1000	---	1500
18	**17,11**	58	370	2300	820	1350	1650	770	---	980	---	1450
20	**19,39**	52	369	2050	820	1350	1650	780	---	980	---	1450
22,4	**21,6**	46	295	1500	740	910	1100	690	---	810	---	930
25	**24,48**	41	334,3	1500	730	900	1050	680	---	800	---	920
28	**28,19**	35	347,7	1350	700	850	1000	650	---	760	---	870
31,5	**30,4**	33	343,1	1250	690	840	990	660	---	740	---	850
35,5	**35,01**	29	355,8	1100	650	790	940	630	---	700	---	800
40	**39,68**	25	369,2	1000	650	790	930	630	---	700	---	790
45	**44,16**	23	365,5	900	630	760	890	620	---	670	---	760
50	**50,05**	20	366,5	800	620	750	880	610	---	670	---	760
56	**52,94**	19	370	760	570	690	810	560	---	610	---	690
63	**61,83**	16	365,9	640	570	680	800	570	---	610	---	690
71	**71,2**	14	370	560	540	640	750	540	---	570	---	640
80	**80,69**	12	362,9	490	530	630	740	530	---	570	---	640
90	**85,35**	12	370	470	490	580	680	490	---	520	---	590
100	**96,74**	10	360,6	405	485	580	680	485	---	520	---	580
112	**110,09**	9,1	364,4	365	425	---	---	435	---	455	---	---
125	**124,76**	8	359,9	315	420	---	---	435	---	450	---	---
140	**131,98**	7,6	370	310	390	---	---	400	---	420	---	---
160	**149,57**	6,7	358,3	265	385	---	---	400	---	415	---	---
180	**162,99**	6,1	369,2	250	365	---	---	375	---	390	---	---
200	**184,72**	5,4	356,9	210	360	---	---	375	---	385	---	---
224	**218,8**	4,6	364,4	185	335	---	---	350	---	360	---	---
250	**247,98**	4	356,8	160	335	---	---	345	---	355	---	---
280	**262,31**	3,8	367	155	310	---	---	320	---	330	---	---
315	**297,28**	3,4	355,3	130	305	---	---	320	---	325	---	---
355	**323,95**	3,1	366,6	125	290	---	---	300	---	305	---	---
400	**367,15**	2,7	354,5	105	285	---	---	300	---	305	---	---
XF300e..,n_1= 1200 1/min												**370 kNm**
7,1	**6,75**	178	340	6500	375	1250	1750	0	---	720	---	1600
8	**7,66**	157	367,3	6150	440	1300	1800	0	---	800	---	1650
9	**8,64**	139	365,9	5450	630	1450	1900	360	---	870	---	1700
10	**9,8**	122	368,5	4850	640	1450	1900	400	---	920	---	1700
11,2	**10,71**	112	370	4450	690	1450	1800	510	---	910	---	1650
12,5	**12,13**	99	369,4	3900	680	1450	1800	520	---	950	---	1650
14	**13,59**	88	370	3500	770	1450	1800	590	---	960	---	1600
16	**15,41**	78	369,1	3100	770	1450	1800	620	---	980	---	1650
18	**17,11**	70	370	2800	790	1450	1750	650	---	960	---	1550
20	**19,39**	62	369	2450	760	1450	1750	660	---	960	---	1550
22,4	**21,6**	56	295	1800	740	1000	1250	640	---	820	---	1050
25	**24,48**	49	334,3	1800	730	1000	1200	630	---	810	---	1050
28	**28,19**	43	347,7	1600	700	960	1150	610	---	770	---	980
31,5	**30,4**	39	343,1	1450	690	940	1150	640	---	760	---	960
35,5	**35,01**	34	355,8	1300	660	900	1050	610	---	720	---	910
40	**39,68**	30	369,2	1200	660	890	1050	610	---	720	---	900
45	**44,16**	27	365,5	1100	640	860	1000	610	---	690	---	870
50	**50,05**	24	366,5	950	640	860	1000	610	---	690	---	860
56	**52,94**	23	370	910	580	780	930	560	---	630	---	790
63	**61,83**	19	365,9	770	580	780	910	570	---	630	---	790
71	**71,2**	17	370	680	550	730	860	540	---	590	---	740
80	**80,69**	15	362,9	590	550	720	850	530	---	590	---	730
90	**85,35**	14	370	570	500	670	780	490	---	540	---	670
100	**96,74**	12	360,6	485	500	660	770	490	---	540	---	660
112	**110,09**	11	364,4	435	440	---	---	445	---	475	---	---
125	**124,76**	9,6	359,9	380	435	---	---	445	---	475	---	---
140	**131,98**	9,1	370	370	405	---	---	410	---	440	---	---
160	**149,57**	8	358,3	315	400	---	---	410	---	435	---	---
180	**162,99**	7,4	369,2	300	375	---	---	385	---	410	---	---
200	**184,72**	6,5	356,9	255	375	---	---	385	---	405	---	---
224	**218,8**	5,5	364,4	220	355	---	---	360	---	375	---	---
250	**247,98**	4,8	356,8	190	350	---	---	360	---	375	---	---
280	**262,31**	4,6	367	185	325	---	---	335	---	345	---	---
315	**297,28**	4	355,3	160	320	---	---	330	---	345	---	---
355	**323,95**	3,7	366,6	150	300	---	---	310	---	325	---	---
400	**367,15**	3,3	354,5	125	300	---	---	310	---	320	---	---

30593506/EN – 07/2023

XF300e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							370 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
7,1	6,75	222	340	8100	0	990	1500	0	---	175	---	1350
8	7,66	196	367,3	7700	0	1050	1600	0	---	375	---	1500
9	8,64	174	365,9	6800	240	1250	1800	0	---	630	---	1650
10	9,8	153	368,5	6050	300	1350	1850	0	---	700	---	1700
11,2	10,71	140	370	5550	485	1400	1850	50	---	750	---	1650
12,5	12,13	124	369,4	4900	500	1450	1850	115	---	780	---	1700
14	13,59	110	370	4400	590	1500	1900	315	---	840	---	1700
16	15,41	97	369,1	3850	580	1500	1900	340	---	880	---	1750
18	17,11	88	370	3500	640	1500	1850	415	---	890	---	1650
20	19,39	77	369	3050	630	1500	1850	425	---	900	---	1700
22,4	21,6	69	295	2250	700	1150	1400	520	---	800	---	1200
25	24,48	61	334,3	2250	690	1150	1400	520	---	800	---	1200
28	28,19	53	347,7	2000	680	1100	1300	520	---	770	---	1150
31,5	30,4	49	343,1	1850	680	1100	1300	580	---	760	---	1100
35,5	35,01	43	355,8	1650	650	1050	1250	560	---	720	---	1050
40	39,68	38	369,2	1500	650	1050	1250	560	---	720	---	1050
45	44,16	34	365,5	1350	640	1000	1200	570	---	710	---	1000
50	50,05	30	366,5	1200	640	990	1200	570	---	710	---	1000
56	52,94	28	370	1150	590	910	1100	530	---	640	---	920
63	61,83	24	365,9	960	600	910	1050	550	---	650	---	920
71	71,2	21	370	850	560	850	1000	520	---	610	---	860
80	80,69	19	362,9	730	560	850	990	520	---	610	---	850
90	85,35	18	370	710	520	780	910	475	---	560	---	790
100	96,74	16	360,6	610	520	770	910	475	---	560	---	780
112	110,09	14	364,4	550	455	---	---	450	---	500	---	---
125	124,76	12	359,9	475	450	---	---	445	---	495	---	---
140	131,98	11	370	460	420	---	---	415	---	460	---	---
160	149,57	10	358,3	395	415	---	---	410	---	460	---	---
180	162,99	9,2	369,2	375	390	---	---	390	---	430	---	---
200	184,72	8,1	356,9	320	390	---	---	390	---	425	---	---
224	218,8	6,9	364,4	275	370	---	---	375	---	395	---	---
250	247,98	6	356,8	235	365	---	---	370	---	395	---	---
280	262,31	5,7	367	230	340	---	---	345	---	365	---	---
315	297,28	5	355,3	195	340	---	---	345	---	365	---	---
355	323,95	4,6	366,6	185	320	---	---	325	---	340	---	---
400	367,15	4,1	354,5	160	315	---	---	320	---	340	---	---
XF300e..,n_1= 1800 1/min												370 kNm
7,1	6,75	267	340	9750	0	410	1050	0	---	0	---	990
8	7,66	235	367,3	9250	0	530	1150	0	---	0	---	1150
9	8,64	208	365,9	8200	0	1050	1600	0	---	210	---	1400
10	9,8	184	368,5	7250	0	1100	1650	0	---	370	---	1550
11,2	10,71	168	370	6650	100	1250	1750	0	---	540	---	1600
12,5	12,13	148	369,4	5900	170	1300	1800	0	---	600	---	1700
14	13,59	132	370	5250	400	1450	1900	0	---	700	---	1750
16	15,41	117	369,1	4650	405	1500	1900	0	---	730	---	1800
18	17,11	105	370	4200	490	1500	1900	62	---	770	---	1750
20	19,39	93	369	3700	475	1500	1900	93	---	800	---	1750
22,4	21,6	83	295	2650	640	1250	1550	380	---	770	---	1350
25	24,48	74	334,3	2650	630	1250	1550	385	---	770	---	1300
28	28,19	64	347,7	2400	630	1200	1450	395	---	740	---	1250
31,5	30,4	59	343,1	2200	640	1200	1450	480	---	740	---	1250
35,5	35,01	51	355,8	2000	630	1150	1400	480	---	710	---	1200
40	39,68	45	369,2	1800	630	1150	1350	485	---	720	---	1150
45	44,16	41	365,5	1600	630	1100	1350	510	---	710	---	1150
50	50,05	36	366,5	1450	630	1100	1350	510	---	710	---	1150
56	52,94	34	370	1350	580	1000	1200	475	---	650	---	1050
63	61,83	29	365,9	1150	590	1000	1200	510	---	660	---	1050
71	71,2	25	370	1000	560	960	1150	480	---	620	---	980
80	80,69	22	362,9	880	560	950	1100	485	---	620	---	970
90	85,35	21	370	850	520	880	1050	445	---	570	---	890
100	96,74	19	360,6	730	520	870	1050	445	---	570	---	880
112	110,09	16	364,4	650	460	---	---	435	---	510	---	---
125	124,76	14	359,9	570	455	---	---	435	---	510	---	---
140	131,98	14	370	550	425	---	---	405	---	475	---	---
160	149,57	12	358,3	475	425	---	---	405	---	475	---	---
180	162,99	11	369,2	450	400	---	---	385	---	445	---	---
200	184,72	9,7	356,9	380	395	---	---	385	---	440	---	---
224	218,8	8,2	364,4	330	380	---	---	380	---	415	---	---
250	247,98	7,3	356,8	285	380	---	---	380	---	410	---	---
280	262,31	6,9	367	275	355	---	---	350	---	385	---	---
315	297,28	6,1	355,3	235	350	---	---	350	---	380	---	---
355	323,95	5,6	366,6	225	330	---	---	330	---	355	---	---
400	367,15	4,9	354,5	190	325	---	---	325	---	355	---	---

30593506/EN – 07/2023

XF310e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							450 kNm
					M1			M5		M4		
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
6,3	**6,63**	151	397,5	6450	850	1500	1950	590	---	1050	---	1750
7,1	**7,51**	133	431,7	6150	850	1500	1950	640	---	1100	---	1750
8	**8,04**	124	402,5	5350	900	1500	1950	720	---	1150	---	1750
9	**9,1**	110	437,1	5150	890	1500	1900	750	---	1150	---	1750
10	**10,17**	98	410,6	4350	990	1550	1950	840	---	1200	---	1750
11,2	**11,52**	87	445,5	4150	980	1550	1900	850	---	1200	---	1700
12,5	**12,89**	78	410,5	3400	1000	1550	1850	890	---	1150	---	1650
14	**14,59**	69	450	3300	990	1500	1850	890	---	1150	---	1650
16	**16,49**	61	450	2950	920	1450	1750	860	---	1100	---	1550
18	**18,16**	55	450	2650	880	1400	1700	840	---	1100	---	1500
20	**20,94**	48	450	2350	860	1000	1200	700	---	950	---	1050
22,4	**23,07**	43	450	2100	840	990	1150	690	---	920	---	1000
25	**25,98**	38	450	1900	840	1000	1150	700	---	920	---	1000
28	**29,33**	34	450	1650	780	910	1050	710	---	840	---	930
31,5	**33,03**	30	450	1500	780	910	1050	720	---	840	---	920
35,5	**36,39**	27	450	1350	760	890	1050	700	---	820	---	900
40	**41,78**	24	450	1150	750	880	1000	710	---	810	---	890
45	**46,03**	22	450	1050	730	850	990	690	---	790	---	860
50	**52,25**	19	450	940	700	810	940	660	---	750	---	820
56	**57,42**	17	447	850	670	770	900	650	---	710	---	780
63	**64,67**	15	450	760	660	760	880	640	---	700	---	770
71	**71,25**	14	447	680	640	740	850	620	---	680	---	740
80	**80,87**	12	450	600	610	700	810	600	---	650	---	710
90	**89,1**	11	447	540	590	680	790	580	---	630	---	680
100	**108,56**	9,2	450	455	495	---	---	510	---	530	---	---
112	**119,6**	8,4	442,4	405	480	---	---	495	---	520	---	---
125	**135,76**	7,4	450	365	460	---	---	470	---	500	---	---
140	**149,56**	6,7	442,4	325	445	---	---	460	---	485	---	---
160	**162,03**	6,2	450	305	445	---	---	460	---	475	---	---
180	**178,5**	5,6	438,8	270	435	---	---	450	---	465	---	---
200	**203,96**	4,9	448,9	240	410	---	---	420	---	435	---	---
224	**224,7**	4,5	437,9	215	395	---	---	410	---	425	---	---
250	**255,06**	3,9	449,8	195	380	---	---	390	---	405	---	---
280	**281**	3,6	438,8	170	370	---	---	380	---	395	---	---
315	**313,92**	3,2	448,9	155	360	---	---	375	---	385	---	---
355	**345,84**	2,9	437,9	140	350	---	---	365	---	375	---	---
XF310e..,n_1= 1200 1/min												**450 kNm**
6,3	**6,63**	181	397,5	7700	560	1350	1900	48	---	860	---	1650
7,1	**7,51**	160	431,7	7400	610	1400	1950	180	---	930	---	1750
8	**8,04**	149	402,5	6450	730	1500	1950	420	---	970	---	1750
9	**9,1**	132	437,1	6200	730	1500	1950	475	---	1000	---	1800
10	**10,17**	118	410,6	5200	820	1600	2000	620	---	1100	---	1800
11,2	**11,52**	104	445,5	5000	810	1550	2000	640	---	1100	---	1800
12,5	**12,89**	93	410,5	4100	900	1600	1950	700	---	1100	---	1750
14	**14,59**	82	450	3950	880	1550	1950	710	---	1100	---	1750
16	**16,49**	73	450	3500	840	1500	1850	700	---	1100	---	1700
18	**18,16**	66	450	3200	770	1450	1800	690	---	1050	---	1650
20	**20,94**	57	450	2800	840	1100	1350	600	---	940	---	1150
22,4	**23,07**	52	450	2550	820	1100	1300	590	---	920	---	1100
25	**25,98**	46	450	2250	830	1100	1300	610	---	930	---	1100
28	**29,33**	41	450	2000	770	1000	1200	670	---	860	---	1050
31,5	**33,03**	36	450	1800	780	1000	1200	670	---	850	---	1050
35,5	**36,39**	33	450	1600	760	980	1150	660	---	830	---	1000
40	**41,78**	29	450	1400	760	980	1150	680	---	830	---	990
45	**46,03**	26	450	1250	740	950	1150	660	---	810	---	960
50	**52,25**	23	450	1100	710	900	1100	640	---	770	---	920
56	**57,42**	21	447	1000	680	860	1000	640	---	740	---	870
63	**64,67**	19	450	910	670	850	1000	630	---	730	---	860
71	**71,25**	17	447	820	650	830	970	620	---	710	---	840
80	**80,87**	15	450	730	620	790	920	590	---	670	---	800
90	**89,1**	13	447	650	610	760	900	570	---	660	---	770
100	**108,56**	11	450	550	510	---	---	510	---	560	---	---
112	**119,6**	10	442,4	490	495	---	---	500	---	540	---	---
125	**135,76**	8,8	450	435	475	---	---	480	---	520	---	---
140	**149,56**	8	442,4	390	460	---	---	465	---	510	---	---
160	**162,03**	7,4	450	365	465	---	---	475	---	500	---	---
180	**178,5**	6,7	438,8	325	455	---	---	465	---	485	---	---
200	**203,96**	5,9	448,9	290	425	---	---	435	---	455	---	---
224	**224,7**	5,3	437,9	255	415	---	---	425	---	445	---	---
250	**255,06**	4,7	449,8	235	395	---	---	405	---	425	---	---
280	**281**	4,3	438,8	205	385	---	---	395	---	415	---	---
315	**313,92**	3,8	448,9	190	375	---	---	385	---	405	---	---
355	**345,84**	3,5	437,9	165	365	---	---	375	---	390	---	---

30593506/EN – 07/2023

XF310e..,n_1= 1500 1/min					P_{TH} 20 °C / KW							450 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
		min^{-1}	kNm	kW		RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
6,3	**6,63**	226	397,5	9650	0	1150	1650	0	---	305	---	1400
7,1	**7,51**	200	431,7	9250	0	1200	1700	0	---	500	---	1550
8	**8,04**	187	402,5	8050	295	1300	1850	0	---	690	---	1650
9	**9,1**	165	437,1	7750	355	1300	1900	0	---	770	---	1700
10	**10,17**	147	410,6	6500	580	1550	2000	100	---	890	---	1850
11,2	**11,52**	130	445,5	6200	590	1550	2000	185	---	930	---	1850
12,5	**12,89**	116	410,5	5150	680	1600	2000	375	---	970	---	1850
14	**14,59**	103	450	4950	670	1550	2000	405	---	990	---	1850
16	**16,49**	91	450	4400	630	1500	1900	410	---	980	---	1800
18	**18,16**	83	450	4000	610	1450	1850	405	---	970	---	1750
20	**20,94**	72	450	3500	760	1250	1550	450	---	910	---	1300
22,4	**23,07**	65	450	3200	750	1200	1500	445	---	890	---	1300
25	**25,98**	58	450	2800	780	1250	1500	465	---	910	---	1300
28	**29,33**	51	450	2500	740	1150	1400	560	---	850	---	1200
31,5	**33,03**	45	450	2200	760	1150	1400	580	---	850	---	1200
35,5	**36,39**	41	450	2000	740	1100	1350	570	---	830	---	1150
40	**41,78**	36	450	1750	760	1150	1350	600	---	840	---	1150
45	**46,03**	33	450	1600	740	1100	1300	590	---	820	---	1100
50	**52,25**	29	450	1400	710	1050	1250	570	---	790	---	1050
56	**57,42**	26	447	1250	690	1000	1200	600	---	750	---	1000
63	**64,67**	23	450	1150	680	990	1150	600	---	750	---	1000
71	**71,25**	21	447	1000	660	960	1150	580	---	730	---	980
80	**80,87**	19	450	910	630	920	1100	560	---	700	---	930
90	**89,1**	17	447	820	620	890	1050	540	---	680	---	900
100	**108,56**	14	450	680	520	---	---	510	---	580	---	---
112	**119,6**	13	442,4	610	510	---	---	495	---	570	---	---
125	**135,76**	11	450	550	485	---	---	475	---	550	---	---
140	**149,56**	10	442,4	490	475	---	---	465	---	530	---	---
160	**162,03**	9,3	450	460	485	---	---	485	---	530	---	---
180	**178,5**	8,4	438,8	405	475	---	---	475	---	510	---	---
200	**203,96**	7,4	448,9	365	445	---	---	450	---	480	---	---
224	**224,7**	6,7	437,9	320	430	---	---	435	---	465	---	---
250	**255,06**	5,9	449,8	290	415	---	---	415	---	450	---	---
280	**281**	5,3	438,8	255	405	---	---	405	---	435	---	---
315	**313,92**	4,8	448,9	235	390	---	---	395	---	425	---	---
355	**345,84**	4,3	437,9	210	380	---	---	385	---	415	---	---
XF310e..,n_1= 1800 1/min												**450 kNm**
6,3	**6,63**	271	397,5	11600	0	650	1300	0	---	0	---	1000
7,1	**7,51**	240	431,7	11100	0	740	1350	0	---	0	---	1200
8	**8,04**	224	402,5	9650	0	1100	1650	0	---	140	---	1400
9	**9,1**	198	437,1	9300	0	1150	1700	0	---	360	---	1500
10	**10,17**	177	410,6	7800	130	1300	1900	0	---	630	---	1750
11,2	**11,52**	156	445,5	7450	200	1350	1950	0	---	710	---	1800
12,5	**12,89**	140	410,5	6150	440	1500	2000	0	---	800	---	1850
14	**14,59**	123	450	5950	450	1500	2000	0	---	830	---	1850
16	**16,49**	109	450	5250	430	1450	1950	0	---	820	---	1850
18	**18,16**	99	450	4800	415	1400	1850	0	---	800	---	1800
20	**20,94**	86	450	4200	690	1350	1650	195	---	830	---	1400
22,4	**23,07**	78	450	3800	650	1300	1600	205	---	830	---	1400
25	**25,98**	69	450	3400	700	1350	1650	255	---	860	---	1400
28	**29,33**	61	450	3000	680	1250	1550	430	---	820	---	1300
31,5	**33,03**	54	450	2650	710	1250	1550	455	---	830	---	1300
35,5	**36,39**	49	450	2400	700	1250	1500	450	---	820	---	1300
40	**41,78**	43	450	2100	730	1250	1500	500	---	830	---	1300
45	**46,03**	39	450	1900	720	1200	1450	490	---	810	---	1250
50	**52,25**	34	450	1700	690	1150	1400	480	---	780	---	1200
56	**57,42**	31	447	1500	680	1100	1350	520	---	760	---	1150
63	**64,67**	28	450	1350	670	1100	1300	530	---	750	---	1150
71	**71,25**	25	447	1250	660	1100	1300	510	---	730	---	1100
80	**80,87**	22	450	1100	630	1050	1200	495	---	700	---	1050
90	**89,1**	20	447	980	610	1000	1200	485	---	690	---	1000
100	**108,56**	17	450	820	520	---	---	480	---	600	---	---
112	**119,6**	15	442,4	730	510	---	---	470	---	580	---	---
125	**135,76**	13	450	660	485	---	---	455	---	560	---	---
140	**149,56**	12	442,4	590	475	---	---	445	---	550	---	---
160	**162,03**	11	450	550	495	---	---	485	---	550	---	---
180	**178,5**	10	438,8	485	485	---	---	475	---	530	---	---
200	**203,96**	8,8	448,9	435	455	---	---	450	---	500	---	---
224	**224,7**	8	437,9	385	445	---	---	435	---	485	---	---
250	**255,06**	7,1	449,8	350	425	---	---	420	---	465	---	---
280	**281**	6,4	438,8	310	415	---	---	405	---	455	---	---
315	**313,92**	5,7	448,9	285	405	---	---	400	---	445	---	---
355	**345,84**	5,2	437,9	250	390	---	---	390	---	430	---	---

30593506/EN – 07/2023

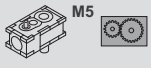
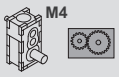
XF320e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							500 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,17**	139	435,3	6500	860	1500	2000	590	---	1050	---	1750
8	**8,11**	123	470,1	6200	840	1500	1950	640	---	1100	---	1750
9	**8,7**	115	440,9	5450	900	1550	1950	730	---	1150	---	1750
10	**9,84**	102	476,2	5200	880	1500	1900	740	---	1150	---	1700
11,2	**11**	91	444,5	4350	990	1600	1950	850	---	1200	---	1750
12,5	**12,45**	80	485,5	4200	970	1550	1900	850	---	1200	---	1700
14	**13,94**	72	442,4	3400	1000	1550	1900	910	---	1200	---	1650
16	**15,76**	63	493,6	3350	970	1500	1850	890	---	1150	---	1600
18	**17,6**	57	500	3050	920	1500	1800	890	---	1150	---	1600
20	**19,28**	52	500	2800	910	1450	1750	880	---	1150	---	1600
22,4	**22,36**	45	500	2450	880	1050	1250	720	---	970	---	1050
25	**24,49**	41	500	2200	870	1050	1200	710	---	960	---	1050
28	**27,74**	36	500	1950	860	1000	1200	710	---	940	---	1050
31,5	**31,13**	32	500	1750	800	940	1100	740	---	870	---	960
35,5	**35,27**	28	500	1550	790	930	1100	730	---	860	---	940
40	**38,63**	26	500	1400	780	920	1050	720	---	850	---	930
45	**44,62**	22	500	1200	770	900	1050	730	---	830	---	910
50	**48,86**	20	500	1100	760	880	1050	710	---	810	---	890
56	**55,79**	18	500	970	710	830	970	670	---	770	---	840
63	**60,96**	16	500	890	690	800	930	670	---	740	---	810
71	**69,06**	14	500	790	670	780	900	660	---	720	---	790
80	**75,63**	13	500	720	660	760	880	650	---	710	---	770
90	**86,36**	12	500	630	620	720	830	610	---	660	---	720
100	**94,58**	11	500	570	610	700	810	600	---	650	---	710
112	**115,92**	8,6	500	475	500	---	---	520	---	550	---	---
125	**126,96**	7,9	500	435	495	---	---	510	---	540	---	---
140	**144,96**	6,9	500	380	470	---	---	480	---	510	---	---
160	**158,77**	6,3	499	345	460	---	---	475	---	500	---	---
180	**173,01**	5,8	500	320	455	---	---	470	---	485	---	---
200	**189,49**	5,3	499	290	450	---	---	465	---	480	---	---
224	**217,79**	4,6	500	250	415	---	---	430	---	445	---	---
250	**238,53**	4,2	496,9	230	410	---	---	420	---	435	---	---
280	**272,35**	3,7	500	200	385	---	---	400	---	415	---	---
315	**298,29**	3,4	494,5	180	380	---	---	395	---	405	---	---
355	**335,2**	3	500	165	365	---	---	380	---	395	---	---
400	**367,12**	2,7	493,5	150	360	---	---	375	---	385	---	---
XF320e..,n_1= 1200 1/min												**500 kNm**
7,1	**7,17**	167	435,3	7800	550	1350	1900	0	---	850	---	1650
8	**8,11**	148	470,1	7450	590	1400	1900	170	---	920	---	1700
9	**8,7**	138	440,9	6550	740	1500	2000	415	---	980	---	1750
10	**9,84**	122	476,2	6250	730	1500	1950	475	---	990	---	1750
11,2	**11**	109	444,5	5200	830	1600	2050	630	---	1100	---	1850
12,5	**12,45**	96	485,5	5000	810	1550	1950	640	---	1100	---	1800
14	**13,94**	86	442,4	4100	910	1600	2000	710	---	1150	---	1800
16	**15,76**	76	493,6	4050	870	1550	1900	710	---	1100	---	1750
18	**17,6**	68	500	3650	840	1550	1900	720	---	1100	---	1700
20	**19,28**	62	500	3350	800	1500	1850	720	---	1100	---	1700
22,4	**22,36**	54	500	2900	860	1150	1400	620	---	960	---	1150
25	**24,49**	49	500	2650	850	1100	1350	620	---	950	---	1150
28	**27,74**	43	500	2350	850	1100	1350	630	---	950	---	1150
31,5	**31,13**	39	500	2100	800	1050	1250	690	---	880	---	1050
35,5	**35,27**	34	500	1850	800	1050	1250	690	---	870	---	1050
40	**38,63**	31	500	1700	790	1000	1200	680	---	860	---	1050
45	**44,62**	27	500	1450	780	1000	1200	700	---	850	---	1000
50	**48,86**	25	500	1350	770	980	1150	690	---	840	---	1000
56	**55,79**	22	500	1150	730	930	1100	650	---	790	---	940
63	**60,96**	20	500	1050	700	890	1050	660	---	760	---	900
71	**69,06**	17	500	940	690	870	1050	650	---	740	---	880
80	**75,63**	16	500	860	680	860	1000	640	---	730	---	870
90	**86,36**	14	500	750	640	800	950	610	---	690	---	810
100	**94,58**	13	500	690	630	790	930	600	---	680	---	800
112	**115,92**	10	500	570	520	---	---	530	---	570	---	---
125	**126,96**	9,5	500	520	510	---	---	520	---	560	---	---
140	**144,96**	8,3	500	455	485	---	---	490	---	530	---	---
160	**158,77**	7,6	499	415	475	---	---	485	---	520	---	---
180	**173,01**	6,9	500	380	475	---	---	485	---	510	---	---
200	**189,49**	6,3	499	345	470	---	---	480	---	500	---	---
224	**217,79**	5,5	500	305	435	---	---	445	---	465	---	---
250	**238,53**	5	496,9	275	430	---	---	435	---	460	---	---
280	**272,35**	4,4	500	240	405	---	---	415	---	435	---	---
315	**298,29**	4	494,5	220	400	---	---	405	---	425	---	---
355	**335,2**	3,6	500	195	385	---	---	395	---	410	---	---
400	**367,12**	3,3	493,5	175	375	---	---	385	---	405	---	---

30593506/EN – 07/2023

XF320e..,n_1= 1500 1/min				P_{TH} 20 °C / KW								500 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1			M5		M4		
						RAD	RAD /DUO		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW								
7,1	**7,17**	209	435,3	9750	0	1100	1650	0	---	270	---	1400
8	**8,11**	185	470,1	9350	0	1150	1700	0	---	480	---	1500
9	**8,7**	172	440,9	8150	265	1300	1850	0	---	680	---	1650
10	**9,84**	152	476,2	7800	345	1300	1850	0	---	760	---	1700
11,2	**11**	136	444,5	6500	590	1550	2050	95	---	900	---	1850
12,5	**12,45**	120	485,5	6300	590	1500	2000	190	---	920	---	1850
14	**13,94**	108	442,4	5100	690	1600	2050	385	---	980	---	1850
16	**15,76**	95	493,6	5050	670	1550	2000	410	---	980	---	1850
18	**17,6**	85	500	4550	650	1550	1950	425	---	1000	---	1850
20	**19,28**	78	500	4150	620	1550	1950	430	---	1000	---	1800
22,4	**22,36**	67	500	3650	780	1250	1550	470	---	930	---	1350
25	**24,49**	61	500	3350	780	1250	1550	465	---	930	---	1300
28	**27,74**	54	500	2950	800	1250	1550	485	---	930	---	1300
31,5	**31,13**	48	500	2600	770	1200	1450	580	---	880	---	1250
35,5	**35,27**	43	500	2300	770	1200	1400	600	---	870	---	1200
40	**38,63**	39	500	2100	770	1150	1400	590	---	860	---	1200
45	**44,62**	34	500	1850	780	1150	1400	620	---	860	---	1150
50	**48,86**	31	500	1650	770	1150	1350	620	---	850	---	1150
56	**55,79**	27	500	1450	730	1050	1300	590	---	800	---	1100
63	**60,96**	25	500	1350	710	1050	1250	620	---	780	---	1050
71	**69,06**	22	500	1200	700	1000	1200	610	---	760	---	1050
80	**75,63**	20	500	1100	690	990	1200	600	---	750	---	1000
90	**86,36**	17	500	940	650	940	1100	570	---	710	---	950
100	**94,58**	16	500	860	640	920	1100	560	---	700	---	930
112	**115,92**	13	500	710	530	---	---	520	---	590	---	---
125	**126,96**	12	500	650	520	---	---	510	---	590	---	---
140	**144,96**	10	500	570	495	---	---	485	---	560	---	---
160	**158,77**	9,4	499	520	490	---	---	485	---	550	---	---
180	**173,01**	8,7	500	475	495	---	---	500	---	540	---	---
200	**189,49**	7,9	499	435	490	---	---	490	---	530	---	---
224	**217,79**	6,9	500	380	455	---	---	455	---	490	---	---
250	**238,53**	6,3	496,9	345	445	---	---	450	---	480	---	---
280	**272,35**	5,5	500	305	425	---	---	425	---	460	---	---
315	**298,29**	5	494,5	275	415	---	---	420	---	450	---	---
355	**335,2**	4,5	500	245	400	---	---	405	---	435	---	---
400	**367,12**	4,1	493,5	220	395	---	---	400	---	425	---	---
XF320e..,n_1= 1800 1/min												**500 kNm**
7,1	**7,17**	251	435,3	11750	0	630	1300	0	---	0	---	980
8	**8,11**	222	470,1	11200	0	730	1350	0	---	0	---	1200
9	**8,7**	207	440,9	9800	0	1100	1650	0	---	105	---	1400
10	**9,84**	183	476,2	9350	0	1150	1650	0	---	345	---	1500
11,2	**11**	164	444,5	7800	115	1350	1900	0	---	630	---	1750
12,5	**12,45**	145	485,5	7550	195	1350	1900	0	---	700	---	1800
14	**13,94**	129	442,4	6150	455	1550	2050	0	---	810	---	1900
16	**15,76**	114	493,6	6050	450	1500	2000	0	---	830	---	1850
18	**17,6**	102	500	5500	450	1500	2000	0	---	840	---	1850
20	**19,28**	93	500	5000	435	1500	1950	0	---	840	---	1850
22,4	**22,36**	81	500	4350	680	1350	1700	210	---	850	---	1450
25	**24,49**	73	500	4000	670	1350	1700	220	---	850	---	1450
28	**27,74**	65	500	3500	710	1350	1700	270	---	880	---	1450
31,5	**31,13**	58	500	3150	700	1300	1600	455	---	850	---	1350
35,5	**35,27**	51	500	2750	730	1300	1600	470	---	850	---	1350
40	**38,63**	47	500	2550	720	1300	1550	475	---	840	---	1350
45	**44,62**	40	500	2200	750	1300	1550	520	---	850	---	1300
50	**48,86**	37	500	2000	740	1250	1500	510	---	840	---	1300
56	**55,79**	32	500	1750	710	1200	1450	500	---	800	---	1200
63	**60,96**	30	500	1600	700	1150	1400	540	---	780	---	1200
71	**69,06**	26	500	1400	690	1150	1350	540	---	770	---	1150
80	**75,63**	24	500	1300	680	1100	1350	540	---	760	---	1150
90	**86,36**	21	500	1150	640	1050	1250	510	---	720	---	1100
100	**94,58**	19	500	1050	640	1050	1200	500	---	710	---	1050
112	**115,92**	16	500	850	530	---	---	495	---	610	---	---
125	**126,96**	14	500	780	520	---	---	490	---	600	---	---
140	**144,96**	12	500	680	500	---	---	465	---	570	---	---
160	**158,77**	11	499	620	490	---	---	460	---	560	---	---
180	**173,01**	10	500	570	510	---	---	495	---	560	---	---
200	**189,49**	9,5	499	520	500	---	---	490	---	550	---	---
224	**217,79**	8,3	500	455	465	---	---	460	---	510	---	---
250	**238,53**	7,5	496,9	410	455	---	---	450	---	500	---	---
280	**272,35**	6,6	500	365	435	---	---	430	---	475	---	---
315	**298,29**	6	494,5	330	430	---	---	420	---	465	---	---
355	**335,2**	5,4	500	295	410	---	---	410	---	455	---	---
400	**367,12**	4,9	493,5	265	405	---	---	400	---	445	---	---

30593506/EN – 07/2023

6.3 X.K..

XK100e..,n_1= 1000 1/min					P_{TH} 20 °C / KW							7.2 kNm	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1				 M5			 M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /FO
7,1	**6,88**	145	7,2	110	66	125	145	---	30	66	66	26	62
8	**7,69**	130	7,2	100	71	135	150	---	33	71	71	29	67
9	**8,71**	115	6,69	82	65	115	125	---	49	74	73	45	70
10	**9,75**	103	7,2	79	69	120	130	---	52	77	77	48	73
11,2	**10,64**	94	6,91	70	61	105	115	---	50	71	71	46	68
12,5	**11,91**	84	7,2	65	64	110	120	---	52	74	74	48	70
14	**13,47**	74	7,2	58	60	98	110	---	51	70	69	51	70
16	**15,08**	66	7,2	52	62	100	110	---	53	72	71	53	72
18	**17,05**	59	7,2	46	56	91	100	---	48	65	65	48	65
20	**19,09**	52	7,2	41	58	93	105	---	50	67	67	50	67
22,4	**21,09**	47	7,2	37	51	82	91	---	44	59	59	44	59
25	**24,55**	41	7,2	32	53	85	94	---	48	64	64	48	63
28	**27,12**	37	7,2	29	47	75	83	---	43	57	56	43	56
31,5	**30,35**	33	7,2	26	48	77	85	---	44	58	58	44	58
35,5	**34,35**	29	7,2	23	42	67	74	---	39	51	51	39	51
40	**38,45**	26	7,2	20	43	68	76	---	40	52	52	40	52
45	**42,96**	23	7,2	18	39	61	67	---	36	47	47	36	47
50	**48,08**	21	7,2	16	39	63	69	---	37	48	48	37	48
56	**52,49**	19	7,2	15	35	56	62	---	34	43	43	33	43
63	**58,74**	17	7,2	13	36	57	63	---	34	44	44	34	44
71	**67,2**	15	7,2	12	31	49	55	---	30	38	38	29	38
80	**75,21**	13	7,2	10	32	51	56	---	30	39	39	30	39
XK100e..,n_1= 1200 1/min													7.2 kNm
7,1	**6,88**	174	7,2	135	52	140	160	---	0	51	50	0	46
8	**7,69**	156	7,2	120	57	145	165	---	0	56	55	0	51
9	**8,71**	138	6,69	99	62	125	140	---	32	74	74	26	69
10	**9,75**	123	7,2	95	65	130	150	---	35	78	77	28	73
11,2	**10,64**	113	6,91	84	59	115	130	---	41	74	74	34	69
12,5	**11,91**	101	7,2	78	62	120	135	---	43	78	77	37	72
14	**13,47**	89	7,2	70	60	110	125	---	45	75	74	45	75
16	**15,08**	80	7,2	62	62	115	125	---	47	77	76	47	77
18	**17,05**	70	7,2	55	56	105	115	---	43	70	70	43	70
20	**19,09**	63	7,2	49	58	105	120	---	45	72	72	45	72
22,4	**21,09**	57	7,2	44	52	93	105	---	40	65	64	40	65
25	**24,55**	49	7,2	38	54	97	110	---	47	71	70	46	70
28	**27,12**	44	7,2	35	48	86	95	---	42	63	63	42	62
31,5	**30,35**	40	7,2	31	50	88	97	---	43	64	64	43	64
35,5	**34,35**	35	7,2	27	43	76	84	---	39	58	57	39	57
40	**38,45**	31	7,2	24	44	78	86	---	40	59	59	40	58
45	**42,96**	28	7,2	22	40	70	77	---	36	53	53	36	53
50	**48,08**	25	7,2	19	41	72	79	---	37	54	54	37	54
56	**52,49**	23	7,2	18	37	64	71	---	34	49	49	33	49
63	**58,74**	20	7,2	16	38	66	72	---	35	50	50	34	50
71	**67,2**	18	7,2	14	32	57	62	---	30	44	43	30	43
80	**75,21**	16	7,2	13	33	58	64	---	31	45	44	31	44

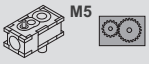
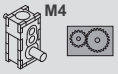
30593506/EN – 07/2023

XK100e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /FO
7,1	**6,88**	218	7,2	170	25	150	175	---	0	0	0	0	0
8	**7,69**	195	7,2	150	29	160	180	---	0	8	7	0	0
9	**8,71**	172	6,69	125	51	140	160	---	0	65	64	0	57
10	**9,75**	154	7,2	120	55	145	165	---	0	69	68	0	61
11,2	**10,64**	141	6,91	105	53	130	150	---	13	72	72	0	65
12,5	**11,91**	126	7,2	98	56	135	155	---	16	76	75	2	68
14	**13,47**	111	7,2	87	58	125	140	---	28	75	75	29	77
16	**15,08**	99	7,2	78	60	130	145	---	29	78	78	31	79
18	**17,05**	88	7,2	69	55	120	130	---	29	73	72	30	74
20	**19,09**	79	7,2	61	57	120	135	---	31	75	75	32	76
22,4	**21,09**	71	7,2	56	50	105	120	---	29	68	67	29	68
25	**24,55**	61	7,2	48	55	110	125	---	42	77	77	41	77
28	**27,12**	55	7,2	43	49	99	110	---	37	69	69	37	69
31,5	**30,35**	49	7,2	39	50	100	115	---	39	71	71	38	71
35,5	**34,35**	44	7,2	34	44	88	98	---	38	65	65	37	64
40	**38,45**	39	7,2	30	45	90	100	---	39	66	66	38	66
45	**42,96**	35	7,2	27	41	81	90	---	35	60	60	34	59
50	**48,08**	31	7,2	24	42	83	92	---	36	61	61	35	60
56	**52,49**	29	7,2	23	38	74	82	---	34	56	56	33	55
63	**58,74**	26	7,2	20	39	76	84	---	34	57	57	34	56
71	**67,2**	22	7,2	18	34	66	73	---	30	50	50	30	49
80	**75,21**	20	7,2	16	34	67	74	---	31	51	51	30	50
XK100e..,n_1= 1800 1/min													7.2 kNm
7,1	**6,88**	262	7,2	200	0	155	180	---	0	0	0	0	0
8	**7,69**	234	7,2	180	0	160	190	---	0	0	0	0	0
9	**8,71**	207	6,69	150	31	150	170	---	0	36	35	0	24
10	**9,75**	185	7,2	140	35	155	180	---	0	40	39	0	28
11,2	**10,64**	169	6,91	125	40	140	160	---	0	62	62	0	50
12,5	**11,91**	151	7,2	120	45	145	165	---	0	66	65	0	54
14	**13,47**	134	7,2	105	52	140	155	---	0	69	68	4	71
16	**15,08**	119	7,2	93	55	145	160	---	0	72	71	5	74
18	**17,05**	106	7,2	82	50	130	145	---	7	69	68	10	71
20	**19,09**	94	7,2	74	52	135	150	---	8	71	71	11	73
22,4	**21,09**	85	7,2	67	46	120	130	---	10	65	64	12	66
25	**24,55**	73	7,2	57	54	125	140	---	30	80	80	30	80
28	**27,12**	66	7,2	52	48	110	120	---	28	72	72	27	72
31,5	**30,35**	59	7,2	46	49	115	125	---	29	74	74	28	74
35,5	**34,35**	52	7,2	41	45	99	110	---	34	70	70	33	69
40	**38,45**	47	7,2	37	46	100	110	---	35	71	71	34	70
45	**42,96**	42	7,2	33	41	91	100	---	31	65	64	30	64
50	**48,08**	37	7,2	29	42	93	105	---	32	66	66	31	65
56	**52,49**	34	7,2	27	39	84	93	---	32	61	61	30	60
63	**58,74**	31	7,2	24	39	85	95	---	32	62	62	31	61
71	**67,2**	27	7,2	21	34	74	81	---	30	55	54	29	54
80	**75,21**	24	7,2	19	35	75	83	---	30	56	56	29	55

30593506/EN – 07/2023

XK110e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /FO
8	**7,91**	126	9	120	77	140	160	---	39	79	79	34	75
9	**8,86**	113	8,92	110	81	145	160	---	42	84	83	38	79
10	**10,02**	100	7,7	82	73	125	140	---	57	83	83	53	79
11,2	**11,22**	89	8,62	82	76	130	145	---	58	85	85	54	82
12,5	**12,24**	82	7,95	70	68	115	130	---	56	79	79	52	76
14	**13,71**	73	8,76	69	70	120	130	---	58	81	81	54	78
16	**15,5**	65	8,46	59	65	105	120	---	56	76	76	56	76
18	**17,36**	58	8,86	55	66	110	120	---	57	77	77	57	77
20	**19,62**	51	9	50	61	98	110	---	53	71	71	53	71
22,4	**21,97**	46	8,9	44	62	100	110	---	54	72	72	53	72
25	**24,26**	41	9	40	55	89	98	---	48	64	64	48	64
28	**28,26**	35	8,92	34	57	91	100	---	52	68	68	52	68
31,5	**31,21**	32	9	31	51	81	90	---	47	61	61	46	61
35,5	**34,94**	29	8,94	28	52	82	91	---	47	62	62	47	62
40	**39,53**	25	9	25	45	72	79	---	43	55	55	42	55
45	**44,26**	23	8,94	22	46	73	80	---	43	56	56	43	56
50	**49,44**	20	9	20	41	66	73	---	39	51	51	39	50
56	**55,35**	18	8,98	18	42	67	74	---	40	51	51	39	51
63	**60,4**	17	9	16	38	60	67	---	36	47	47	36	46
71	**67,62**	15	8,99	15	39	61	67	---	37	47	47	36	47
80	**77,33**	13	9	13	34	53	59	---	32	41	41	32	41
90	**86,58**	12	8,99	11	34	54	59	---	33	42	42	32	42
XK110e..,n_1= 1200 1/min													9 kNm
8	**7,91**	152	9	145	63	155	175	---	0	65	64	0	60
9	**8,86**	135	8,92	130	67	160	180	---	3	70	69	0	64
10	**10,02**	120	7,7	99	70	140	155	---	42	85	84	34	80
11,2	**11,22**	107	8,62	99	72	145	160	---	44	87	87	36	82
12,5	**12,24**	98	7,95	84	66	130	145	---	47	84	84	42	79
14	**13,71**	88	8,76	83	68	130	145	---	49	86	86	43	81
16	**15,5**	77	8,46	71	66	120	135	---	50	82	81	50	82
18	**17,36**	69	8,86	66	67	120	135	---	51	83	83	52	83
20	**19,62**	61	9	60	61	110	125	---	48	77	77	48	77
22,4	**21,97**	55	8,9	53	62	115	125	---	49	78	78	50	78
25	**24,26**	49	9	48	56	100	110	---	45	70	70	45	70
28	**28,26**	42	8,92	41	58	105	115	---	51	76	75	50	75
31,5	**31,21**	38	9	38	52	93	100	---	46	68	68	45	68
35,5	**34,94**	34	8,94	33	53	94	105	---	46	69	69	46	69
40	**39,53**	30	9	30	47	82	91	---	43	62	62	42	62
45	**44,26**	27	8,94	26	47	83	92	---	43	63	63	43	62
50	**49,44**	24	9	24	43	75	83	---	39	57	57	39	57
56	**55,35**	22	8,98	21	43	76	84	---	40	58	58	39	57
63	**60,4**	20	9	20	39	69	76	---	37	53	53	36	52
71	**67,62**	18	8,99	17	40	70	77	---	37	54	53	37	53
80	**77,33**	16	9	15	35	61	67	---	33	47	47	32	46
90	**86,58**	14	8,99	14	35	61	68	---	33	47	47	33	47

30593506/EN – 07/2023

XK110e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1				 M5			 M4	
		min^{-1}	kNm	kW		RAD 	AXIAL 	AXIAL /HT 		RAD /MA 	RAD /FO 		RAD /FO 
8	**7,91**	190	9	185	36	170	195	---	0	18	17	0	12
9	**8,86**	169	8,92	160	39	175	195	---	0	24	23	0	17
10	**10,02**	150	7,7	125	61	155	175	---	0	76	76	0	69
11,2	**11,22**	134	8,62	125	63	160	180	---	0	80	79	0	72
12,5	**12,24**	123	7,95	105	60	145	165	---	22	83	82	10	76
14	**13,71**	109	8,76	105	63	150	165	---	23	86	85	11	78
16	**15,5**	97	8,46	89	64	140	155	---	33	84	83	34	85
18	**17,36**	86	8,86	83	65	140	155	---	34	85	85	36	87
20	**19,62**	76	9	75	61	125	140	---	34	80	80	35	81
22,4	**21,97**	68	8,9	66	62	130	145	---	35	82	81	36	82
25	**24,26**	62	9	60	55	115	130	---	33	74	74	34	75
28	**28,26**	53	8,92	51	59	120	135	---	46	83	83	45	83
31,5	**31,21**	48	9	47	53	105	120	---	42	75	75	41	75
35,5	**34,94**	43	8,94	42	54	110	120	---	43	76	76	42	76
40	**39,53**	38	9	37	48	95	105	---	41	70	70	41	69
45	**44,26**	34	8,94	33	49	96	105	---	42	71	71	41	70
50	**49,44**	30	9	30	44	87	97	---	38	65	64	38	64
56	**55,35**	27	8,98	26	45	88	98	---	39	65	65	38	65
63	**60,4**	25	9	24	41	80	89	---	36	60	60	36	59
71	**67,62**	22	8,99	22	41	81	90	---	37	61	61	36	60
80	**77,33**	19	9	19	36	71	78	---	33	54	53	32	53
90	**86,58**	17	8,99	17	36	71	79	---	33	54	54	32	54
XK110e..,n_1= 1800 1/min													**9 kNm**
8	**7,91**	228	9	220	0	175	205	---	0	0	0	0	0
9	**8,86**	203	8,92	195	0	180	210	---	0	0	0	0	0
10	**10,02**	180	7,7	150	40	165	190	---	0	50	49	0	38
11,2	**11,22**	160	8,62	150	43	170	195	---	0	55	54	0	41
12,5	**12,24**	147	7,95	125	50	155	175	---	0	74	73	0	64
14	**13,71**	131	8,76	125	53	160	180	---	0	77	76	0	66
16	**15,5**	116	8,46	105	59	150	170	---	6	77	77	9	80
18	**17,36**	104	8,86	100	60	155	170	---	7	79	79	10	82
20	**19,62**	92	9	90	56	140	155	---	12	77	76	15	79
22,4	**21,97**	82	8,9	79	57	140	160	---	13	78	78	15	80
25	**24,26**	74	9	72	51	130	145	---	14	73	72	16	74
28	**28,26**	64	8,92	62	58	135	150	---	35	87	86	34	86
31,5	**31,21**	58	9	56	53	120	130	---	32	79	78	31	79
35,5	**34,94**	52	8,94	50	54	120	135	---	33	80	79	32	80
40	**39,53**	46	9	44	48	105	120	---	38	76	75	36	75
45	**44,26**	41	8,94	39	49	110	120	---	39	77	76	37	76
50	**49,44**	36	9	36	45	98	110	---	35	70	70	34	69
56	**55,35**	33	8,98	32	45	99	110	---	35	71	70	34	70
63	**60,4**	30	9	29	42	90	100	---	35	66	65	34	65
71	**67,62**	27	8,99	26	42	91	100	---	35	67	67	34	66
80	**77,33**	23	9	23	37	79	88	---	32	59	59	31	58
90	**86,58**	21	8,99	20	37	80	89	---	32	60	59	31	59

30593506/EN – 07/2023

XK120e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,36**	157	13,6	230	80	185	210	---	69	87	87	92	110
7,1	**7,24**	138	13,1	195	87	195	215	---	75	93	93	99	120
8	**7,95**	126	11	150	89	175	195	---	76	92	92	93	110
9	**9,05**	110	12,5	150	93	180	200	---	80	96	96	97	115
10	**9,85**	102	12,4	135	83	155	170	---	71	84	84	83	95
11,2	**11,21**	89	13,2	125	86	155	175	---	74	87	87	86	98
12,5	**12,72**	79	11,5	98	81	140	160	---	74	83	83	82	92
14	**14,48**	69	12,9	97	83	145	160	---	76	85	85	84	94
16	**16,36**	61	11,8	78	77	130	145	---	71	79	79	75	84
18	**18,63**	54	13	76	78	130	145	---	73	81	81	77	86
20	**20,02**	50	13,6	74	77	130	145	---	69	78	78	76	86
22,4	**22,79**	44	13	62	78	135	150	---	71	80	80	78	87
25	**25,75**	39	13,6	57	72	120	130	---	66	73	73	70	78
28	**29,32**	34	13,1	48	73	120	135	---	68	75	75	71	80
31,5	**30,96**	32	13,6	48	64	105	120	---	59	65	65	62	70
35,5	**35,25**	28	13,1	40	65	110	120	---	60	66	66	63	71
40	**40,01**	25	12,7	34	58	95	105	---	54	59	59	56	62
45	**45,55**	22	13,1	31	58	97	105	---	55	60	60	56	63
50	**47,92**	21	13	30	53	87	96	---	49	54	54	50	56
56	**54,55**	18	13,1	26	53	88	98	---	50	55	55	51	57
63	**61,35**	16	12,5	22	48	78	87	---	45	49	49	46	51
71	**69,84**	14	13,1	21	48	80	88	---	45	50	50	46	52
80	**82,12**	12	11,3	15	46	---	---	---	43	---	---	43	---
90	**93,49**	11	12,6	15	46	---	---	---	43	---	---	44	---
100	**104,18**	9,6	12,9	14	44	---	---	---	41	---	---	42	---
112	**118,6**	8,4	12,6	12	44	---	---	---	42	---	---	42	---
125	**125,27**	8	13,6	12	40	---	---	---	37	---	---	38	---
140	**142,6**	7	12,6	10	40	---	---	---	38	---	---	38	---
160	**149,93**	6,7	13,6	10	37	---	---	---	34	---	---	35	---
180	**170,68**	5,9	12,6	8	37	---	---	---	35	---	---	36	---
200	**206,42**	4,8	12,9	7	33	---	---	---	31	---	---	32	---
224	**234,98**	4,3	12,6	6	34	---	---	---	32	---	---	32	---
250	**248,19**	4	13,6	6	30	---	---	---	29	---	---	29	---
280	**282,53**	3,5	12,6	5	31	---	---	---	29	---	---	29	---
315	**297,06**	3,4	13,6	5	28	---	---	---	27	---	---	27	---
355	**338,17**	3	12,6	4	29	---	---	---	27	---	---	27	---
XK120e..,n_1= 1200 1/min													13.6 kNm
6,3	**6,36**	189	13,6	275	55	200	230	---	46	75	75	77	120
7,1	**7,24**	166	13,1	230	59	210	240	---	50	83	82	84	130
8	**7,95**	151	11	180	70	195	215	---	57	87	86	81	120
9	**9,05**	133	12,5	175	74	200	225	---	61	91	90	85	125
10	**9,85**	122	12,4	165	71	170	190	---	56	82	82	75	105
11,2	**11,21**	107	13,2	155	76	175	195	---	60	86	85	79	110
12,5	**12,72**	94	11,5	120	77	160	180	---	67	86	86	81	105
14	**14,48**	83	12,9	115	79	160	180	---	69	89	88	83	105
16	**16,36**	73	11,8	94	76	150	165	---	70	85	84	76	96
18	**18,63**	64	13	91	78	150	165	---	72	87	86	78	98
20	**20,02**	60	13,6	88	73	145	165	---	64	81	81	76	98
22,4	**22,79**	53	13	74	76	150	165	---	66	83	83	78	99
25	**25,75**	47	13,6	69	72	135	150	---	65	79	79	71	89
28	**29,32**	41	13,1	58	73	140	155	---	67	81	80	73	91
31,5	**30,96**	39	13,6	57	64	120	135	---	58	70	70	63	79
35,5	**35,25**	34	13,1	48	65	125	135	---	59	71	71	64	81
40	**40,01**	30	12,7	41	59	110	120	---	55	65	65	57	71
45	**45,55**	26	13,1	37	60	110	120	---	56	66	66	58	72
50	**47,92**	25	13	36	54	99	110	---	50	59	59	52	64
56	**54,55**	22	13,1	32	55	100	110	---	51	60	60	53	65
63	**61,35**	20	12,5	27	49	89	99	---	46	54	54	47	59
71	**69,84**	17	13,1	25	50	91	100	---	47	55	55	48	59
80	**82,12**	15	11,3	18	47	---	---	---	44	---	---	45	---
90	**93,49**	13	12,6	18	48	---	---	---	45	---	---	46	---
100	**104,18**	12	12,9	16	45	---	---	---	42	---	---	43	---
112	**118,6**	10	12,6	14	46	---	---	---	43	---	---	44	---
125	**125,27**	9,6	13,6	14	41	---	---	---	38	---	---	39	---
140	**142,6**	8,4	12,6	12	42	---	---	---	39	---	---	40	---
160	**149,93**	8	13,6	12	38	---	---	---	36	---	---	37	---
180	**170,68**	7	12,6	10	39	---	---	---	36	---	---	37	---
200	**206,42**	5,8	12,9	8	35	---	---	---	32	---	---	33	---
224	**234,98**	5,1	12,6	7	35	---	---	---	33	---	---	34	---
250	**248,19**	4,8	13,6	7	32	---	---	---	30	---	---	30	---
280	**282,53**	4,2	12,6	6	32	---	---	---	30	---	---	31	---
315	**297,06**	4	13,6	6	30	---	---	---	28	---	---	28	---
355	**338,17**	3,5	12,6	5	30	---	---	---	28	---	---	29	---

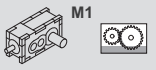
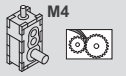
30593506/EN – 07/2023

XK120e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,36**	236	13,6	345	0	210	245	---	0	59	58	52	125
7,1	**7,24**	207	13,1	290	7	220	255	---	0	65	64	58	135
8	**7,95**	189	11	220	32	210	240	---	18	77	76	58	125
9	**9,05**	166	12,5	220	37	215	250	---	23	82	81	63	135
10	**9,85**	152	12,4	205	45	190	215	---	29	78	78	57	115
11,2	**11,21**	134	13,2	190	49	195	220	---	32	83	82	61	120
12,5	**12,72**	118	11,5	145	65	180	200	---	52	89	89	77	120
14	**14,48**	104	12,9	145	68	185	205	---	54	92	91	79	120
16	**16,36**	92	11,8	115	71	170	190	---	62	94	94	75	110
18	**18,63**	81	13	115	73	170	190	---	64	96	96	77	110
20	**20,02**	75	13,6	110	65	170	185	---	52	85	85	74	110
22,4	**22,79**	66	13	93	67	170	190	---	54	88	88	76	115
25	**25,75**	58	13,6	86	68	155	175	---	59	89	88	70	105
28	**29,32**	51	13,1	73	70	160	175	---	62	90	90	73	105
31,5	**30,96**	48	13,6	71	61	140	155	---	53	78	78	62	92
35,5	**35,25**	43	13,1	60	63	140	155	---	55	80	79	64	93
40	**40,01**	37	12,7	52	59	125	140	---	54	74	74	58	82
45	**45,55**	33	13,1	47	60	125	140	---	55	75	75	59	83
50	**47,92**	31	13	45	55	115	125	---	50	68	68	54	75
56	**54,55**	27	13,1	39	56	115	130	---	51	69	69	54	76
63	**61,35**	24	12,5	33	50	105	115	---	47	62	62	49	68
71	**69,84**	21	13,1	31	51	105	115	---	47	63	63	50	69
80	**82,12**	18	11,3	23	49	---	---	---	46	---	---	48	---
90	**93,49**	16	12,6	22	50	---	---	---	46	---	---	48	---
100	**104,18**	14	12,9	20	47	---	---	---	44	---	---	46	---
112	**118,6**	13	12,6	17	48	---	---	---	44	---	---	46	---
125	**125,27**	12	13,6	18	43	---	---	---	40	---	---	41	---
140	**142,6**	11	12,6	15	43	---	---	---	40	---	---	42	---
160	**149,93**	10	13,6	15	40	---	---	---	37	---	---	39	---
180	**170,68**	8,8	12,6	12	41	---	---	---	38	---	---	39	---
200	**206,42**	7,3	12,9	10	36	---	---	---	34	---	---	35	---
224	**234,98**	6,4	12,6	9	37	---	---	---	34	---	---	35	---
250	**248,19**	6	13,6	9	33	---	---	---	31	---	---	32	---
280	**282,53**	5,3	12,6	7	34	---	---	---	31	---	---	32	---
315	**297,06**	5	13,6	8	31	---	---	---	29	---	---	30	---
355	**338,17**	4,4	12,6	6	32	---	---	---	29	---	---	30	---
XK120e..,n_1= 1800 1/min													13.6 kNm
6,3	**6,36**	283	13,6	410	0	200	250	---	0	23	21	16	115
7,1	**7,24**	249	13,1	350	0	215	260	---	0	33	31	24	130
8	**7,95**	226	11	265	0	215	250	---	0	57	56	31	125
9	**9,05**	199	12,5	265	0	225	260	---	0	63	62	36	135
10	**9,85**	183	12,4	245	9	200	225	---	0	64	63	37	120
11,2	**11,21**	161	13,2	230	16	205	235	---	0	69	68	41	125
12,5	**12,72**	142	11,5	175	49	195	220	---	32	85	85	70	130
14	**14,48**	124	12,9	175	52	195	225	---	34	88	87	72	135
16	**16,36**	110	11,8	140	61	185	205	---	51	99	98	71	120
18	**18,63**	97	13	135	64	190	210	---	53	100	100	73	125
20	**20,02**	90	13,6	135	52	180	205	---	35	84	83	69	125
22,4	**22,79**	79	13	110	55	185	205	---	37	86	86	72	125
25	**25,75**	70	13,6	105	61	170	190	---	51	93	92	67	115
28	**29,32**	61	13,1	87	63	175	195	---	53	96	95	70	115
31,5	**30,96**	58	13,6	86	55	155	170	---	46	83	82	60	100
35,5	**35,25**	51	13,1	73	57	155	175	---	47	84	84	62	105
40	**40,01**	45	12,7	62	57	140	155	---	50	82	81	57	92
45	**45,55**	40	13,1	56	58	140	155	---	52	83	82	59	93
50	**47,92**	38	13	53	54	125	140	---	48	75	75	53	84
56	**54,55**	33	13,1	47	55	130	145	---	49	76	76	54	85
63	**61,35**	29	12,5	40	50	115	130	---	45	69	69	49	76
71	**69,84**	26	13,1	37	51	120	130	---	46	70	70	50	77
80	**82,12**	22	11,3	27	51	---	---	---	47	---	---	49	---
90	**93,49**	19	12,6	27	51	---	---	---	47	---	---	50	---
100	**104,18**	17	12,9	24	48	---	---	---	45	---	---	47	---
112	**118,6**	15	12,6	21	49	---	---	---	45	---	---	48	---
125	**125,27**	14	13,6	21	44	---	---	---	41	---	---	43	---
140	**142,6**	13	12,6	17	45	---	---	---	41	---	---	44	---
160	**149,93**	12	13,6	18	41	---	---	---	38	---	---	40	---
180	**170,68**	11	12,6	15	42	---	---	---	39	---	---	41	---
200	**206,42**	8,7	12,9	12	38	---	---	---	35	---	---	36	---
224	**234,98**	7,7	12,6	11	38	---	---	---	36	---	---	37	---
250	**248,19**	7,3	13,6	11	34	---	---	---	32	---	---	33	---
280	**282,53**	6,4	12,6	9	35	---	---	---	32	---	---	34	---
315	**297,06**	6,1	13,6	9	32	---	---	---	30	---	---	31	---
355	**338,17**	5,3	12,6	7	33	---	---	---	30	---	---	31	---

30593506/EN – 07/2023

XK130e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
8	**7,95**	126	17	230	96	205	230	---	86	105	105	110	130
9	**9,03**	111	15,9	190	100	205	230	---	89	110	110	110	135
10	**9,93**	101	13,7	150	105	190	215	---	91	105	105	105	120
11,2	**11,28**	89	15,5	145	105	190	215	---	92	110	110	105	120
12,5	**12,31**	81	15,5	135	92	165	185	---	83	94	94	93	105
14	**13,98**	72	16,1	125	93	165	185	---	84	95	95	94	105
16	**15,9**	63	14,4	98	90	155	175	---	83	93	93	90	100
18	**18,06**	55	15,7	94	90	155	170	---	83	93	93	90	100
20	**20,45**	49	14,8	78	84	140	160	---	79	87	87	83	93
22,4	**23,23**	43	15,8	74	84	140	155	---	79	87	87	83	92
25	**25,03**	40	17	74	84	145	160	---	78	86	86	84	94
28	**28,43**	35	15,8	60	84	140	160	---	78	86	86	84	94
31,5	**32,19**	31	17	57	78	130	145	---	73	81	81	77	86
35,5	**36,56**	27	15,9	47	78	130	145	---	73	80	80	76	85
40	**38,71**	26	17	48	70	115	130	---	65	72	72	68	77
45	**43,96**	23	15,9	39	70	115	130	---	65	72	72	68	76
50	**50,02**	20	15,9	34	63	105	115	---	59	65	65	61	68
56	**56,81**	18	15,9	30	63	105	115	---	59	65	65	60	67
63	**59,9**	17	16,3	30	57	94	105	---	54	59	59	55	61
71	**68,03**	15	16	26	57	94	105	---	54	59	59	55	61
80	**76,69**	13	15,7	22	52	85	94	---	49	54	54	50	56
90	**87,09**	11	15,9	20	52	85	94	---	49	53	53	50	55
100	**102,65**	9,7	14,2	15	50	---	---	---	47	---	---	47	---
112	**116,58**	8,6	15,7	15	49	---	---	---	47	---	---	47	---
125	**130,23**	7,7	16,1	14	47	---	---	---	45	---	---	45	---
140	**147,9**	6,8	15,7	12	47	---	---	---	45	---	---	45	---
160	**156,58**	6,4	16,5	12	43	---	---	---	40	---	---	41	---
180	**177,83**	5,6	15,7	10	43	---	---	---	40	---	---	41	---
200	**187,42**	5,3	16,5	10	40	---	---	---	38	---	---	38	---
224	**212,85**	4,7	15,7	8	40	---	---	---	38	---	---	38	---
250	**258,02**	3,9	16,1	7	36	---	---	---	34	---	---	35	---
280	**293,04**	3,4	15,7	6	36	---	---	---	34	---	---	34	---
315	**310,23**	3,2	16,5	6	33	---	---	---	31	---	---	32	---
355	**352,34**	2,8	15,7	5	33	---	---	---	31	---	---	31	---
400	**371,33**	2,7	16,5	5	31	---	---	---	29	---	---	29	---
450	**421,72**	2,4	15,7	4	31	---	---	---	29	---	---	29	---
XK130e..,n_1= 1200 1/min													17 kNm
8	**7,95**	151	17	275	70	225	255	---	60	95	94	95	140
9	**9,03**	133	15,9	225	74	225	255	---	65	99	99	99	145
10	**9,93**	121	13,7	175	85	215	240	---	73	105	105	98	135
11,2	**11,28**	106	15,5	175	87	210	240	---	74	105	105	98	135
12,5	**12,31**	97	15,5	165	83	185	210	---	70	97	97	89	120
14	**13,98**	86	16,1	150	87	185	210	---	71	99	98	90	120
16	**15,9**	75	14,4	120	88	175	195	---	78	98	97	91	115
18	**18,06**	66	15,7	115	88	175	195	---	78	98	97	91	115
20	**20,45**	59	14,8	94	84	160	180	---	78	94	94	84	105
22,4	**23,23**	52	15,8	88	84	160	180	---	78	94	94	84	105
25	**25,03**	48	17	88	83	160	180	---	74	92	91	85	105
28	**28,43**	42	15,8	72	82	160	180	---	74	92	91	85	105
31,5	**32,19**	37	17	69	79	150	165	---	73	88	88	79	98
35,5	**36,56**	33	15,9	57	79	145	165	---	73	88	87	78	97
40	**38,71**	31	17	57	71	130	145	---	64	78	77	70	88
45	**43,96**	27	15,9	47	71	130	145	---	64	78	77	69	87
50	**50,02**	24	15,9	41	64	120	130	---	60	71	71	63	77
56	**56,81**	21	15,9	36	64	120	130	---	60	71	71	62	77
63	**59,9**	20	16,3	36	59	110	120	---	55	65	65	57	70
71	**68,03**	18	16	31	59	105	120	---	55	65	65	57	70
80	**76,69**	16	15,7	27	54	97	110	---	50	59	59	52	64
90	**87,09**	14	15,9	24	53	97	105	---	50	59	59	52	64
100	**102,65**	12	14,2	18	52	---	---	---	48	---	---	50	---
112	**116,58**	10	15,7	18	51	---	---	---	48	---	---	49	---
125	**130,23**	9,2	16,1	16	49	---	---	---	46	---	---	47	---
140	**147,9**	8,1	15,7	14	49	---	---	---	46	---	---	47	---
160	**156,58**	7,7	16,5	14	45	---	---	---	42	---	---	43	---
180	**177,83**	6,7	15,7	12	45	---	---	---	42	---	---	43	---
200	**187,42**	6,4	16,5	12	42	---	---	---	39	---	---	40	---
224	**212,85**	5,6	15,7	10	42	---	---	---	39	---	---	40	---
250	**258,02**	4,7	16,1	8	38	---	---	---	35	---	---	36	---
280	**293,04**	4,1	15,7	7	38	---	---	---	35	---	---	36	---
315	**310,23**	3,9	16,5	7	34	---	---	---	32	---	---	33	---
355	**352,34**	3,4	15,7	6	34	---	---	---	32	---	---	33	---
400	**371,33**	3,2	16,5	6	32	---	---	---	30	---	---	31	---
450	**421,72**	2,8	15,7	5	32	---	---	---	30	---	---	31	---

30593506/EN – 07/2023

XK130e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1				 M5			 M4	
						RAD 	AXIAL 	AXIAL /HT 		RAD /MA 	RAD /FO 		RAD /MA 
		min^{-1}	kNm	kW									
8	**7,95**	189	17	345	19	240	275	---	10	78	77	68	150
9	**9,03**	166	15,9	285	24	240	280	---	17	85	84	73	155
10	**9,93**	151	13,7	220	48	235	265	---	35	98	97	76	150
11,2	**11,28**	133	15,5	220	50	235	265	---	38	100	99	78	150
12,5	**12,31**	122	15,5	205	56	205	235	---	42	96	95	72	130
14	**13,98**	107	16,1	185	61	210	235	---	43	98	97	74	135
16	**15,9**	94	14,4	145	76	200	220	---	63	105	105	87	130
18	**18,06**	83	15,7	140	77	195	220	---	64	105	105	88	130
20	**20,45**	73	14,8	120	81	185	205	---	72	105	105	85	120
22,4	**23,23**	65	15,8	110	81	185	205	---	73	105	105	85	120
25	**25,03**	60	17	110	74	185	205	---	62	98	97	84	125
28	**28,43**	53	15,8	90	75	180	205	---	63	98	98	84	125
31,5	**32,19**	47	17	86	77	170	190	---	68	99	98	79	115
35,5	**36,56**	41	15,9	71	77	170	190	---	69	98	98	79	115
40	**38,71**	39	17	71	69	150	170	---	61	87	87	70	100
45	**43,96**	34	15,9	59	69	150	170	---	61	87	86	70	100
50	**50,02**	30	15,9	52	65	135	150	---	60	82	81	65	90
56	**56,81**	26	15,9	46	65	135	150	---	60	81	81	64	90
63	**59,9**	25	16,3	45	60	125	140	---	56	75	75	59	82
71	**68,03**	22	16	39	60	125	135	---	56	75	74	59	81
80	**76,69**	20	15,7	34	55	115	125	---	51	68	68	54	74
90	**87,09**	17	15,9	30	55	110	125	---	51	68	68	53	74
100	**102,65**	15	14,2	23	54	---	---	---	50	---	---	52	---
112	**116,58**	13	15,7	22	54	---	---	---	50	---	---	52	---
125	**130,23**	12	16,1	20	51	---	---	---	48	---	---	50	---
140	**147,9**	10	15,7	17	51	---	---	---	48	---	---	50	---
160	**156,58**	9,6	16,5	17	47	---	---	---	44	---	---	45	---
180	**177,83**	8,4	15,7	15	47	---	---	---	44	---	---	45	---
200	**187,42**	8	16,5	14	44	---	---	---	41	---	---	42	---
224	**212,85**	7	15,7	12	44	---	---	---	41	---	---	42	---
250	**258,02**	5,8	16,1	10	40	---	---	---	37	---	---	38	---
280	**293,04**	5,1	15,7	9	40	---	---	---	37	---	---	38	---
315	**310,23**	4,8	16,5	9	36	---	---	---	34	---	---	35	---
355	**352,34**	4,3	15,7	7	36	---	---	---	34	---	---	35	---
400	**371,33**	4	16,5	7	34	---	---	---	32	---	---	33	---
450	**421,72**	3,6	15,7	6	34	---	---	---	32	---	---	33	---
XK130e..,n_1= 1800 1/min													17 kNm
8	**7,95**	226	17	410	0	240	285	---	0	49	47	36	145
9	**9,03**	199	15,9	340	0	245	290	---	0	57	55	43	150
10	**9,93**	181	13,7	265	0	245	280	---	0	78	77	49	150
11,2	**11,28**	160	15,5	265	3	245	280	---	0	82	81	52	155
12,5	**12,31**	146	15,5	245	23	220	250	---	5	84	83	51	140
14	**13,98**	129	16,1	225	30	220	250	---	8	87	86	53	140
16	**15,9**	113	14,4	175	61	215	240	---	42	100	100	81	145
18	**18,06**	100	15,7	170	62	215	240	---	44	100	100	82	145
20	**20,45**	88	14,8	140	72	205	225	---	61	110	110	81	135
22,4	**23,23**	77	15,8	135	73	200	225	---	62	110	110	82	135
25	**25,03**	72	17	135	62	200	225	---	45	97	97	79	135
28	**28,43**	63	15,8	110	64	200	225	---	47	98	98	80	135
31,5	**32,19**	56	17	105	70	190	210	---	60	105	105	77	125
35,5	**36,56**	49	15,9	85	71	185	210	---	61	105	105	77	125
40	**38,71**	46	17	86	63	170	185	---	54	93	92	68	110
45	**43,96**	41	15,9	71	64	165	185	---	54	93	92	69	110
50	**50,02**	36	15,9	62	64	150	170	---	58	90	89	64	100
56	**56,81**	32	15,9	55	64	150	170	---	58	89	89	64	100
63	**59,9**	30	16,3	54	60	140	155	---	55	83	82	59	91
71	**68,03**	26	16	46	60	140	155	---	54	82	82	59	91
80	**76,69**	23	15,7	40	55	125	140	---	51	76	75	55	83
90	**87,09**	21	15,9	36	55	125	140	---	51	75	75	55	83
100	**102,65**	18	14,2	27	55	---	---	---	51	---	---	54	---
112	**116,58**	15	15,7	27	55	---	---	---	51	---	---	54	---
125	**130,23**	14	16,1	24	53	---	---	---	49	---	---	52	---
140	**147,9**	12	15,7	21	53	---	---	---	49	---	---	52	---
160	**156,58**	11	16,5	21	48	---	---	---	45	---	---	47	---
180	**177,83**	10	15,7	17	48	---	---	---	44	---	---	47	---
200	**187,42**	9,6	16,5	17	45	---	---	---	42	---	---	44	---
224	**212,85**	8,5	15,7	15	45	---	---	---	42	---	---	44	---
250	**258,02**	7	16,1	12	41	---	---	---	38	---	---	40	---
280	**293,04**	6,1	15,7	11	41	---	---	---	38	---	---	40	---
315	**310,23**	5,8	16,5	11	38	---	---	---	35	---	---	36	---
355	**352,34**	5,1	15,7	9	38	---	---	---	35	---	---	36	---
400	**371,33**	4,8	16,5	9	35	---	---	---	33	---	---	34	---
450	**421,72**	4,3	15,7	7	35	---	---	---	33	---	---	34	---

30593506/EN – 07/2023

XK140e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,53**	153	22,3	365	120	275	310	---	89	110	110	140	170
7,1	**6,98**	143	23,4	360	125	280	320	---	93	115	115	145	175
8	**8,27**	121	22,1	285	125	255	290	---	96	115	115	130	160
9	**8,84**	113	23,4	285	125	260	295	---	99	120	120	135	165
10	**10,1**	99	20,4	220	120	235	265	---	96	115	115	125	150
11,2	**10,8**	93	21,7	215	125	240	270	---	98	115	115	130	150
12,5	**12,35**	81	21,3	185	120	225	250	---	105	120	120	125	145
14	**13,21**	76	22,8	185	120	225	250	---	105	120	120	125	150
16	**15,89**	63	21,3	145	115	205	225	---	105	115	115	115	135
18	**16,99**	59	22,7	145	115	205	230	---	105	120	115	115	135
20	**21,13**	47	23,4	120	110	195	215	---	100	115	110	110	130
22,4	**22,6**	44	23,4	110	110	195	220	---	100	115	115	110	130
25	**26,42**	38	23,4	96	105	180	200	---	95	105	105	105	120
28	**28,25**	35	23,4	90	105	185	205	---	96	105	105	105	120
31,5	**33,46**	30	23,4	76	95	165	185	---	88	98	98	94	110
35,5	**35,78**	28	23,4	71	96	165	185	---	89	99	99	95	110
40	**40,78**	25	23,4	62	87	150	165	---	81	90	90	86	100
45	**43,61**	23	23,4	58	88	150	170	---	82	91	90	87	100
50	**49,82**	20	23,4	51	81	140	155	---	76	84	84	80	92
56	**53,28**	19	23,4	48	82	140	155	---	77	85	84	80	93
63	**63,79**	16	23,4	40	73	125	140	---	69	76	76	71	83
71	**68,21**	15	23,4	38	74	125	140	---	69	76	76	72	83
80	**83,36**	12	23,4	31	67	---	---	---	64	---	---	65	---
90	**89,14**	11	23,4	29	68	---	---	---	64	---	---	66	---
100	**104,2**	9,6	23,4	25	63	---	---	---	60	---	---	61	---
112	**111,42**	9	23,4	23	64	---	---	---	60	---	---	62	---
125	**127**	7,9	23,4	20	58	---	---	---	55	---	---	57	---
140	**135,81**	7,4	23,4	19	59	---	---	---	56	---	---	57	---
160	**158,84**	6,3	23,4	16	54	---	---	---	51	---	---	52	---
180	**169,85**	5,9	23,4	15	54	---	---	---	52	---	---	53	---
200	**206,44**	4,8	23,4	13	47	---	---	---	45	---	---	46	---
224	**220,76**	4,5	23,4	12	48	---	---	---	45	---	---	46	---
250	**251,62**	4	23,4	10	44	---	---	---	42	---	---	42	---
280	**269,07**	3,7	23,4	10	44	---	---	---	42	---	---	43	---
315	**314,7**	3,2	23,4	8	41	---	---	---	39	---	---	39	---
355	**336,53**	3	23,4	8	41	---	---	---	39	---	---	40	---
XK140e..,n_1= 1200 1/min													23.4 kNm
6,3	**6,53**	184	22,3	440	87	295	340	---	50	95	93	120	180
7,1	**6,98**	172	23,4	430	90	300	345	---	55	100	99	125	190
8	**8,27**	145	22,1	345	100	280	315	---	66	110	105	120	175
9	**8,84**	136	23,4	340	105	280	320	---	69	110	110	125	175
10	**10,1**	119	20,4	260	105	260	295	---	72	110	110	115	165
11,2	**10,8**	111	21,7	260	110	265	300	---	75	115	115	120	165
12,5	**12,35**	97	21,3	225	105	250	280	---	86	125	125	120	165
14	**13,21**	91	22,8	225	110	255	285	---	88	125	125	120	165
16	**15,89**	76	21,3	175	110	230	255	---	98	125	125	115	150
18	**16,99**	71	22,7	175	110	235	260	---	99	130	130	115	155
20	**21,13**	57	23,4	145	110	220	245	---	95	125	125	110	145
22,4	**22,6**	53	23,4	135	110	225	245	---	97	125	125	110	145
25	**26,42**	45	23,4	115	100	205	230	---	90	115	115	105	135
28	**28,25**	42	23,4	110	105	210	230	---	92	120	120	105	140
31,5	**33,46**	36	23,4	91	97	190	210	---	88	110	110	97	125
35,5	**35,78**	34	23,4	85	98	190	210	---	89	110	110	97	125
40	**40,78**	29	23,4	75	89	170	190	---	81	100	100	89	115
45	**43,61**	28	23,4	70	90	175	190	---	82	100	100	89	115
50	**49,82**	24	23,4	62	83	160	175	---	76	95	94	82	105
56	**53,28**	23	23,4	58	84	160	180	---	77	96	95	83	105
63	**63,79**	19	23,4	48	75	145	160	---	70	86	85	74	94
71	**68,21**	18	23,4	45	75	145	160	---	70	87	86	74	95
80	**83,36**	14	23,4	37	70	---	---	---	66	---	---	68	---
90	**89,14**	13	23,4	35	70	---	---	---	66	---	---	68	---
100	**104,2**	12	23,4	30	66	---	---	---	62	---	---	64	---
112	**111,42**	11	23,4	28	66	---	---	---	62	---	---	64	---
125	**127**	9,4	23,4	24	61	---	---	---	57	---	---	59	---
140	**135,81**	8,8	23,4	23	61	---	---	---	58	---	---	59	---
160	**158,84**	7,6	23,4	19	56	---	---	---	53	---	---	55	---
180	**169,85**	7,1	23,4	18	57	---	---	---	54	---	---	55	---
200	**206,44**	5,8	23,4	15	49	---	---	---	47	---	---	48	---
224	**220,76**	5,4	23,4	14	50	---	---	---	47	---	---	48	---
250	**251,62**	4,8	23,4	12	46	---	---	---	44	---	---	44	---
280	**269,07**	4,5	23,4	12	46	---	---	---	44	---	---	45	---
315	**314,7**	3,8	23,4	10	43	---	---	---	41	---	---	41	---
355	**336,53**	3,6	23,4	9	43	---	---	---	41	---	---	42	---

30593506/EN – 07/2023

XK140e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	6,53	230	22,3	550	21	300	355	---	0	58	56	91	190
7,1	6,98	215	23,4	540	26	310	365	---	0	65	63	96	195
8	8,27	181	22,1	430	58	295	340	---	6	86	85	95	185
9	8,84	170	23,4	425	61	300	345	---	10	89	88	99	190
10	10,1	149	20,4	330	71	280	320	---	27	96	95	98	175
11,2	10,8	139	21,7	325	76	290	330	---	30	100	99	100	180
12,5	12,35	121	21,3	280	81	280	315	---	53	120	120	110	185
14	13,21	114	22,8	280	83	285	320	---	54	120	120	115	190
16	15,89	94	21,3	220	98	260	295	---	78	135	135	110	170
18	16,99	88	22,7	215	100	265	295	---	79	140	135	115	175
20	21,13	71	23,4	180	97	255	280	---	78	135	135	110	165
22,4	22,6	66	23,4	170	99	255	285	---	80	135	135	110	170
25	26,42	57	23,4	145	92	235	265	---	75	125	125	105	155
28	28,25	53	23,4	135	94	240	265	---	77	130	130	105	160
31,5	33,46	45	23,4	115	96	215	240	---	83	125	125	98	145
35,5	35,78	42	23,4	105	97	220	240	---	85	125	125	99	145
40	40,78	37	23,4	93	89	200	220	---	78	115	115	91	130
45	43,61	34	23,4	87	90	200	220	---	79	115	115	92	135
50	49,82	30	23,4	77	84	185	205	---	75	105	105	84	120
56	53,28	28	23,4	72	84	185	205	---	76	110	110	85	125
63	63,79	24	23,4	60	76	165	185	---	69	98	97	76	110
71	68,21	22	23,4	56	77	165	185	---	70	99	98	76	110
80	83,36	18	23,4	46	73	---	---	---	68	---	---	71	---
90	89,14	17	23,4	43	73	---	---	---	68	---	---	72	---
100	104,2	14	23,4	37	69	---	---	---	64	---	---	67	---
112	111,42	13	23,4	35	69	---	---	---	65	---	---	68	---
125	127	12	23,4	30	63	---	---	---	59	---	---	62	---
140	135,81	11	23,4	28	64	---	---	---	60	---	---	62	---
160	158,84	9,4	23,4	24	59	---	---	---	55	---	---	57	---
180	169,85	8,8	23,4	23	59	---	---	---	55	---	---	58	---
200	206,44	7,3	23,4	19	52	---	---	---	49	---	---	50	---
224	220,76	6,8	23,4	18	52	---	---	---	49	---	---	51	---
250	251,62	6	23,4	15	48	---	---	---	45	---	---	47	---
280	269,07	5,6	23,4	14	49	---	---	---	46	---	---	47	---
315	314,7	4,8	23,4	12	45	---	---	---	42	---	---	43	---
355	336,53	4,5	23,4	12	45	---	---	---	43	---	---	44	---
XK140e..,n_1= 1800 1/min													23.4 kNm
6,3	6,53	276	22,3	660	0	290	355	---	0	0	0	48	180
7,1	6,98	258	23,4	650	0	300	360	---	0	0	0	56	190
8	8,27	218	22,1	520	0	300	350	---	0	47	46	67	185
9	8,84	204	23,4	510	0	305	355	---	0	52	51	71	190
10	10,1	178	20,4	395	28	290	340	---	0	68	67	73	180
11,2	10,8	167	21,7	390	33	300	345	---	0	72	71	76	185
12,5	12,35	146	21,3	335	49	305	345	---	6	100	100	97	200
14	13,21	136	22,8	335	51	305	345	---	8	105	105	99	205
16	15,89	113	21,3	260	77	285	320	---	50	135	135	100	190
18	16,99	106	22,7	260	79	290	325	---	52	140	135	105	190
20	21,13	85	23,4	215	79	275	310	---	54	135	135	100	185
22,4	22,6	80	23,4	200	82	280	315	---	56	135	135	105	185
25	26,42	68	23,4	175	77	260	290	---	54	130	125	97	175
28	28,25	64	23,4	160	79	265	295	---	56	130	130	99	175
31,5	33,46	54	23,4	135	91	240	265	---	76	130	130	98	160
35,5	35,78	50	23,4	130	93	240	270	---	77	135	130	99	160
40	40,78	44	23,4	110	84	220	245	---	70	120	120	91	145
45	43,61	41	23,4	105	85	220	245	---	72	125	120	92	150
50	49,82	36	23,4	93	83	205	225	---	71	115	115	85	135
56	53,28	34	23,4	87	84	205	230	---	72	120	115	86	135
63	63,79	28	23,4	72	76	185	205	---	67	105	105	77	120
71	68,21	26	23,4	68	77	185	205	---	68	110	105	77	125
80	83,36	22	23,4	55	75	---	---	---	69	---	---	74	---
90	89,14	20	23,4	52	76	---	---	---	70	---	---	75	---
100	104,2	17	23,4	44	71	---	---	---	65	---	---	70	---
112	111,42	16	23,4	41	71	---	---	---	66	---	---	70	---
125	127	14	23,4	36	65	---	---	---	60	---	---	64	---
140	135,81	13	23,4	34	66	---	---	---	61	---	---	65	---
160	158,84	11	23,4	29	60	---	---	---	56	---	---	60	---
180	169,85	11	23,4	27	61	---	---	---	56	---	---	60	---
200	206,44	8,7	23,4	23	54	---	---	---	50	---	---	52	---
224	220,76	8,2	23,4	21	54	---	---	---	51	---	---	53	---
250	251,62	7,2	23,4	19	50	---	---	---	47	---	---	49	---
280	269,07	6,7	23,4	17	50	---	---	---	47	---	---	49	---
315	314,7	5,7	23,4	15	47	---	---	---	44	---	---	45	---
355	336,53	5,3	23,4	14	47	---	---	---	44	---	---	46	---

30593506/EN – 07/2023

XK150e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
8	**8,11**	123	27,7	365	145	310	355	---	110	135	135	165	195
9	**8,68**	115	29,2	360	145	305	350	---	115	135	135	165	195
10	**10,27**	97	27,5	285	145	290	320	---	115	135	135	155	185
11,2	**10,99**	91	29,2	285	145	285	320	---	115	135	135	155	180
12,5	**12,54**	80	25,2	215	140	265	295	---	115	135	135	145	170
14	**13,43**	74	27	215	135	260	290	---	115	130	130	145	165
16	**15,34**	65	26,5	185	135	245	275	---	120	135	135	135	160
18	**16,43**	61	28,4	185	135	245	270	---	120	135	135	135	160
20	**19,73**	51	26,4	145	125	225	250	---	115	130	130	125	150
22,4	**21,13**	47	28,3	145	125	220	245	---	115	130	130	125	145
25	**26,25**	38	29,2	120	120	215	240	---	110	125	125	120	140
28	**28,1**	36	29,2	115	120	210	235	---	110	125	125	120	140
31,5	**32,81**	30	29,2	96	115	200	220	---	105	120	115	115	135
35,5	**35,13**	28	29,2	90	115	200	220	---	105	115	115	115	130
40	**41,56**	24	29,2	76	105	180	200	---	98	110	110	105	120
45	**44,5**	22	29,2	71	105	180	200	---	97	105	105	105	120
50	**50,65**	20	29,2	62	96	165	185	---	90	99	99	95	110
56	**54,23**	18	29,2	58	95	165	180	---	89	98	98	94	110
63	**61,88**	16	29,2	52	89	155	170	---	84	93	92	88	100
71	**66,26**	15	29,2	48	88	150	170	---	83	92	91	87	100
80	**79,22**	13	29,2	40	80	135	150	---	76	84	83	78	91
90	**84,83**	12	29,2	38	79	135	150	---	75	83	82	78	90
100	**103,52**	9,7	29,2	31	73	---	---	---	70	---	---	71	---
112	**110,85**	9	29,2	29	73	---	---	---	69	---	---	71	---
125	**129,41**	7,7	29,2	25	69	---	---	---	66	---	---	67	---
140	**138,56**	7,2	29,2	23	69	---	---	---	65	---	---	67	---
160	**157,72**	6,3	29,2	20	64	---	---	---	61	---	---	62	---
180	**168,89**	5,9	29,2	19	63	---	---	---	60	---	---	62	---
200	**197,26**	5,1	29,2	16	59	---	---	---	56	---	---	57	---
224	**211,23**	4,7	29,2	15	59	---	---	---	56	---	---	57	---
250	**256,39**	3,9	29,2	13	52	---	---	---	49	---	---	50	---
280	**274,54**	3,6	29,2	12	51	---	---	---	49	---	---	50	---
315	**312,49**	3,2	29,2	10	48	---	---	---	46	---	---	47	---
355	**334,61**	3	29,2	10	48	---	---	---	46	---	---	46	---
400	**390,84**	2,6	29,2	8	45	---	---	---	43	---	---	43	---
450	**418,5**	2,4	29,2	8	44	---	---	---	42	---	---	43	---
XK150e..,n_1= 1200 1/min													29.2 kNm
8	**8,11**	148	27,7	440	110	335	385	---	71	120	120	150	210
9	**8,68**	138	29,2	430	110	335	380	---	73	125	125	150	210
10	**10,27**	117	27,5	345	125	315	355	---	87	135	130	145	200
11,2	**10,99**	109	29,2	340	125	310	355	---	88	135	130	145	200
12,5	**12,54**	96	25,2	260	125	290	325	---	93	135	130	135	190
14	**13,43**	89	27	260	125	290	325	---	93	130	130	135	185
16	**15,34**	78	26,5	225	125	275	310	---	105	145	145	135	185
18	**16,43**	73	28,4	225	125	275	305	---	100	145	140	135	180
20	**19,73**	61	26,4	175	125	255	280	---	110	145	145	125	170
22,4	**21,13**	57	28,3	175	125	250	280	---	110	140	140	125	165
25	**26,25**	46	29,2	145	120	245	270	---	110	140	140	125	160
28	**28,1**	43	29,2	135	120	240	265	---	110	140	135	120	160
31,5	**32,81**	37	29,2	115	115	230	250	---	105	130	130	115	150
35,5	**35,13**	34	29,2	110	115	225	250	---	105	130	130	115	150
40	**41,56**	29	29,2	91	105	205	230	---	98	120	120	105	135
45	**44,5**	27	29,2	85	105	205	225	---	97	120	120	105	135
50	**50,65**	24	29,2	75	98	190	210	---	90	110	110	98	125
56	**54,23**	22	29,2	70	97	185	205	---	89	110	110	97	125
63	**61,88**	19	29,2	62	91	175	195	---	85	105	105	90	115
71	**66,26**	18	29,2	58	90	175	190	---	84	105	105	90	115
80	**79,22**	15	29,2	48	82	155	175	---	77	95	94	81	105
90	**84,83**	14	29,2	45	81	155	170	---	76	94	93	80	105
100	**103,52**	12	29,2	37	76	---	---	---	72	---	---	75	---
112	**110,85**	11	29,2	35	76	---	---	---	72	---	---	74	---
125	**129,41**	9,3	29,2	30	72	---	---	---	68	---	---	70	---
140	**138,56**	8,7	29,2	28	71	---	---	---	68	---	---	70	---
160	**157,72**	7,6	29,2	24	67	---	---	---	63	---	---	65	---
180	**168,89**	7,1	29,2	23	66	---	---	---	63	---	---	64	---
200	**197,26**	6,1	29,2	19	62	---	---	---	58	---	---	60	---
224	**211,23**	5,7	29,2	18	61	---	---	---	58	---	---	59	---
250	**256,39**	4,7	29,2	15	54	---	---	---	51	---	---	52	---
280	**274,54**	4,4	29,2	14	53	---	---	---	51	---	---	52	---
315	**312,49**	3,8	29,2	12	50	---	---	---	48	---	---	49	---
355	**334,61**	3,6	29,2	12	50	---	---	---	48	---	---	48	---
400	**390,84**	3,1	29,2	10	47	---	---	---	45	---	---	45	---
450	**418,5**	2,9	29,2	9	46	---	---	---	44	---	---	45	---

30593506/EN – 07/2023

XK150e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
8	8,11	185	27,7	550	46	350	410	---	0	86	84	115	225
9	8,68	173	29,2	540	50	350	405	---	0	91	89	115	225
10	10,27	146	27,5	430	77	340	390	---	29	115	110	120	215
11,2	10,99	136	29,2	425	78	335	385	---	33	115	115	120	215
12,5	12,54	120	25,2	325	94	320	365	---	47	125	125	120	205
14	13,43	112	27	325	94	315	360	---	49	125	125	120	205
16	15,34	98	26,5	280	98	315	350	---	68	145	140	130	210
18	16,43	91	28,4	280	98	310	345	---	69	140	140	125	205
20	19,73	76	26,4	220	115	290	325	---	94	155	155	125	190
22,4	21,13	71	28,3	220	115	285	320	---	93	155	150	125	190
25	26,25	57	29,2	180	110	280	310	---	93	150	150	125	185
28	28,1	53	29,2	170	110	275	305	---	93	150	150	125	185
31,5	32,81	46	29,2	145	105	260	290	---	89	145	140	120	175
35,5	35,13	43	29,2	135	105	260	285	---	89	140	140	115	170
40	41,56	36	29,2	115	105	240	265	---	94	135	135	110	160
45	44,5	34	29,2	105	105	235	260	---	94	135	135	110	155
50	50,65	30	29,2	94	99	220	240	---	88	125	125	100	145
56	54,23	28	29,2	88	98	215	240	---	87	125	125	100	145
63	61,88	24	29,2	77	93	200	225	---	84	120	120	93	135
71	66,26	23	29,2	72	92	200	220	---	83	120	115	92	135
80	79,22	19	29,2	61	84	180	200	---	77	110	110	84	120
90	84,83	18	29,2	57	83	180	200	---	76	105	105	83	120
100	103,52	14	29,2	46	80	---	---	---	75	---	---	78	---
112	110,85	14	29,2	43	79	---	---	---	74	---	---	78	---
125	129,41	12	29,2	37	75	---	---	---	71	---	---	74	---
140	138,56	11	29,2	35	75	---	---	---	70	---	---	73	---
160	157,72	9,5	29,2	30	70	---	---	---	65	---	---	68	---
180	168,89	8,9	29,2	28	69	---	---	---	65	---	---	68	---
200	197,26	7,6	29,2	24	64	---	---	---	61	---	---	63	---
224	211,23	7,1	29,2	23	64	---	---	---	60	---	---	63	---
250	256,39	5,9	29,2	19	57	---	---	---	54	---	---	55	---
280	274,54	5,5	29,2	18	56	---	---	---	53	---	---	55	---
315	312,49	4,8	29,2	16	53	---	---	---	50	---	---	51	---
355	334,61	4,5	29,2	15	52	---	---	---	50	---	---	51	---
400	390,84	3,8	29,2	12	49	---	---	---	47	---	---	48	---
450	418,5	3,6	29,2	12	49	---	---	---	46	---	---	47	---
XK150e..,n_1= 1800 1/min													29.2 kNm
8	8,11	222	27,7	660	0	345	415	---	0	23	21	76	220
9	8,68	207	29,2	650	0	345	410	---	0	34	32	81	225
10	10,27	175	27,5	520	17	345	405	---	0	78	76	89	220
11,2	10,99	164	29,2	510	20	345	400	---	0	82	80	92	220
12,5	12,54	144	25,2	390	49	335	385	---	0	96	95	95	215
14	13,43	134	27	390	51	330	380	---	0	98	97	96	215
16	15,34	117	26,5	335	64	340	380	---	24	125	125	115	225
18	16,43	110	28,4	335	65	335	380	---	26	125	125	115	225
20	19,73	91	26,4	260	94	315	355	---	66	160	155	120	210
22,4	21,13	85	28,3	260	94	315	350	---	67	155	155	120	210
25	26,25	69	29,2	215	95	305	340	---	70	155	155	120	205
28	28,1	64	29,2	205	95	305	340	---	70	155	155	115	200
31,5	32,81	55	29,2	175	91	290	320	---	68	150	145	110	195
35,5	35,13	51	29,2	160	91	285	320	---	68	145	145	110	190
40	41,56	43	29,2	135	105	265	295	---	87	145	145	110	175
45	44,5	40	29,2	130	105	260	290	---	86	145	145	110	175
50	50,65	36	29,2	110	96	240	270	---	81	135	135	100	160
56	54,23	33	29,2	105	95	240	265	---	81	135	135	100	160
63	61,88	29	29,2	93	92	225	250	---	80	130	130	94	150
71	66,26	27	29,2	87	91	220	245	---	80	130	130	94	150
80	79,22	23	29,2	73	84	200	225	---	75	120	120	85	135
90	84,83	21	29,2	68	83	200	220	---	75	115	115	84	135
100	103,52	17	29,2	56	82	---	---	---	76	---	---	81	---
112	110,85	16	29,2	52	82	---	---	---	76	---	---	81	---
125	129,41	14	29,2	45	78	---	---	---	72	---	---	77	---
140	138,56	13	29,2	42	77	---	---	---	71	---	---	76	---
160	157,72	11	29,2	37	72	---	---	---	67	---	---	71	---
180	168,89	11	29,2	34	71	---	---	---	66	---	---	70	---
200	197,26	9,1	29,2	29	67	---	---	---	62	---	---	65	---
224	211,23	8,5	29,2	27	66	---	---	---	61	---	---	65	---
250	256,39	7	29,2	23	59	---	---	---	55	---	---	57	---
280	274,54	6,6	29,2	21	58	---	---	---	55	---	---	57	---
315	312,49	5,8	29,2	19	55	---	---	---	52	---	---	53	---
355	334,61	5,4	29,2	17	54	---	---	---	51	---	---	53	---
400	390,84	4,6	29,2	15	51	---	---	---	48	---	---	50	---
450	418,5	4,3	29,2	14	51	---	---	---	48	---	---	49	---

30593506/EN – 07/2023

XK160e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,38**	157	37,3	630	155	420	485	---	120	160	160	205	265
7,1	**7,19**	139	38	570	160	420	480	---	125	165	165	210	270
8	**7,93**	126	32,1	435	175	410	460	---	145	180	180	210	265
9	**8,94**	112	36,2	435	170	405	455	---	145	180	180	210	265
10	**9,69**	103	33,3	370	175	380	425	---	145	180	175	200	245
11,2	**10,92**	92	37,5	370	175	375	420	---	145	180	180	195	245
12,5	**12,35**	81	32,5	285	180	360	405	---	160	195	190	195	240
14	**13,92**	72	36,6	285	180	360	400	---	160	190	190	195	240
16	**15,53**	64	36,3	255	175	330	365	---	160	190	185	180	220
18	**17,51**	57	38	235	175	325	365	---	160	185	185	180	220
20	**20,23**	49	38	205	180	330	365	---	165	190	190	185	220
22,4	**22,8**	44	38	180	180	325	360	---	165	190	190	180	220
25	**24,77**	40	38	165	170	310	345	---	155	180	180	175	205
28	**27,91**	36	38	150	165	305	340	---	155	180	180	170	205
31,5	**30,94**	32	38	135	160	285	315	---	150	170	170	160	190
35,5	**34,87**	29	38	120	160	280	315	---	150	170	170	160	190
40	**39,12**	26	38	105	130	235	260	---	125	140	140	130	155
45	**44,08**	23	38	93	130	235	260	---	120	140	140	130	155
50	**48,46**	21	38	86	120	210	235	---	115	130	130	120	140
56	**54,62**	18	38	76	120	210	235	---	110	130	125	120	140
63	**62,05**	16	38	67	105	190	210	---	105	115	115	105	125
71	**69,92**	14	38	59	105	190	210	---	100	115	115	105	125
80	**81,9**	12	38	51	110	---	---	---	110	---	---	110	---
90	**92,3**	11	38	45	110	---	---	---	110	---	---	110	---
100	**100,25**	10	38	42	105	---	---	---	100	---	---	105	---
112	**112,98**	8,9	38	37	105	---	---	---	100	---	---	105	---
125	**126,75**	7,9	38	33	89	---	---	---	86	---	---	88	---
140	**142,85**	7	38	29	88	---	---	---	86	---	---	87	---
160	**152,4**	6,6	38	27	82	---	---	---	80	---	---	81	---
180	**171,76**	5,8	38	24	81	---	---	---	79	---	---	80	---
200	**198,63**	5	38	21	79	---	---	---	77	---	---	78	---
224	**223,85**	4,5	38	19	79	---	---	---	77	---	---	77	---
250	**251,14**	4	38	17	68	---	---	---	66	---	---	67	---
280	**283,03**	3,5	38	15	67	---	---	---	66	---	---	66	---
315	**301,95**	3,3	38	14	63	---	---	---	61	---	---	62	---
355	**340,3**	2,9	38	12	63	---	---	---	61	---	---	61	---
XK160e..,n_1= 1200 1/min													38 kNm
6,3	**6,38**	188	37,3	750	93	445	520	---	52	135	135	175	280
7,1	**7,19**	167	38	680	97	440	510	---	61	140	140	180	285
8	**7,93**	151	32,1	520	120	440	500	---	88	170	170	185	285
9	**8,94**	134	36,2	520	125	430	495	---	91	170	170	190	285
10	**9,69**	124	33,3	445	140	410	470	---	100	175	175	180	265
11,2	**10,92**	110	37,5	445	140	405	460	---	105	175	175	180	265
12,5	**12,35**	97	32,5	340	160	405	455	---	130	200	200	195	270
14	**13,92**	86	36,6	340	160	400	450	---	130	200	200	190	270
16	**15,53**	77	36,3	305	170	375	415	---	150	205	200	180	245
18	**17,51**	69	38	280	170	370	410	---	150	205	200	180	245
20	**20,23**	59	38	245	175	375	415	---	155	210	205	185	250
22,4	**22,8**	53	38	215	175	370	410	---	155	205	205	185	250
25	**24,77**	48	38	200	165	350	390	---	145	200	195	175	235
28	**27,91**	43	38	175	160	345	385	---	145	195	195	175	235
31,5	**30,94**	39	38	160	160	325	360	---	145	190	190	165	215
35,5	**34,87**	34	38	140	160	320	355	---	145	190	190	160	215
40	**39,12**	31	38	125	130	265	295	---	120	160	155	135	180
45	**44,08**	27	38	110	130	265	295	---	120	155	155	135	180
50	**48,46**	25	38	105	120	240	265	---	115	145	145	120	160
56	**54,62**	22	38	91	120	240	265	---	115	145	145	120	160
63	**62,05**	19	38	80	110	215	240	---	105	130	130	110	145
71	**69,92**	17	38	71	110	215	240	---	105	130	130	110	145
80	**81,9**	15	38	61	115	---	---	---	115	---	---	115	---
90	**92,3**	13	38	54	115	---	---	---	110	---	---	115	---
100	**100,25**	12	38	50	110	---	---	---	105	---	---	110	---
112	**112,98**	11	38	44	110	---	---	---	105	---	---	110	---
125	**126,75**	9,5	38	39	92	---	---	---	89	---	---	91	---
140	**142,85**	8,4	38	35	91	---	---	---	89	---	---	91	---
160	**152,4**	7,9	38	33	85	---	---	---	82	---	---	84	---
180	**171,76**	7	38	29	84	---	---	---	82	---	---	84	---
200	**198,63**	6	38	25	82	---	---	---	80	---	---	81	---
224	**223,85**	5,4	38	23	82	---	---	---	80	---	---	81	---
250	**251,14**	4,8	38	20	70	---	---	---	69	---	---	69	---
280	**283,03**	4,2	38	18	70	---	---	---	68	---	---	69	---
315	**301,95**	4	38	17	65	---	---	---	64	---	---	64	---
355	**340,3**	3,5	38	15	65	---	---	---	63	---	---	64	---

30593506/EN – 07/2023

XK160e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,38**	235	37,3	940	0	445	530	---	0	66	64	120	285
7,1	**7,19**	209	38	850	0	445	530	---	0	77	75	125	295
8	**7,93**	189	32,1	650	19	455	530	---	0	120	115	135	295
9	**8,94**	168	36,2	650	27	450	520	---	0	125	120	140	300
10	**9,69**	155	33,3	560	69	440	510	---	16	145	145	140	285
11,2	**10,92**	137	37,5	560	72	435	500	---	24	150	145	145	285
12,5	**12,35**	121	32,5	430	115	455	510	---	67	185	185	180	305
14	**13,92**	108	36,6	430	115	450	510	---	69	185	185	180	305
16	**15,53**	97	36,3	380	140	425	475	---	110	215	215	175	280
18	**17,51**	86	38	355	145	420	470	---	110	215	215	175	280
20	**20,23**	74	38	305	150	425	475	---	120	220	220	180	285
22,4	**22,8**	66	38	270	150	420	470	---	120	220	220	180	285
25	**24,77**	61	38	250	140	400	445	---	115	210	210	170	270
28	**27,91**	54	38	220	145	395	440	---	115	210	210	170	265
31,5	**30,94**	48	38	200	150	375	415	---	130	210	210	165	250
35,5	**34,87**	43	38	175	150	370	410	---	130	210	210	165	245
40	**39,12**	38	38	160	120	310	340	---	110	175	175	135	210
45	**44,08**	34	38	140	120	305	340	---	110	175	175	135	205
50	**48,46**	31	38	130	120	280	310	---	110	165	165	125	185
56	**54,62**	27	38	115	120	275	305	---	110	165	160	125	185
63	**62,05**	24	38	100	110	250	280	---	105	150	150	115	165
71	**69,92**	21	38	89	110	250	275	---	105	150	150	110	165
80	**81,9**	18	38	76	120	---	---	---	115	---	---	120	---
90	**92,3**	16	38	68	120	---	---	---	115	---	---	120	---
100	**100,25**	15	38	62	110	---	---	---	110	---	---	115	---
112	**112,98**	13	38	55	110	---	---	---	110	---	---	110	---
125	**126,75**	12	38	49	94	---	---	---	92	---	---	96	---
140	**142,85**	11	38	44	93	---	---	---	91	---	---	95	---
160	**152,4**	9,8	38	41	86	---	---	---	85	---	---	88	---
180	**171,76**	8,7	38	36	85	---	---	---	84	---	---	88	---
200	**198,63**	7,6	38	32	85	---	---	---	83	---	---	85	---
224	**223,85**	6,7	38	28	85	---	---	---	83	---	---	84	---
250	**251,14**	6	38	25	73	---	---	---	71	---	---	73	---
280	**283,03**	5,3	38	22	73	---	---	---	71	---	---	73	---
315	**301,95**	5	38	21	68	---	---	---	66	---	---	68	---
355	**340,3**	4,4	38	19	68	---	---	---	66	---	---	67	---
XK160e..,n_1= 1800 1/min													**38 kNm**
6,3	**6,38**	282	37,3	1150	0	405	510	---	0	0	0	31	265
7,1	**7,19**	250	38	1000	0	410	510	---	0	0	0	57	275
8	**7,93**	227	32,1	780	0	440	530	---	0	40	37	77	290
9	**8,94**	201	36,2	780	0	435	520	---	0	52	50	87	295
10	**9,69**	186	33,3	670	0	440	520	---	0	91	89	95	285
11,2	**10,92**	165	37,5	670	0	440	510	---	0	97	95	100	285
12,5	**12,35**	146	32,5	510	59	485	550	---	0	155	150	155	335
14	**13,92**	129	36,6	510	63	480	550	---	0	155	155	160	330
16	**15,53**	116	36,3	455	105	460	520	---	62	205	205	160	305
18	**17,51**	103	38	425	105	455	510	---	63	205	205	160	305
20	**20,23**	89	38	365	115	465	520	---	69	215	215	170	315
22,4	**22,8**	79	38	325	120	460	510	---	71	215	215	170	310
25	**24,77**	73	38	300	115	440	490	---	70	205	205	160	300
28	**27,91**	64	38	265	115	435	485	---	72	205	205	160	295
31,5	**30,94**	58	38	240	130	410	460	---	105	225	220	155	275
35,5	**34,87**	52	38	215	130	405	455	---	105	220	220	160	275
40	**39,12**	46	38	190	105	340	380	---	87	185	185	130	230
45	**44,08**	41	38	170	110	340	375	---	87	185	180	130	230
50	**48,46**	37	38	155	110	310	345	---	94	180	175	120	210
56	**54,62**	33	38	135	110	305	340	---	95	175	175	120	205
63	**62,05**	29	38	120	105	280	310	---	95	165	165	110	185
71	**69,92**	26	38	105	105	275	305	---	95	165	160	110	185
80	**81,9**	22	38	92	120	---	---	---	115	---	---	125	---
90	**92,3**	20	38	81	115	---	---	---	115	---	---	125	---
100	**100,25**	18	38	75	110	---	---	---	110	---	---	115	---
112	**112,98**	16	38	66	110	---	---	---	110	---	---	115	---
125	**126,75**	14	38	59	93	---	---	---	92	---	---	99	---
140	**142,85**	13	38	53	92	---	---	---	92	---	---	98	---
160	**152,4**	12	38	49	85	---	---	---	85	---	---	91	---
180	**171,76**	10	38	44	85	---	---	---	84	---	---	90	---
200	**198,63**	9,1	38	38	87	---	---	---	85	---	---	88	---
224	**223,85**	8	38	34	87	---	---	---	85	---	---	87	---
250	**251,14**	7,2	38	30	75	---	---	---	73	---	---	76	---
280	**283,03**	6,4	38	27	75	---	---	---	73	---	---	75	---
315	**301,95**	6	38	25	70	---	---	---	68	---	---	70	---
355	**340,3**	5,3	38	22	69	---	---	---	68	---	---	70	---

30593506/EN – 07/2023

XK170e..,n_1= 1000 1/min					P_{TH} 20 °C / KW								47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
8	7,93	126	46,4	630	175	450	510	---	140	180	180	225	290
9	8,92	112	47,5	570	175	445	510	---	145	185	185	230	290
10	9,86	101	45,9	500	185	430	490	---	160	195	195	225	285
11,2	11,08	90	47,5	460	185	425	480	---	160	200	195	225	280
12,5	12,05	83	41,4	370	190	400	450	---	160	195	195	215	265
14	13,54	74	46,5	370	185	390	440	---	160	195	190	210	260
16	15,35	65	40,3	285	195	380	425	---	175	205	205	210	255
18	17,25	58	45,4	285	195	375	415	---	170	205	200	205	250
20	19,3	52	45,1	255	185	345	385	---	170	200	200	190	230
22,4	21,7	46	47,5	235	185	340	380	---	170	200	195	190	230
25	25,15	40	47,3	205	190	345	385	---	175	200	200	195	230
28	28,26	35	47,5	180	185	340	375	---	170	200	200	190	230
31,5	30,78	32	47	165	180	325	360	---	165	190	190	180	220
35,5	34,6	29	47,5	150	175	320	355	---	160	185	185	180	215
40	38,45	26	46,9	130	165	300	330	---	155	180	180	170	200
45	43,22	23	47,5	120	165	295	325	---	155	175	175	165	195
50	48,62	21	46,9	105	140	245	275	---	130	150	150	140	165
56	54,64	18	47,5	94	135	245	270	---	130	145	145	135	165
63	60,23	17	46,6	85	125	220	245	---	120	135	135	125	150
71	67,69	15	47,5	77	125	220	245	---	120	135	135	125	145
80	77,11	13	46,4	66	115	200	220	---	110	125	120	110	135
90	86,67	12	47,5	60	110	195	215	---	105	120	120	110	130
100	101,79	9,8	45,6	49	120	---	---	---	115	---	---	115	---
112	114,4	8,7	47,3	45	115	---	---	---	115	---	---	115	---
125	124,6	8	46	40	110	---	---	---	110	---	---	110	---
140	140,03	7,1	47,5	37	110	---	---	---	105	---	---	110	---
160	157,54	6,3	45,4	32	93	---	---	---	91	---	---	92	---
180	177,05	5,6	47,2	29	92	---	---	---	90	---	---	91	---
200	189,42	5,3	45,3	26	86	---	---	---	84	---	---	85	---
224	212,88	4,7	47,1	24	85	---	---	---	83	---	---	84	---
250	246,86	4,1	45,6	20	83	---	---	---	81	---	---	82	---
280	277,45	3,6	47,3	19	82	---	---	---	80	---	---	81	---
315	312,13	3,2	45,1	16	71	---	---	---	70	---	---	70	---
355	350,79	2,9	46,8	15	71	---	---	---	69	---	---	69	---
400	375,29	2,7	45	13	66	---	---	---	64	---	---	65	---
450	421,78	2,4	46,7	12	65	---	---	---	64	---	---	64	---
XK170e..,n_1= 1200 1/min													47.5 kNm
8	7,93	151	46,4	750	110	475	550	---	72	160	155	195	305
9	8,92	135	47,5	680	110	470	540	---	78	165	165	200	310
10	9,86	122	45,9	600	135	465	530	---	100	190	185	205	305
11,2	11,08	108	47,5	550	140	455	520	---	105	190	190	205	305
12,5	12,05	100	41,4	445	155	435	495	---	120	195	195	195	290
14	13,54	89	46,5	445	155	430	485	---	120	195	190	195	285
16	15,35	78	40,3	340	175	425	475	---	145	220	215	210	285
18	17,25	70	45,4	340	175	420	470	---	140	215	215	205	280
20	19,3	62	45,1	305	180	390	435	---	160	215	215	190	260
22,4	21,7	55	47,5	285	180	385	430	---	160	215	215	190	260
25	25,15	48	47,3	245	185	390	435	---	165	220	220	195	265
28	28,26	42	47,5	220	185	385	425	---	165	220	215	195	260
31,5	30,78	39	47	200	175	370	410	---	155	210	210	185	250
35,5	34,6	35	47,5	180	170	360	400	---	155	205	205	185	245
40	38,45	31	46,9	160	170	340	375	---	155	200	200	170	225
45	43,22	28	47,5	145	165	335	370	---	155	200	195	170	225
50	48,62	25	46,9	125	140	280	310	---	130	165	165	145	190
56	54,64	22	47,5	115	135	275	305	---	125	165	165	140	185
63	60,23	20	46,6	100	130	255	280	---	120	155	150	130	170
71	67,69	18	47,5	92	125	250	275	---	120	150	150	125	165
80	77,11	16	46,4	79	115	225	250	---	110	140	140	115	150
90	86,67	14	47,5	72	115	225	250	---	110	135	135	115	150
100	101,79	12	45,6	59	120	---	---	---	120	---	---	120	---
112	114,4	10	47,3	54	120	---	---	---	115	---	---	120	---
125	124,6	9,6	46	49	115	---	---	---	110	---	---	115	---
140	140,03	8,6	47,5	45	115	---	---	---	110	---	---	115	---
160	157,54	7,6	45,4	38	96	---	---	---	94	---	---	96	---
180	177,05	6,8	47,2	35	95	---	---	---	93	---	---	95	---
200	189,42	6,3	45,3	31	89	---	---	---	87	---	---	89	---
224	212,88	5,6	47,1	29	88	---	---	---	86	---	---	88	---
250	246,86	4,9	45,6	25	86	---	---	---	84	---	---	85	---
280	277,45	4,3	47,3	23	85	---	---	---	83	---	---	84	---
315	312,13	3,8	45,1	19	74	---	---	---	72	---	---	73	---
355	350,79	3,4	46,8	18	73	---	---	---	72	---	---	72	---
400	375,29	3,2	45	16	69	---	---	---	67	---	---	68	---
450	421,78	2,8	46,7	15	68	---	---	---	66	---	---	67	---

30593506/EN – 07/2023

XK170e..,n_1= 1500 1/min					P_{TH} 20 °C / KW								47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
8	7,93	189	46,4	940	0	485	570	---	0	93	90	135	310
9	8,92	168	47,5	860	0	475	560	---	0	100	98	140	315
10	9,86	152	45,9	750	40	485	570	---	0	140	135	155	320
11,2	11,08	135	47,5	690	45	475	560	---	0	145	145	160	325
12,5	12,05	124	41,4	560	82	465	540	---	36	170	165	160	310
14	13,54	111	46,5	560	84	460	530	---	41	170	165	160	305
16	15,35	98	40,3	425	130	480	540	---	79	205	205	195	325
18	17,25	87	45,4	430	130	470	530	---	81	205	200	190	320
20	19,3	78	45,1	380	155	445	495	---	125	230	230	185	295
22,4	21,7	69	47,5	355	155	440	490	---	125	225	225	185	295
25	25,15	60	47,3	305	165	445	500	---	130	235	235	195	300
28	28,26	53	47,5	275	165	440	490	---	130	235	230	190	295
31,5	30,78	49	47	250	155	420	470	---	125	225	225	185	285
35,5	34,6	43	47,5	225	155	415	460	---	125	220	220	180	280
40	38,45	39	46,9	200	160	390	435	---	140	225	220	175	260
45	43,22	35	47,5	180	160	385	425	---	140	220	220	170	260
50	48,62	31	46,9	155	130	325	360	---	115	185	185	145	220
56	54,64	27	47,5	140	130	320	355	---	115	185	185	140	215
63	60,23	25	46,6	125	125	290	325	---	115	175	170	130	195
71	67,69	22	47,5	115	125	290	320	---	115	170	170	130	195
80	77,11	19	46,4	99	115	265	290	---	110	160	160	120	175
90	86,67	17	47,5	90	115	260	290	---	110	155	155	115	175
100	101,79	15	45,6	74	125	---	---	---	120	---	---	125	---
112	114,4	13	47,3	68	125	---	---	---	120	---	---	125	---
125	124,6	12	46	61	120	---	---	---	115	---	---	120	---
140	140,03	11	47,5	56	115	---	---	---	115	---	---	120	---
160	157,54	9,5	45,4	47	99	---	---	---	97	---	---	100	---
180	177,05	8,5	47,2	44	98	---	---	---	96	---	---	100	---
200	189,42	7,9	45,3	39	91	---	---	---	90	---	---	93	---
224	212,88	7	47,1	36	90	---	---	---	89	---	---	92	---
250	246,86	6,1	45,6	31	90	---	---	---	87	---	---	89	---
280	277,45	5,4	47,3	28	89	---	---	---	87	---	---	88	---
315	312,13	4,8	45,1	24	77	---	---	---	75	---	---	77	---
355	350,79	4,3	46,8	22	76	---	---	---	74	---	---	76	---
400	375,29	4	45	20	72	---	---	---	70	---	---	71	---
450	421,78	3,6	46,7	18	71	---	---	---	69	---	---	70	---
XK170e..,n_1= 1800 1/min													47.5 kNm
8	7,93	227	46,4	1150	0	450	560	---	0	0	0	57	290
9	8,92	202	47,5	1050	0	450	550	---	0	0	0	75	305
10	9,86	183	45,9	900	0	475	570	---	0	69	66	99	320
11,2	11,08	162	47,5	830	0	470	560	---	0	80	77	105	320
12,5	12,05	149	41,4	670	0	475	550	---	0	110	110	110	315
14	13,54	133	46,5	670	0	465	540	---	0	115	115	115	310
16	15,35	117	40,3	510	73	510	580	---	0	175	175	170	355
18	17,25	104	45,4	510	76	510	570	---	0	175	175	170	350
20	19,3	93	45,1	455	120	485	540	---	71	225	225	170	325
22,4	21,7	83	47,5	425	120	480	540	---	74	225	225	170	320
25	25,15	72	47,3	365	130	490	550	---	84	235	235	180	330
28	28,26	64	47,5	330	130	480	540	---	85	235	235	180	330
31,5	30,78	58	47	300	125	465	520	---	84	225	225	175	315
35,5	34,6	52	47,5	270	125	455	510	---	85	225	220	175	310
40	38,45	47	46,9	240	140	435	480	---	115	235	235	170	290
45	43,22	42	47,5	215	140	425	475	---	115	235	235	170	285
50	48,62	37	46,9	190	115	360	400	---	97	195	195	140	245
56	54,64	33	47,5	170	115	355	395	---	97	195	195	135	240
63	60,23	30	46,6	150	115	325	360	---	105	190	185	130	220
71	67,69	27	47,5	140	115	320	355	---	105	185	185	130	215
80	77,11	23	46,4	120	115	290	325	---	105	175	175	120	195
90	86,67	21	47,5	110	110	290	320	---	100	170	170	120	195
100	101,79	18	45,6	88	125	---	---	---	125	---	---	130	---
112	114,4	16	47,3	82	125	---	---	---	120	---	---	130	---
125	124,6	14	46	73	115	---	---	---	115	---	---	125	---
140	140,03	13	47,5	67	115	---	---	---	115	---	---	120	---
160	157,54	11	45,4	57	98	---	---	---	98	---	---	105	---
180	177,05	10	47,2	53	97	---	---	---	97	---	---	105	---
200	189,42	9,5	45,3	47	90	---	---	---	90	---	---	96	---
224	212,88	8,5	47,1	44	89	---	---	---	89	---	---	95	---
250	246,86	7,3	45,6	37	92	---	---	---	90	---	---	92	---
280	277,45	6,5	47,3	34	91	---	---	---	89	---	---	91	---
315	312,13	5,8	45,1	29	79	---	---	---	78	---	---	80	---
355	350,79	5,1	46,8	27	78	---	---	---	77	---	---	79	---
400	375,29	4,8	45	24	73	---	---	---	72	---	---	74	---
450	421,78	4,3	46,7	22	73	---	---	---	71	---	---	73	---

30593506/EN – 07/2023

XK180e..,n_1= 1000 1/min					P_{TH}20 °C / KW								61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,32**	158	55,3	940	115	420	500	---	13	85	83	170	255
7,1	**7,07**	141	61	920	125	440	520	---	30	99	97	185	275
8	**8**	125	61	820	135	415	485	---	75	125	125	185	260
9	**8,96**	112	61	730	145	435	510	---	83	135	135	200	275
10	**9,77**	102	54,9	610	150	400	460	---	93	145	140	185	255
11,2	**10,95**	91	61	600	160	415	480	---	100	155	150	195	265
12,5	**12,57**	80	56,5	485	220	425	475	540	155	195	195	230	285
14	**14,08**	71	61	470	225	435	485	550	165	205	205	235	295
16	**16,17**	62	54,7	365	210	395	440	500	185	220	220	220	270
18	**18,11**	55	61	365	210	405	450	510	190	225	225	225	275
20	**19,74**	51	61	335	195	380	425	480	180	215	210	215	260
22,4	**22,1**	45	61	300	205	390	430	490	185	220	220	220	270
25	**25,55**	39	61	260	190	360	400	450	175	205	205	205	250
28	**28,61**	35	60,8	230	195	370	410	460	180	215	210	215	255
31,5	**32,36**	31	61	205	180	330	365	410	170	200	200	190	230
35,5	**36,24**	28	60,8	180	185	335	375	420	175	205	205	195	235
40	**38,93**	26	61	170	160	295	330	370	155	180	180	175	210
45	**43,6**	23	60,7	150	165	305	335	380	160	185	185	175	210
50	**47,57**	21	61	140	150	275	300	340	150	170	170	160	190
56	**53,27**	19	60,7	125	155	280	310	350	150	175	170	165	195
63	**60,9**	16	60,8	110	135	240	265	300	135	155	150	140	170
71	**68,2**	15	60,6	97	135	245	270	305	135	155	155	145	170
80	**79,89**	13	61	84	135	---	---	---	135	---	---	135	---
90	**89,46**	11	61	75	135	---	---	---	140	---	---	140	---
100	**103,42**	9,7	61	65	125	---	---	---	130	---	---	125	---
112	**115,81**	8,6	60,6	57	130	---	---	---	130	---	---	130	---
125	**124,41**	8	60,7	54	115	---	---	---	115	---	---	115	---
140	**139,32**	7,2	60,2	47	120	---	---	---	120	---	---	120	---
160	**153,68**	6,5	60,6	43	105	---	---	---	105	---	---	105	---
180	**172,1**	5,8	60,1	38	105	---	---	---	105	---	---	105	---
200	**204,9**	4,9	60,5	33	99	---	---	---	98	---	---	97	---
224	**229,46**	4,4	60,1	29	100	---	---	---	100	---	---	99	---
250	**246,49**	4,1	60,2	27	91	---	---	---	90	---	---	89	---
280	**276,03**	3,6	59,9	24	93	---	---	---	92	---	---	91	---
315	**304,49**	3,3	60,1	22	83	---	---	---	82	---	---	81	---
355	**340,98**	2,9	59,8	19	84	---	---	---	83	---	---	82	---
XK180e..,n_1= 1200 1/min													**61 kNm**
6,3	**6,32**	190	55,3	1100	0	420	510	---	0	0	0	115	250
7,1	**7,07**	170	61	1100	20	445	540	---	0	7	0	130	270
8	**8**	150	61	980	67	425	510	---	0	81	79	135	265
9	**8,96**	134	61	870	75	450	530	---	0	92	90	150	285
10	**9,77**	123	54,9	730	92	420	495	---	0	110	110	145	265
11,2	**10,95**	110	61	720	99	440	510	---	11	120	115	155	280
12,5	**12,57**	95	56,5	580	205	475	530	610	105	185	185	220	315
14	**14,08**	85	61	560	210	485	550	630	110	195	195	230	325
16	**16,17**	74	54,7	440	205	445	495	570	155	230	225	215	300
18	**18,11**	66	61	440	200	455	510	580	160	235	235	225	310
20	**19,74**	61	61	400	190	430	480	540	155	225	225	210	295
22,4	**22,1**	54	61	360	195	440	490	550	160	230	230	220	305
25	**25,55**	47	61	310	185	405	450	510	150	215	215	205	285
28	**28,61**	42	60,8	275	190	415	460	520	160	225	225	210	290
31,5	**32,36**	37	61	245	175	375	415	470	160	215	215	190	260
35,5	**36,24**	33	60,8	220	180	380	420	475	165	225	220	200	265
40	**38,93**	31	61	205	160	335	375	420	145	195	195	175	235
45	**43,6**	28	60,7	180	165	345	380	430	150	200	200	180	240
50	**47,57**	25	61	170	150	310	345	390	145	190	190	165	215
56	**53,27**	23	60,7	150	155	315	350	395	150	190	190	170	220
63	**60,9**	20	60,8	130	135	270	300	340	135	170	170	145	190
71	**68,2**	18	60,6	115	135	275	305	345	135	175	175	145	195
80	**79,89**	15	61	100	140	---	---	---	140	---	---	140	---
90	**89,46**	13	61	90	140	---	---	---	140	---	---	145	---
100	**103,42**	12	61	78	130	---	---	---	130	---	---	130	---
112	**115,81**	10	60,6	69	135	---	---	---	135	---	---	135	---
125	**124,41**	9,6	60,7	64	120	---	---	---	120	---	---	120	---
140	**139,32**	8,6	60,2	57	120	---	---	---	125	---	---	120	---
160	**153,68**	7,8	60,6	52	110	---	---	---	110	---	---	110	---
180	**172,1**	7	60,1	46	110	---	---	---	110	---	---	110	---
200	**204,9**	5,9	60,5	39	100	---	---	---	100	---	---	100	---
224	**229,46**	5,2	60,1	35	105	---	---	---	105	---	---	105	---
250	**246,49**	4,9	60,2	32	94	---	---	---	93	---	---	92	---
280	**276,03**	4,3	59,9	29	96	---	---	---	95	---	---	94	---
315	**304,49**	3,9	60,1	26	86	---	---	---	85	---	---	84	---
355	**340,98**	3,5	59,8	23	87	---	---	---	87	---	---	86	---

30593506/EN – 07/2023

XK180e..,n_1= 1500 1/min					P_{TH}20 °C / KW								61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,32**	237	55,3	1400	0	380	490	---	0	0	0	0	210
7,1	**7,07**	212	61	1400	0	405	520	---	0	0	0	0	235
8	**8**	188	61	1200	0	410	510	---	0	0	0	37	245
9	**8,96**	167	61	1100	0	435	530	---	0	0	0	63	270
10	**9,77**	154	54,9	910	0	425	510	---	0	17	14	75	255
11,2	**10,95**	137	61	900	0	440	530	---	0	30	27	86	275
12,5	**12,57**	119	56,5	730	170	530	600	690	0	145	140	200	350
14	**14,08**	107	61	700	180	540	610	710	9	155	150	210	365
16	**16,17**	93	54,7	550	185	500	570	650	96	220	220	205	340
18	**18,11**	83	61	550	190	520	580	660	100	230	230	210	350
20	**19,74**	76	61	500	175	490	550	620	100	220	220	200	330
22,4	**22,1**	68	61	450	180	500	560	630	110	230	225	210	340
25	**25,55**	59	61	390	170	465	520	590	105	215	215	200	320
28	**28,61**	52	60,8	345	175	475	530	600	110	225	225	205	330
31,5	**32,36**	46	61	305	165	425	475	540	130	230	230	190	300
35,5	**36,24**	41	60,8	275	170	435	485	550	135	235	235	195	305
40	**38,93**	39	61	255	150	385	430	485	120	210	210	170	270
45	**43,6**	34	60,7	225	155	395	440	495	125	215	215	180	275
50	**47,57**	32	61	210	145	355	395	450	130	210	205	165	250
56	**53,27**	28	60,7	185	150	365	405	460	135	210	210	170	255
63	**60,9**	25	60,8	165	130	310	345	390	130	190	190	145	220
71	**68,2**	22	60,6	145	135	320	355	400	130	195	195	150	225
80	**79,89**	19	61	125	140	---	---	---	145	---	---	145	---
90	**89,46**	17	61	110	140	---	---	---	145	---	---	150	---
100	**103,42**	15	61	97	130	---	---	---	135	---	---	140	---
112	**115,81**	13	60,6	86	135	---	---	---	140	---	---	140	---
125	**124,41**	12	60,7	80	120	---	---	---	125	---	---	125	---
140	**139,32**	11	60,2	71	125	---	---	---	125	---	---	130	---
160	**153,68**	9,8	60,6	65	110	---	---	---	115	---	---	115	---
180	**172,1**	8,7	60,1	57	110	---	---	---	115	---	---	115	---
200	**204,9**	7,3	60,5	49	105	---	---	---	105	---	---	105	---
224	**229,46**	6,5	60,1	44	110	---	---	---	110	---	---	110	---
250	**246,49**	6,1	60,2	41	97	---	---	---	98	---	---	97	---
280	**276,03**	5,4	59,9	36	99	---	---	---	99	---	---	98	---
315	**304,49**	4,9	60,1	33	89	---	---	---	89	---	---	88	---
355	**340,98**	4,4	59,8	29	91	---	---	---	91	---	---	90	---
XK180e..,n_1= 1800 1/min													61 kNm
6,3	**6,32**	285	55,3	1700	0	295	425	---	0	0	0	0	145
7,1	**7,07**	255	61	1650	0	325	455	---	0	0	0	0	175
8	**8**	225	61	1450	0	355	465	---	0	0	0	0	200
9	**8,96**	201	61	1300	0	380	495	---	0	0	0	0	225
10	**9,77**	184	54,9	1100	0	390	490	---	0	0	0	0	225
11,2	**10,95**	164	61	1100	0	410	510	---	0	0	0	0	245
12,5	**12,57**	143	56,5	880	125	560	640	750	0	90	88	165	370
14	**14,08**	128	61	850	135	580	660	770	0	99	97	175	385
16	**16,17**	111	54,7	660	155	550	620	710	21	190	190	180	365
18	**18,11**	99	61	660	160	560	630	730	28	200	200	190	375
20	**19,74**	91	61	600	155	530	600	690	34	195	195	180	355
22,4	**22,1**	81	61	540	150	540	610	700	39	205	205	195	370
25	**25,55**	70	61	465	145	510	570	650	43	195	195	185	345
28	**28,61**	63	60,8	415	155	520	580	660	46	205	205	190	360
31,5	**32,36**	56	61	370	145	470	520	600	91	230	225	180	325
35,5	**36,24**	50	60,8	325	155	480	530	610	97	235	235	185	335
40	**38,93**	46	61	305	135	425	475	540	86	210	210	165	300
45	**43,6**	41	60,7	270	140	435	485	550	91	215	215	170	305
50	**47,57**	38	61	255	135	395	440	500	105	215	215	155	275
56	**53,27**	34	60,7	225	140	400	450	510	110	225	220	160	280
63	**60,9**	30	60,8	195	125	345	385	435	115	205	205	140	240
71	**68,2**	26	60,6	175	130	350	390	445	120	210	210	145	245
80	**79,89**	23	61	150	135	---	---	---	145	---	---	150	---
90	**89,46**	20	61	135	140	---	---	---	150	---	---	150	---
100	**103,42**	17	61	115	130	---	---	---	140	---	---	140	---
112	**115,81**	16	60,6	105	135	---	---	---	140	---	---	145	---
125	**124,41**	14	60,7	96	120	---	---	---	125	---	---	130	---
140	**139,32**	13	60,2	85	120	---	---	---	130	---	---	130	---
160	**153,68**	12	60,6	78	110	---	---	---	115	---	---	115	---
180	**172,1**	10	60,1	69	110	---	---	---	115	---	---	120	---
200	**204,9**	8,8	60,5	59	105	---	---	---	110	---	---	110	---
224	**229,46**	7,8	60,1	52	110	---	---	---	110	---	---	110	---
250	**246,49**	7,3	60,2	49	99	---	---	---	100	---	---	100	---
280	**276,03**	6,5	59,9	43	100	---	---	---	100	---	---	100	---
315	**304,49**	5,9	60,1	39	91	---	---	---	92	---	---	91	---
355	**340,98**	5,3	59,8	35	93	---	---	---	94	---	---	93	---

30593506/EN – 07/2023

XK190e..,n_1= 1000 1/min					P_{TH}20 °C / KW								69 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
7,1	**7,05**	142	61,8	940	135	465	550	---	32	105	100	195	285
8	**7,92**	126	69	930	140	480	560	---	50	115	115	210	300
9	**8,93**	112	67,5	810	155	455	530	---	90	140	140	205	285
10	**10,04**	100	69	740	165	470	550	---	98	155	155	220	300
11,2	**10,91**	92	61,3	610	170	435	500	---	110	165	160	205	280
12,5	**12,26**	82	68,9	610	175	445	510	---	115	170	170	215	285
14	**14,04**	71	63,1	485	235	455	510	570	170	215	215	245	305
16	**15,77**	63	67,7	465	235	460	510	570	175	220	220	250	310
18	**18,05**	55	61,1	365	220	420	465	520	200	235	235	235	290
20	**20,29**	49	67,6	360	220	425	470	520	200	240	235	240	290
22,4	**22,04**	45	69	340	210	405	450	500	195	230	225	230	280
25	**24,77**	40	67,5	295	215	410	455	500	200	235	230	235	285
28	**28,53**	35	68,3	260	205	385	425	470	185	220	220	220	265
31,5	**32,06**	31	67,3	230	210	385	430	475	190	225	225	225	270
35,5	**36,14**	28	68,2	205	190	350	385	430	185	210	210	205	245
40	**40,61**	25	67,3	180	195	355	390	430	185	215	215	205	245
45	**43,48**	23	69	170	175	315	350	385	165	190	190	185	220
50	**48,85**	20	67,2	150	175	320	350	390	170	195	190	185	225
56	**53,11**	19	69	140	160	290	320	355	155	180	180	170	205
63	**59,68**	17	67,2	125	160	290	325	360	160	180	180	170	205
71	**68**	15	67,9	110	140	250	280	310	140	160	160	150	175
80	**76,41**	13	67,2	96	140	255	280	310	145	165	160	150	180
90	**89,21**	11	69	85	140	---	---	---	140	---	---	140	---
100	**100,24**	10	67,8	74	145	---	---	---	140	---	---	145	---
112	**115,48**	8,7	68,4	65	135	---	---	---	130	---	---	135	---
125	**129,76**	7,7	67,7	57	135	---	---	---	135	---	---	135	---
140	**138,93**	7,2	69	54	120	---	---	---	120	---	---	120	---
160	**156,11**	6,4	67,6	47	125	---	---	---	120	---	---	125	---
180	**171,61**	5,8	69	44	110	---	---	---	110	---	---	110	---
200	**192,84**	5,2	67,6	38	110	---	---	---	110	---	---	110	---
224	**228,8**	4,4	68,4	33	105	---	---	---	100	---	---	105	---
250	**257,1**	3,9	67,7	29	105	---	---	---	100	---	---	105	---
280	**275,25**	3,6	69	28	96	---	---	---	93	---	---	93	---
315	**309,29**	3,2	67,6	24	97	---	---	---	94	---	---	94	---
355	**340,02**	2,9	69	22	87	---	---	---	84	---	---	85	---
400	**382,06**	2,6	67,6	20	88	---	---	---	85	---	---	86	---
XK190e..,n_1= 1200 1/min													**69 kNm**
7,1	**7,05**	170	61,8	1150	26	470	570	---	0	0	0	130	280
8	**7,92**	152	69	1100	36	485	580	---	0	33	30	145	300
9	**8,93**	134	67,5	970	83	470	560	---	0	100	98	150	295
10	**10,04**	120	69	880	90	485	580	---	0	110	110	165	310
11,2	**10,91**	110	61,3	730	110	460	540	---	20	130	125	165	290
12,5	**12,26**	98	68,9	730	110	470	550	---	31	140	135	175	300
14	**14,04**	85	63,1	580	220	510	570	640	120	205	205	240	340
16	**15,77**	76	67,7	560	225	510	570	640	125	210	210	245	345
18	**18,05**	66	61,1	440	210	475	530	590	170	250	245	230	325
20	**20,29**	59	67,6	435	215	480	530	590	175	255	250	235	330
22,4	**22,04**	54	69	405	205	455	510	560	170	240	240	225	315
25	**24,77**	48	67,5	355	210	460	510	570	175	250	245	230	320
28	**28,53**	42	68,3	310	200	430	480	530	165	235	235	220	300
31,5	**32,06**	37	67,3	275	205	435	485	540	170	240	240	225	305
35,5	**36,14**	33	68,2	245	190	395	440	485	170	235	230	205	275
40	**40,61**	30	67,3	215	190	400	445	490	175	235	235	210	280
45	**43,48**	28	69	205	170	355	395	440	155	210	210	185	250
50	**48,85**	25	67,2	180	175	360	400	445	160	210	210	190	255
56	**53,11**	23	69	170	160	330	365	405	155	200	200	175	230
63	**59,68**	20	67,2	150	165	330	370	410	155	200	200	175	235
71	**68**	18	67,9	130	140	285	315	350	140	180	180	150	200
80	**76,41**	16	67,2	115	145	290	320	355	145	185	180	155	205
90	**89,21**	13	69	100	145	---	---	---	140	---	---	150	---
100	**100,24**	12	67,8	89	145	---	---	---	145	---	---	150	---
112	**115,48**	10	68,4	78	140	---	---	---	135	---	---	140	---
125	**129,76**	9,2	67,7	69	140	---	---	---	135	---	---	140	---
140	**138,93**	8,6	69	65	125	---	---	---	120	---	---	125	---
160	**156,11**	7,7	67,6	57	125	---	---	---	125	---	---	130	---
180	**171,61**	7	69	53	115	---	---	---	110	---	---	115	---
200	**192,84**	6,2	67,6	46	115	---	---	---	110	---	---	115	---
224	**228,8**	5,2	68,4	40	110	---	---	---	105	---	---	105	---
250	**257,1**	4,7	67,7	35	110	---	---	---	105	---	---	110	---
280	**275,25**	4,4	69	33	99	---	---	---	96	---	---	97	---
315	**309,29**	3,9	67,6	29	100	---	---	---	97	---	---	98	---
355	**340,02**	3,5	69	27	90	---	---	---	87	---	---	88	---
400	**382,06**	3,1	67,6	24	91	---	---	---	88	---	---	90	---

30593506/EN – 07/2023

XK190e..,n_1= 1500 1/min					P_{TH}20 °C / KW								69 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
7,1	**7,05**	213	61,8	1400	0	430	550	---	0	0	0	0	235
8	**7,92**	189	69	1400	0	450	570	---	0	0	0	0	260
9	**8,93**	168	67,5	1200	0	455	560	---	0	0	0	56	275
10	**10,04**	149	69	1100	0	475	580	---	0	0	0	78	295
11,2	**10,91**	137	61,3	910	0	465	560	---	0	45	38	90	285
12,5	**12,26**	122	68,9	910	0	475	570	---	0	57	54	100	300
14	**14,04**	107	63,1	730	190	560	640	720	15	165	160	215	375
16	**15,77**	95	67,7	700	195	570	650	730	23	170	170	225	385
18	**18,05**	83	61,1	550	200	540	600	670	110	240	240	220	365
20	**20,29**	74	67,6	540	190	540	610	680	115	245	245	225	370
22,4	**22,04**	68	69	510	185	520	580	650	115	240	235	215	355
25	**24,77**	61	67,5	445	195	520	590	650	120	245	245	225	360
28	**28,53**	53	68,3	390	185	495	550	610	115	235	235	210	340
31,5	**32,06**	47	67,3	340	190	500	560	620	120	240	240	220	350
35,5	**36,14**	42	68,2	305	175	450	500	560	145	245	245	200	315
40	**40,61**	37	67,3	270	180	455	510	560	145	250	250	205	320
45	**43,48**	34	69	260	160	410	455	510	130	225	225	185	285
50	**48,85**	31	67,2	225	165	415	460	510	135	230	230	190	290
56	**53,11**	28	69	215	155	375	420	465	140	220	220	175	265
63	**59,68**	25	67,2	185	160	380	425	470	140	225	220	180	265
71	**68**	22	67,9	165	140	330	365	405	135	205	205	155	230
80	**76,41**	20	67,2	145	145	335	370	410	140	205	205	155	235
90	**89,21**	17	69	125	145	---	---	---	145	---	---	155	---
100	**100,24**	15	67,8	110	150	---	---	---	145	---	---	155	---
112	**115,48**	13	68,4	97	140	---	---	---	135	---	---	145	---
125	**129,76**	12	67,7	86	140	---	---	---	135	---	---	145	---
140	**138,93**	11	69	82	125	---	---	---	125	---	---	130	---
160	**156,11**	9,6	67,6	71	130	---	---	---	125	---	---	135	---
180	**171,61**	8,7	69	66	115	---	---	---	115	---	---	120	---
200	**192,84**	7,8	67,6	58	115	---	---	---	115	---	---	120	---
224	**228,8**	6,6	68,4	50	110	---	---	---	105	---	---	110	---
250	**257,1**	5,8	67,7	44	110	---	---	---	110	---	---	115	---
280	**275,25**	5,4	69	42	100	---	---	---	99	---	---	100	---
315	**309,29**	4,8	67,6	36	105	---	---	---	100	---	---	105	---
355	**340,02**	4,4	69	34	94	---	---	---	90	---	---	93	---
400	**382,06**	3,9	67,6	29	95	---	---	---	91	---	---	94	---
XK190e..,n_1= 1800 1/min													69 kNm
7,1	**7,05**	255	61,8	1700	0	350	480	---	0	0	0	0	170
8	**7,92**	227	69	1700	0	370	500	---	0	0	0	0	200
9	**8,93**	202	67,5	1450	0	400	520	---	0	0	0	0	225
10	**10,04**	179	69	1300	0	420	540	---	0	0	0	0	255
11,2	**10,91**	165	61,3	1100	0	435	540	---	0	0	0	0	255
12,5	**12,26**	147	68,9	1100	0	445	550	---	0	0	0	0	270
14	**14,04**	128	63,1	880	140	600	690	780	0	105	105	180	400
16	**15,77**	114	67,7	840	150	620	700	800	0	115	110	195	410
18	**18,05**	100	61,1	660	170	580	660	740	34	215	210	200	390
20	**20,29**	89	67,6	650	170	590	660	750	40	220	220	205	400
22,4	**22,04**	82	69	610	155	570	640	710	45	215	215	200	385
25	**24,77**	73	67,5	530	165	570	640	720	49	225	220	205	390
28	**28,53**	63	68,3	465	160	540	600	680	52	215	215	200	370
31,5	**32,06**	56	67,3	410	165	550	610	680	55	220	220	205	380
35,5	**36,14**	50	68,2	370	160	500	560	620	105	250	245	190	350
40	**40,61**	44	67,3	325	165	500	560	630	110	255	250	200	350
45	**43,48**	41	69	310	145	450	500	560	96	225	225	175	315
50	**48,85**	37	67,2	270	150	455	510	570	100	230	230	180	320
56	**53,11**	34	69	255	145	415	465	520	115	230	230	170	290
63	**59,68**	30	67,2	220	145	420	470	520	120	235	235	170	295
71	**68**	26	67,9	195	135	365	405	450	125	220	220	150	255
80	**76,41**	24	67,2	175	135	370	410	455	125	220	220	155	260
90	**89,21**	20	69	155	145	---	---	---	140	---	---	160	---
100	**100,24**	18	67,8	135	145	---	---	---	140	---	---	160	---
112	**115,48**	16	68,4	115	140	---	---	---	135	---	---	150	---
125	**129,76**	14	67,7	105	140	---	---	---	135	---	---	150	---
140	**138,93**	13	69	98	125	---	---	---	120	---	---	135	---
160	**156,11**	12	67,6	85	125	---	---	---	125	---	---	140	---
180	**171,61**	10	69	79	115	---	---	---	110	---	---	125	---
200	**192,84**	9,3	67,6	69	115	---	---	---	110	---	---	125	---
224	**228,8**	7,9	68,4	60	115	---	---	---	110	---	---	115	---
250	**257,1**	7	67,7	53	115	---	---	---	110	---	---	115	---
280	**275,25**	6,5	69	50	105	---	---	---	100	---	---	105	---
315	**309,29**	5,8	67,6	44	105	---	---	---	100	---	---	105	---
355	**340,02**	5,3	69	40	95	---	---	---	92	---	---	96	---
400	**382,06**	4,7	67,6	35	96	---	---	---	93	---	---	97	---

30593506/EN – 07/2023

XK200e..,n_1= 1000 1/min					P_{TH}20 °C / KW								83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,4**	156	74,9	1250	140	570	680	---	0	73	69	230	350
7,1	**7,26**	138	83	1200	145	560	660	---	0	91	88	235	350
8	**8,11**	123	78,9	1050	160	550	640	---	65	140	135	245	350
9	**9,2**	109	83	970	160	540	630	---	77	145	145	245	345
10	**9,91**	101	72	790	185	520	610	---	100	165	165	240	335
11,2	**11,24**	89	81,7	790	180	510	590	---	105	165	165	240	330
12,5	**12,45**	80	83	720	275	560	630	710	160	215	215	300	375
14	**14,12**	71	83	640	275	550	610	690	160	215	215	295	370
16	**16,32**	61	77,5	510	260	510	570	650	210	260	260	285	350
18	**18,5**	54	83	485	250	500	560	630	210	255	255	280	345
20	**20,56**	49	83	440	250	490	550	610	210	255	250	275	340
22,4	**23,31**	43	83	385	245	480	530	600	205	250	250	270	335
25	**25,72**	39	83	350	230	450	495	560	195	235	235	255	310
28	**29,17**	34	83	310	230	440	485	550	190	230	230	250	305
31,5	**31,97**	31	83	280	215	400	445	500	200	235	235	235	280
35,5	**36,26**	28	83	250	210	395	435	490	200	235	230	230	275
40	**39,61**	25	83	225	210	390	430	480	200	230	230	225	270
45	**44,92**	22	83	200	210	380	420	470	195	225	225	220	265
50	**48,39**	21	83	190	200	365	405	450	195	225	220	215	255
56	**54,88**	18	83	165	195	355	395	445	190	220	215	210	250
63	**61,95**	16	83	145	185	330	365	410	180	205	205	195	230
71	**70,26**	14	83	130	180	325	360	400	175	200	200	190	225
80	**79,69**	13	83	115	175	---	---	---	175	---	---	175	---
90	**90,37**	11	83	100	170	---	---	---	170	---	---	175	---
100	**99,7**	10	83	91	160	---	---	---	160	---	---	160	---
112	**113,07**	8,8	83	80	155	---	---	---	155	---	---	160	---
125	**123,51**	8,1	83	74	155	---	---	---	155	---	---	160	---
140	**140,07**	7,1	83	65	150	---	---	---	150	---	---	155	---
160	**152,66**	6,6	83	60	145	---	---	---	140	---	---	145	---
180	**173,13**	5,8	83	53	140	---	---	---	140	---	---	140	---
200	**197,54**	5,1	83	47	125	---	---	---	120	---	---	125	---
224	**224,02**	4,5	83	41	120	---	---	---	120	---	---	120	---
250	**244,71**	4,1	83	38	120	---	---	---	120	---	---	120	---
280	**277,52**	3,6	83	33	120	---	---	---	115	---	---	120	---
315	**302,47**	3,3	83	30	110	---	---	---	110	---	---	110	---
355	**343,03**	2,9	83	27	110	---	---	---	110	---	---	110	---
XK200e..,n_1= 1200 1/min													**83 kNm**
6,3	**6,4**	188	74,9	1500	0	560	690	---	0	0	0	145	335
7,1	**7,26**	165	83	1450	0	550	680	---	0	0	0	160	340
8	**8,11**	148	78,9	1250	45	560	670	---	0	52	48	175	350
9	**9,2**	130	83	1150	54	550	660	---	0	70	67	175	355
10	**9,91**	121	72	940	99	540	640	---	0	115	110	185	345
11,2	**11,24**	107	81,7	940	100	530	630	---	0	120	115	185	340
12,5	**12,45**	96	83	870	250	620	700	800	69	180	175	280	410
14	**14,12**	85	83	760	250	610	680	780	75	180	180	280	405
16	**16,32**	74	77,5	620	250	580	640	730	160	255	255	275	390
18	**18,5**	65	83	580	235	560	630	710	160	255	250	270	385
20	**20,56**	58	83	530	235	550	620	690	160	255	250	270	380
22,4	**23,31**	51	83	465	235	540	600	680	160	250	250	265	370
25	**25,72**	47	83	420	220	510	560	630	155	240	235	250	350
28	**29,17**	41	83	370	220	495	550	620	155	235	235	250	345
31,5	**31,97**	38	83	340	210	455	500	570	185	255	255	230	315
35,5	**36,26**	33	83	300	205	445	495	560	180	250	250	230	310
40	**39,61**	30	83	275	210	440	485	550	185	250	250	230	305
45	**44,92**	27	83	240	205	430	475	540	180	245	245	225	300
50	**48,39**	25	83	225	200	415	460	510	185	245	245	220	290
56	**54,88**	22	83	200	200	405	450	500	185	240	240	215	285
63	**61,95**	19	83	175	185	375	415	465	175	230	225	200	265
71	**70,26**	17	83	155	180	370	410	455	170	225	220	195	260
80	**79,69**	15	83	135	175	---	---	---	180	---	---	185	---
90	**90,37**	13	83	120	175	---	---	---	175	---	---	180	---
100	**99,7**	12	83	110	165	---	---	---	165	---	---	170	---
112	**113,07**	11	83	97	160	---	---	---	160	---	---	165	---
125	**123,51**	9,7	83	88	160	---	---	---	160	---	---	165	---
140	**140,07**	8,6	83	78	155	---	---	---	155	---	---	160	---
160	**152,66**	7,9	83	72	145	---	---	---	145	---	---	150	---
180	**173,13**	6,9	83	63	145	---	---	---	145	---	---	150	---
200	**197,54**	6,1	83	56	130	---	---	---	125	---	---	130	---
224	**224,02**	5,4	83	49	125	---	---	---	125	---	---	125	---
250	**244,71**	4,9	83	45	125	---	---	---	125	---	---	125	---
280	**277,52**	4,3	83	40	125	---	---	---	120	---	---	120	---
315	**302,47**	4	83	36	115	---	---	---	115	---	---	115	---
355	**343,03**	3,5	83	32	115	---	---	---	110	---	---	115	---

30593506/EN – 07/2023

XK200e..,n_1= 1500 1/min					P_{TH}20 °C / KW								83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,4**	234	74,9	1900	0	495	650	---	0	0	0	0	275
7,1	**7,26**	207	83	1850	0	495	640	---	0	0	0	0	285
8	**8,11**	185	78,9	1550	0	520	650	---	0	0	0	24	320
9	**9,2**	163	83	1450	0	520	650	---	0	0	0	45	325
10	**9,91**	151	72	1200	0	530	650	---	0	0	0	81	330
11,2	**11,24**	133	81,7	1200	0	520	640	---	0	0	0	91	330
12,5	**12,45**	120	83	1100	190	680	770	900	0	99	96	245	450
14	**14,12**	106	83	960	195	670	760	880	0	105	105	250	445
16	**16,32**	92	77,5	770	220	650	730	830	54	220	220	255	435
18	**18,5**	81	83	730	210	630	710	810	58	220	220	250	425
20	**20,56**	73	83	660	200	620	700	790	67	225	225	255	425
22,4	**23,31**	64	83	580	200	610	680	770	71	225	220	250	415
25	**25,72**	58	83	520	195	570	640	720	70	215	215	240	395
28	**29,17**	51	83	465	190	560	630	710	70	215	210	235	390
31,5	**31,97**	47	83	420	195	520	580	650	145	265	265	225	360
35,5	**36,26**	41	83	370	195	510	570	640	145	260	260	220	355
40	**39,61**	38	83	340	195	500	560	630	145	265	260	220	350
45	**44,92**	33	83	300	190	490	550	620	145	260	260	220	340
50	**48,39**	31	83	280	195	475	530	590	165	270	265	215	330
56	**54,88**	27	83	250	190	465	520	580	160	265	260	215	325
63	**61,95**	24	83	220	180	430	480	540	160	250	250	200	300
71	**70,26**	21	83	195	180	420	470	530	160	245	245	195	295
80	**79,69**	19	83	170	180	---	---	---	180	---	---	190	---
90	**90,37**	17	83	150	175	---	---	---	175	---	---	190	---
100	**99,7**	15	83	135	165	---	---	---	165	---	---	175	---
112	**113,07**	13	83	120	160	---	---	---	165	---	---	175	---
125	**123,51**	12	83	110	160	---	---	---	160	---	---	170	---
140	**140,07**	11	83	97	155	---	---	---	160	---	---	170	---
160	**152,66**	9,8	83	89	145	---	---	---	150	---	---	160	---
180	**173,13**	8,7	83	79	145	---	---	---	145	---	---	155	---
200	**197,54**	7,6	83	70	130	---	---	---	130	---	---	135	---
224	**224,02**	6,7	83	62	130	---	---	---	130	---	---	130	---
250	**244,71**	6,1	83	56	130	---	---	---	125	---	---	130	---
280	**277,52**	5,4	83	50	125	---	---	---	125	---	---	130	---
315	**302,47**	5	83	46	120	---	---	---	120	---	---	120	---
355	**343,03**	4,4	83	40	115	---	---	---	115	---	---	120	---
XK200e..,n_1= 1800 1/min													83 kNm
6,3	**6,4**	281	74,9	2250	0	370	550	---	0	0	0	0	170
7,1	**7,26**	248	83	2200	0	380	560	---	0	0	0	0	205
8	**8,11**	222	78,9	1900	0	435	590	---	0	0	0	0	255
9	**9,2**	196	83	1750	0	440	590	---	0	0	0	0	265
10	**9,91**	182	72	1400	0	480	610	---	0	0	0	0	285
11,2	**11,24**	160	81,7	1400	0	475	600	---	0	0	0	0	285
12,5	**12,45**	145	83	1300	130	710	820	970	0	0	0	195	470
14	**14,12**	127	83	1150	135	710	810	950	0	15	11	200	470
16	**16,32**	110	77,5	930	170	690	790	910	0	155	150	220	465
18	**18,5**	97	83	880	170	680	770	890	0	155	155	220	455
20	**20,56**	88	83	790	170	670	760	870	0	165	165	225	455
22,4	**23,31**	77	83	690	160	660	740	850	0	170	165	225	450
25	**25,72**	70	83	630	155	620	700	800	0	165	165	215	425
28	**29,17**	62	83	560	155	610	680	780	0	165	165	215	420
31,5	**31,97**	56	83	510	170	570	630	720	86	260	255	205	390
35,5	**36,26**	50	83	445	170	560	620	710	88	255	255	205	385
40	**39,61**	45	83	410	175	550	620	700	91	260	255	210	380
45	**44,92**	40	83	360	170	540	600	680	92	255	255	205	375
50	**48,39**	37	83	340	175	520	580	660	125	275	275	205	365
56	**54,88**	33	83	300	175	510	570	640	125	270	270	205	360
63	**61,95**	29	83	265	170	475	530	600	135	265	265	195	335
71	**70,26**	26	83	235	165	465	520	590	130	260	260	190	325
80	**79,69**	23	83	205	175	---	---	---	180	---	---	195	---
90	**90,37**	20	83	180	170	---	---	---	175	---	---	195	---
100	**99,7**	18	83	165	160	---	---	---	165	---	---	180	---
112	**113,07**	16	83	145	160	---	---	---	165	---	---	175	---
125	**123,51**	15	83	135	160	---	---	---	160	---	---	175	---
140	**140,07**	13	83	115	155	---	---	---	160	---	---	170	---
160	**152,66**	12	83	105	145	---	---	---	150	---	---	165	---
180	**173,13**	10	83	95	145	---	---	---	145	---	---	160	---
200	**197,54**	9,1	83	84	135	---	---	---	135	---	---	140	---
224	**224,02**	8	83	74	130	---	---	---	130	---	---	135	---
250	**244,71**	7,4	83	68	130	---	---	---	130	---	---	135	---
280	**277,52**	6,5	83	60	130	---	---	---	130	---	---	130	---
315	**302,47**	6	83	55	120	---	---	---	120	---	---	125	---
355	**343,03**	5,2	83	48	120	---	---	---	120	---	---	125	---

30593506/EN – 07/2023

XK210e..,n_1= 1000 1/min					P_{TH}20 °C / KW								96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
7,1	**7,25**	138	84,9	1250	155	590	710	---	0	96	93	245	370
8	**8,21**	122	96	1250	160	580	690	---	0	110	105	250	365
9	**9,19**	109	89,4	1050	175	570	670	---	85	155	155	260	365
10	**10,4**	96	96	990	175	560	650	---	92	155	155	260	360
11,2	**11,22**	89	81,6	790	195	540	630	---	115	180	180	255	350
12,5	**12,71**	79	92,4	790	190	530	610	---	115	180	180	250	340
14	**14,1**	71	94,2	720	285	570	640	710	170	225	225	305	385
16	**15,96**	63	96	650	275	560	620	690	170	225	220	300	375
18	**18,48**	54	87,7	510	265	530	580	650	220	270	265	290	360
20	**20,92**	48	96	495	255	510	570	630	215	265	260	285	350
22,4	**23,28**	43	96	445	255	500	560	620	215	260	260	285	345
25	**26,36**	38	96	395	250	490	540	600	210	255	255	275	340
28	**29,13**	34	96	355	240	455	510	560	200	240	240	260	320
31,5	**32,97**	30	96	315	235	445	495	550	195	240	235	255	310
35,5	**36,2**	28	96	285	220	410	455	500	205	245	240	240	285
40	**40,99**	24	96	255	215	400	445	490	205	240	235	235	280
45	**44,85**	22	96	230	215	395	440	485	205	235	235	230	275
50	**50,78**	20	96	205	210	385	430	470	200	230	230	225	270
56	**54,79**	18	96	190	205	370	410	455	200	230	225	220	260
63	**62,03**	16	96	170	200	365	400	445	195	225	220	215	255
71	**70,15**	14	94	145	185	335	375	410	185	210	210	200	235
80	**79,42**	13	96	130	180	330	365	400	180	205	205	195	230
90	**90,23**	11	95,3	115	180	---	---	---	175	---	---	180	---
100	**102,16**	9,8	96	105	175	---	---	---	175	---	---	175	---
112	**112,9**	8,9	95,5	93	165	---	---	---	165	---	---	165	---
125	**127,82**	7,8	96	82	160	---	---	---	160	---	---	160	---
140	**139,86**	7,2	95,1	75	160	---	---	---	160	---	---	160	---
160	**158,34**	6,3	96	66	155	---	---	---	155	---	---	155	---
180	**172,87**	5,8	95	60	145	---	---	---	145	---	---	150	---
200	**195,72**	5,1	96	54	140	---	---	---	140	---	---	145	---
224	**223,68**	4,5	94,6	47	125	---	---	---	125	---	---	125	---
250	**253,24**	3,9	96	42	125	---	---	---	120	---	---	125	---
280	**277,1**	3,6	94,4	38	125	---	---	---	120	---	---	120	---
315	**313,72**	3,2	96	34	120	---	---	---	120	---	---	120	---
355	**342,51**	2,9	94,2	30	115	---	---	---	110	---	---	115	---
400	**387,77**	2,6	96	27	110	---	---	---	110	---	---	110	---
XK210e..,n_1= 1200 1/min													96 kNm
7,1	**7,25**	166	84,9	1500	0	590	720	---	0	0	0	160	355
8	**8,21**	146	96	1500	0	580	700	---	0	0	0	170	360
9	**9,19**	131	89,4	1250	67	580	700	---	0	75	72	190	370
10	**10,4**	115	96	1200	75	570	680	---	0	93	90	190	370
11,2	**11,22**	107	81,6	940	110	570	670	---	0	130	125	200	360
12,5	**12,71**	94	92,4	940	110	550	650	---	0	130	130	195	355
14	**14,1**	85	94,2	870	260	630	710	800	81	190	190	290	425
16	**15,96**	75	96	780	255	620	700	780	86	190	190	290	415
18	**18,48**	65	87,7	620	250	590	660	730	170	270	265	285	400
20	**20,92**	57	96	600	245	570	640	710	165	265	260	280	390
22,4	**23,28**	52	96	540	245	560	630	700	170	265	260	275	390
25	**26,36**	46	96	475	240	550	610	680	170	260	255	275	380
28	**29,13**	41	96	430	225	520	570	630	160	245	245	260	360
31,5	**32,97**	36	96	380	225	500	560	620	160	240	240	255	350
35,5	**36,2**	33	96	345	215	465	520	570	190	260	260	240	325
40	**40,99**	29	96	305	210	455	500	560	185	255	255	235	315
45	**44,85**	27	96	280	215	450	495	550	190	255	255	235	310
50	**50,78**	24	96	245	210	435	485	540	185	250	250	230	305
56	**54,79**	22	96	230	205	420	470	520	190	250	250	225	295
63	**62,03**	19	96	205	200	410	455	500	190	245	245	215	290
71	**70,15**	17	94	175	190	385	425	470	180	235	230	205	270
80	**79,42**	15	96	160	185	375	415	455	175	230	225	200	265
90	**90,23**	13	95,3	140	180	---	---	---	180	---	---	190	---
100	**102,16**	12	96	125	180	---	---	---	180	---	---	185	---
112	**112,9**	11	95,5	110	165	---	---	---	165	---	---	170	---
125	**127,82**	9,4	96	99	165	---	---	---	165	---	---	170	---
140	**139,86**	8,6	95,1	89	160	---	---	---	160	---	---	165	---
160	**158,34**	7,6	96	80	160	---	---	---	160	---	---	165	---
180	**172,87**	6,9	95	72	150	---	---	---	150	---	---	155	---
200	**195,72**	6,1	96	65	145	---	---	---	145	---	---	150	---
224	**223,68**	5,4	94,6	56	130	---	---	---	130	---	---	130	---
250	**253,24**	4,7	96	50	130	---	---	---	125	---	---	130	---
280	**277,1**	4,3	94,4	45	125	---	---	---	125	---	---	125	---
315	**313,72**	3,8	96	41	125	---	---	---	125	---	---	125	---
355	**342,51**	3,5	94,2	37	120	---	---	---	115	---	---	120	---
400	**387,77**	3,1	96	33	115	---	---	---	115	---	---	115	---

30593506/EN – 07/2023

XK210e..,n_1= 1500 1/min					P_{TH}20 °C / KW								96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
7,1	**7,25**	207	84,9	1900	0	530	690	---	0	0	0	0	290
8	**8,21**	183	96	1900	0	530	670	---	0	0	0	0	305
9	**9,19**	163	89,4	1550	0	550	690	---	0	0	0	48	340
10	**10,4**	144	96	1500	0	540	670	---	0	0	0	68	345
11,2	**11,22**	134	81,6	1200	0	560	680	---	0	0	0	98	350
12,5	**12,71**	118	92,4	1200	0	550	660	---	0	0	0	105	350
14	**14,1**	106	94,2	1100	200	700	790	900	0	115	110	255	465
16	**15,96**	94	96	980	205	680	780	880	0	120	120	255	460
18	**18,48**	81	87,7	770	225	660	740	830	64	235	230	260	445
20	**20,92**	72	96	750	205	650	730	810	67	230	230	260	435
22,4	**23,28**	64	96	670	210	640	710	790	78	235	235	260	435
25	**26,36**	57	96	590	210	620	700	770	79	235	230	260	425
28	**29,13**	51	96	540	200	590	650	730	78	225	225	245	405
31,5	**32,97**	45	96	475	200	570	640	710	77	225	220	245	395
35,5	**36,2**	41	96	430	200	530	590	650	150	275	270	230	365
40	**40,99**	37	96	380	200	520	580	640	150	270	270	225	360
45	**44,85**	33	96	350	200	510	570	630	150	270	270	230	355
50	**50,78**	30	96	305	195	500	560	620	150	265	265	225	350
56	**54,79**	27	96	290	200	485	540	590	170	275	275	220	340
63	**62,03**	24	96	255	195	475	530	580	165	270	270	215	330
71	**70,15**	21	94	220	185	440	490	540	165	260	255	205	310
80	**79,42**	19	96	200	180	430	480	530	165	250	250	200	300
90	**90,23**	17	95,3	175	180	---	---	---	185	---	---	195	---
100	**102,16**	15	96	155	180	---	---	---	180	---	---	190	---
112	**112,9**	13	95,5	140	170	---	---	---	170	---	---	180	---
125	**127,82**	12	96	125	165	---	---	---	165	---	---	175	---
140	**139,86**	11	95,1	110	165	---	---	---	165	---	---	175	---
160	**158,34**	9,5	96	100	160	---	---	---	160	---	---	170	---
180	**172,87**	8,7	95	90	150	---	---	---	155	---	---	160	---
200	**195,72**	7,7	96	81	145	---	---	---	150	---	---	160	---
224	**223,68**	6,7	94,6	70	135	---	---	---	135	---	---	135	---
250	**253,24**	5,9	96	63	130	---	---	---	130	---	---	135	---
280	**277,1**	5,4	94,4	57	130	---	---	---	130	---	---	135	---
315	**313,72**	4,8	96	51	130	---	---	---	130	---	---	130	---
355	**342,51**	4,4	94,2	46	120	---	---	---	120	---	---	125	---
400	**387,77**	3,9	96	41	120	---	---	---	120	---	---	120	---
XK210e..,n_1= 1800 1/min													**96 kNm**
7,1	**7,25**	248	84,9	2250	0	420	600	---	0	0	0	0	195
8	**8,21**	219	96	2250	0	425	600	---	0	0	0	0	225
9	**9,19**	196	89,4	1850	0	470	630	---	0	0	0	0	275
10	**10,4**	173	96	1800	0	470	620	---	0	0	0	0	285
11,2	**11,22**	160	81,6	1400	0	510	650	---	0	0	0	0	305
12,5	**12,71**	142	92,4	1400	0	500	630	---	0	0	0	0	310
14	**14,1**	128	94,2	1300	140	730	850	970	0	15	11	205	485
16	**15,96**	113	96	1150	145	720	830	950	0	42	38	210	480
18	**18,48**	97	87,7	930	175	710	810	910	0	170	165	230	475
20	**20,92**	86	96	900	170	690	790	890	0	170	170	230	465
22,4	**23,28**	77	96	800	165	690	780	870	0	180	180	235	465
25	**26,36**	68	96	710	165	670	760	850	0	180	180	235	460
28	**29,13**	62	96	640	165	640	720	800	0	180	175	225	435
31,5	**32,97**	55	96	570	165	620	700	780	0	180	175	225	425
35,5	**36,2**	50	96	520	175	580	650	720	94	270	265	215	400
40	**40,99**	44	96	455	175	570	640	710	95	265	265	210	395
45	**44,85**	40	96	420	180	560	630	700	98	270	265	215	390
50	**50,78**	35	96	370	175	550	610	680	99	265	260	210	380
56	**54,79**	33	96	345	185	530	600	660	135	285	285	215	370
63	**62,03**	29	96	305	180	520	580	640	130	280	280	210	365
71	**70,15**	26	94	265	175	485	540	600	140	270	270	200	340
80	**79,42**	23	96	240	170	475	530	590	135	265	265	195	335
90	**90,23**	20	95,3	210	180	---	---	---	185	---	---	200	---
100	**102,16**	18	96	185	175	---	---	---	180	---	---	195	---
112	**112,9**	16	95,5	165	165	---	---	---	170	---	---	185	---
125	**127,82**	14	96	150	160	---	---	---	165	---	---	180	---
140	**139,86**	13	95,1	135	160	---	---	---	165	---	---	180	---
160	**158,34**	11	96	120	160	---	---	---	160	---	---	175	---
180	**172,87**	10	95	110	150	---	---	---	155	---	---	165	---
200	**195,72**	9,2	96	97	145	---	---	---	150	---	---	165	---
224	**223,68**	8	94,6	84	135	---	---	---	135	---	---	140	---
250	**253,24**	7,1	96	76	135	---	---	---	135	---	---	140	---
280	**277,1**	6,5	94,4	68	135	---	---	---	135	---	---	135	---
315	**313,72**	5,7	96	61	130	---	---	---	130	---	---	135	---
355	**342,51**	5,3	94,2	55	125	---	---	---	125	---	---	130	---
400	**387,77**	4,6	96	49	120	---	---	---	120	---	---	125	---

30593506/EN – 07/2023

XK220e..,n_1= 1000 1/min					P_{TH}20 °C / KW								117 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,4**	156	105,3	1750	225	830	970	---	0	97	92	350	530
7,1	**7,07**	141	113,7	1700	220	800	940	---	0	115	110	350	520
8	**8,11**	123	92,5	1200	260	800	930	---	100	205	200	380	530
9	**8,95**	112	102,1	1200	250	780	900	---	105	205	205	375	520
10	**9,91**	101	107,9	1200	275	750	860	---	155	250	245	365	490
11,2	**10,94**	91	116,6	1150	265	720	830	---	155	245	240	355	480
12,5	**12,56**	80	111,6	960	380	730	810	920	200	270	270	405	500
14	**13,86**	72	114,6	900	370	710	790	900	195	270	265	395	490
16	**16,15**	62	111,6	750	355	680	760	850	270	335	330	390	475
18	**17,82**	56	114,8	700	340	670	740	830	265	325	325	380	465
20	**20,64**	48	114,8	600	345	670	740	830	270	335	330	385	465
22,4	**22,78**	44	114,8	550	340	650	720	810	265	325	325	380	455
25	**25,28**	40	115,8	495	320	600	670	750	250	305	305	350	425
28	**27,9**	36	114,3	445	310	590	650	730	245	300	295	345	415
31,5	**32,02**	31	115,8	390	295	540	600	670	275	320	320	320	380
35,5	**35,34**	28	113,6	350	290	530	580	660	275	320	315	310	375
40	**39,55**	25	117	320	275	500	550	620	255	300	295	295	350
45	**43,65**	23	113,6	280	270	485	540	600	250	290	290	285	345
50	**48,32**	21	117	265	255	455	500	560	245	285	285	270	325
56	**53,33**	19	113,1	230	250	445	490	550	240	275	275	265	315
63	**61,86**	16	117	205	225	405	445	500	225	260	255	240	285
71	**68,27**	15	112,8	180	220	395	435	490	220	250	250	235	280
80	**81,61**	12	114,8	155	235	---	---	---	230	---	---	235	---
90	**90,07**	11	111,8	135	230	---	---	---	225	---	---	230	---
100	**99,97**	10	115,8	125	215	---	---	---	210	---	---	215	---
112	**110,34**	9,1	111,5	110	210	---	---	---	205	---	---	210	---
125	**123,47**	8,1	116,2	105	200	---	---	---	195	---	---	200	---
140	**136,27**	7,3	111,6	90	195	---	---	---	190	---	---	200	---
160	**156,11**	6,4	116,1	82	175	---	---	---	170	---	---	175	---
180	**172,29**	5,8	111,3	71	170	---	---	---	165	---	---	170	---
200	**198,08**	5	115,8	65	165	---	---	---	160	---	---	160	---
224	**218,61**	4,6	110,4	56	160	---	---	---	155	---	---	160	---
250	**244,62**	4,1	115,4	52	155	---	---	---	150	---	---	150	---
280	**269,99**	3,7	110,8	45	150	---	---	---	145	---	---	150	---
315	**309,29**	3,2	115,1	41	135	---	---	---	130	---	---	135	---
355	**341,36**	2,9	110,4	36	130	---	---	---	130	---	---	130	---
XK220e..,n_1= 1200 1/min													117 kNm
6,3	**6,4**	188	105,3	2100	0	840	1000	---	0	0	0	215	500
7,1	**7,07**	170	113,7	2050	0	820	980	---	0	0	0	225	500
8	**8,11**	148	92,5	1450	89	830	980	---	0	76	71	270	540
9	**8,95**	134	102,1	1450	90	800	950	---	0	93	88	270	530
10	**9,91**	121	107,9	1400	150	790	920	---	0	165	165	275	510
11,2	**10,94**	110	116,6	1400	150	760	890	---	0	170	165	275	500
12,5	**12,56**	96	111,6	1150	350	810	910	1050	68	220	220	390	550
14	**13,86**	87	114,6	1100	340	790	880	1000	74	220	220	385	540
16	**16,15**	74	111,6	900	345	760	850	960	185	315	315	380	530
18	**17,82**	67	114,8	840	325	740	830	940	185	310	310	375	520
20	**20,64**	58	114,8	720	330	750	830	940	195	320	320	385	520
22,4	**22,78**	53	114,8	660	320	730	810	910	195	315	315	375	510
25	**25,28**	47	115,8	600	305	680	760	850	185	295	295	350	475
28	**27,9**	43	114,3	530	300	660	740	830	180	290	290	340	465
31,5	**32,02**	37	115,8	470	290	610	680	760	255	350	345	320	430
35,5	**35,34**	34	113,6	420	285	600	660	740	250	340	340	315	420
40	**39,55**	30	117	385	270	570	630	700	235	320	320	295	395
45	**43,65**	27	113,6	340	265	550	610	690	230	315	315	290	385
50	**48,32**	25	117	320	255	520	570	640	240	315	310	275	365
56	**53,33**	23	113,1	280	250	500	560	630	235	305	305	270	355
63	**61,86**	19	117	250	225	460	510	570	225	290	285	245	325
71	**68,27**	18	112,8	215	220	450	495	560	220	280	280	240	315
80	**81,61**	15	114,8	185	240	---	---	---	230	---	---	245	---
90	**90,07**	13	111,8	165	235	---	---	---	225	---	---	240	---
100	**99,97**	12	115,8	150	220	---	---	---	215	---	---	225	---
112	**110,34**	11	111,5	135	215	---	---	---	210	---	---	220	---
125	**123,47**	9,7	116,2	125	205	---	---	---	200	---	---	210	---
140	**136,27**	8,8	111,6	110	200	---	---	---	195	---	---	205	---
160	**156,11**	7,7	116,1	98	180	---	---	---	170	---	---	180	---
180	**172,29**	7	111,3	85	175	---	---	---	170	---	---	175	---
200	**198,08**	6,1	115,8	78	170	---	---	---	165	---	---	170	---
224	**218,61**	5,5	110,4	67	170	---	---	---	160	---	---	165	---
250	**244,62**	4,9	115,4	63	160	---	---	---	155	---	---	160	---
280	**269,99**	4,4	110,8	55	155	---	---	---	150	---	---	155	---
315	**309,29**	3,9	115,1	49	140	---	---	---	135	---	---	140	---
355	**341,36**	3,5	110,4	43	140	---	---	---	135	---	---	135	---

30593506/EN – 07/2023

XK220e..,n_1= 1500 1/min					P_{TH}20 °C / KW								117 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,4**	234	105,3	2650	0	780	1000	---	0	0	0	0	385
7,1	**7,07**	212	113,7	2600	0	760	970	---	0	0	0	0	400
8	**8,11**	185	92,5	1850	0	800	980	---	0	0	0	47	485
9	**8,95**	168	102,1	1850	0	770	950	---	0	0	0	68	485
10	**9,91**	151	107,9	1750	0	780	940	---	0	0	0	120	485
11,2	**10,94**	137	116,6	1750	0	760	910	---	0	0	0	130	480
12,5	**12,56**	119	111,6	1450	280	890	1000	1150	0	135	135	345	610
14	**13,86**	108	114,6	1350	275	870	990	1150	0	145	140	345	600
16	**16,15**	93	111,6	1100	300	850	960	1100	0	255	255	355	590
18	**17,82**	84	114,8	1050	295	830	940	1050	12	255	250	350	580
20	**20,64**	73	114,8	900	290	850	950	1050	30	270	265	365	590
22,4	**22,78**	66	114,8	820	285	820	920	1050	32	265	265	360	580
25	**25,28**	59	115,8	740	270	770	860	970	47	255	250	335	540
28	**27,9**	54	114,3	670	265	750	840	950	47	250	250	330	530
31,5	**32,02**	47	115,8	590	275	700	780	880	200	365	360	310	490
35,5	**35,34**	42	113,6	520	270	680	760	860	195	355	355	305	480
40	**39,55**	38	117	480	255	640	710	810	185	335	330	290	450
45	**43,65**	34	113,6	425	250	630	700	790	185	330	325	285	440
50	**48,32**	31	117	395	240	590	660	740	210	340	340	270	415
56	**53,33**	28	113,1	350	235	580	640	720	205	335	330	270	410
63	**61,86**	24	117	310	220	520	580	650	210	320	320	245	370
71	**68,27**	22	112,8	270	215	510	570	640	205	315	310	240	365
80	**81,61**	18	114,8	230	245	---	---	---	230	---	---	255	---
90	**90,07**	17	111,8	205	240	---	---	---	225	---	---	250	---
100	**99,97**	15	115,8	190	225	---	---	---	215	---	---	235	---
112	**110,34**	14	111,5	165	220	---	---	---	210	---	---	230	---
125	**123,47**	12	116,2	155	210	---	---	---	200	---	---	220	---
140	**136,27**	11	111,6	135	205	---	---	---	195	---	---	215	---
160	**156,11**	9,6	116,1	120	180	---	---	---	170	---	---	190	---
180	**172,29**	8,7	111,3	105	180	---	---	---	170	---	---	185	---
200	**198,08**	7,6	115,8	97	180	---	---	---	170	---	---	175	---
224	**218,61**	6,9	110,4	84	175	---	---	---	165	---	---	175	---
250	**244,62**	6,1	115,4	78	165	---	---	---	160	---	---	165	---
280	**269,99**	5,6	110,8	68	165	---	---	---	155	---	---	165	---
315	**309,29**	4,8	115,1	62	145	---	---	---	140	---	---	145	---
355	**341,36**	4,4	110,4	54	145	---	---	---	135	---	---	145	---
XK220e..,n_1= 1800 1/min													**117 kNm**
6,3	**6,4**	281	105,3	3150	0	610	870	---	0	0	0	0	190
7,1	**7,07**	255	113,7	3100	0	610	860	---	0	0	0	0	240
8	**8,11**	222	92,5	2200	0	690	920	---	0	0	0	0	360
9	**8,95**	201	102,1	2200	0	680	890	---	0	0	0	0	365
10	**9,91**	182	107,9	2100	0	710	900	---	0	0	0	0	410
11,2	**10,94**	165	116,6	2100	0	700	880	---	0	0	0	0	410
12,5	**12,56**	143	111,6	1750	195	940	1100	1250	0	100	95	285	630
14	**13,86**	130	114,6	1600	200	930	1050	1200	0	115	110	285	630
16	**16,15**	111	111,6	1350	235	920	1050	1200	0	180	175	315	630
18	**17,82**	101	114,8	1250	230	900	1000	1150	0	180	175	315	620
20	**20,64**	87	114,8	1100	245	910	1050	1150	0	200	195	330	640
22,4	**22,78**	79	114,8	980	225	890	1000	1150	0	200	195	325	620
25	**25,28**	71	115,8	890	215	840	940	1050	0	195	190	310	580
28	**27,9**	65	114,3	800	215	820	920	1050	0	195	190	305	570
31,5	**32,02**	56	115,8	710	240	770	860	970	120	350	350	295	530
35,5	**35,34**	51	113,6	630	235	750	840	940	120	345	345	290	520
40	**39,55**	46	117	580	225	710	790	890	115	325	325	275	495
45	**43,65**	41	113,6	510	225	690	770	870	115	320	320	270	485
50	**48,32**	37	117	475	220	650	730	820	165	350	350	260	460
56	**53,33**	34	113,1	420	215	640	710	800	160	345	345	255	450
63	**61,86**	29	117	375	200	580	640	730	180	340	340	235	410
71	**68,27**	26	112,8	325	200	570	630	710	180	335	330	235	400
80	**81,61**	22	114,8	280	240	---	---	---	220	---	---	260	---
90	**90,07**	20	111,8	245	240	---	---	---	220	---	---	255	---
100	**99,97**	18	115,8	230	225	---	---	---	205	---	---	240	---
112	**110,34**	16	111,5	200	220	---	---	---	200	---	---	235	---
125	**123,47**	15	116,2	185	210	---	---	---	190	---	---	220	---
140	**136,27**	13	111,6	160	205	---	---	---	185	---	---	215	---
160	**156,11**	12	116,1	145	180	---	---	---	165	---	---	190	---
180	**172,29**	10	111,3	130	175	---	---	---	165	---	---	185	---
200	**198,08**	9,1	115,8	115	185	---	---	---	170	---	---	185	---
224	**218,61**	8,2	110,4	100	180	---	---	---	170	---	---	180	---
250	**244,62**	7,4	115,4	94	170	---	---	---	160	---	---	170	---
280	**269,99**	6,7	110,8	82	170	---	---	---	160	---	---	170	---
315	**309,29**	5,8	115,1	74	150	---	---	---	145	---	---	150	---
355	**341,36**	5,3	110,4	65	150	---	---	---	140	---	---	150	---

30593506/EN – 07/2023

XK230e..,n_1= 1000 1/min					P_{TH}20 °C / KW								134 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
7,1	**7,25**	138	120,1	1750	235	850	1000	---	0	110	105	360	540
8	**7,96**	126	129,2	1750	235	830	970	---	0	130	125	365	540
9	**9,19**	109	104,8	1200	275	820	950	---	115	220	215	395	550
10	**10,09**	99	115,1	1200	265	800	930	---	120	225	220	390	540
11,2	**11,22**	89	123	1200	285	770	880	---	165	260	260	375	500
12,5	**12,32**	81	134	1200	280	750	860	---	165	260	260	370	500
14	**14,22**	70	125,2	950	385	740	830	920	210	285	280	415	510
16	**15,61**	64	132,9	920	375	730	810	900	205	280	275	405	500
18	**18,29**	55	125,2	740	355	700	770	850	280	345	340	395	480
20	**20,08**	50	132,9	720	350	680	760	840	275	340	335	390	475
22,4	**23,37**	43	128,9	600	355	680	750	830	280	345	340	395	475
25	**25,66**	39	133,2	560	345	660	740	810	275	335	335	385	465
28	**28,63**	35	129,9	490	325	620	680	750	255	315	310	360	435
31,5	**31,43**	32	132,7	460	320	600	670	740	255	310	305	355	425
35,5	**36,26**	28	129,9	390	300	550	610	670	285	330	330	325	390
40	**39,82**	25	131,9	360	295	540	600	660	280	325	325	320	380
45	**44,78**	22	132,2	320	280	510	560	620	260	305	305	300	355
50	**49,17**	20	131,9	290	275	500	550	610	260	300	300	295	350
56	**54,71**	18	132,2	265	260	465	510	560	255	290	290	275	330
63	**60,08**	17	131,3	240	255	455	500	550	250	285	285	270	325
71	**70,05**	14	132,2	205	230	410	455	500	230	265	260	245	290
80	**76,91**	13	130,8	185	225	405	445	490	225	260	260	240	285
90	**92,41**	11	128,9	155	240	---	---	---	230	---	---	240	---
100	**101,47**	9,9	129,6	140	235	---	---	---	230	---	---	235	---
112	**113,21**	8,8	129,9	125	220	---	---	---	215	---	---	220	---
125	**124,31**	8	129	115	215	---	---	---	210	---	---	215	---
140	**139,81**	7,2	132,2	105	205	---	---	---	200	---	---	205	---
160	**153,52**	6,5	129,3	92	200	---	---	---	195	---	---	200	---
180	**176,77**	5,7	132,2	82	175	---	---	---	170	---	---	175	---
200	**194,1**	5,2	129	73	175	---	---	---	170	---	---	175	---
224	**224,29**	4,5	129,9	64	170	---	---	---	165	---	---	165	---
250	**246,28**	4,1	127,9	58	165	---	---	---	160	---	---	165	---
280	**277**	3,6	132,2	53	155	---	---	---	150	---	---	155	---
315	**304,16**	3,3	128,2	47	155	---	---	---	150	---	---	150	---
355	**350,23**	2,9	132,2	42	135	---	---	---	135	---	---	135	---
400	**384,57**	2,6	127,9	37	135	---	---	---	130	---	---	135	---
XK230e..,n_1= 1200 1/min													134 kNm
7,1	**7,25**	166	120,1	2150	16	870	1050	---	0	0	0	225	510
8	**7,96**	151	129,2	2100	25	850	1000	---	0	0	0	230	520
9	**9,19**	131	104,8	1450	105	850	1000	---	0	93	88	280	560
10	**10,09**	119	115,1	1450	105	830	980	---	0	110	105	285	550
11,2	**11,22**	107	123	1400	165	810	940	---	0	180	175	290	530
12,5	**12,32**	97	134	1400	160	790	920	---	0	185	180	285	520
14	**14,22**	84	125,2	1150	355	820	920	1050	81	235	230	395	560
16	**15,61**	77	132,9	1100	350	810	910	1000	87	235	230	390	550
18	**18,29**	66	125,2	890	335	780	870	960	195	330	325	390	540
20	**20,08**	60	132,9	860	330	760	850	940	195	325	320	385	530
22,4	**23,37**	51	128,9	720	335	760	850	940	205	335	330	390	530
25	**25,66**	47	133,2	680	330	750	830	920	200	330	325	385	520
28	**28,63**	42	129,9	590	310	690	770	850	190	305	305	355	485
31,5	**31,43**	38	132,7	550	305	680	750	830	190	300	300	350	480
35,5	**36,26**	33	129,9	465	300	620	690	760	260	355	355	325	440
40	**39,82**	30	131,9	430	295	610	680	750	260	350	350	320	430
45	**44,78**	27	132,2	385	275	580	640	700	240	330	330	300	405
50	**49,17**	24	131,9	350	270	560	620	690	240	325	325	300	395
56	**54,71**	22	132,2	315	260	530	580	640	245	320	320	280	370
63	**60,08**	20	131,3	285	255	520	570	630	240	315	315	275	365
71	**70,05**	17	132,2	250	230	465	520	570	230	295	295	250	330
80	**76,91**	16	130,8	225	230	460	510	560	225	290	290	245	325
90	**92,41**	13	128,9	185	245	---	---	---	235	---	---	250	---
100	**101,47**	12	129,6	170	240	---	---	---	235	---	---	245	---
112	**113,21**	11	129,9	150	225	---	---	---	220	---	---	230	---
125	**124,31**	9,7	129	135	220	---	---	---	215	---	---	225	---
140	**139,81**	8,6	132,2	125	210	---	---	---	205	---	---	215	---
160	**153,52**	7,8	129,3	110	205	---	---	---	200	---	---	210	---
180	**176,77**	6,8	132,2	98	180	---	---	---	175	---	---	185	---
200	**194,1**	6,2	129	87	180	---	---	---	170	---	---	180	---
224	**224,29**	5,4	129,9	77	175	---	---	---	170	---	---	170	---
250	**246,28**	4,9	127,9	69	170	---	---	---	165	---	---	170	---
280	**277**	4,3	132,2	63	165	---	---	---	160	---	---	160	---
315	**304,16**	3,9	128,2	56	160	---	---	---	155	---	---	160	---
355	**350,23**	3,4	132,2	50	145	---	---	---	140	---	---	140	---
400	**384,57**	3,1	127,9	44	140	---	---	---	135	---	---	140	---

30593506/EN – 07/2023

XK230e..,n_1= 1500 1/min					P_{TH}20 °C / KW								134 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
7,1	**7,25**	207	120,1	2650	0	810	1050	---	0	0	0	0	395
8	**7,96**	188	129,2	2600	0	790	1000	---	0	0	0	0	410
9	**9,19**	163	104,8	1850	0	830	1000	---	0	0	0	59	500
10	**10,09**	149	115,1	1850	0	810	990	---	0	0	0	80	510
11,2	**11,22**	134	123	1800	0	810	970	---	0	0	0	130	500
12,5	**12,32**	122	134	1750	0	790	940	---	0	0	0	140	500
14	**14,22**	105	125,2	1450	285	910	1050	1150	0	155	150	355	620
16	**15,61**	96	132,9	1400	285	890	1000	1150	0	160	155	355	610
18	**18,29**	82	125,2	1100	305	870	980	1100	22	270	265	365	600
20	**20,08**	75	132,9	1100	280	850	960	1050	26	270	265	360	590
22,4	**23,37**	64	128,9	900	295	860	960	1050	48	280	280	375	600
25	**25,66**	58	133,2	840	295	850	940	1050	49	280	275	370	590
28	**28,63**	52	129,9	740	280	790	880	970	58	265	265	340	550
31,5	**31,43**	48	132,7	690	275	770	860	950	58	265	260	340	540
35,5	**36,26**	41	129,9	580	280	710	790	880	205	375	370	320	500
40	**39,82**	38	131,9	540	275	700	780	860	205	370	365	315	490
45	**44,78**	33	132,2	480	260	650	730	810	195	345	340	295	460
50	**49,17**	31	131,9	435	255	650	720	790	190	340	335	295	455
56	**54,71**	27	132,2	395	245	600	670	740	215	350	345	280	425
63	**60,08**	25	131,3	360	245	590	660	730	210	345	340	275	420
71	**70,05**	21	132,2	310	225	530	590	650	215	330	325	250	380
80	**76,91**	20	130,8	280	220	530	580	640	210	320	320	250	375
90	**92,41**	16	128,9	230	250	---	---	---	235	---	---	260	---
100	**101,47**	15	129,6	210	245	---	---	---	235	---	---	255	---
112	**113,21**	13	129,9	190	230	---	---	---	220	---	---	240	---
125	**124,31**	12	129	170	225	---	---	---	215	---	---	235	---
140	**139,81**	11	132,2	155	215	---	---	---	205	---	---	220	---
160	**153,52**	9,8	129,3	140	210	---	---	---	200	---	---	220	---
180	**176,77**	8,5	132,2	125	185	---	---	---	175	---	---	190	---
200	**194,1**	7,7	129	110	185	---	---	---	170	---	---	190	---
224	**224,29**	6,7	129,9	96	180	---	---	---	175	---	---	180	---
250	**246,28**	6,1	127,9	86	180	---	---	---	170	---	---	180	---
280	**277**	5,4	132,2	79	170	---	---	---	160	---	---	170	---
315	**304,16**	4,9	128,2	70	165	---	---	---	160	---	---	165	---
355	**350,23**	4,3	132,2	63	150	---	---	---	145	---	---	150	---
400	**384,57**	3,9	127,9	55	150	---	---	---	140	---	---	145	---
XK230e..,n_1= 1800 1/min													134 kNm
7,1	**7,25**	248	120,1	3200	0	640	910	---	0	0	0	0	190
8	**7,96**	226	129,2	3150	0	650	900	---	0	0	0	0	250
9	**9,19**	196	104,8	2200	0	730	960	---	0	0	0	0	370
10	**10,09**	178	115,1	2200	0	720	940	---	0	0	0	0	395
11,2	**11,22**	160	123	2150	0	750	930	---	0	0	0	0	425
12,5	**12,32**	146	134	2100	0	730	910	---	0	0	0	0	430
14	**14,22**	127	125,2	1700	200	960	1100	1250	0	120	115	295	650
16	**15,61**	115	132,9	1650	210	950	1100	1250	0	135	130	295	640
18	**18,29**	98	125,2	1350	240	940	1050	1200	0	195	190	325	640
20	**20,08**	90	132,9	1300	235	920	1050	1150	0	195	190	325	640
22,4	**23,37**	77	128,9	1100	235	930	1050	1150	0	215	215	340	650
25	**25,66**	70	133,2	1000	235	920	1050	1150	0	215	215	335	640
28	**28,63**	63	129,9	890	225	860	960	1050	0	210	205	315	600
31,5	**31,43**	57	132,7	820	225	840	940	1050	0	210	205	315	590
35,5	**36,26**	50	129,9	700	250	780	870	970	130	365	360	305	550
40	**39,82**	45	131,9	650	245	770	860	950	130	360	360	300	540
45	**44,78**	40	132,2	580	235	720	800	890	125	340	335	280	500
50	**49,17**	37	131,9	520	230	710	790	880	125	335	330	280	495
56	**54,71**	33	132,2	475	225	660	740	820	170	360	360	265	470
63	**60,08**	30	131,3	430	225	650	730	800	170	355	355	265	460
71	**70,05**	26	132,2	370	210	590	660	730	190	350	350	245	420
80	**76,91**	23	130,8	335	205	580	650	710	185	345	340	240	410
90	**92,41**	19	128,9	275	245	---	---	---	225	---	---	265	---
100	**101,47**	18	129,6	250	245	---	---	---	225	---	---	260	---
112	**113,21**	16	129,9	225	230	---	---	---	210	---	---	245	---
125	**124,31**	14	129	205	225	---	---	---	210	---	---	240	---
140	**139,81**	13	132,2	185	210	---	---	---	195	---	---	225	---
160	**153,52**	12	129,3	165	210	---	---	---	195	---	---	220	---
180	**176,77**	10	132,2	150	185	---	---	---	170	---	---	195	---
200	**194,1**	9,3	129	130	180	---	---	---	165	---	---	190	---
224	**224,29**	8	129,9	115	185	---	---	---	175	---	---	185	---
250	**246,28**	7,3	127,9	105	185	---	---	---	175	---	---	185	---
280	**277**	6,5	132,2	95	175	---	---	---	165	---	---	175	---
315	**304,16**	5,9	128,2	84	170	---	---	---	160	---	---	170	---
355	**350,23**	5,1	132,2	75	155	---	---	---	145	---	---	155	---
400	**384,57**	4,7	127,9	66	150	---	---	---	145	---	---	150	---

30593506/EN – 07/2023

XK240e..,n_1= 1000 1/min					P_{TH}20 °C / KW								165 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
6,3	**6,38**	157	140,4	2350	0	790	1000	---	0	---	0	190	---
7,1	**7,34**	136	161,5	2350	0	750	940	---	0	---	0	205	---
8	**8,09**	124	133,4	1750	74	800	970	---	0	---	0	245	---
9	**9,31**	107	153,5	1750	78	750	910	---	0	---	0	240	---
10	**9,82**	102	140,8	1550	150	770	910	---	0	---	74	255	---
11,2	**11,31**	88	162,1	1550	145	730	860	---	0	---	83	250	---
12,5	**11,92**	84	145,5	1300	410	840	950	1000	82	180	175	445	560
14	**13,71**	73	163,9	1300	390	800	910	980	89	175	175	430	540
16	**15,32**	65	157,7	1100	395	800	890	960	235	315	310	435	540
18	**17,64**	57	163	1000	365	760	860	920	225	305	300	420	520
20	**20,36**	49	165	880	370	770	860	920	240	320	315	430	530
22,4	**23,44**	43	162,7	750	360	740	820	880	235	310	305	415	510
25	**25,64**	39	165	700	335	690	770	820	220	290	285	385	475
28	**29,51**	34	162,7	600	325	660	730	780	215	280	275	370	455
31,5	**32,47**	31	165	550	320	630	700	740	280	335	335	355	435
35,5	**37,38**	27	161,7	470	310	600	670	720	270	325	320	345	420
40	**39,96**	25	165	450	310	600	670	720	270	325	325	345	420
45	**46**	22	160,7	380	300	580	640	680	260	310	310	330	405
50	**48,83**	20	164,6	370	290	560	620	660	270	325	320	325	390
56	**56,2**	18	160	310	280	530	590	630	265	310	310	310	375
63	**62,51**	16	163,6	285	265	495	550	590	260	305	305	290	350
71	**71,95**	14	159,3	240	255	475	530	560	250	290	290	280	335
80	**82,39**	12	164	220	270	450	495	---	265	---	290	285	---
90	**94,83**	11	157,4	180	260	435	480	---	255	---	280	270	---
100	**103,71**	9,6	163	170	250	410	450	---	240	---	265	255	---
112	**119,37**	8,4	157,7	145	240	395	435	---	230	---	255	250	---
125	**127,64**	7,8	162	140	240	395	435	---	235	---	255	250	---
140	**146,91**	6,8	158	120	230	380	420	---	225	---	245	240	---
160	**153,55**	6,5	161,7	115	220	360	400	---	215	---	235	230	---
180	**176,74**	5,7	157,4	98	210	345	385	---	205	---	225	220	---
200	**205,47**	4,9	161,6	87	195	310	345	---	185	---	205	195	---
224	**236,5**	4,2	156	73	185	300	330	---	180	---	195	185	---
250	**252,89**	4	161	71	185	300	330	---	180	---	195	185	---
280	**291,08**	3,4	156,7	60	180	290	320	---	175	---	190	180	---
315	**304,22**	3,3	160,7	59	175	280	305	---	165	---	180	175	---
355	**350,17**	2,9	156,4	49	165	270	295	---	160	---	175	170	---
XK240e..,n_1= 1200 1/min													**165 kNm**
6,3	**6,38**	188	140,4	2850	0	710	950	---	0	---	0	0	---
7,1	**7,34**	163	161,5	2850	0	670	900	---	0	---	0	0	---
8	**8,09**	148	133,4	2100	0	760	970	---	0	---	0	22	---
9	**9,31**	129	153,5	2100	0	710	910	---	0	---	0	50	---
10	**9,82**	122	140,8	1850	0	770	940	---	0	---	0	105	---
11,2	**11,31**	106	162,1	1850	0	730	890	---	0	---	0	115	---
12,5	**11,92**	101	145,5	1600	350	920	1050	1150	0	65	60	405	610
14	**13,71**	88	163,9	1550	335	880	1000	1100	0	76	72	395	590
16	**15,32**	78	157,7	1350	360	880	990	1050	97	265	260	410	590
18	**17,64**	68	163	1200	335	850	950	1050	100	260	260	395	570
20	**20,36**	59	165	1050	335	860	960	1050	115	280	275	410	590
22,4	**23,44**	51	162,7	900	325	820	920	990	115	275	270	400	560
25	**25,64**	47	165	840	305	770	860	920	115	260	255	370	530
28	**29,51**	41	162,7	720	295	730	820	880	110	250	250	360	510
31,5	**32,47**	37	165	660	300	710	790	840	225	345	340	350	485
35,5	**37,38**	32	161,7	560	290	680	750	810	220	335	330	335	470
40	**39,96**	30	165	540	295	680	750	800	220	335	330	340	470
45	**46**	26	160,7	455	280	650	720	770	215	320	320	325	455
50	**48,83**	25	164,6	445	280	630	690	740	240	345	340	315	440
56	**56,2**	21	160	375	270	600	670	710	235	330	330	305	420
63	**62,51**	19	163,6	345	255	560	620	660	245	335	330	290	395
71	**71,95**	17	159,3	290	245	540	600	640	235	320	315	280	380
80	**82,39**	15	164	260	275	510	560	---	265	---	310	295	---
90	**94,83**	13	157,4	220	265	490	540	---	255	---	300	280	---
100	**103,71**	12	163	205	250	465	510	---	240	---	285	265	---
112	**119,37**	10	157,7	175	240	445	495	---	235	---	275	255	---
125	**127,64**	9,4	162	165	245	450	495	---	235	---	275	255	---
140	**146,91**	8,2	158	140	235	430	475	---	225	---	265	245	---
160	**153,55**	7,8	161,7	140	220	410	450	---	215	---	250	235	---
180	**176,74**	6,8	157,4	115	215	395	435	---	205	---	240	225	---
200	**205,47**	5,8	161,6	105	200	355	390	---	190	---	220	200	---
224	**236,5**	5,1	156	88	190	345	380	---	185	---	215	195	---
250	**252,89**	4,7	161	85	195	345	380	---	185	---	215	195	---
280	**291,08**	4,1	156,7	72	185	330	365	---	180	---	205	190	---
315	**304,22**	3,9	160,7	70	180	315	350	---	170	---	200	180	---
355	**350,17**	3,4	156,4	59	170	305	340	---	165	---	190	175	---

30593506/EN – 07/2023

XK240e..,n_1= 1500 1/min					P_{TH}20 °C / KW								165 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
6,3	**6,38**	235	140,4	3550	0	435	720	---	0	---	0	0	---
7,1	**7,34**	204	161,5	3550	0	450	710	---	0	---	0	0	---
8	**8,09**	185	133,4	2650	0	580	840	---	0	---	0	0	---
9	**9,31**	161	153,5	2650	0	550	800	---	0	---	0	0	---
10	**9,82**	153	140,8	2350	0	650	880	---	0	---	0	0	---
11,2	**11,31**	133	162,1	2350	0	620	840	---	0	---	0	0	---
12,5	**11,92**	126	145,5	2000	220	1000	1150	1250	0	0	0	320	650
14	**13,71**	109	163,9	1950	225	950	1100	1200	0	0	0	315	630
16	**15,32**	98	157,7	1650	265	970	1100	1200	0	155	150	350	650
18	**17,64**	85	163	1500	255	930	1050	1150	0	155	155	345	620
20	**20,36**	74	165	1300	255	950	1100	1150	0	180	175	370	650
22,4	**23,44**	64	162,7	1150	250	910	1050	1100	0	175	175	360	620
25	**25,64**	59	165	1050	235	850	960	1050	0	175	175	335	580
28	**29,51**	51	162,7	900	235	820	920	1000	0	175	170	325	560
31,5	**32,47**	46	165	830	255	800	890	960	115	325	320	320	540
35,5	**37,38**	40	161,7	700	250	770	850	920	110	315	310	310	520
40	**39,96**	38	165	670	250	760	850	920	115	315	315	315	530
45	**46**	33	160,7	570	245	730	820	880	115	305	305	305	510
50	**48,83**	31	164,6	550	245	710	790	850	175	350	350	300	490
56	**56,2**	27	160	465	235	680	760	810	170	340	335	290	475
63	**62,51**	24	163,6	430	230	640	710	760	205	355	355	275	445
71	**71,95**	21	159,3	365	225	610	680	730	195	340	340	265	425
80	**82,39**	18	164	325	270	580	650	---	255	---	350	305	---
90	**94,83**	16	157,4	275	260	560	620	---	245	---	335	290	---
100	**103,71**	14	163	260	250	530	590	---	235	---	320	275	---
112	**119,37**	13	157,7	215	235	510	570	---	225	---	305	265	---
125	**127,64**	12	162	210	240	510	570	---	225	---	305	265	---
140	**146,91**	10	158	175	230	495	550	---	215	---	295	255	---
160	**153,55**	9,8	161,7	175	220	470	520	---	210	---	280	245	---
180	**176,74**	8,5	157,4	145	210	450	500	---	200	---	270	235	---
200	**205,47**	7,3	161,6	130	205	410	455	---	190	---	250	210	---
224	**236,5**	6,3	156	110	195	395	440	---	185	---	245	205	---
250	**252,89**	5,9	161	105	195	400	440	---	185	---	245	205	---
280	**291,08**	5,2	156,7	89	190	385	425	---	180	---	235	195	---
315	**304,22**	4,9	160,7	88	180	370	405	---	175	---	225	190	---
355	**350,17**	4,3	156,4	74	175	355	390	---	165	---	220	180	---
XK240e..,n_1= 1800 1/min													165 kNm
6,3	**6,38**	282	140,4	4250	0	0	370	---	0	---	0	0	---
7,1	**7,34**	245	161,5	4250	0	70	410	---	0	---	0	0	---
8	**8,09**	222	133,4	3200	0	305	570	---	0	---	0	0	---
9	**9,31**	193	153,5	3200	0	330	580	---	0	---	0	0	---
10	**9,82**	183	140,8	2800	0	425	700	---	0	---	0	0	---
11,2	**11,31**	159	162,1	2800	0	415	670	---	0	---	0	0	---
12,5	**11,92**	151	145,5	2400	0	1050	1200	1300	0	0	0	205	650
14	**13,71**	131	163,9	2350	26	990	1150	1250	0	0	0	210	630
16	**15,32**	117	157,7	2000	150	1000	1150	1300	0	43	38	265	670
18	**17,64**	102	163	1800	155	980	1150	1250	0	63	57	265	650
20	**20,36**	88	165	1600	175	1000	1150	1250	0	110	105	295	680
22,4	**23,44**	77	162,7	1350	155	970	1100	1200	0	115	115	295	650
25	**25,64**	70	165	1250	155	910	1050	1150	0	125	120	280	610
28	**29,51**	61	162,7	1100	155	870	1000	1100	0	125	120	275	590
31,5	**32,47**	55	165	990	195	860	970	1050	0	275	270	280	580
35,5	**37,38**	48	161,7	840	190	830	930	1000	0	265	265	275	560
40	**39,96**	45	165	810	195	830	930	1000	0	270	270	275	560
45	**46**	39	160,7	680	190	790	890	960	0	265	260	270	540
50	**48,83**	37	164,6	660	195	770	860	930	81	335	330	265	530
56	**56,2**	32	160	560	195	740	830	890	79	325	320	260	510
63	**62,51**	29	163,6	520	190	700	780	830	140	355	355	250	480
71	**71,95**	25	159,3	435	185	670	750	800	135	345	340	245	460
80	**82,39**	22	164	395	250	640	710	---	230	---	370	305	---
90	**94,83**	19	157,4	330	245	620	690	---	225	---	360	295	---
100	**103,71**	17	163	310	230	590	650	---	210	---	340	280	---
112	**119,37**	15	157,7	260	225	560	630	---	205	---	325	270	---
125	**127,64**	14	162	250	225	570	630	---	205	---	325	270	---
140	**146,91**	12	158	210	220	540	600	---	200	---	315	260	---
160	**153,55**	12	161,7	210	210	520	570	---	195	---	300	250	---
180	**176,74**	10	157,4	175	200	495	550	---	185	---	290	240	---
200	**205,47**	8,8	161,6	155	205	460	510	---	190	---	275	215	---
224	**236,5**	7,6	156	130	195	445	490	---	185	---	265	210	---
250	**252,89**	7,1	161	125	200	445	490	---	185	---	270	210	---
280	**291,08**	6,2	156,7	105	190	430	475	---	175	---	260	200	---
315	**304,22**	5,9	160,7	105	185	410	455	---	170	---	250	195	---
355	**350,17**	5,1	156,4	89	175	395	440	---	165	---	240	185	---

30593506/EN – 07/2023

XK250e..,n_1= 1000 1/min				P_{TH}20 °C / KW									185 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
7,1	**6,86**	146	151	2350	0	800	1000	---	0	---	0	195	---
8	**7,88**	127	173,3	2350	0	750	940	---	0	---	0	205	---
9	**8,69**	115	143,3	1750	85	800	970	---	0	---	0	255	---
10	**9,99**	100	164,7	1750	87	750	910	---	0	---	0	250	---
11,2	**10,56**	95	151,4	1550	155	780	910	---	0	---	85	265	---
12,5	**12,13**	82	173,8	1550	150	730	860	---	0	---	92	255	---
14	**12,8**	78	156,3	1300	405	840	950	1000	88	185	180	445	560
16	**14,71**	68	180,3	1350	385	800	900	960	89	180	175	425	540
18	**16,47**	61	169,5	1100	385	790	890	950	235	315	315	430	540
20	**18,92**	53	182,1	1050	360	760	850	910	230	305	300	415	520
22,4	**21,88**	46	183,4	910	370	770	860	910	240	320	315	425	530
25	**25,14**	40	182,1	790	355	740	820	870	235	305	305	410	510
28	**27,55**	36	185	730	335	690	770	810	220	290	285	385	475
31,5	**31,64**	32	182,1	620	320	660	730	780	215	280	275	370	455
35,5	**34,89**	29	185	570	320	630	700	740	275	335	335	355	435
40	**40,08**	25	181	490	310	600	670	710	270	325	320	345	420
45	**42,95**	23	185	465	310	600	670	710	270	325	320	345	420
50	**49,33**	20	181	400	295	570	640	680	260	310	310	330	405
56	**52,47**	19	185	385	290	550	610	650	270	320	320	320	390
63	**60,27**	17	179,9	325	280	530	590	620	260	310	310	310	375
71	**67,18**	15	182,9	300	265	495	550	580	260	305	305	290	350
80	**77,17**	13	179,2	255	255	475	530	560	250	290	290	280	335
90	**88,53**	11	181,4	225	270	450	495	---	265	---	290	280	---
100	**101,7**	9,8	176,5	190	260	435	480	---	255	---	280	270	---
112	**111,45**	9	181,8	180	250	410	450	---	240	---	265	255	---
125	**128,02**	7,8	176,5	150	240	390	435	---	230	---	255	245	---
140	**137,16**	7,3	181,8	145	240	395	435	---	230	---	255	250	---
160	**157,56**	6,3	176,9	125	230	380	415	---	225	---	245	240	---
180	**165,01**	6,1	181,4	120	220	360	395	---	215	---	235	225	---
200	**189,54**	5,3	176,2	100	210	345	380	---	205	---	225	220	---
224	**220,81**	4,5	179,9	90	195	310	340	---	185	---	205	195	---
250	**253,64**	3,9	175	76	185	300	330	---	180	---	195	185	---
280	**271,76**	3,7	180,2	73	185	300	330	---	180	---	195	185	---
315	**312,17**	3,2	175,4	62	180	290	320	---	175	---	190	180	---
355	**326,93**	3,1	179,9	61	175	280	305	---	165	---	180	175	---
400	**375,54**	2,7	175,1	52	165	270	295	---	160	---	175	165	---
XK250e..,n_1= 1200 1/min													**185 kNm**
7,1	**6,86**	175	151	2850	0	710	950	---	0	---	0	0	---
8	**7,88**	152	173,3	2850	0	680	900	---	0	---	0	0	---
9	**8,69**	138	143,3	2100	0	760	970	---	0	---	0	46	---
10	**9,99**	120	164,7	2100	0	720	910	---	0	---	0	68	---
11,2	**10,56**	114	151,4	1850	0	770	940	---	0	---	0	120	---
12,5	**12,13**	99	173,8	1850	0	730	890	---	0	---	0	125	---
14	**12,8**	94	156,3	1600	345	920	1050	1100	0	74	70	405	610
16	**14,71**	82	180,3	1600	330	880	990	1050	0	79	75	390	580
18	**16,47**	73	169,5	1350	355	880	990	1050	105	270	265	405	590
20	**18,92**	63	182,1	1250	320	840	950	1000	105	260	260	395	570
22,4	**21,88**	55	183,4	1100	335	860	960	1000	120	280	280	410	580
25	**25,14**	48	182,1	940	325	820	920	980	120	275	270	395	560
28	**27,55**	44	185	870	300	760	860	910	115	260	255	370	530
31,5	**31,64**	38	182,1	750	295	730	820	870	115	255	250	360	510
35,5	**34,89**	34	185	690	300	710	780	830	225	345	340	350	485
40	**40,08**	30	181	590	290	680	750	800	220	330	330	335	470
45	**42,95**	28	185	560	290	670	750	800	220	335	330	335	470
50	**49,33**	24	181	475	280	650	720	760	215	320	320	325	450
56	**52,47**	23	185	465	275	620	690	730	240	345	340	315	440
63	**60,27**	20	179,9	390	265	600	660	700	235	330	330	305	420
71	**67,18**	18	182,9	360	255	560	620	660	245	335	330	290	395
80	**77,17**	16	179,2	305	245	540	600	630	235	320	320	275	380
90	**88,53**	14	181,4	270	275	510	560	---	265	---	310	295	---
100	**101,7**	12	176,5	230	265	490	540	---	255	---	300	280	---
112	**111,45**	11	181,8	215	250	465	510	---	240	---	285	265	---
125	**128,02**	9,4	176,5	180	240	445	490	---	235	---	275	255	---
140	**137,16**	8,7	181,8	175	245	445	495	---	235	---	275	255	---
160	**157,56**	7,6	176,9	150	235	430	475	---	225	---	265	250	---
180	**165,01**	7,3	181,4	145	220	410	450	---	215	---	250	235	---
200	**189,54**	6,3	176,2	120	215	395	435	---	205	---	240	225	---
224	**220,81**	5,4	179,9	110	200	355	390	---	190	---	220	200	---
250	**253,64**	4,7	175	92	190	345	380	---	185	---	215	195	---
280	**271,76**	4,4	180,2	88	195	345	380	---	185	---	215	195	---
315	**312,17**	3,8	175,4	75	185	330	365	---	180	---	205	190	---
355	**326,93**	3,7	179,9	73	180	315	350	---	170	---	200	180	---
400	**375,54**	3,2	175,1	62	170	305	335	---	165	---	190	175	---

30593506/EN – 07/2023

XK250e..,n_1= 1500 1/min					P_{TH}20 °C / KW								185 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
7,1	**6,86**	219	151	3550	0	440	720	---	0	---	0	0	---
8	**7,88**	190	173,3	3550	0	455	710	---	0	---	0	0	---
9	**8,69**	173	143,3	2650	0	590	850	---	0	---	0	0	---
10	**9,99**	150	164,7	2650	0	560	810	---	0	---	0	0	---
11,2	**10,56**	142	151,4	2350	0	660	890	---	0	---	0	0	---
12,5	**12,13**	124	173,8	2350	0	630	840	---	0	---	0	0	---
14	**12,8**	117	156,3	2000	225	1000	1150	1250	0	0	0	320	650
16	**14,71**	102	180,3	2000	220	950	1100	1200	0	0	0	310	620
18	**16,47**	91	169,5	1650	265	970	1100	1200	0	160	155	345	640
20	**18,92**	79	182,1	1550	250	930	1050	1150	0	160	160	345	620
22,4	**21,88**	69	183,4	1350	255	950	1050	1150	0	185	180	365	640
25	**25,14**	60	182,1	1200	250	910	1050	1100	0	180	180	355	620
28	**27,55**	54	185	1100	235	850	960	1050	0	180	175	335	580
31,5	**31,64**	47	182,1	940	230	810	920	980	0	180	175	325	560
35,5	**34,89**	43	185	860	255	800	890	950	115	325	320	320	540
40	**40,08**	37	181	730	250	760	850	910	115	315	315	310	520
45	**42,95**	35	185	700	250	760	850	910	120	320	315	310	520
50	**49,33**	30	181	600	245	730	820	870	115	310	305	300	500
56	**52,47**	29	185	580	245	710	790	840	175	350	350	295	490
63	**60,27**	25	179,9	490	235	680	760	800	170	340	335	285	470
71	**67,18**	22	182,9	445	230	640	710	750	205	355	355	275	445
80	**77,17**	19	179,2	380	225	610	680	720	195	340	340	265	425
90	**88,53**	17	181,4	335	265	580	650	---	255	---	350	305	---
100	**101,7**	15	176,5	285	260	560	620	---	245	---	335	290	---
112	**111,45**	13	181,8	270	245	530	590	---	235	---	315	275	---
125	**128,02**	12	176,5	225	240	510	570	---	225	---	305	265	---
140	**137,16**	11	181,8	220	240	510	570	---	225	---	305	265	---
160	**157,56**	9,5	176,9	185	230	490	550	---	215	---	295	255	---
180	**165,01**	9,1	181,4	180	220	470	520	---	210	---	280	245	---
200	**189,54**	7,9	176,2	155	210	450	500	---	200	---	270	235	---
224	**220,81**	6,8	179,9	135	205	410	455	---	190	---	250	210	---
250	**253,64**	5,9	175	115	195	395	440	---	185	---	245	205	---
280	**271,76**	5,5	180,2	110	195	400	440	---	185	---	245	205	---
315	**312,17**	4,8	175,4	93	190	385	425	---	180	---	235	195	---
355	**326,93**	4,6	179,9	91	180	370	405	---	175	---	225	190	---
400	**375,54**	4	175,1	78	175	355	390	---	165	---	220	180	---
XK250e..,n_1= 1800 1/min													**185 kNm**
7,1	**6,86**	262	151	4250	0	0	395	---	0	---	0	0	---
8	**7,88**	228	173,3	4250	0	96	430	---	0	---	0	0	---
9	**8,69**	207	143,3	3200	0	320	580	---	0	---	0	0	---
10	**9,99**	180	164,7	3200	0	340	580	---	0	---	0	0	---
11,2	**10,56**	170	151,4	2800	0	445	720	---	0	---	0	0	---
12,5	**12,13**	148	173,8	2800	0	425	690	---	0	---	0	0	---
14	**12,8**	141	156,3	2400	13	1050	1200	1300	0	0	0	210	650
16	**14,71**	122	180,3	2400	31	990	1150	1250	0	0	0	215	630
18	**16,47**	109	169,5	2000	155	1000	1150	1250	0	56	51	270	670
20	**18,92**	95	182,1	1900	155	980	1100	1200	0	79	74	265	640
22,4	**21,88**	82	183,4	1650	155	1000	1150	1250	0	120	115	295	670
25	**25,14**	72	182,1	1400	155	970	1100	1200	0	125	120	290	650
28	**27,55**	65	185	1300	155	900	1050	1100	0	130	130	280	610
31,5	**31,64**	57	182,1	1100	155	870	990	1050	0	135	130	275	590
35,5	**34,89**	52	185	1050	195	860	970	1050	0	275	270	280	580
40	**40,08**	45	181	880	190	830	930	990	0	270	265	275	560
45	**42,95**	42	185	840	195	830	930	990	0	275	270	275	560
50	**49,33**	36	181	720	190	790	890	950	0	265	265	270	540
56	**52,47**	34	185	690	195	770	860	920	82	335	330	265	530
63	**60,27**	30	179,9	590	195	740	830	880	83	325	320	260	510
71	**67,18**	27	182,9	540	195	700	780	830	145	360	360	250	480
80	**77,17**	23	179,2	455	185	670	750	790	140	345	340	245	460
90	**88,53**	20	181,4	405	250	640	710	---	230	---	375	305	---
100	**101,7**	18	176,5	345	245	620	680	---	225	---	360	295	---
112	**111,45**	16	181,8	320	230	590	650	---	210	---	340	280	---
125	**128,02**	14	176,5	270	225	560	630	---	205	---	325	270	---
140	**137,16**	13	181,8	260	225	560	630	---	205	---	330	270	---
160	**157,56**	11	176,9	220	220	540	600	---	200	---	315	260	---
180	**165,01**	11	181,4	215	210	520	570	---	195	---	300	250	---
200	**189,54**	9,5	176,2	185	200	495	550	---	190	---	290	240	---
224	**220,81**	8,2	179,9	165	205	460	510	---	190	---	275	215	---
250	**253,64**	7,1	175	140	195	445	490	---	185	---	270	210	---
280	**271,76**	6,6	180,2	130	200	445	490	---	185	---	270	210	---
315	**312,17**	5,8	175,4	110	190	430	475	---	180	---	260	200	---
355	**326,93**	5,5	179,9	110	185	410	455	---	170	---	250	195	---
400	**375,54**	4,8	175,1	93	175	395	440	---	165	---	240	185	---

30593506/EN – 07/2023

XK260e..,n_1= 1000 1/min					P_{TH}20 °C / KW								217 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
12,5	**12,59**	79	198,6	1700	420	970	1100	1250	76	185	180	560	700
14	**14,24**	70	217	1650	400	930	1050	1200	78	180	175	540	670
16	**16,19**	62	216,6	1450	430	940	1050	1150	310	400	400	540	660
18	**18,32**	55	217	1300	405	900	1000	1150	305	390	385	530	640
20	**21,1**	47	217	1100	415	910	1050	1150	320	405	405	540	650
22,4	**23,86**	42	217	990	405	880	990	1100	310	390	390	520	630
25	**26,09**	38	217	900	375	810	910	1000	290	365	360	480	580
28	**29,51**	34	217	800	360	780	870	960	285	350	350	465	560
31,5	**30,68**	33	217	770	370	790	880	970	290	360	360	475	570
35,5	**34,7**	29	217	680	360	760	850	930	280	350	345	455	550
40	**38,86**	26	217	610	370	730	820	890	380	440	435	435	520
45	**43,96**	23	216,5	530	360	710	790	860	365	420	420	425	500
50	**47,48**	21	217	500	350	670	750	820	380	430	430	405	480
56	**53,7**	19	215,1	440	335	650	720	790	370	415	415	390	465
63	**60,78**	16	217	390	320	600	670	730	355	400	395	365	430
71	**68,75**	15	214,3	340	310	580	650	710	340	385	385	355	415
80	**84,73**	12	217	280	310	490	540	---	310	---	340	335	---
90	**95,84**	10	211,6	240	300	475	530	---	300	---	335	325	---
100	**104,76**	9,5	217	225	280	445	490	---	285	---	310	305	---
112	**118,5**	8,4	211,6	195	270	430	475	---	275	---	300	295	---
125	**123,21**	8,1	217	195	275	435	480	---	275	---	305	295	---
140	**139,37**	7,2	212,1	165	265	420	465	---	265	---	295	285	---
160	**152,63**	6,6	217	155	260	410	455	---	265	---	290	280	---
180	**172,65**	5,8	211,2	135	255	400	440	---	255	---	280	270	---
200	**203,69**	4,9	217	120	230	355	390	---	230	---	250	235	---
224	**230,4**	4,3	209,9	100	225	345	380	---	220	---	240	230	---
250	**239,55**	4,2	217	100	225	345	385	---	225	---	245	230	---
280	**270,97**	3,7	209,9	86	220	335	370	---	215	---	235	225	---
315	**296,76**	3,4	217	81	215	330	365	---	215	---	235	220	---
355	**335,68**	3	209,4	69	210	320	355	---	205	---	225	215	---
XK260e..,n_1= 1200 1/min													217 kNm
12,5	**12,59**	95	198,6	2050	305	1050	1200	1350	0	97	92	510	750
14	**14,24**	84	217	2000	290	1000	1150	1300	0	100	96	490	730
16	**16,19**	74	216,6	1750	355	1050	1150	1300	190	365	365	510	730
18	**18,32**	66	217	1550	315	990	1150	1250	185	360	355	500	710
20	**21,1**	57	217	1350	345	1000	1150	1250	195	380	380	510	720
22,4	**23,86**	50	217	1200	335	970	1100	1200	190	370	370	495	690
25	**26,09**	46	217	1100	310	890	1000	1100	180	350	345	460	640
28	**29,51**	41	217	960	305	860	970	1050	175	340	335	445	620
31,5	**30,68**	39	217	920	315	870	980	1100	185	350	345	455	630
35,5	**34,7**	35	217	810	305	840	940	1050	180	340	335	440	610
40	**38,86**	31	217	730	340	820	920	1000	340	470	465	425	580
45	**43,96**	27	216,5	640	330	790	890	970	330	450	450	410	560
50	**47,48**	25	217	600	325	760	850	930	360	475	470	395	540
56	**53,7**	22	215,1	530	315	730	810	890	350	460	455	385	520
63	**60,78**	20	217	470	305	680	760	830	345	445	440	360	485
71	**68,75**	17	214,3	410	295	660	730	800	335	430	425	350	465
80	**84,73**	14	217	335	310	560	620	---	310	---	345	345	---
90	**95,84**	13	211,6	290	300	540	600	---	300	---	335	335	---
100	**104,76**	11	217	275	280	500	560	---	285	---	315	315	---
112	**118,5**	10	211,6	235	275	485	540	---	275	---	305	305	---
125	**123,21**	9,7	217	230	275	490	540	---	275	---	305	305	---
140	**139,37**	8,6	212,1	200	265	475	530	---	265	---	295	295	---
160	**152,63**	7,9	217	185	260	465	520	---	265	---	290	290	---
180	**172,65**	7	211,2	160	255	450	500	---	255	---	280	280	---
200	**203,69**	5,9	217	140	235	405	445	---	235	---	255	245	---
224	**230,4**	5,2	209,9	120	230	395	435	---	225	---	250	240	---
250	**239,55**	5	217	120	230	395	440	---	230	---	250	240	---
280	**270,97**	4,4	209,9	105	225	385	425	---	220	---	245	235	---
315	**296,76**	4	217	97	220	380	420	---	220	---	240	230	---
355	**335,68**	3,6	209,4	83	215	365	405	---	210	---	230	220	---

30593506/EN – 07/2023

XK260e..,n_1= 1500 1/min					P_{TH}20 °C / KW								217 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
12,5	**12,59**	119	198,6	2550	89	1100	1300	1450	0	19	0	385	790
14	**14,24**	105	217	2500	97	1050	1250	1400	0	30	26	375	770
16	**16,19**	93	216,6	2200	220	1100	1250	1450	0	330	325	420	790
18	**18,32**	82	217	1950	205	1050	1250	1400	0	320	315	415	770
20	**21,1**	71	217	1650	205	1100	1250	1400	24	355	350	445	790
22,4	**23,86**	63	217	1500	200	1050	1200	1350	30	350	345	435	760
25	**26,09**	57	217	1350	195	980	1100	1250	44	330	325	405	700
28	**29,51**	51	217	1200	190	940	1100	1200	45	320	315	395	680
31,5	**30,68**	49	217	1150	200	960	1100	1200	54	340	335	410	700
35,5	**34,7**	43	217	1000	195	930	1050	1150	54	325	320	395	670
40	**38,86**	39	217	910	265	920	1050	1150	255	485	480	390	640
45	**43,96**	34	216,5	800	260	880	990	1100	250	470	465	380	630
50	**47,48**	32	217	750	270	850	960	1050	315	510	510	370	600
56	**53,7**	28	215,1	660	260	820	920	1000	305	495	495	360	580
63	**60,78**	25	217	590	265	770	860	950	315	490	485	340	550
71	**68,75**	22	214,3	510	260	740	830	910	305	475	470	330	530
80	**84,73**	18	217	420	295	630	700	---	295	---	380	355	---
90	**95,84**	16	211,6	365	285	610	680	---	285	---	370	345	---
100	**104,76**	14	217	340	265	570	640	---	270	---	345	320	---
112	**118,5**	13	211,6	295	260	550	620	---	260	---	335	315	---
125	**123,21**	12	217	290	265	560	620	---	265	---	335	315	---
140	**139,37**	11	212,1	250	255	540	600	---	255	---	325	305	---
160	**152,63**	9,8	217	235	255	530	590	---	255	---	325	300	---
180	**172,65**	8,7	211,2	200	245	510	570	---	245	---	310	290	---
200	**203,69**	7,4	217	175	240	470	520	---	235	---	290	255	---
224	**230,4**	6,5	209,9	150	235	455	500	---	230	---	280	250	---
250	**239,55**	6,3	217	150	235	460	510	---	230	---	285	250	---
280	**270,97**	5,5	209,9	130	230	445	490	---	225	---	275	245	---
315	**296,76**	5,1	217	120	225	440	485	---	220	---	270	240	---
355	**335,68**	4,5	209,4	105	220	425	470	---	215	---	265	230	---
XK260e..,n_1= 1800 1/min													**217 kNm**
12,5	**12,59**	143	198,6	3100	0	1050	1250	1500	0	0	0	245	780
14	**14,24**	126	217	2950	0	1000	1200	1400	0	0	0	255	750
16	**16,19**	111	216,6	2600	0	1150	1350	1500	0	325	320	320	810
18	**18,32**	98	217	2300	15	1100	1300	1450	0	320	315	315	790
20	**21,1**	85	217	2000	52	1150	1300	1500	0	360	355	340	820
22,4	**23,86**	75	217	1750	28	1100	1250	1450	0	355	350	335	790
25	**26,09**	69	217	1600	53	1050	1200	1350	0	335	330	320	740
28	**29,51**	61	217	1450	56	1000	1150	1300	0	330	325	315	720
31,5	**30,68**	59	217	1400	73	1000	1150	1300	0	345	345	330	730
35,5	**34,7**	52	217	1200	72	980	1150	1250	0	340	335	325	710
40	**38,86**	46	217	1100	160	990	1100	1250	150	480	480	335	690
45	**43,96**	41	216,5	960	150	950	1050	1200	145	470	465	325	670
50	**47,48**	38	217	900	180	920	1050	1150	240	530	520	325	640
56	**53,7**	34	215,1	790	180	890	1000	1100	235	510	510	320	620
63	**60,78**	30	217	700	200	840	940	1050	270	520	510	310	590
71	**68,75**	26	214,3	610	200	810	910	1000	260	500	495	300	570
80	**84,73**	21	217	510	265	690	770	---	265	---	400	355	---
90	**95,84**	19	211,6	435	260	670	750	---	255	---	390	345	---
100	**104,76**	17	217	410	240	630	700	---	240	---	365	325	---
112	**118,5**	15	211,6	350	235	610	680	---	235	---	355	315	---
125	**123,21**	15	217	350	240	610	690	---	240	---	355	320	---
140	**139,37**	13	212,1	300	235	590	660	---	235	---	345	310	---
160	**152,63**	12	217	280	235	580	650	---	235	---	345	300	---
180	**172,65**	10	211,2	240	225	560	630	---	230	---	330	295	---
200	**203,69**	8,8	217	215	240	520	580	---	235	---	320	260	---
224	**230,4**	7,8	209,9	180	235	510	560	---	225	---	310	255	---
250	**239,55**	7,5	217	180	235	510	570	---	230	---	310	255	---
280	**270,97**	6,6	209,9	155	230	495	550	---	220	---	300	250	---
315	**296,76**	6,1	217	145	225	485	540	---	220	---	295	245	---
355	**335,68**	5,4	209,4	125	220	475	520	---	210	---	290	235	---

30593506/EN – 07/2023

XK270e..,n_1= 1000 1/min					P_{TH}20 °C / KW								252 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
14	**13,83**	72	218,1	1700	450	1000	1150	1250	84	190	185	570	700
16	**15,48**	65	244,1	1700	435	980	1100	1200	88	190	190	560	690
18	**17,78**	56	237,9	1450	435	960	1100	1200	320	410	405	550	670
20	**19,91**	50	252	1350	430	940	1050	1150	315	405	400	540	660
22,4	**23,17**	43	247,7	1150	435	930	1050	1150	325	410	410	540	650
25	**25,94**	39	252	1050	430	910	1050	1100	325	405	405	540	650
28	**28,65**	35	251,8	950	390	820	930	1000	295	370	365	485	580
31,5	**32,07**	31	251,8	850	385	810	910	990	295	365	365	480	580
35,5	**33,7**	30	252	810	385	810	900	980	295	365	365	475	570
40	**37,72**	27	250,4	720	380	790	880	960	295	365	360	470	570
45	**42,68**	23	252	640	380	740	830	890	385	440	440	440	520
50	**47,78**	21	249,3	570	375	730	810	880	380	435	435	435	520
56	**52,14**	19	252	530	355	680	760	820	385	435	435	410	485
63	**58,37**	17	248,3	465	350	670	750	800	380	430	430	405	475
71	**66,76**	15	252	415	325	610	680	730	355	405	400	370	435
80	**74,73**	13	246,8	360	320	600	670	720	355	395	395	365	430
90	**93,07**	11	239,2	280	315	495	550	---	315	---	345	340	---
100	**104,18**	9,6	246,3	260	310	490	540	---	310	---	340	335	---
112	**115,07**	8,7	251,8	240	285	450	495	---	285	---	315	305	---
125	**128,81**	7,8	244,7	210	280	440	490	---	280	---	310	300	---
140	**135,33**	7,4	250,3	205	280	440	485	---	280	---	305	300	---
160	**151,49**	6,6	244,2	175	275	430	480	---	275	---	300	295	---
180	**167,65**	6	249,8	165	265	415	460	---	265	---	290	285	---
200	**187,66**	5,3	243,2	140	260	410	455	---	260	---	285	280	---
224	**223,73**	4,5	251,1	125	230	360	395	---	230	---	250	240	---
250	**250,44**	4	243,2	110	230	355	390	---	225	---	250	235	---
280	**263,12**	3,8	248,3	105	230	350	390	---	225	---	245	235	---
315	**294,53**	3,4	242,1	91	225	345	380	---	225	---	245	230	---
355	**325,95**	3,1	247,8	84	215	335	370	---	215	---	235	225	---
400	**364,87**	2,7	241,6	73	215	330	365	---	215	---	230	220	---
XK270e..,n_1= 1200 1/min													252 kNm
14	**13,83**	87	218,1	2050	335	1100	1250	1350	0	105	100	510	760
16	**15,48**	78	244,1	2050	330	1050	1200	1350	0	115	110	510	750
18	**17,78**	67	237,9	1750	360	1050	1200	1300	195	375	370	520	740
20	**19,91**	60	252	1650	350	1050	1150	1300	195	375	370	510	730
22,4	**23,17**	52	247,7	1400	370	1050	1150	1250	200	390	385	520	720
25	**25,94**	46	252	1250	365	1000	1150	1250	205	385	385	510	710
28	**28,65**	42	251,8	1150	335	910	1050	1150	185	355	350	465	650
31,5	**32,07**	37	251,8	1000	330	900	1000	1100	185	350	350	460	640
35,5	**33,7**	36	252	970	335	890	1000	1100	190	355	350	460	640
40	**37,72**	32	250,4	860	335	880	990	1050	190	355	350	455	630
45	**42,68**	28	252	770	350	830	930	1000	345	475	470	430	580
50	**47,78**	25	249,3	680	345	820	910	990	340	465	465	425	580
56	**52,14**	23	252	630	330	770	860	930	365	480	475	400	540
63	**58,37**	21	248,3	560	330	750	840	910	360	475	470	395	540
71	**66,76**	18	252	495	310	690	770	830	350	450	445	365	490
80	**74,73**	16	246,8	435	305	680	750	810	345	440	440	360	480
90	**93,07**	13	239,2	340	315	560	620	---	315	---	350	350	---
100	**104,18**	12	246,3	310	310	550	610	---	310	---	345	345	---
112	**115,07**	10	251,8	290	285	510	560	---	285	---	315	315	---
125	**128,81**	9,3	244,7	250	280	500	550	---	280	---	310	310	---
140	**135,33**	8,9	250,3	245	280	495	550	---	280	---	310	310	---
160	**151,49**	7,9	244,2	210	275	490	540	---	275	---	305	305	---
180	**167,65**	7,2	249,8	195	265	470	520	---	265	---	295	295	---
200	**187,66**	6,4	243,2	170	260	465	510	---	265	---	290	290	---
224	**223,73**	5,4	251,1	150	240	410	450	---	235	---	260	250	---
250	**250,44**	4,8	243,2	130	235	405	445	---	235	---	255	245	---
280	**263,12**	4,6	248,3	125	235	400	445	---	230	---	255	245	---
315	**294,53**	4,1	242,1	110	230	395	435	---	230	---	250	240	---
355	**325,95**	3,7	247,8	100	225	385	420	---	220	---	240	230	---
400	**364,87**	3,3	241,6	88	220	375	415	---	220	---	240	230	---

30593506/EN – 07/2023

XK270e..,n_1= 1500 1/min					P_{TH}20 °C / KW								252 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
14	**13,83**	108	218,1	2550	150	1150	1350	1500	0	27	21	385	800
16	**15,48**	97	244,1	2550	155	1150	1300	1450	0	39	33	385	790
18	**17,78**	84	237,9	2200	250	1150	1300	1450	0	330	325	425	790
20	**19,91**	75	252	2050	220	1100	1300	1400	0	335	330	430	790
22,4	**23,17**	65	247,7	1750	235	1100	1300	1400	35	365	360	450	790
25	**25,94**	58	252	1600	235	1100	1250	1400	36	365	360	450	780
28	**28,65**	52	251,8	1450	220	1000	1150	1250	49	340	335	410	710
31,5	**32,07**	47	251,8	1300	225	990	1150	1250	56	340	330	410	700
35,5	**33,7**	45	252	1200	230	990	1150	1250	65	345	340	410	700
40	**37,72**	40	250,4	1100	235	970	1100	1200	63	345	335	410	690
45	**42,68**	35	252	960	280	930	1050	1150	260	490	490	395	650
50	**47,78**	31	249,3	850	280	920	1050	1100	260	485	485	395	640
56	**52,14**	29	252	790	280	860	970	1050	315	520	520	375	610
63	**58,37**	26	248,3	700	280	850	950	1050	315	510	510	370	600
71	**66,76**	22	252	620	270	780	870	950	320	495	490	345	550
80	**74,73**	20	246,8	540	270	770	860	930	315	490	485	345	540
90	**93,07**	16	239,2	425	300	640	710	---	300	---	385	360	---
100	**104,18**	14	246,3	390	295	630	700	---	295	---	380	355	---
112	**115,07**	13	251,8	360	270	580	640	---	270	---	350	325	---
125	**128,81**	12	244,7	310	270	570	630	---	270	---	345	320	---
140	**135,33**	11	250,3	305	265	570	630	---	265	---	340	320	---
160	**151,49**	9,9	244,2	265	265	560	620	---	265	---	335	315	---
180	**167,65**	8,9	249,8	245	255	540	600	---	260	---	325	300	---
200	**187,66**	8	243,2	215	250	530	590	---	255	---	320	300	---
224	**223,73**	6,7	251,1	185	245	475	520	---	240	---	295	260	---
250	**250,44**	6	243,2	160	240	465	520	---	235	---	290	255	---
280	**263,12**	5,7	248,3	155	240	465	510	---	235	---	290	255	---
315	**294,53**	5,1	242,1	135	235	455	510	---	230	---	285	250	---
355	**325,95**	4,6	247,8	125	230	445	490	---	225	---	275	240	---
400	**364,87**	4,1	241,6	110	225	435	485	---	220	---	270	240	---
XK270e..,n_1= 1800 1/min													252 kNm
14	**13,83**	130	218,1	3100	0	1100	1350	1500	0	0	0	245	770
16	**15,48**	116	244,1	3100	0	1100	1300	1500	0	0	0	260	770
18	**17,78**	101	237,9	2600	59	1200	1350	1550	0	335	330	325	810
20	**19,91**	90	252	2450	59	1150	1350	1500	0	335	330	325	810
22,4	**23,17**	78	247,7	2100	78	1150	1350	1500	0	365	360	345	820
25	**25,94**	69	252	1900	85	1150	1350	1500	0	370	365	350	820
28	**28,65**	63	251,8	1700	99	1050	1200	1350	0	345	340	320	740
31,5	**32,07**	56	251,8	1550	99	1050	1200	1350	0	345	340	325	740
35,5	**33,7**	53	252	1450	110	1050	1200	1350	0	355	350	335	740
40	**37,72**	48	250,4	1300	115	1050	1200	1300	0	355	350	335	730
45	**42,68**	42	252	1150	180	1000	1150	1250	160	490	485	340	700
50	**47,78**	38	249,3	1000	180	990	1100	1200	155	485	480	340	690
56	**52,14**	35	252	950	195	940	1050	1150	245	530	530	330	650
63	**58,37**	31	248,3	840	200	920	1050	1150	245	530	530	330	640
71	**66,76**	27	252	740	210	850	950	1050	275	520	520	310	590
80	**74,73**	24	246,8	650	210	830	940	1000	275	520	510	310	590
90	**93,07**	19	239,2	510	270	700	780	---	270	---	405	360	---
100	**104,18**	17	246,3	465	265	690	770	---	265	---	400	355	---
112	**115,07**	16	251,8	430	245	630	710	---	245	---	365	325	---
125	**128,81**	14	244,7	375	245	630	700	---	245	---	365	325	---
140	**135,33**	13	250,3	365	245	620	690	---	240	---	360	320	---
160	**151,49**	12	244,2	320	245	610	680	---	240	---	355	320	---
180	**167,65**	11	249,8	295	235	590	660	---	240	---	350	305	---
200	**187,66**	9,6	243,2	255	235	580	650	---	235	---	345	300	---
224	**223,73**	8	251,1	225	245	530	580	---	235	---	320	265	---
250	**250,44**	7,2	243,2	195	240	520	580	---	235	---	315	260	---
280	**263,12**	6,8	248,3	190	240	520	570	---	230	---	315	260	---
315	**294,53**	6,1	242,1	165	235	510	560	---	230	---	310	255	---
355	**325,95**	5,5	247,8	150	230	495	550	---	220	---	300	245	---
400	**364,87**	4,9	241,6	130	225	485	540	---	220	---	295	245	---

30593506/EN – 07/2023

XK280e..,n_1= 1000 1/min				P_{TH}20 °C / KW									285 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
16	**15,48**	65	244,2	1700	560	1200	1350	1450	215	---	320	690	---
18	**17,34**	58	273,5	1700	520	1150	1300	1400	210	---	310	670	---
20	**19,91**	50	266,3	1450	540	1150	1250	1350	440	---	530	660	---
22,4	**22,3**	45	285	1400	530	1100	1250	1350	430	---	520	640	---
25	**25,94**	39	275,8	1150	540	1100	1200	1300	440	---	530	650	---
28	**29,05**	34	285	1050	520	1050	1200	1250	430	---	520	630	---
31,5	**32,07**	31	280,2	950	475	970	1100	1150	395	---	470	570	---
35,5	**35,92**	28	285	860	470	940	1050	1150	385	---	460	560	---
40	**37,72**	27	283,1	810	470	940	1050	1150	390	---	465	570	---
45	**42,25**	24	285	730	465	920	1000	1100	380	---	455	550	---
50	**47,78**	21	283,1	640	455	860	950	1050	465	---	530	520	---
56	**53,51**	19	284	580	445	840	930	1000	455	---	520	510	---
63	**58,37**	17	283,1	530	425	790	880	940	455	---	510	480	---
71	**65,38**	15	282,8	475	415	770	850	920	445	---	500	470	---
80	**74,73**	13	283,1	415	385	710	780	830	420	---	470	430	---
90	**83,7**	12	281,1	370	375	690	760	820	410	---	455	420	---
100	**104,18**	9,6	267,8	280	365	570	630	---	365	---	400	385	---
112	**116,68**	8,6	277,5	260	360	560	620	---	360	---	395	380	---
125	**128,81**	7,8	280,2	240	330	520	570	---	330	---	360	350	---
140	**144,27**	6,9	277,6	210	325	510	560	---	325	---	355	345	---
160	**151,49**	6,6	283,1	205	325	510	560	---	325	---	355	345	---
180	**169,67**	5,9	278,2	180	320	495	550	---	315	---	345	335	---
200	**187,66**	5,3	283,1	165	310	480	530	---	305	---	335	325	---
224	**210,18**	4,8	277	145	300	470	520	---	300	---	330	315	---
250	**250,44**	4	280,2	125	270	410	455	---	265	---	290	270	---
280	**280,49**	3,6	275,3	110	265	405	445	---	260	---	285	265	---
315	**294,53**	3,4	283,1	105	260	400	445	---	260	---	285	265	---
355	**329,88**	3	275,3	92	255	395	435	---	255	---	275	260	---
400	**364,87**	2,7	283,1	86	250	385	420	---	250	---	270	255	---
450	**408,66**	2,4	274,7	74	245	375	415	---	245	---	265	250	---
XK280e..,n_1= 1200 1/min													**285 kNm**
16	**15,48**	78	244,2	2050	465	1300	1500	1600	0	---	265	640	---
18	**17,34**	69	273,5	2050	440	1250	1450	1550	0	---	265	630	---
20	**19,91**	60	266,3	1750	475	1250	1400	1550	305	---	520	630	---
22,4	**22,3**	54	285	1650	465	1200	1350	1500	300	---	510	620	---
25	**25,94**	46	275,8	1400	480	1200	1350	1450	320	---	530	630	---
28	**29,05**	41	285	1300	470	1200	1350	1450	320	---	520	610	---
31,5	**32,07**	37	280,2	1150	430	1100	1200	1300	295	---	475	560	---
35,5	**35,92**	33	285	1050	425	1050	1200	1250	295	---	465	550	---
40	**37,72**	32	283,1	980	430	1050	1200	1250	300	---	470	550	---
45	**42,25**	28	285	880	420	1000	1150	1250	295	---	460	540	---
50	**47,78**	25	283,1	770	430	970	1100	1150	430	---	570	510	---
56	**53,51**	22	284	690	425	940	1050	1150	420	---	560	500	---
63	**58,37**	21	283,1	640	405	890	990	1050	445	---	570	480	---
71	**65,38**	18	282,8	570	400	870	970	1050	435	---	560	470	---
80	**74,73**	16	283,1	495	375	800	880	950	415	---	520	430	---
90	**83,7**	14	281,1	440	365	780	860	930	410	---	510	425	---
100	**104,18**	12	267,8	340	370	650	720	---	370	---	405	400	---
112	**116,68**	10	277,5	315	365	640	710	---	360	---	395	395	---
125	**128,81**	9,3	280,2	285	335	590	650	---	335	---	365	365	---
140	**144,27**	8,3	277,6	255	330	580	640	---	325	---	360	355	---
160	**151,49**	7,9	283,1	245	330	570	640	---	325	---	360	355	---
180	**169,67**	7,1	278,2	215	325	560	620	---	320	---	350	350	---
200	**187,66**	6,4	283,1	200	315	550	600	---	310	---	340	335	---
224	**210,18**	5,7	277	175	305	530	590	---	305	---	335	330	---
250	**250,44**	4,8	280,2	150	275	470	520	---	270	---	295	285	---
280	**280,49**	4,3	275,3	130	270	460	510	---	265	---	290	280	---
315	**294,53**	4,1	283,1	130	270	460	510	---	265	---	290	280	---
355	**329,88**	3,6	275,3	110	265	450	500	---	260	---	285	275	---
400	**364,87**	3,3	283,1	105	260	440	485	---	255	---	280	265	---
450	**408,66**	2,9	274,7	89	255	430	475	---	250	---	275	260	---

30593506/EN – 07/2023

XK280e..,n_1= 1500 1/min				P_{TH}20 °C / KW									285 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
16	**15,48**	97	244,2	2550	280	1400	1650	1800	0	---	230	510	---
18	**17,34**	87	273,5	2550	275	1350	1600	1750	0	---	235	510	---
20	**19,91**	75	266,3	2150	320	1350	1550	1700	145	---	500	550	---
22,4	**22,3**	67	285	2100	315	1350	1500	1650	140	---	495	550	---
25	**25,94**	58	275,8	1750	350	1350	1500	1650	170	---	530	570	---
28	**29,05**	52	285	1600	350	1300	1500	1600	170	---	520	560	---
31,5	**32,07**	47	280,2	1400	330	1200	1350	1450	160	---	480	520	---
35,5	**35,92**	42	285	1300	325	1150	1300	1450	165	---	475	510	---
40	**37,72**	40	283,1	1200	335	1200	1350	1450	170	---	485	520	---
45	**42,25**	36	285	1100	335	1150	1300	1400	165	---	475	510	---
50	**47,78**	31	283,1	960	370	1100	1200	1300	355	---	610	485	---
56	**53,51**	28	284	860	365	1050	1200	1300	350	---	600	475	---
63	**58,37**	26	283,1	800	360	1000	1150	1200	400	---	620	455	---
71	**65,38**	23	282,8	710	355	990	1100	1200	395	---	610	450	---
80	**74,73**	20	283,1	620	340	910	1000	1100	395	---	590	420	---
90	**83,7**	18	281,1	550	335	890	990	1050	385	---	570	410	---
100	**104,18**	14	267,8	425	365	740	830	---	360	---	450	415	---
112	**116,68**	13	277,5	390	360	730	810	---	355	---	440	405	---
125	**128,81**	12	280,2	360	335	670	750	---	325	---	410	375	---
140	**144,27**	10	277,6	315	330	660	730	---	320	---	400	370	---
160	**151,49**	9,9	283,1	305	330	660	730	---	320	---	400	370	---
180	**169,67**	8,8	278,2	270	320	650	720	---	315	---	390	360	---
200	**187,66**	8	283,1	250	310	630	690	---	305	---	385	350	---
224	**210,18**	7,1	277	215	305	610	680	---	300	---	375	345	---
250	**250,44**	6	280,2	185	285	540	600	---	275	---	340	295	---
280	**280,49**	5,3	275,3	165	280	530	590	---	270	---	335	290	---
315	**294,53**	5,1	283,1	160	280	530	590	---	270	---	330	290	---
355	**329,88**	4,5	275,3	140	275	520	580	---	265	---	325	285	---
400	**364,87**	4,1	283,1	130	270	510	560	---	260	---	315	275	---
450	**408,66**	3,7	274,7	110	265	500	550	---	255	---	310	270	---
XK280e..,n_1= 1800 1/min													**285 kNm**
16	**15,48**	116	244,2	3100	0	1400	1650	1850	0	---	0	365	---
18	**17,34**	104	273,5	3100	0	1400	1600	1800	0	---	0	375	---
20	**19,91**	90	266,3	2600	195	1450	1650	1800	0	---	510	435	---
22,4	**22,3**	81	285	2500	160	1400	1600	1800	0	---	510	430	---
25	**25,94**	69	275,8	2050	205	1400	1650	1800	43	---	550	475	---
28	**29,05**	62	285	1900	205	1400	1600	1750	50	---	550	475	---
31,5	**32,07**	56	280,2	1700	205	1300	1450	1600	69	---	510	440	---
35,5	**35,92**	50	285	1550	200	1250	1450	1550	71	---	500	435	---
40	**37,72**	48	283,1	1450	210	1250	1450	1550	84	---	520	450	---
45	**42,25**	43	285	1300	210	1250	1400	1500	85	---	510	445	---
50	**47,78**	38	283,1	1150	280	1200	1350	1450	255	---	620	440	---
56	**53,51**	34	284	1050	275	1150	1300	1400	255	---	610	435	---
63	**58,37**	31	283,1	960	290	1100	1250	1350	335	---	650	420	---
71	**65,38**	28	282,8	850	285	1100	1200	1300	335	---	640	415	---
80	**74,73**	24	283,1	750	290	990	1100	1200	355	---	630	390	---
90	**83,7**	22	281,1	660	285	970	1100	1150	350	---	610	385	---
100	**104,18**	17	267,8	510	345	820	910	---	335	---	485	420	---
112	**116,68**	15	277,5	470	340	800	890	---	325	---	475	415	---
125	**128,81**	14	280,2	430	315	750	830	---	300	---	440	380	---
140	**144,27**	12	277,6	380	310	730	810	---	300	---	430	375	---
160	**151,49**	12	283,1	370	310	730	810	---	300	---	430	375	---
180	**169,67**	11	278,2	325	305	710	790	---	295	---	420	365	---
200	**187,66**	9,6	283,1	300	300	690	770	---	290	---	410	355	---
224	**210,18**	8,6	277	260	295	680	750	---	285	---	405	350	---
250	**250,44**	7,2	280,2	225	290	610	670	---	275	---	375	305	---
280	**280,49**	6,4	275,3	195	285	600	660	---	270	---	365	300	---
315	**294,53**	6,1	283,1	190	285	600	660	---	270	---	365	300	---
355	**329,88**	5,5	275,3	165	280	590	650	---	265	---	360	295	---
400	**364,87**	4,9	283,1	155	270	570	630	---	260	---	350	285	---
450	**408,66**	4,4	274,7	135	265	560	620	---	255	---	340	280	---

30593506/EN – 07/2023

XK290e..,n_1= 1000 1/min				P_{TH}20 °C / KW									325 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
12,5	**12,37**	81	322,4	2850	530	1250	1450	1650	125	---	240	740	---
14	**13,98**	72	324,3	2500	550	1250	1450	1700	140	---	250	760	---
16	**15,91**	63	306,4	2100	570	1200	1350	1600	430	---	530	720	---
18	**17,98**	56	325	1950	550	1200	1350	1600	440	---	540	730	---
20	**20,45**	49	325	1700	540	1150	1300	1500	435	---	530	700	---
22,4	**23,12**	43	325	1500	550	1150	1350	1500	450	---	540	720	---
25	**26,69**	37	325	1300	520	1100	1250	1400	425	---	510	670	---
28	**30,17**	33	325	1150	530	1100	1250	1400	435	---	520	680	---
31,5	**32**	31	325	1100	475	990	1100	1250	390	---	470	610	---
35,5	**36,17**	28	325	970	485	990	1100	1250	395	---	475	620	---
40	**40,09**	25	325	880	480	930	1050	1200	510	---	580	560	---
45	**45,31**	22	325	780	485	930	1050	1200	520	---	580	570	---
50	**48,97**	20	325	730	455	870	960	1100	520	---	580	530	---
56	**55,35**	18	325	640	460	870	960	1100	520	---	580	530	---
63	**62,7**	16	325	570	420	780	860	980	475	---	520	475	---
71	**70,87**	14	325	500	425	770	860	980	475	---	530	480	---
80	**81,36**	12	303	410	435	610	680	---	425	---	470	455	---
90	**91,96**	11	320,6	380	435	610	680	---	425	---	470	455	---
100	**106,18**	9,4	325	335	410	580	640	---	400	---	440	425	---
112	**120,01**	8,3	320,6	295	410	580	640	---	400	---	440	425	---
125	**127,3**	7,9	325	280	375	530	590	---	370	---	405	395	---
140	**143,88**	7	321,3	245	375	530	590	---	370	---	405	395	---
160	**157,21**	6,4	325	225	350	490	540	---	340	---	375	365	---
180	**177,69**	5,6	320	195	350	490	540	---	340	---	375	365	---
200	**206,45**	4,8	325	175	325	455	500	---	320	---	350	330	---
224	**233,34**	4,3	317,3	150	325	455	500	---	320	---	350	330	---
250	**247,5**	4	325	145	300	420	465	---	295	---	325	305	---
280	**279,74**	3,6	318,6	125	300	420	465	---	295	---	325	305	---
315	**305,67**	3,3	325	120	280	390	430	---	275	---	300	285	---
355	**345,48**	2,9	317,3	100	280	390	430	---	275	---	300	285	---
XK290e..,n_1= 1200 1/min													**325 kNm**
12,5	**12,37**	97	322,4	3400	405	1350	1550	1800	34	---	300	640	---
14	**13,98**	86	324,3	3000	410	1350	1550	1800	57	---	310	670	---
16	**15,91**	75	306,4	2500	455	1300	1500	1700	300	---	495	670	---
18	**17,98**	67	325	2350	435	1300	1500	1700	310	---	510	680	---
20	**20,45**	59	325	2050	440	1300	1450	1650	315	---	510	670	---
22,4	**23,12**	52	325	1850	455	1300	1450	1650	320	---	530	680	---
25	**26,69**	45	325	1600	440	1200	1350	1550	315	---	500	640	---
28	**30,17**	40	325	1400	450	1200	1350	1550	325	---	510	650	---
31,5	**32**	38	325	1300	410	1100	1250	1400	290	---	460	590	---
35,5	**36,17**	33	325	1150	415	1100	1250	1400	300	---	470	590	---
40	**40,09**	30	325	1050	435	1050	1150	1300	475	---	610	550	---
45	**45,31**	26	325	930	445	1050	1150	1300	480	---	620	550	---
50	**48,97**	25	325	870	420	970	1100	1200	500	---	630	520	---
56	**55,35**	22	325	770	430	970	1100	1200	510	---	630	520	---
63	**62,7**	19	325	680	400	870	970	1100	465	---	570	470	---
71	**70,87**	17	325	600	400	870	970	1100	470	---	580	470	---
80	**81,36**	15	303	490	435	690	770	---	425	---	470	470	---
90	**91,96**	13	320,6	460	440	690	770	---	425	---	470	470	---
100	**106,18**	11	325	405	415	660	730	---	400	---	440	440	---
112	**120,01**	10	320,6	350	415	660	730	---	400	---	440	440	---
125	**127,3**	9,4	325	335	380	600	670	---	370	---	405	405	---
140	**143,88**	8,3	321,3	295	385	600	670	---	370	---	405	405	---
160	**157,21**	7,6	325	270	355	560	620	---	345	---	380	380	---
180	**177,69**	6,8	320	235	355	560	620	---	345	---	380	380	---
200	**206,45**	5,8	325	210	335	520	570	---	325	---	355	345	---
224	**233,34**	5,1	317,3	180	335	520	570	---	325	---	355	345	---
250	**247,5**	4,8	325	175	310	480	530	---	300	---	330	320	---
280	**279,74**	4,3	318,6	150	310	480	530	---	300	---	330	320	---
315	**305,67**	3,9	325	140	290	445	495	---	280	---	310	295	---
355	**345,48**	3,5	317,3	120	290	445	495	---	280	---	310	295	---

30593506/EN – 07/2023

XK290e..,n_1= 1500 1/min				P_{TH}20 °C / KW									325 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
12,5	**12,37**	121	322,4	4250	37	1350	1600	1900	0	---	0	490	---
14	**13,98**	107	324,3	3750	65	1400	1650	1950	0	---	0	510	---
16	**15,91**	94	306,4	3150	290	1400	1600	1900	195	---	540	530	---
18	**17,98**	83	325	2950	290	1400	1650	1900	210	---	560	560	---
20	**20,45**	73	325	2600	285	1400	1600	1850	230	---	570	560	---
22,4	**23,12**	65	325	2300	285	1400	1600	1850	235	---	590	590	---
25	**26,69**	56	325	2000	295	1300	1500	1750	240	---	570	560	---
28	**30,17**	50	325	1750	300	1350	1500	1750	240	---	590	580	---
31,5	**32**	47	325	1650	280	1200	1400	1600	220	---	530	520	---
35,5	**36,17**	41	325	1450	290	1200	1400	1600	225	---	540	530	---
40	**40,09**	37	325	1300	340	1150	1300	1500	385	---	650	500	---
45	**45,31**	33	325	1150	350	1150	1300	1500	395	---	660	510	---
50	**48,97**	31	325	1100	345	1100	1200	1400	455	---	690	480	---
56	**55,35**	27	325	960	355	1100	1250	1400	460	---	690	485	---
63	**62,7**	24	325	850	345	990	1100	1250	435	---	630	440	---
71	**70,87**	21	325	750	350	990	1100	1250	440	---	640	445	---
80	**81,36**	18	303	610	425	790	880	---	400	---	455	480	---
90	**91,96**	16	320,6	570	430	790	880	---	405	---	455	480	---
100	**106,18**	14	325	500	405	750	830	---	380	---	430	455	---
112	**120,01**	12	320,6	440	410	750	830	---	385	---	430	455	---
125	**127,3**	12	325	420	375	690	760	---	350	---	395	420	---
140	**143,88**	10	321,3	365	380	690	760	---	355	---	400	420	---
160	**157,21**	9,5	325	340	350	640	710	---	335	---	375	390	---
180	**177,69**	8,4	320	295	350	640	710	---	335	---	375	390	---
200	**206,45**	7,3	325	260	345	600	660	---	330	---	365	360	---
224	**233,34**	6,4	317,3	225	345	600	660	---	330	---	365	360	---
250	**247,5**	6,1	325	220	320	550	610	---	305	---	335	330	---
280	**279,74**	5,4	318,6	190	320	550	610	---	305	---	335	330	---
315	**305,67**	4,9	325	175	300	520	570	---	285	---	315	310	---
355	**345,48**	4,3	317,3	155	300	520	570	---	285	---	315	310	---
XK290e..,n_1= 1800 1/min													**325 kNm**
12,5	**12,37**	146	322,4	5100	0	1200	1500	1850	0	---	0	275	---
14	**13,98**	129	324,3	4550	0	1250	1550	1900	0	---	0	320	---
16	**15,91**	113	306,4	3750	0	1400	1650	2000	0	---	405	405	---
18	**17,98**	100	325	3550	0	1450	1700	2000	0	---	430	420	---
20	**20,45**	88	325	3100	50	1400	1650	1950	0	---	450	435	---
22,4	**23,12**	78	325	2750	0	1450	1700	1950	0	---	465	445	---
25	**26,69**	67	325	2400	75	1350	1600	1850	0	---	470	435	---
28	**30,17**	60	325	2100	83	1400	1600	1850	0	---	485	455	---
31,5	**32**	56	325	2000	96	1250	1450	1700	0	---	440	415	---
35,5	**36,17**	50	325	1750	105	1300	1450	1700	0	---	460	430	---
40	**40,09**	45	325	1600	210	1250	1400	1600	280	---	670	420	---
45	**45,31**	40	325	1400	210	1250	1400	1600	290	---	680	435	---
50	**48,97**	37	325	1300	230	1150	1350	1500	385	---	720	415	---
56	**55,35**	33	325	1150	240	1150	1300	1500	390	---	730	425	---
63	**62,7**	29	325	1000	260	1050	1200	1350	380	---	670	395	---
71	**70,87**	25	325	900	265	1050	1200	1350	390	---	680	400	---
80	**81,36**	22	303	740	400	870	970	---	360	---	470	480	---
90	**91,96**	20	320,6	690	405	870	970	---	360	---	470	480	---
100	**106,18**	17	325	600	385	820	910	---	340	---	445	455	---
112	**120,01**	15	320,6	530	385	820	910	---	345	---	450	460	---
125	**127,3**	14	325	500	355	760	840	---	320	---	410	420	---
140	**143,88**	13	321,3	440	360	760	840	---	320	---	415	425	---
160	**157,21**	11	325	410	335	700	780	---	305	---	390	395	---
180	**177,69**	10	320	355	335	700	780	---	310	---	390	395	---
200	**206,45**	8,7	325	315	350	670	740	---	325	---	395	370	---
224	**233,34**	7,7	317,3	270	350	670	740	---	325	---	395	370	---
250	**247,5**	7,3	325	260	325	620	680	---	300	---	365	340	---
280	**279,74**	6,4	318,6	225	325	620	680	---	300	---	365	340	---
315	**305,67**	5,9	325	210	300	580	640	---	280	---	345	315	---
355	**345,48**	5,2	317,3	185	300	580	640	---	280	---	345	315	---

30593506/EN – 07/2023

XK300e..,n_1= 1000 1/min				P_{TH}20 °C / KW									370 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
14	**13,18**	76	343,5	2850	550	1300	1450	1700	145	---	255	760	---
16	**14,94**	67	370	2700	550	1250	1450	1650	150	---	265	760	---
18	**16,95**	59	326,5	2100	560	1250	1400	1600	445	---	550	740	---
20	**19,21**	52	370	2100	550	1200	1400	1550	445	---	550	730	---
22,4	**21,79**	46	370	1850	550	1200	1350	1550	450	---	550	720	---
25	**24,7**	40	370	1600	560	1200	1350	1500	455	---	550	720	---
28	**28,44**	35	370	1400	530	1100	1250	1450	440	---	530	680	---
31,5	**32,24**	31	370	1250	540	1100	1250	1400	440	---	530	680	---
35,5	**34,1**	29	370	1200	485	1000	1150	1300	400	---	480	620	---
40	**38,65**	26	367,7	1050	490	1000	1150	1250	405	---	480	620	---
45	**42,71**	23	370	940	490	950	1050	1200	530	---	590	580	---
50	**48,41**	21	365,2	820	490	940	1050	1200	520	---	590	570	---
56	**52,18**	19	370	780	465	880	990	1100	530	---	590	540	---
63	**59,14**	17	363,6	670	465	880	970	1100	530	---	590	540	---
71	**66,81**	15	365,8	600	430	790	880	980	485	---	540	485	---
80	**75,72**	13	362,1	520	430	780	870	970	480	---	530	485	---
90	**86,7**	12	322,9	410	445	630	690	---	435	---	480	465	---
100	**98,25**	10	362,1	405	440	620	690	---	430	---	475	460	---
112	**113,15**	8,8	370	360	415	590	650	---	410	---	450	435	---
125	**128,23**	7,8	359,9	310	415	580	650	---	405	---	445	430	---
140	**135,65**	7,4	370	300	385	540	600	---	375	---	415	400	---
160	**153,73**	6,5	357,6	255	380	540	590	---	375	---	410	400	---
180	**167,52**	6	369,2	240	355	500	550	---	350	---	380	370	---
200	**189,86**	5,3	356,9	205	350	495	550	---	345	---	380	370	---
224	**219,99**	4,5	370	185	330	460	510	---	325	---	355	335	---
250	**249,32**	4	356,1	160	330	460	500	---	325	---	350	335	---
280	**263,73**	3,8	366,3	155	305	430	470	---	300	---	330	310	---
315	**298,9**	3,3	354,6	130	305	425	470	---	300	---	325	310	---
355	**325,71**	3,1	365,9	125	285	395	440	---	280	---	305	290	---
400	**369,14**	2,7	353,8	105	285	395	435	---	280	---	305	290	---
XK300e..,n_1= 1200 1/min													**370 kNm**
14	**13,18**	91	343,5	3400	415	1350	1600	1800	50	---	315	660	---
16	**14,94**	80	370	3200	420	1350	1550	1800	69	---	325	670	---
18	**16,95**	71	326,5	2500	465	1350	1550	1750	315	---	520	680	---
20	**19,21**	62	370	2500	430	1350	1500	1700	320	---	520	680	---
22,4	**21,79**	55	370	2200	450	1300	1500	1650	325	---	530	680	---
25	**24,7**	49	370	1950	460	1300	1500	1650	330	---	530	690	---
28	**28,44**	42	370	1700	455	1250	1400	1550	330	---	520	650	---
31,5	**32,24**	37	370	1500	460	1200	1400	1550	335	---	520	650	---
35,5	**34,1**	35	370	1400	420	1100	1250	1400	300	---	475	600	---
40	**38,65**	31	367,7	1250	425	1100	1250	1400	305	---	480	600	---
45	**42,71**	28	370	1150	445	1050	1200	1350	485	---	620	560	---
50	**48,41**	25	365,2	980	450	1050	1200	1300	485	---	620	560	---
56	**52,18**	23	370	930	430	990	1100	1250	510	---	640	530	---
63	**59,14**	20	363,6	810	435	980	1100	1200	510	---	640	530	---
71	**66,81**	18	365,8	720	410	890	990	1100	475	---	580	480	---
80	**75,72**	16	362,1	630	410	880	980	1100	475	---	580	480	---
90	**86,7**	14	322,9	490	445	710	790	---	435	---	480	480	---
100	**98,25**	12	362,1	485	445	700	780	---	430	---	475	475	---
112	**113,15**	11	370	430	420	670	740	---	410	---	450	450	---
125	**128,23**	9,4	359,9	370	420	660	730	---	405	---	445	445	---
140	**135,65**	8,8	370	360	390	610	680	---	375	---	415	415	---
160	**153,73**	7,8	357,6	305	385	610	670	---	375	---	410	410	---
180	**167,52**	7,2	369,2	290	360	570	630	---	350	---	385	385	---
200	**189,86**	6,3	356,9	245	360	560	620	---	350	---	385	380	---
224	**219,99**	5,5	370	225	345	530	580	---	335	---	365	350	---
250	**249,32**	4,8	356,1	190	340	520	580	---	330	---	360	345	---
280	**263,73**	4,6	366,3	185	315	490	540	---	310	---	340	325	---
315	**298,9**	4	354,6	160	315	485	530	---	305	---	335	320	---
355	**325,71**	3,7	365,9	150	295	455	500	---	290	---	315	300	---
400	**369,14**	3,3	353,8	125	295	450	495	---	285	---	315	300	---

30593506/EN – 07/2023

XK300e..,n_1= 1500 1/min				P_{TH}20 °C / KW									370 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
14	**13,18**	114	343,5	4250	50	1400	1650	1900	0	---	0	500	---
16	**14,94**	100	370	4050	76	1400	1650	1900	0	---	0	520	---
18	**16,95**	88	326,5	3150	300	1450	1650	1900	205	---	560	550	---
20	**19,21**	78	370	3150	285	1400	1650	1900	220	---	560	560	---
22,4	**21,79**	69	370	2750	295	1400	1600	1850	245	---	590	570	---
25	**24,7**	61	370	2450	295	1400	1600	1850	245	---	600	590	---
28	**28,44**	53	370	2100	305	1350	1550	1750	255	---	590	570	---
31,5	**32,24**	47	370	1850	305	1350	1550	1750	255	---	600	580	---
35,5	**34,1**	44	370	1750	290	1250	1400	1600	235	---	550	530	---
40	**38,65**	39	367,7	1550	295	1250	1400	1600	235	---	550	540	---
45	**42,71**	35	370	1400	350	1200	1350	1500	395	---	660	510	---
50	**48,41**	31	365,2	1250	355	1200	1350	1500	400	---	660	520	---
56	**52,18**	29	370	1150	355	1100	1250	1400	465	---	700	490	---
63	**59,14**	25	363,6	1000	360	1100	1250	1400	470	---	700	490	---
71	**66,81**	22	365,8	900	355	1000	1150	1250	445	---	650	450	---
80	**75,72**	20	362,1	780	355	1000	1100	1250	445	---	650	450	---
90	**86,7**	17	322,9	610	435	810	900	---	410	---	465	490	---
100	**98,25**	15	362,1	610	435	800	890	---	410	---	460	485	---
112	**113,15**	13	370	540	415	760	850	---	390	---	440	460	---
125	**128,23**	12	359,9	460	415	750	840	---	390	---	440	460	---
140	**135,65**	11	370	450	385	700	780	---	360	---	405	425	---
160	**153,73**	9,8	357,6	385	385	700	770	---	360	---	405	425	---
180	**167,52**	9	369,2	365	360	650	720	---	340	---	380	395	---
200	**189,86**	7,9	356,9	310	355	640	710	---	340	---	380	395	---
224	**219,99**	6,8	370	280	355	610	670	---	335	---	370	365	---
250	**249,32**	6	356,1	235	350	600	670	---	335	---	370	360	---
280	**263,73**	5,7	366,3	230	325	560	620	---	310	---	345	340	---
315	**298,9**	5	354,6	195	325	560	620	---	310	---	340	335	---
355	**325,71**	4,6	365,9	185	305	530	580	---	290	---	320	315	---
400	**369,14**	4,1	353,8	160	300	520	580	---	290	---	320	310	---
XK300e..,n_1= 1800 1/min													**370 kNm**
14	**13,18**	137	343,5	5100	0	1250	1550	1900	0	---	0	285	---
16	**14,94**	120	370	4850	0	1250	1600	1900	0	---	0	325	---
18	**16,95**	106	326,5	3750	0	1450	1700	2000	0	---	425	415	---
20	**19,21**	94	370	3750	0	1450	1700	2000	0	---	435	430	---
22,4	**21,79**	83	370	3300	20	1450	1700	1950	0	---	470	450	---
25	**24,7**	73	370	2900	32	1450	1700	1950	0	---	475	455	---
28	**28,44**	63	370	2550	100	1400	1650	1850	0	---	485	445	---
31,5	**32,24**	56	370	2250	97	1400	1650	1850	0	---	495	460	---
35,5	**34,1**	53	370	2100	110	1300	1500	1700	0	---	460	425	---
40	**38,65**	47	367,7	1850	115	1300	1500	1700	0	---	470	435	---
45	**42,71**	42	370	1700	225	1250	1450	1650	290	---	680	430	---
50	**48,41**	37	365,2	1450	225	1250	1450	1600	295	---	690	440	---
56	**52,18**	34	370	1400	240	1200	1350	1500	395	---	730	425	---
63	**59,14**	30	363,6	1200	245	1200	1350	1500	395	---	730	430	---
71	**66,81**	27	365,8	1100	270	1100	1250	1350	390	---	690	405	---
80	**75,72**	24	362,1	940	270	1100	1200	1350	395	---	690	405	---
90	**86,7**	21	322,9	740	410	890	990	---	370	---	480	490	---
100	**98,25**	18	362,1	730	410	880	980	---	365	---	475	485	---
112	**113,15**	16	370	650	390	840	930	---	350	---	455	460	---
125	**128,23**	14	359,9	550	390	830	920	---	350	---	455	460	---
140	**135,65**	13	370	540	365	770	860	---	325	---	420	430	---
160	**153,73**	12	357,6	460	365	770	850	---	325	---	420	430	---
180	**167,52**	11	369,2	435	340	720	800	---	310	---	400	400	---
200	**189,86**	9,5	356,9	370	340	710	790	---	315	---	400	400	---
224	**219,99**	8,2	370	335	355	680	750	---	330	---	405	375	---
250	**249,32**	7,2	356,1	285	355	670	750	---	330	---	400	370	---
280	**263,73**	6,8	366,3	275	330	630	700	---	310	---	375	345	---
315	**298,9**	6	354,6	235	325	620	690	---	305	---	370	345	---
355	**325,71**	5,5	365,9	225	310	590	650	---	290	---	350	320	---
400	**369,14**	4,9	353,8	190	305	580	640	---	285	---	345	320	---

30593506/EN – 07/2023

XK310e..,n_1= 1000 1/min				P_{TH}20 °C / KW									450 kNm
					M1				M5			M4	
i_N	i_{ex}	n_2	M_{N2}	P_{N1}		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
12,5	**13,23**	76	385,3	3150	495	1350	1550	2000	0	---	0	760	---
14	**14,58**	69	430,2	3200	475	1300	1500	1950	0	---	0	730	---
16	**17,02**	59	450	2850	500	1300	1500	1900	330	---	440	740	---
18	**18,75**	53	450	2600	495	1250	1450	1850	325	---	425	730	---
20	**21,2**	47	450	2300	500	1250	1400	1750	330	---	435	720	---
22,4	**23,35**	43	450	2100	495	1200	1350	1700	315	---	430	700	---
25	**26,3**	38	450	1850	510	1200	1350	1700	325	---	440	710	---
28	**28,97**	35	450	1700	500	1150	1300	1650	315	---	435	690	---
31,5	**32,89**	30	450	1500	485	1100	1250	1600	315	---	425	670	---
35,5	**36,23**	28	450	1350	475	1100	1200	1500	310	---	410	650	---
40	**41,69**	24	450	1150	500	1050	1200	1450	500	---	590	620	---
45	**45,93**	22	450	1050	490	1000	1150	1400	490	---	570	610	---
50	**50,63**	20	450	970	485	980	1100	1350	540	---	620	580	---
56	**55,78**	18	450	880	475	950	1050	1300	520	---	600	570	---
63	**64,44**	16	450	760	475	890	1000	1200	530	---	590	540	---
71	**70,99**	14	449,8	690	465	870	970	1150	520	---	580	520	---
80	**85,15**	12	450	580	490	660	730	---	480	---	530	530	---
90	**93,81**	11	442,4	520	475	640	710	---	465	---	520	520	---
100	**105,65**	9,5	450	465	470	630	700	---	460	---	510	510	---
112	**116,4**	8,6	442,4	415	455	610	680	---	450	---	495	495	---
125	**132,12**	7,6	450	375	440	590	650	---	430	---	475	475	---
140	**145,56**	6,9	442,4	335	425	570	630	---	415	---	460	460	---
160	**162,61**	6,1	450	305	420	560	620	---	410	---	450	450	---
180	**179,15**	5,6	441,5	270	405	540	600	---	400	---	440	435	---
200	**209,33**	4,8	448,7	240	390	510	560	---	380	---	415	400	---
224	**230,61**	4,3	437	210	380	495	550	---	370	---	405	390	---
250	**261,77**	3,8	448,9	190	365	475	530	---	355	---	390	375	---
280	**288,39**	3,5	437,9	170	355	465	510	---	345	---	380	365	---
315	**322,18**	3,1	448,7	155	345	455	500	---	335	---	370	355	---
355	**354,94**	2,8	437	135	335	440	490	---	330	---	360	345	---
XK310e..,n_1= 1200 1/min													**450 kNm**
12,5	**13,23**	91	385,3	3800	280	1400	1650	2050	0	---	0	600	---
14	**14,58**	82	430,2	3850	280	1350	1600	1950	0	---	0	590	---
16	**17,02**	71	450	3450	390	1350	1600	1950	130	---	350	630	---
18	**18,75**	64	450	3100	345	1350	1550	1900	130	---	345	620	---
20	**21,2**	57	450	2750	360	1300	1550	1850	165	---	360	630	---
22,4	**23,35**	51	450	2500	355	1300	1500	1800	160	---	345	620	---
25	**26,3**	46	450	2250	370	1300	1500	1800	175	---	355	630	---
28	**28,97**	41	450	2000	365	1250	1450	1750	170	---	345	620	---
31,5	**32,89**	36	450	1800	365	1200	1400	1650	175	---	350	600	---
35,5	**36,23**	33	450	1600	360	1200	1350	1600	170	---	340	590	---
40	**41,69**	29	450	1400	415	1150	1300	1550	400	---	560	570	---
45	**45,93**	26	450	1250	405	1100	1250	1500	395	---	550	560	---
50	**50,63**	24	450	1150	415	1100	1250	1450	480	---	620	550	---
56	**55,78**	22	450	1050	405	1050	1200	1400	465	---	600	530	---
63	**64,44**	19	450	920	440	1000	1100	1300	500	---	620	520	---
71	**70,99**	17	449,8	830	430	970	1100	1250	490	---	600	500	---
80	**85,15**	14	450	700	475	730	820	---	460	---	510	540	---
90	**93,81**	13	442,4	620	465	710	800	---	450	---	500	530	---
100	**105,65**	11	450	560	460	710	790	---	445	---	500	520	---
112	**116,4**	10	442,4	500	450	690	770	---	435	---	485	510	---
125	**132,12**	9,1	450	450	430	660	730	---	415	---	465	485	---
140	**145,56**	8,2	442,4	400	420	640	710	---	405	---	455	470	---
160	**162,61**	7,4	450	365	415	630	700	---	400	---	445	460	---
180	**179,15**	6,7	441,5	325	400	610	680	---	390	---	435	450	---
200	**209,33**	5,7	448,7	285	395	580	640	---	380	---	420	410	---
224	**230,61**	5,2	437	250	385	560	620	---	370	---	410	400	---
250	**261,77**	4,6	448,9	230	370	540	600	---	355	---	395	385	---
280	**288,39**	4,2	437,9	200	360	530	580	---	345	---	385	375	---
315	**322,18**	3,7	448,7	185	355	520	570	---	340	---	375	365	---
355	**354,94**	3,4	437	165	345	500	560	---	330	---	365	355	---

30593506/EN – 07/2023

XK310e..,n_1= 1500 1/min				P_{TH}20 °C / KW									450 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
		min^{-1}	kNm	kW		RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
12,5	**13,23**	113	385,3	4750	0	1250	1600	2050	0	---	0	330	---
14	**14,58**	103	430,2	4800	0	1250	1550	2000	0	---	0	345	---
16	**17,02**	88	450	4300	73	1400	1700	2100	0	---	325	445	---
18	**18,75**	80	450	3900	60	1400	1650	2050	0	---	320	445	---
20	**21,2**	71	450	3450	81	1400	1650	2000	0	---	355	455	---
22,4	**23,35**	64	450	3150	84	1350	1600	1950	0	---	350	445	---
25	**26,3**	57	450	2800	140	1400	1600	1950	0	---	370	455	---
28	**28,97**	52	450	2550	135	1350	1550	1900	0	---	360	450	---
31,5	**32,89**	46	450	2200	160	1300	1500	1850	0	---	355	450	---
35,5	**36,23**	41	450	2000	160	1250	1500	1800	0	---	345	445	---
40	**41,69**	36	450	1750	235	1250	1450	1750	220	---	540	460	---
45	**45,93**	33	450	1600	230	1200	1400	1700	210	---	530	450	---
50	**50,63**	30	450	1450	260	1200	1350	1600	345	---	630	450	---
56	**55,78**	27	450	1300	255	1150	1300	1550	330	---	610	445	---
63	**64,44**	23	450	1150	350	1100	1250	1500	435	---	670	455	---
71	**70,99**	21	449,8	1050	340	1100	1250	1450	425	---	650	445	---
80	**85,15**	18	450	870	435	830	920	---	400	---	465	540	---
90	**93,81**	16	442,4	780	425	800	900	---	395	---	455	530	---
100	**105,65**	14	450	700	425	790	890	---	395	---	455	520	---
112	**116,4**	13	442,4	630	415	770	870	---	385	---	445	510	---
125	**132,12**	11	450	560	400	740	830	---	370	---	425	490	---
140	**145,56**	10	442,4	500	395	720	810	---	365	---	415	480	---
160	**162,61**	9,2	450	455	390	710	790	---	365	---	415	470	---
180	**179,15**	8,4	441,5	405	380	690	770	---	355	---	405	455	---
200	**209,33**	7,2	448,7	355	395	660	740	---	370	---	415	420	---
224	**230,61**	6,5	437	315	385	650	720	---	360	---	405	410	---
250	**261,77**	5,7	448,9	285	370	620	690	---	350	---	390	395	---
280	**288,39**	5,2	437,9	250	360	600	670	---	340	---	380	385	---
315	**322,18**	4,7	448,7	230	355	590	660	---	330	---	370	375	---
355	**354,94**	4,2	437	205	345	580	640	---	325	---	360	365	---
XK310e..,n_1= 1800 1/min													**450 kNm**
12,5	**13,23**	136	385,3	5700	0	950	1350	1950	0	---	0	0	---
14	**14,58**	123	430,2	5750	0	940	1300	1900	0	---	0	0	---
16	**17,02**	106	450	5150	0	1300	1650	2100	0	---	0	170	---
18	**18,75**	96	450	4700	0	1300	1600	2050	0	---	0	195	---
20	**21,2**	85	450	4150	0	1300	1650	2050	0	---	0	245	---
22,4	**23,35**	77	450	3750	0	1300	1600	2000	0	---	0	245	---
25	**26,3**	68	450	3350	0	1350	1650	2050	0	---	0	275	---
28	**28,97**	62	450	3050	0	1300	1600	2000	0	---	0	270	---
31,5	**32,89**	55	450	2650	0	1300	1550	1900	0	---	0	275	---
35,5	**36,23**	50	450	2400	0	1250	1500	1850	0	---	0	270	---
40	**41,69**	43	450	2100	0	1300	1500	1850	0	---	485	305	---
45	**45,93**	39	450	1900	0	1250	1450	1800	0	---	475	295	---
50	**50,63**	36	450	1750	76	1250	1450	1750	185	---	600	315	---
56	**55,78**	32	450	1600	76	1200	1400	1700	170	---	580	310	---
63	**64,44**	28	450	1400	215	1200	1350	1600	325	---	680	360	---
71	**70,99**	25	449,8	1250	215	1150	1350	1550	320	---	670	355	---
80	**85,15**	21	450	1050	375	890	1000	---	320	---	395	520	---
90	**93,81**	19	442,4	930	370	870	980	---	315	---	385	510	---
100	**105,65**	17	450	840	375	860	970	---	315	---	385	510	---
112	**116,4**	15	442,4	750	370	830	940	---	310	---	380	500	---
125	**132,12**	14	450	670	360	800	900	---	305	---	370	485	---
140	**145,56**	12	442,4	600	350	780	880	---	300	---	360	470	---
160	**162,61**	11	450	550	350	770	860	---	305	---	370	460	---
180	**179,15**	10	441,5	485	345	740	840	---	300	---	360	450	---
200	**209,33**	8,6	448,7	430	380	730	810	---	345	---	400	425	---
224	**230,61**	7,8	437	380	375	710	790	---	340	---	390	415	---
250	**261,77**	6,9	448,9	340	360	680	760	---	325	---	375	395	---
280	**288,39**	6,2	437,9	305	350	660	740	---	320	---	365	385	---
315	**322,18**	5,6	448,7	280	345	650	730	---	315	---	355	375	---
355	**354,94**	5,1	437	245	335	640	710	---	305	---	345	365	---

30593506/EN – 07/2023

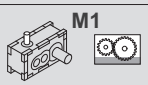
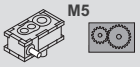
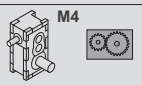
XK320e..,n_1= 1000 1/min				P_{TH}20 °C / KW									500 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
14	**14,13**	71	409,9	3150	510	1350	1600	2000	0	---	0	780	---
16	**15,48**	65	453,7	3200	495	1350	1550	2000	0	---	31	770	---
18	**18,17**	55	486,9	2900	520	1300	1500	1900	350	---	450	770	---
20	**19,9**	50	500	2700	520	1300	1500	1850	345	---	450	760	---
22,4	**22,63**	44	500	2400	520	1250	1450	1800	345	---	455	740	---
25	**24,79**	40	500	2200	520	1250	1400	1750	340	---	455	730	---
28	**28,08**	36	500	1950	530	1200	1400	1700	340	---	460	730	---
31,5	**30,76**	33	500	1750	520	1200	1350	1700	340	---	460	720	---
35,5	**35,12**	28	500	1550	500	1150	1300	1600	330	---	445	680	---
40	**38,46**	26	500	1400	500	1100	1250	1550	330	---	440	680	---
45	**44,52**	22	500	1200	520	1100	1200	1450	520	---	600	640	---
50	**48,76**	21	500	1100	510	1050	1200	1450	510	---	600	630	---
56	**54,06**	18	500	1000	500	1000	1150	1350	560	---	630	600	---
63	**59,21**	17	500	920	495	990	1100	1350	550	---	620	590	---
71	**68,8**	15	500	800	490	910	1000	1200	540	---	610	550	---
80	**75,36**	13	500	730	480	900	1000	1200	530	---	600	540	---
90	**90,93**	11	500	600	500	670	750	---	490	---	540	540	---
100	**99,58**	10	500	550	495	660	740	---	485	---	540	530	---
112	**112,81**	8,9	500	485	485	650	720	---	475	---	520	520	---
125	**123,56**	8,1	500	445	475	630	710	---	465	---	510	510	---
140	**141,08**	7,1	500	390	450	600	670	---	440	---	485	485	---
160	**154,51**	6,5	499	355	440	590	660	---	430	---	475	475	---
180	**173,63**	5,8	500	315	430	570	640	---	420	---	460	460	---
200	**190,17**	5,3	497	285	420	560	620	---	410	---	455	450	---
224	**223,52**	4,5	500	250	400	520	570	---	385	---	425	405	---
250	**244,81**	4,1	497	225	390	510	560	---	380	---	415	400	---
280	**279,52**	3,6	500	200	370	485	540	---	365	---	395	380	---
315	**306,14**	3,3	493,6	180	365	480	530	---	355	---	390	375	---
355	**344,02**	2,9	500	160	355	465	510	---	345	---	380	360	---
400	**376,78**	2,7	492,6	145	350	455	500	---	340	---	370	355	---
XK320e..,n_1= 1200 1/min													500 kNm
14	**14,13**	85	409,9	3750	295	1450	1700	2050	0	---	0	610	---
16	**15,48**	78	453,7	3800	295	1400	1650	2000	0	---	0	610	---
18	**18,17**	66	486,9	3500	375	1400	1650	1950	150	---	370	650	---
20	**19,9**	60	500	3250	375	1400	1600	1950	160	---	370	650	---
22,4	**22,63**	53	500	2850	380	1350	1550	1850	180	---	380	650	---
25	**24,79**	48	500	2600	375	1350	1550	1850	175	---	375	640	---
28	**28,08**	43	500	2300	385	1350	1550	1800	190	---	375	650	---
31,5	**30,76**	39	500	2100	385	1300	1500	1750	190	---	375	650	---
35,5	**35,12**	34	500	1850	385	1250	1450	1700	190	---	370	620	---
40	**38,46**	31	500	1700	380	1250	1400	1650	190	---	365	610	---
45	**44,52**	27	500	1450	430	1200	1350	1550	415	---	580	590	---
50	**48,76**	25	500	1350	425	1150	1300	1550	415	---	570	580	---
56	**54,06**	22	500	1200	430	1100	1250	1450	495	---	640	560	---
63	**59,21**	20	500	1100	425	1100	1250	1450	485	---	620	550	---
71	**68,8**	17	500	950	455	1000	1150	1300	520	---	630	530	---
80	**75,36**	16	500	870	450	1000	1100	1300	510	---	630	520	---
90	**90,93**	13	500	720	485	750	840	---	470	---	530	550	---
100	**99,58**	12	500	660	480	740	820	---	465	---	520	540	---
112	**112,81**	11	500	580	470	720	810	---	455	---	510	530	---
125	**123,56**	9,7	500	530	465	710	790	---	450	---	500	520	---
140	**141,08**	8,5	500	465	445	670	750	---	425	---	480	495	---
160	**154,51**	7,8	499	425	435	660	740	---	420	---	470	490	---
180	**173,63**	6,9	500	380	425	640	720	---	410	---	455	470	---
200	**190,17**	6,3	497	345	415	630	700	---	405	---	450	465	---
224	**223,52**	5,4	500	295	405	590	650	---	390	---	430	420	---
250	**244,81**	4,9	497	270	400	580	640	---	385	---	425	415	---
280	**279,52**	4,3	500	240	380	550	610	---	365	---	400	395	---
315	**306,14**	3,9	493,6	215	370	540	600	---	360	---	395	385	---
355	**344,02**	3,5	500	195	360	530	580	---	345	---	385	375	---
400	**376,78**	3,2	492,6	175	355	520	570	---	340	---	375	365	---

30593506/EN – 07/2023

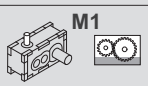
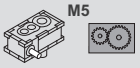
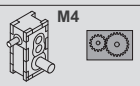
XK320e..,n_1= 1500 1/min				P_{TH}20 °C / KW									500 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1				M5			M4	
						RAD	AXIAL	AXIAL /HT		RAD /MA	RAD /FO		RAD /MA
		min^{-1}	kNm	kW									
14	**14,13**	106	409,9	4700	0	1300	1650	2100	0	---	0	345	---
16	**15,48**	97	453,7	4750	0	1300	1600	2050	0	---	0	360	---
18	**18,17**	83	486,9	4350	79	1450	1750	2100	0	---	345	465	---
20	**19,9**	75	500	4100	34	1450	1700	2100	0	---	345	465	---
22,4	**22,63**	66	500	3600	100	1450	1700	2050	0	---	375	470	---
25	**24,79**	61	500	3300	105	1400	1650	2000	0	---	375	465	---
28	**28,08**	53	500	2900	155	1400	1650	2000	0	---	390	470	---
31,5	**30,76**	49	500	2650	155	1400	1650	1950	0	---	385	475	---
35,5	**35,12**	43	500	2300	175	1350	1550	1850	0	---	375	465	---
40	**38,46**	39	500	2100	175	1300	1550	1800	0	---	375	465	---
45	**44,52**	34	500	1850	250	1300	1500	1750	235	---	560	475	---
50	**48,76**	31	500	1650	245	1250	1450	1700	230	---	550	470	---
56	**54,06**	28	500	1500	270	1200	1400	1650	355	---	650	470	---
63	**59,21**	25	500	1400	270	1200	1350	1600	350	---	640	465	---
71	**68,8**	22	500	1200	365	1150	1300	1500	450	---	690	470	---
80	**75,36**	20	500	1100	360	1150	1250	1450	445	---	680	465	---
90	**90,93**	16	500	900	445	840	950	---	415	---	480	550	---
100	**99,58**	15	500	830	440	830	930	---	410	---	475	540	---
112	**112,81**	13	500	730	435	810	910	---	405	---	465	530	---
125	**123,56**	12	500	670	430	800	900	---	400	---	460	530	---
140	**141,08**	11	500	580	410	760	850	---	380	---	440	500	---
160	**154,51**	9,7	499	530	405	740	830	---	375	---	435	495	---
180	**173,63**	8,6	500	475	400	720	810	---	375	---	430	480	---
200	**190,17**	7,9	497	430	395	710	800	---	370	---	420	470	---
224	**223,52**	6,7	500	370	405	680	750	---	380	---	425	430	---
250	**244,81**	6,1	497	335	400	670	740	---	375	---	415	425	---
280	**279,52**	5,4	500	295	380	630	700	---	355	---	395	405	---
315	**306,14**	4,9	493,6	270	375	620	690	---	350	---	390	395	---
355	**344,02**	4,4	500	240	360	610	670	---	340	---	380	385	---
400	**376,78**	4	492,6	215	355	600	660	---	335	---	375	375	---
XK320e..,n_1= 1800 1/min													500 kNm
14	**14,13**	127	409,9	5650	0	1000	1400	1950	0	---	0	0	---
16	**15,48**	116	453,7	5700	0	1000	1400	1950	0	---	0	0	---
18	**18,17**	99	486,9	5250	0	1350	1700	2150	0	---	0	190	---
20	**19,9**	90	500	4900	0	1350	1700	2100	0	---	0	210	---
22,4	**22,63**	80	500	4300	0	1350	1650	2050	0	---	0	260	---
25	**24,79**	73	500	3950	0	1350	1650	2050	0	---	0	265	---
28	**28,08**	64	500	3450	0	1400	1700	2050	0	---	0	290	---
31,5	**30,76**	59	500	3150	0	1350	1650	2000	0	---	0	290	---
35,5	**35,12**	51	500	2800	0	1350	1600	1950	0	---	52	295	---
40	**38,46**	47	500	2550	0	1300	1550	1900	0	---	57	290	---
45	**44,52**	40	500	2200	25	1350	1550	1850	35	---	510	320	---
50	**48,76**	37	500	2000	29	1300	1550	1850	38	---	510	320	---
56	**54,06**	33	500	1800	96	1250	1450	1750	195	---	620	330	---
63	**59,21**	30	500	1650	92	1250	1450	1700	185	---	610	330	---
71	**68,8**	26	500	1450	230	1250	1400	1650	340	---	700	375	---
80	**75,36**	24	500	1300	230	1200	1350	1600	340	---	690	370	---
90	**90,93**	20	500	1100	390	910	1050	---	330	---	405	540	---
100	**99,58**	18	500	990	385	900	1000	---	330	---	405	530	---
112	**112,81**	16	500	870	385	880	990	---	330	---	400	520	---
125	**123,56**	15	500	800	385	860	970	---	325	---	395	520	---
140	**141,08**	13	500	700	370	820	930	---	315	---	380	495	---
160	**154,51**	12	499	640	365	810	910	---	310	---	375	490	---
180	**173,63**	10	500	570	360	780	890	---	315	---	380	470	---
200	**190,17**	9,5	497	520	360	770	870	---	315	---	375	465	---
224	**223,52**	8,1	500	445	390	750	830	---	355	---	410	435	---
250	**244,81**	7,4	497	405	385	730	820	---	350	---	400	425	---
280	**279,52**	6,4	500	355	370	700	780	---	335	---	385	405	---
315	**306,14**	5,9	493,6	320	365	690	770	---	330	---	375	400	---
355	**344,02**	5,2	500	290	355	670	740	---	320	---	365	385	---
400	**376,78**	4,8	492,6	260	345	660	730	---	315	---	360	380	---

30593506/EN – 07/2023

6.4 X.T..

XT100e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
14	**13,47**	74	7,2	58	60	76	52	66	60	83	71
16	**15,08**	66	7,2	52	62	78	54	68	62	86	73
18	**17,05**	59	7,2	46	56	71	49	62	56	77	66
20	**19,09**	52	7,2	41	58	72	50	64	58	79	68
22,4	**21,94**	46	7,2	36	52	65	48	60	52	71	61
25	**24,55**	41	7,2	32	53	66	49	61	54	73	63
28	**27,12**	37	7,2	29	47	59	44	54	47	64	55
31,5	**30,35**	33	7,2	26	48	60	45	56	49	66	57
35,5	**34,35**	29	7,2	23	42	52	40	49	42	57	49
40	**38,45**	26	7,2	20	43	53	41	50	43	59	51
45	**42,96**	23	7,2	18	38	48	37	45	39	52	45
50	**48,08**	21	7,2	16	39	49	38	46	40	54	46
56	**52,49**	19	7,2	15	35	44	34	42	36	48	41
63	**58,74**	17	7,2	13	36	45	35	43	37	49	42
71	**67,2**	15	7,2	12	31	38	30	37	31	42	37
80	**75,21**	13	7,2	10	32	39	31	38	32	43	37
XT100e..,n_1= 1200 1/min											**7.2 kNm**
14	**13,47**	89	7,2	70	60	85	46	71	60	94	80
16	**15,08**	80	7,2	62	62	88	48	73	62	96	82
18	**17,05**	70	7,2	55	56	80	44	67	56	87	75
20	**19,09**	63	7,2	49	58	82	46	69	58	89	77
22,4	**21,94**	55	7,2	43	53	73	46	66	53	81	69
25	**24,55**	49	7,2	38	54	75	48	68	55	83	71
28	**27,12**	44	7,2	35	48	66	43	60	49	73	63
31,5	**30,35**	40	7,2	31	49	68	44	62	50	75	65
35,5	**34,35**	35	7,2	27	43	59	40	55	44	65	56
40	**38,45**	31	7,2	24	44	60	41	57	45	67	58
45	**42,96**	28	7,2	22	39	54	37	51	40	60	52
50	**48,08**	25	7,2	19	40	55	38	52	41	61	53
56	**52,49**	23	7,2	18	36	50	34	47	37	55	47
63	**58,74**	20	7,2	16	37	51	35	48	38	56	49
71	**67,2**	18	7,2	14	32	44	31	42	33	48	42
80	**75,21**	16	7,2	13	33	45	31	43	33	49	43

30593506/EN – 07/2023

XT100e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						7.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
14	**13,47**	111	7,2	87	57	98	28	72	56	105	90
16	**15,08**	99	7,2	78	60	100	30	75	59	110	93
18	**17,05**	88	7,2	69	54	91	30	70	54	100	85
20	**19,09**	79	7,2	61	57	94	32	72	56	105	87
22,4	**21,94**	68	7,2	53	53	85	41	73	53	94	80
25	**24,55**	61	7,2	48	54	87	43	75	55	96	82
28	**27,12**	55	7,2	43	48	77	38	67	49	85	73
31,5	**30,35**	49	7,2	39	49	79	39	68	50	87	75
35,5	**34,35**	44	7,2	34	43	69	39	63	45	76	65
40	**38,45**	39	7,2	30	45	70	40	64	46	78	67
45	**42,96**	35	7,2	27	40	63	36	58	41	70	60
50	**48,08**	31	7,2	24	41	64	37	59	42	71	61
56	**52,49**	29	7,2	23	37	58	34	54	38	64	55
63	**58,74**	26	7,2	20	38	59	35	55	39	66	57
71	**67,2**	22	7,2	18	33	51	31	48	34	57	49
80	**75,21**	20	7,2	16	33	52	31	49	34	58	50
XT100e..,n_1= 1800 1/min											7.2 kNm
14	**13,47**	134	7,2	105	50	110	0	65	48	115	98
16	**15,08**	119	7,2	93	52	110	0	69	51	120	100
18	**17,05**	106	7,2	82	48	100	7	66	48	110	92
20	**19,09**	94	7,2	74	51	105	8	69	50	115	95
22,4	**21,94**	82	7,2	64	50	94	29	76	51	105	89
25	**24,55**	73	7,2	57	52	97	31	78	53	105	91
28	**27,12**	66	7,2	52	46	86	28	71	47	95	81
31,5	**30,35**	59	7,2	46	48	88	29	72	49	98	83
35,5	**34,35**	52	7,2	41	43	77	34	68	45	86	73
40	**38,45**	47	7,2	37	44	79	36	70	46	88	75
45	**42,96**	42	7,2	33	40	71	32	63	41	79	68
50	**48,08**	37	7,2	29	41	72	33	65	42	81	69
56	**52,49**	34	7,2	27	37	65	32	60	39	73	63
63	**58,74**	31	7,2	24	38	67	33	61	39	74	64
71	**67,2**	27	7,2	21	33	57	30	54	34	64	55
80	**75,21**	24	7,2	19	34	59	31	55	35	66	56

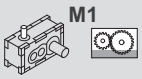
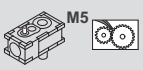
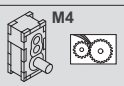
30593506/EN – 07/2023

XT110e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,5**	65	8,46	59	66	82	57	72	65	90	77
18	**17,36**	58	8,86	55	67	84	58	74	67	91	78
20	**19,62**	51	9	50	61	76	54	68	61	83	72
22,4	**21,97**	46	8,9	44	62	77	55	69	62	85	73
25	**25,24**	40	8,7	37	56	70	52	65	57	77	66
28	**28,26**	35	8,92	34	57	71	53	66	57	78	67
31,5	**31,21**	32	9	31	51	63	47	59	51	70	60
35,5	**34,94**	29	8,94	28	51	64	48	60	52	71	61
40	**39,53**	25	9	25	45	56	43	53	46	62	53
45	**44,26**	23	8,94	22	46	57	44	54	46	62	54
50	**49,44**	20	9	20	41	51	40	49	42	56	49
56	**55,35**	18	8,98	18	42	52	40	49	42	57	49
63	**60,4**	17	9	16	38	47	37	45	39	52	45
71	**67,62**	15	8,99	15	38	48	37	45	39	52	45
80	**77,33**	13	9	13	33	41	32	40	34	46	39
90	**86,58**	12	8,99	11	34	42	33	40	34	46	40
XT110e..,n_1= 1200 1/min											**9 kNm**
16	**15,5**	77	8,46	71	66	93	51	78	65	100	87
18	**17,36**	69	8,86	66	67	94	53	79	66	105	88
20	**19,62**	61	9	60	61	86	49	73	61	94	81
22,4	**21,97**	55	8,9	53	62	87	50	74	62	96	82
25	**25,24**	48	8,7	45	57	79	51	72	58	87	75
28	**28,26**	42	8,92	41	58	80	52	73	59	89	76
31,5	**31,21**	38	9	38	52	72	47	65	53	79	68
35,5	**34,94**	34	8,94	33	53	73	47	66	53	80	69
40	**39,53**	30	9	30	46	64	43	60	47	70	61
45	**44,26**	27	8,94	26	47	65	44	60	48	71	61
50	**49,44**	24	9	24	42	58	40	55	43	64	56
56	**55,35**	22	8,98	21	43	59	40	55	44	65	56
63	**60,4**	20	9	20	39	54	37	51	40	59	51
71	**67,62**	18	8,99	17	40	54	38	51	40	60	52
80	**77,33**	16	9	15	34	47	33	45	35	52	45
90	**86,58**	14	8,99	14	35	48	33	46	35	53	45

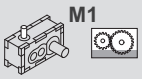
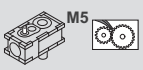
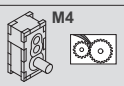
30593506/EN – 07/2023

XT110e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						9 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,5**	97	8,46	89	64	105	34	80	62	115	98
18	**17,36**	86	8,86	83	65	110	35	82	64	120	100
20	**19,62**	76	9	75	60	99	35	77	60	110	92
22,4	**21,97**	68	8,9	66	61	100	36	78	61	110	93
25	**25,24**	59	8,7	56	57	92	46	79	58	100	87
28	**28,26**	53	8,92	51	58	93	47	80	59	105	88
31,5	**31,21**	48	9	47	52	83	42	73	53	92	79
35,5	**34,94**	43	8,94	42	53	84	43	74	54	93	80
40	**39,53**	38	9	37	47	74	42	68	48	82	71
45	**44,26**	34	8,94	33	48	75	43	69	49	83	71
50	**49,44**	30	9	30	43	68	39	63	44	75	65
56	**55,35**	27	8,98	26	44	69	39	63	45	76	66
63	**60,4**	25	9	24	40	63	37	58	41	69	60
71	**67,62**	22	8,99	22	40	63	38	59	42	70	60
80	**77,33**	19	9	19	35	55	33	52	36	61	53
90	**86,58**	17	8,99	17	36	56	34	53	37	62	53
XT110e..,n_1= 1800 1/min											**9 kNm**
16	**15,5**	116	8,46	105	56	115	6	75	55	130	105
18	**17,36**	104	8,86	100	58	120	7	77	57	130	110
20	**19,62**	92	9	90	54	110	12	74	54	120	100
22,4	**21,97**	82	8,9	79	56	110	13	76	55	120	100
25	**25,24**	71	8,7	67	55	105	34	84	56	115	97
28	**28,26**	64	8,92	62	57	105	35	85	57	115	98
31,5	**31,21**	58	9	56	51	93	33	77	52	105	88
35,5	**34,94**	52	8,94	50	52	94	34	78	53	105	89
40	**39,53**	46	9	44	47	83	39	74	48	93	79
45	**44,26**	41	8,94	39	48	84	40	75	49	94	80
50	**49,44**	36	9	36	43	76	36	69	45	85	73
56	**55,35**	33	8,98	32	44	77	36	69	45	86	74
63	**60,4**	30	9	29	40	70	35	65	42	78	67
71	**67,62**	27	8,99	26	41	71	36	66	42	79	68
80	**77,33**	23	9	23	36	62	33	58	37	69	59
90	**86,58**	21	8,99	20	36	63	33	59	37	70	60

30593506/EN – 07/2023

XT120e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,72**	79	11,5	98	81	105	76	85	83	100	92
14	**14,48**	69	12,9	97	83	105	78	87	85	105	94
16	**16,36**	61	11,8	78	76	97	72	81	76	92	84
18	**18,63**	54	13	76	78	98	74	82	78	94	86
20	**20,3**	49	13	69	74	94	70	78	74	89	81
22,4	**23,11**	43	13	61	75	95	72	80	75	91	83
25	**25,75**	39	13,6	57	71	90	67	75	71	85	78
28	**29,32**	34	13,1	48	73	91	69	76	72	87	80
31,5	**30,96**	32	13,6	48	63	80	59	66	63	76	69
35,5	**35,25**	28	13,1	40	64	81	61	67	64	77	71
40	**40,01**	25	12,7	34	57	72	55	60	56	67	62
45	**45,55**	22	13,1	31	58	73	56	61	57	68	63
50	**47,92**	21	13	30	52	65	50	55	51	61	56
56	**54,55**	18	13,1	26	53	66	51	56	52	62	57
63	**61,35**	16	12,5	22	47	59	45	50	46	55	51
71	**69,84**	14	13,1	21	48	60	46	50	47	56	52
80	**82,12**	12	11,3	15	45	---	43	---	44	---	---
90	**93,49**	11	12,6	15	46	---	44	---	44	---	---
100	**104,18**	9,6	12,9	14	43	---	41	---	42	---	---
112	**118,6**	8,4	12,6	12	44	---	42	---	43	---	---
125	**125,27**	8	13,6	12	39	---	37	---	38	---	---
140	**142,6**	7	12,6	10	40	---	38	---	39	---	---
160	**149,93**	6,7	13,6	10	36	---	35	---	35	---	---
180	**170,68**	5,9	12,6	8	37	---	35	---	36	---	---
200	**206,42**	4,8	12,9	7	33	---	31	---	32	---	---
224	**234,98**	4,3	12,6	6	33	---	32	---	32	---	---
250	**248,19**	4	13,6	6	30	---	29	---	29	---	---
280	**282,53**	3,5	12,6	5	30	---	29	---	29	---	---
315	**297,06**	3,4	13,6	5	28	---	27	---	27	---	---
355	**338,17**	3	12,6	4	29	---	27	---	28	---	---
XT120e..,n_1= 1200 1/min											13.6 kNm
12,5	**12,72**	94	11,5	120	76	115	69	80	83	115	97
14	**14,48**	83	12,9	115	79	120	71	82	85	115	99
16	**16,36**	73	11,8	94	75	110	72	80	78	105	89
18	**18,63**	64	13	91	77	110	73	82	79	105	91
20	**20,3**	59	13	83	73	105	70	78	76	100	86
22,4	**23,11**	52	13	73	75	105	72	79	77	105	88
25	**25,75**	47	13,6	69	70	100	67	75	72	98	83
28	**29,32**	41	13,1	58	72	105	68	76	74	99	84
31,5	**30,96**	39	13,6	57	62	90	59	66	64	87	73
35,5	**35,25**	34	13,1	48	63	92	60	67	65	89	75
40	**40,01**	30	12,7	41	58	81	56	62	58	77	66
45	**45,55**	26	13,1	37	59	82	57	63	59	78	67
50	**47,92**	25	13	36	53	74	51	56	53	70	60
56	**54,55**	22	13,1	32	54	75	52	57	54	71	61
63	**61,35**	20	12,5	27	48	67	47	51	48	64	54
71	**69,84**	17	13,1	25	49	68	47	52	49	64	55
80	**82,12**	15	11,3	18	46	---	45	---	46	---	---
90	**93,49**	13	12,6	18	47	---	45	---	46	---	---
100	**104,18**	12	12,9	16	44	---	43	---	44	---	---
112	**118,6**	10	12,6	14	45	---	43	---	44	---	---
125	**125,27**	9,6	13,6	14	40	---	39	---	40	---	---
140	**142,6**	8,4	12,6	12	41	---	39	---	40	---	---
160	**149,93**	8	13,6	12	37	---	36	---	37	---	---
180	**170,68**	7	12,6	10	38	---	37	---	38	---	---
200	**206,42**	5,8	12,9	8	34	---	33	---	33	---	---
224	**234,98**	5,1	12,6	7	35	---	33	---	34	---	---
250	**248,19**	4,8	13,6	7	31	---	30	---	30	---	---
280	**282,53**	4,2	12,6	6	32	---	30	---	31	---	---
315	**297,06**	4	13,6	6	29	---	28	---	28	---	---
355	**338,17**	3,5	12,6	5	30	---	28	---	29	---	---

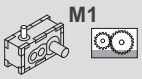
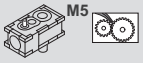
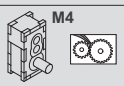
30593506/EN – 07/2023

XT120e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						13.6 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,72**	118	11,5	145	63	130	54	80	79	135	110
14	**14,48**	104	12,9	145	65	130	56	82	81	135	115
16	**16,36**	92	11,8	115	68	125	64	87	77	125	105
18	**18,63**	81	13	115	70	125	66	89	78	125	105
20	**20,3**	74	13	105	67	120	63	85	75	120	100
22,4	**23,11**	65	13	91	69	120	65	87	77	120	100
25	**25,75**	58	13,6	86	64	115	61	81	72	115	97
28	**29,32**	51	13,1	73	67	115	63	83	74	115	99
31,5	**30,96**	48	13,6	71	58	100	54	72	64	100	85
35,5	**35,25**	43	13,1	60	59	105	56	73	65	105	87
40	**40,01**	37	12,7	52	57	93	55	70	59	91	77
45	**45,55**	33	13,1	47	58	95	56	71	61	92	79
50	**47,92**	31	13	45	53	85	51	64	55	82	70
56	**54,55**	27	13,1	39	54	86	52	65	55	84	71
63	**61,35**	24	12,5	33	48	77	47	58	50	75	64
71	**69,84**	21	13,1	31	49	79	48	59	50	76	65
80	**82,12**	18	11,3	23	47	---	46	---	48	---	---
90	**93,49**	16	12,6	22	48	---	47	---	49	---	---
100	**104,18**	14	12,9	20	45	---	44	---	46	---	---
112	**118,6**	13	12,6	17	46	---	45	---	47	---	---
125	**125,27**	12	13,6	18	41	---	40	---	42	---	---
140	**142,6**	11	12,6	15	42	---	41	---	42	---	---
160	**149,93**	10	13,6	15	38	---	37	---	39	---	---
180	**170,68**	8,8	12,6	12	39	---	38	---	39	---	---
200	**206,42**	7,3	12,9	10	35	---	34	---	35	---	---
224	**234,98**	6,4	12,6	9	36	---	35	---	36	---	---
250	**248,19**	6	13,6	9	32	---	31	---	32	---	---
280	**282,53**	5,3	12,6	7	33	---	32	---	32	---	---
315	**297,06**	5	13,6	8	30	---	29	---	30	---	---
355	**338,17**	4,4	12,6	6	31	---	30	---	30	---	---
XT120e..,n_1= 1800 1/min											**13.6 kNm**
12,5	**12,72**	142	11,5	175	42	140	33	77	72	150	120
14	**14,48**	124	12,9	175	45	140	35	79	75	155	125
16	**16,36**	110	11,8	140	55	135	52	92	72	140	115
18	**18,63**	97	13	135	58	135	54	94	75	140	120
20	**20,3**	89	13	125	56	130	53	90	71	135	115
22,4	**23,11**	78	13	110	59	135	55	93	74	135	115
25	**25,75**	70	13,6	105	55	125	52	86	69	130	110
28	**29,32**	61	13,1	87	58	130	54	89	71	130	110
31,5	**30,96**	58	13,6	86	50	110	47	77	61	115	96
35,5	**35,25**	51	13,1	73	52	115	48	79	63	115	98
40	**40,01**	45	12,7	62	53	105	51	77	58	105	88
45	**45,55**	40	13,1	56	54	105	53	79	60	105	89
50	**47,92**	38	13	53	50	95	49	72	54	93	80
56	**54,55**	33	13,1	47	51	96	50	73	55	95	81
63	**61,35**	29	12,5	40	46	87	46	66	50	85	72
71	**69,84**	26	13,1	37	47	88	47	66	51	86	73
80	**82,12**	22	11,3	27	47	---	47	---	50	---	---
90	**93,49**	19	12,6	27	48	---	48	---	51	---	---
100	**104,18**	17	12,9	24	45	---	45	---	48	---	---
112	**118,6**	15	12,6	21	46	---	46	---	48	---	---
125	**125,27**	14	13,6	21	41	---	41	---	43	---	---
140	**142,6**	13	12,6	17	42	---	41	---	44	---	---
160	**149,93**	12	13,6	18	39	---	38	---	40	---	---
180	**170,68**	11	12,6	15	39	---	39	---	41	---	---
200	**206,42**	8,7	12,9	12	36	---	35	---	37	---	---
224	**234,98**	7,7	12,6	11	37	---	36	---	37	---	---
250	**248,19**	7,3	13,6	11	33	---	32	---	33	---	---
280	**282,53**	6,4	12,6	9	34	---	33	---	34	---	---
315	**297,06**	6,1	13,6	9	31	---	30	---	31	---	---
355	**338,17**	5,3	12,6	7	31	---	31	---	32	---	---

30593506/EN – 07/2023

XT130e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,9**	63	14,4	98	90	115	85	95	92	110	100
18	**18,06**	55	15,7	94	90	115	85	94	92	110	100
20	**20,45**	49	14,8	78	84	105	80	89	84	100	93
22,4	**23,23**	43	15,8	74	84	105	80	88	84	100	92
25	**25,37**	39	16,4	70	81	105	78	86	81	98	89
28	**28,82**	35	15,8	59	81	100	78	86	81	97	89
31,5	**32,19**	31	17	57	78	98	75	82	78	93	85
35,5	**36,56**	27	15,9	47	78	97	74	82	77	93	85
40	**38,71**	26	17	48	69	87	66	73	69	83	77
45	**43,96**	23	15,9	39	69	87	66	73	69	83	76
50	**50,02**	20	15,9	34	62	78	60	66	62	74	68
56	**56,81**	18	15,9	30	62	78	60	66	61	73	67
63	**59,9**	17	16,3	30	57	71	55	60	56	67	61
71	**68,03**	15	16	26	57	71	55	60	56	67	61
80	**76,69**	13	15,7	22	51	64	50	54	51	60	56
90	**87,09**	11	15,9	20	51	64	49	54	51	60	55
100	**102,65**	9,7	14,2	15	49	---	47	---	48	---	---
112	**116,58**	8,6	15,7	15	49	---	47	---	48	---	---
125	**130,23**	7,7	16,1	14	47	---	45	---	46	---	---
140	**147,9**	6,8	15,7	12	47	---	45	---	46	---	---
160	**156,58**	6,4	16,5	12	42	---	41	---	41	---	---
180	**177,83**	5,6	15,7	10	42	---	41	---	41	---	---
200	**187,42**	5,3	16,5	10	39	---	38	---	39	---	---
224	**212,85**	4,7	15,7	8	39	---	38	---	39	---	---
250	**258,02**	3,9	16,1	7	36	---	34	---	35	---	---
280	**293,04**	3,4	15,7	6	36	---	34	---	35	---	---
315	**310,23**	3,2	16,5	6	33	---	31	---	32	---	---
355	**352,34**	2,8	15,7	5	33	---	31	---	32	---	---
400	**371,33**	2,7	16,5	5	31	---	29	---	30	---	---
450	**421,72**	2,4	15,7	4	31	---	29	---	30	---	---
XT130e..,n_1= 1200 1/min											17 kNm
16	**15,9**	75	14,4	120	87	130	80	92	93	125	105
18	**18,06**	66	15,7	115	87	130	80	92	93	125	105
20	**20,45**	59	14,8	94	83	120	80	89	86	115	98
22,4	**23,23**	52	15,8	88	83	120	80	89	86	115	98
25	**25,37**	47	16,4	84	81	115	78	86	83	110	95
28	**28,82**	42	15,8	71	81	115	77	86	83	110	95
31,5	**32,19**	37	17	69	78	110	74	83	80	105	91
35,5	**36,56**	33	15,9	57	78	110	74	82	80	105	91
40	**38,71**	31	17	57	69	99	65	73	71	96	81
45	**43,96**	27	15,9	47	69	98	65	73	70	95	81
50	**50,02**	24	15,9	41	64	88	61	68	64	84	72
56	**56,81**	21	15,9	36	63	88	61	67	64	84	72
63	**59,9**	20	16,3	36	58	81	56	62	58	77	66
71	**68,03**	18	16	31	58	80	56	62	58	76	65
80	**76,69**	16	15,7	27	53	73	51	56	52	69	59
90	**87,09**	14	15,9	24	52	72	51	56	52	69	59
100	**102,65**	12	14,2	18	50	---	49	---	50	---	---
112	**116,58**	10	15,7	18	50	---	49	---	50	---	---
125	**130,23**	9,2	16,1	16	48	---	47	---	48	---	---
140	**147,9**	8,1	15,7	14	48	---	47	---	48	---	---
160	**156,58**	7,7	16,5	14	44	---	42	---	43	---	---
180	**177,83**	6,7	15,7	12	44	---	42	---	43	---	---
200	**187,42**	6,4	16,5	12	41	---	39	---	40	---	---
224	**212,85**	5,6	15,7	10	41	---	39	---	40	---	---
250	**258,02**	4,7	16,1	8	37	---	36	---	36	---	---
280	**293,04**	4,1	15,7	7	37	---	36	---	36	---	---
315	**310,23**	3,9	16,5	7	34	---	33	---	33	---	---
355	**352,34**	3,4	15,7	6	34	---	33	---	33	---	---
400	**371,33**	3,2	16,5	6	32	---	31	---	31	---	---
450	**421,72**	2,8	15,7	5	32	---	30	---	31	---	---

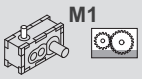
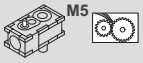
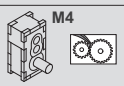
30593506/EN – 07/2023

XT130e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						17 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
16	**15,9**	94	14,4	145	74	145	65	93	90	150	125
18	**18,06**	83	15,7	140	75	145	66	94	90	150	125
20	**20,45**	73	14,8	120	78	135	74	98	87	135	115
22,4	**23,23**	65	15,8	110	79	135	75	98	87	135	115
25	**25,37**	59	16,4	105	76	130	73	95	84	130	110
28	**28,82**	52	15,8	89	77	130	73	95	85	130	110
31,5	**32,19**	47	17	86	73	125	70	91	81	125	105
35,5	**36,56**	41	15,9	71	74	125	70	91	80	125	105
40	**38,71**	39	17	71	65	115	62	80	71	110	95
45	**43,96**	34	15,9	59	65	115	62	80	71	110	94
50	**50,02**	30	15,9	52	63	100	62	77	66	99	85
56	**56,81**	26	15,9	46	63	100	61	76	66	99	84
63	**59,9**	25	16,3	45	58	93	57	70	60	90	77
71	**68,03**	22	16	39	58	93	57	70	60	90	77
80	**76,69**	20	15,7	34	53	85	52	64	54	82	70
90	**87,09**	17	15,9	30	53	84	52	64	54	81	69
100	**102,65**	15	14,2	23	52	---	51	---	53	---	---
112	**116,58**	13	15,7	22	52	---	51	---	52	---	---
125	**130,23**	12	16,1	20	50	---	48	---	50	---	---
140	**147,9**	10	15,7	17	49	---	48	---	50	---	---
160	**156,58**	9,6	16,5	17	45	---	44	---	45	---	---
180	**177,83**	8,4	15,7	15	45	---	44	---	45	---	---
200	**187,42**	8	16,5	14	42	---	41	---	42	---	---
224	**212,85**	7	15,7	12	42	---	41	---	42	---	---
250	**258,02**	5,8	16,1	10	39	---	37	---	38	---	---
280	**293,04**	5,1	15,7	9	39	---	37	---	38	---	---
315	**310,23**	4,8	16,5	9	35	---	34	---	35	---	---
355	**352,34**	4,3	15,7	7	35	---	34	---	35	---	---
400	**371,33**	4	16,5	7	33	---	32	---	33	---	---
450	**421,72**	3,6	15,7	6	33	---	32	---	33	---	---
XT130e..,n_1= 1800 1/min											17 kNm
16	**15,9**	113	14,4	175	54	155	44	92	84	165	140
18	**18,06**	100	15,7	170	55	155	45	93	85	165	140
20	**20,45**	88	14,8	140	66	150	63	105	83	150	130
22,4	**23,23**	77	15,8	135	67	150	64	105	84	150	130
25	**25,37**	71	16,4	125	66	145	63	105	82	145	125
28	**28,82**	62	15,8	105	67	145	64	105	82	145	125
31,5	**32,19**	56	17	105	65	140	61	98	78	140	120
35,5	**36,56**	49	15,9	85	66	140	62	99	79	140	120
40	**38,71**	46	17	86	58	125	55	87	69	125	105
45	**43,96**	41	15,9	71	59	125	55	87	70	125	105
50	**50,02**	36	15,9	62	60	115	59	85	66	115	96
56	**56,81**	32	15,9	55	60	115	59	85	66	110	96
63	**59,9**	30	16,3	54	56	105	56	79	61	100	87
71	**68,03**	26	16	46	56	105	56	78	60	100	87
80	**76,69**	23	15,7	40	52	95	52	72	56	93	79
90	**87,09**	21	15,9	36	52	94	52	72	55	92	79
100	**102,65**	18	14,2	27	52	---	52	---	55	---	---
112	**116,58**	15	15,7	27	52	---	52	---	54	---	---
125	**130,23**	14	16,1	24	50	---	49	---	52	---	---
140	**147,9**	12	15,7	21	50	---	49	---	52	---	---
160	**156,58**	11	16,5	21	45	---	45	---	47	---	---
180	**177,83**	10	15,7	17	45	---	45	---	47	---	---
200	**187,42**	9,6	16,5	17	43	---	42	---	44	---	---
224	**212,85**	8,5	15,7	15	42	---	42	---	44	---	---
250	**258,02**	7	16,1	12	40	---	39	---	40	---	---
280	**293,04**	6,1	15,7	11	39	---	39	---	40	---	---
315	**310,23**	5,8	16,5	11	36	---	35	---	36	---	---
355	**352,34**	5,1	15,7	9	36	---	35	---	36	---	---
400	**371,33**	4,8	16,5	9	34	---	33	---	34	---	---
450	**421,72**	4,3	15,7	7	34	---	33	---	34	---	---

30593506/EN – 07/2023

XT140e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**12,35**	81	21,3	185	110	150	105	120	125	150	135
14	**13,21**	76	22,8	185	115	150	105	120	125	155	140
16	**15,89**	63	21,3	145	110	140	105	115	115	140	125
18	**16,99**	59	22,7	145	110	140	105	120	115	140	130
20	**21,13**	47	23,4	120	105	135	100	110	110	135	120
22,4	**22,6**	44	23,4	110	105	135	100	115	110	135	125
25	**26,42**	38	23,4	96	99	125	95	105	105	125	115
28	**28,25**	35	23,4	90	100	130	96	105	105	125	115
31,5	**33,46**	30	23,4	76	92	115	89	98	94	115	105
35,5	**35,78**	28	23,4	71	93	120	90	99	95	115	105
40	**40,78**	25	23,4	62	85	105	81	90	87	105	95
45	**43,61**	23	23,4	58	86	110	82	91	87	105	96
50	**49,82**	20	23,4	51	79	99	76	84	80	95	88
56	**53,28**	19	23,4	48	80	100	77	85	81	96	88
63	**63,79**	16	23,4	40	71	89	69	76	72	85	78
71	**68,21**	15	23,4	38	72	90	69	76	72	86	79
80	**83,36**	12	23,4	31	65	---	63	---	65	---	---
90	**89,14**	11	23,4	29	65	---	64	---	65	---	---
100	**104,2**	9,6	23,4	25	61	---	60	---	61	---	---
112	**111,42**	9	23,4	23	61	---	60	---	62	---	---
125	**127**	7,9	23,4	20	56	---	55	---	56	---	---
140	**135,81**	7,4	23,4	19	57	---	56	---	57	---	---
160	**158,84**	6,3	23,4	16	52	---	51	---	52	---	---
180	**169,85**	5,9	23,4	15	53	---	52	---	53	---	---
200	**206,44**	4,8	23,4	13	46	---	45	---	45	---	---
224	**220,76**	4,5	23,4	12	47	---	45	---	46	---	---
250	**251,62**	4	23,4	10	43	---	42	---	42	---	---
280	**269,07**	3,7	23,4	10	43	---	42	---	43	---	---
315	**314,7**	3,2	23,4	8	40	---	39	---	39	---	---
355	**336,53**	3	23,4	8	40	---	39	---	40	---	---
XT140e..,n_1= 1200 1/min											**23.4 kNm**
12,5	**12,35**	97	21,3	225	96	160	87	105	120	170	140
14	**13,21**	91	22,8	225	98	165	89	105	120	175	145
16	**15,89**	76	21,3	175	105	155	98	110	115	155	130
18	**16,99**	71	22,7	175	105	155	100	115	115	160	135
20	**21,13**	57	23,4	145	100	150	96	110	110	150	130
22,4	**22,6**	53	23,4	135	105	150	98	110	115	155	130
25	**26,42**	45	23,4	115	97	140	90	105	105	140	120
28	**28,25**	42	23,4	110	98	145	92	105	105	145	120
31,5	**33,46**	36	23,4	91	92	130	88	98	97	130	110
35,5	**35,78**	34	23,4	85	93	130	89	99	98	130	110
40	**40,78**	29	23,4	75	85	120	81	90	89	120	100
45	**43,61**	28	23,4	70	86	120	82	91	90	120	100
50	**49,82**	24	23,4	62	80	110	77	85	82	110	93
56	**53,28**	23	23,4	58	80	115	77	86	83	110	94
63	**63,79**	19	23,4	48	72	100	70	77	74	98	84
71	**68,21**	18	23,4	45	73	100	70	78	75	99	84
80	**83,36**	14	23,4	37	66	---	66	---	68	---	---
90	**89,14**	13	23,4	35	67	---	66	---	68	---	---
100	**104,2**	12	23,4	30	62	---	62	---	64	---	---
112	**111,42**	11	23,4	28	63	---	62	---	64	---	---
125	**127**	9,4	23,4	24	58	---	57	---	59	---	---
140	**135,81**	8,8	23,4	23	58	---	58	---	59	---	---
160	**158,84**	7,6	23,4	19	53	---	53	---	55	---	---
180	**169,85**	7,1	23,4	18	54	---	53	---	55	---	---
200	**206,44**	5,8	23,4	15	48	---	47	---	48	---	---
224	**220,76**	5,4	23,4	14	48	---	47	---	48	---	---
250	**251,62**	4,8	23,4	12	45	---	44	---	44	---	---
280	**269,07**	4,5	23,4	12	45	---	44	---	45	---	---
315	**314,7**	3,8	23,4	10	42	---	40	---	41	---	---
355	**336,53**	3,6	23,4	9	42	---	41	---	42	---	---

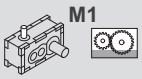
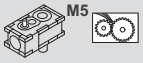
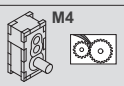
30593506/EN – 07/2023

XT140e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						23.4 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,35**	121	21,3	280	64	170	53	92	110	195	160
14	**13,21**	114	22,8	280	66	175	55	94	115	200	165
16	**15,89**	94	21,3	220	85	170	78	115	110	180	150
18	**16,99**	88	22,7	215	86	175	80	115	115	185	155
20	**21,13**	71	23,4	180	87	170	79	115	110	175	145
22,4	**22,6**	66	23,4	170	89	170	81	115	110	175	150
25	**26,42**	57	23,4	145	84	160	75	105	105	165	140
28	**28,25**	53	23,4	135	86	160	77	110	105	165	140
31,5	**33,46**	45	23,4	115	88	150	84	110	98	150	130
35,5	**35,78**	42	23,4	105	90	150	85	110	100	150	130
40	**40,78**	37	23,4	93	82	135	78	99	91	140	120
45	**43,61**	34	23,4	87	83	140	79	100	92	140	120
50	**49,82**	30	23,4	77	78	130	75	95	85	130	110
56	**53,28**	28	23,4	72	79	130	76	95	85	130	110
63	**63,79**	24	23,4	60	72	115	70	87	76	115	98
71	**68,21**	22	23,4	56	72	115	70	87	77	115	99
80	**83,36**	18	23,4	46	67	---	68	---	71	---	---
90	**89,14**	17	23,4	43	67	---	68	---	72	---	---
100	**104,2**	14	23,4	37	63	---	64	---	67	---	---
112	**111,42**	13	23,4	35	63	---	64	---	68	---	---
125	**127**	12	23,4	30	58	---	59	---	62	---	---
140	**135,81**	11	23,4	28	59	---	60	---	62	---	---
160	**158,84**	9,4	23,4	24	54	---	55	---	57	---	---
180	**169,85**	8,8	23,4	23	55	---	55	---	58	---	---
200	**206,44**	7,3	23,4	19	49	---	49	---	50	---	---
224	**220,76**	6,8	23,4	18	50	---	49	---	51	---	---
250	**251,62**	6	23,4	15	46	---	45	---	47	---	---
280	**269,07**	5,6	23,4	14	47	---	46	---	47	---	---
315	**314,7**	4,8	23,4	12	43	---	42	---	43	---	---
355	**336,53**	4,5	23,4	12	43	---	43	---	44	---	---
XT140e..,n_1= 1800 1/min											23.4 kNm
12,5	**12,35**	146	21,3	335	23	165	6	74	97	215	175
14	**13,21**	136	22,8	335	26	170	8	77	100	220	175
16	**15,89**	113	21,3	260	58	180	51	110	105	200	170
18	**16,99**	106	22,7	260	60	185	52	115	105	205	170
20	**21,13**	85	23,4	215	65	180	55	110	105	195	165
22,4	**22,6**	80	23,4	200	67	180	56	115	105	200	165
25	**26,42**	68	23,4	175	66	170	53	105	97	185	155
28	**28,25**	64	23,4	160	67	175	56	110	99	185	160
31,5	**33,46**	54	23,4	135	81	165	76	115	98	170	145
35,5	**35,78**	50	23,4	130	83	165	77	115	100	170	145
40	**40,78**	44	23,4	110	76	150	70	105	91	155	135
45	**43,61**	41	23,4	105	78	155	71	110	92	160	135
50	**49,82**	36	23,4	93	74	140	71	105	85	145	125
56	**53,28**	34	23,4	87	75	145	72	105	86	145	125
63	**63,79**	28	23,4	72	69	130	67	96	77	130	110
71	**68,21**	26	23,4	68	70	130	68	97	78	130	110
80	**83,36**	22	23,4	55	66	---	69	---	74	---	---
90	**89,14**	20	23,4	52	66	---	69	---	74	---	---
100	**104,2**	17	23,4	44	62	---	65	---	69	---	---
112	**111,42**	16	23,4	41	62	---	65	---	70	---	---
125	**127**	14	23,4	36	57	---	60	---	64	---	---
140	**135,81**	13	23,4	34	58	---	61	---	65	---	---
160	**158,84**	11	23,4	29	53	---	56	---	59	---	---
180	**169,85**	11	23,4	27	53	---	56	---	60	---	---
200	**206,44**	8,7	23,4	23	50	---	50	---	52	---	---
224	**220,76**	8,2	23,4	21	51	---	51	---	52	---	---
250	**251,62**	7,2	23,4	19	47	---	47	---	48	---	---
280	**269,07**	6,7	23,4	17	47	---	47	---	49	---	---
315	**314,7**	5,7	23,4	15	44	---	44	---	45	---	---
355	**336,53**	5,3	23,4	14	44	---	44	---	46	---	---

30593506/EN – 07/2023

XT150e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,34**	65	26,5	185	125	165	120	135	140	170	155
18	**16,43**	61	28,4	185	125	165	120	135	135	165	150
20	**19,73**	51	26,4	145	120	155	115	130	125	155	140
22,4	**21,13**	47	28,3	145	120	155	115	130	125	150	140
25	**26,25**	38	29,2	120	115	150	115	125	120	145	135
28	**28,1**	36	29,2	115	115	150	110	125	120	145	135
31,5	**32,81**	30	29,2	96	110	140	105	120	115	140	125
35,5	**35,13**	28	29,2	90	110	140	105	115	115	135	125
40	**41,56**	24	29,2	76	100	130	98	110	105	125	115
45	**44,5**	22	29,2	71	100	125	97	105	105	125	115
50	**50,65**	20	29,2	62	94	120	90	99	95	115	105
56	**54,23**	18	29,2	58	93	115	89	98	94	110	105
63	**61,88**	16	29,2	52	87	110	84	93	88	105	96
71	**66,26**	15	29,2	48	86	110	83	92	87	105	95
80	**79,22**	13	29,2	40	78	98	76	83	79	94	86
90	**84,83**	12	29,2	38	78	97	75	83	78	93	85
100	**103,52**	9,7	29,2	31	71	---	70	---	71	---	---
112	**110,85**	9	29,2	29	70	---	69	---	71	---	---
125	**129,41**	7,7	29,2	25	67	---	66	---	67	---	---
140	**138,56**	7,2	29,2	23	66	---	65	---	67	---	---
160	**157,72**	6,3	29,2	20	62	---	61	---	62	---	---
180	**168,89**	5,9	29,2	19	61	---	60	---	62	---	---
200	**197,26**	5,1	29,2	16	57	---	56	---	57	---	---
224	**211,23**	4,7	29,2	15	57	---	56	---	57	---	---
250	**256,39**	3,9	29,2	13	51	---	49	---	50	---	---
280	**274,54**	3,6	29,2	12	50	---	49	---	50	---	---
315	**312,49**	3,2	29,2	10	47	---	46	---	47	---	---
355	**334,61**	3	29,2	10	47	---	46	---	46	---	---
400	**390,84**	2,6	29,2	8	44	---	43	---	43	---	---
450	**418,5**	2,4	29,2	8	44	---	42	---	43	---	---
XT150e..,n_1= 1200 1/min											**29.2 kNm**
16	**15,34**	78	26,5	225	115	180	105	120	135	190	160
18	**16,43**	73	28,4	225	110	180	105	120	135	190	160
20	**19,73**	61	26,4	175	115	175	110	125	130	175	145
22,4	**21,13**	57	28,3	175	115	170	110	125	125	170	145
25	**26,25**	46	29,2	145	115	165	110	120	125	165	140
28	**28,1**	43	29,2	135	115	165	110	120	125	165	140
31,5	**32,81**	37	29,2	115	110	155	105	115	115	155	135
35,5	**35,13**	34	29,2	110	110	155	100	115	115	155	130
40	**41,56**	29	29,2	91	100	145	99	110	105	140	120
45	**44,5**	27	29,2	85	100	145	98	110	105	140	120
50	**50,65**	24	29,2	75	94	135	91	100	98	130	110
56	**54,23**	22	29,2	70	93	130	90	99	97	130	110
63	**61,88**	19	29,2	62	88	125	85	94	91	120	105
71	**66,26**	18	29,2	58	87	120	84	93	90	120	100
80	**79,22**	15	29,2	48	79	110	77	85	81	105	92
90	**84,83**	14	29,2	45	79	110	77	84	81	105	91
100	**103,52**	12	29,2	37	73	---	72	---	74	---	---
112	**110,85**	11	29,2	35	72	---	72	---	74	---	---
125	**129,41**	9,3	29,2	30	69	---	68	---	70	---	---
140	**138,56**	8,7	29,2	28	68	---	68	---	69	---	---
160	**157,72**	7,6	29,2	24	63	---	63	---	65	---	---
180	**168,89**	7,1	29,2	23	63	---	62	---	64	---	---
200	**197,26**	6,1	29,2	19	59	---	58	---	60	---	---
224	**211,23**	5,7	29,2	18	58	---	58	---	59	---	---
250	**256,39**	4,7	29,2	15	52	---	51	---	52	---	---
280	**274,54**	4,4	29,2	14	52	---	51	---	52	---	---
315	**312,49**	3,8	29,2	12	49	---	48	---	49	---	---
355	**334,61**	3,6	29,2	12	49	---	47	---	48	---	---
400	**390,84**	3,1	29,2	10	46	---	44	---	45	---	---
450	**418,5**	2,9	29,2	9	45	---	44	---	45	---	---

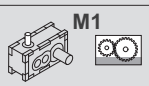
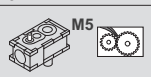
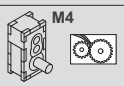
30593506/EN – 07/2023

XT150e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						29.2 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
16	**15,34**	98	26,5	280	81	195	69	115	130	220	180
18	**16,43**	91	28,4	280	81	195	69	115	130	215	180
20	**19,73**	76	26,4	220	100	190	94	130	125	200	170
22,4	**21,13**	71	28,3	220	100	190	94	130	125	200	165
25	**26,25**	57	29,2	180	100	190	94	130	125	195	165
28	**28,1**	53	29,2	170	100	185	94	130	125	190	165
31,5	**32,81**	46	29,2	145	98	175	89	120	115	180	155
35,5	**35,13**	43	29,2	135	97	175	89	120	115	180	155
40	**41,56**	36	29,2	115	99	165	95	120	110	165	140
45	**44,5**	34	29,2	105	99	165	94	120	110	165	140
50	**50,65**	30	29,2	94	92	150	88	110	100	150	130
56	**54,23**	28	29,2	88	92	150	87	110	100	150	130
63	**61,88**	24	29,2	77	87	140	84	105	94	140	120
71	**66,26**	23	29,2	72	86	140	84	105	93	140	120
80	**79,22**	19	29,2	61	79	130	77	96	84	125	110
90	**84,83**	18	29,2	57	79	125	77	95	83	125	105
100	**103,52**	14	29,2	46	74	---	75	---	78	---	---
112	**110,85**	14	29,2	43	73	---	74	---	78	---	---
125	**129,41**	12	29,2	37	70	---	71	---	74	---	---
140	**138,56**	11	29,2	35	69	---	70	---	73	---	---
160	**157,72**	9,5	29,2	30	64	---	65	---	68	---	---
180	**168,89**	8,9	29,2	28	64	---	65	---	67	---	---
200	**197,26**	7,6	29,2	24	60	---	61	---	63	---	---
224	**211,23**	7,1	29,2	23	59	---	60	---	62	---	---
250	**256,39**	5,9	29,2	19	54	---	54	---	55	---	---
280	**274,54**	5,5	29,2	18	54	---	53	---	55	---	---
315	**312,49**	4,8	29,2	16	51	---	50	---	51	---	---
355	**334,61**	4,5	29,2	15	50	---	50	---	51	---	---
400	**390,84**	3,8	29,2	12	47	---	47	---	48	---	---
450	**418,5**	3,6	29,2	12	47	---	46	---	47	---	---
XT150e..,n_1= 1800 1/min											**29.2 kNm**
16	**15,34**	117	26,5	335	40	195	25	97	115	245	200
18	**16,43**	110	28,4	335	42	195	26	98	115	240	195
20	**19,73**	91	26,4	260	74	205	67	135	120	225	190
22,4	**21,13**	85	28,3	260	75	205	67	130	120	225	185
25	**26,25**	69	29,2	215	80	200	70	130	120	220	185
28	**28,1**	64	29,2	205	80	200	70	130	120	215	180
31,5	**32,81**	55	29,2	175	80	195	68	125	110	205	175
35,5	**35,13**	51	29,2	160	80	190	68	125	110	205	170
40	**41,56**	43	29,2	135	93	180	87	130	110	190	160
45	**44,5**	40	29,2	130	92	180	87	130	110	185	160
50	**50,65**	36	29,2	110	87	170	82	120	100	175	145
56	**54,23**	33	29,2	105	86	165	81	120	100	170	145
63	**61,88**	29	29,2	93	84	155	81	115	95	160	135
71	**66,26**	27	29,2	87	83	155	80	115	94	155	135
80	**79,22**	23	29,2	73	77	140	76	105	85	140	120
90	**84,83**	21	29,2	68	77	140	75	105	85	140	120
100	**103,52**	17	29,2	56	73	---	76	---	81	---	---
112	**110,85**	16	29,2	52	72	---	76	---	81	---	---
125	**129,41**	14	29,2	45	69	---	72	---	76	---	---
140	**138,56**	13	29,2	42	68	---	71	---	76	---	---
160	**157,72**	11	29,2	37	64	---	66	---	71	---	---
180	**168,89**	11	29,2	34	63	---	66	---	70	---	---
200	**197,26**	9,1	29,2	29	59	---	62	---	65	---	---
224	**211,23**	8,5	29,2	27	59	---	61	---	65	---	---
250	**256,39**	7	29,2	23	56	---	55	---	57	---	---
280	**274,54**	6,6	29,2	21	55	---	55	---	57	---	---
315	**312,49**	5,8	29,2	19	52	---	51	---	53	---	---
355	**334,61**	5,4	29,2	17	51	---	51	---	53	---	---
400	**390,84**	4,6	29,2	15	48	---	48	---	50	---	---
450	**418,5**	4,3	29,2	14	48	---	48	---	49	---	---

30593506/EN – 07/2023

XT160e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**12,35**	81	32,5	285	170	225	160	185	200	240	220
14	**13,92**	72	36,6	285	170	225	160	185	195	240	220
16	**15,53**	64	36,3	255	165	215	160	180	180	220	200
18	**17,51**	57	38	235	165	215	160	180	180	220	200
20	**20,23**	49	38	205	170	220	165	185	185	220	205
22,4	**22,8**	44	38	180	170	215	165	185	185	220	200
25	**24,77**	40	38	165	160	205	155	175	175	210	190
28	**27,91**	36	38	150	160	205	155	170	170	205	190
31,5	**30,94**	32	38	135	150	195	150	165	160	190	175
35,5	**34,87**	29	38	120	150	190	150	165	160	190	175
40	**39,12**	26	38	105	125	160	125	135	135	160	145
45	**44,08**	23	38	93	125	160	125	135	130	155	145
50	**48,46**	21	38	86	115	145	115	125	120	140	130
56	**54,62**	18	38	76	115	145	115	125	120	140	130
63	**62,05**	16	38	67	105	130	105	115	105	125	115
71	**69,92**	14	38	59	105	130	100	110	105	125	115
80	**81,9**	12	38	51	110	---	110	---	110	---	---
90	**92,3**	11	38	45	105	---	110	---	110	---	---
100	**100,25**	10	38	42	100	---	100	---	105	---	---
112	**112,98**	8,9	38	37	100	---	100	---	105	---	---
125	**126,75**	7,9	38	33	86	---	86	---	88	---	---
140	**142,85**	7	38	29	85	---	86	---	87	---	---
160	**152,4**	6,6	38	27	79	---	80	---	81	---	---
180	**171,76**	5,8	38	24	79	---	79	---	80	---	---
200	**198,63**	5	38	21	78	---	77	---	78	---	---
224	**223,85**	4,5	38	19	78	---	77	---	77	---	---
250	**251,14**	4	38	17	67	---	66	---	67	---	---
280	**283,03**	3,5	38	15	66	---	66	---	66	---	---
315	**301,95**	3,3	38	14	62	---	61	---	62	---	---
355	**340,3**	2,9	38	12	62	---	61	---	61	---	---
XT160e..,n_1= 1200 1/min											38 kNm
12,5	**12,35**	97	32,5	340	140	245	130	155	195	270	225
14	**13,92**	86	36,6	340	140	240	130	155	195	270	225
16	**15,53**	77	36,3	305	155	235	150	170	180	250	210
18	**17,51**	69	38	280	155	235	150	170	180	245	205
20	**20,23**	59	38	245	160	245	155	175	185	250	210
22,4	**22,8**	53	38	215	160	240	155	175	185	250	210
25	**24,77**	48	38	200	155	230	145	165	175	235	200
28	**27,91**	43	38	175	155	225	145	165	175	235	200
31,5	**30,94**	39	38	160	150	215	145	165	165	220	185
35,5	**34,87**	34	38	140	150	215	145	160	160	215	185
40	**39,12**	31	38	125	125	180	120	135	135	180	155
45	**44,08**	27	38	110	120	175	120	135	135	180	155
50	**48,46**	25	38	105	115	165	115	125	125	160	140
56	**54,62**	22	38	91	115	160	115	125	120	160	140
63	**62,05**	19	38	80	105	145	105	115	110	145	125
71	**69,92**	17	38	71	105	145	105	115	110	145	125
80	**81,9**	15	38	61	110	---	115	---	115	---	---
90	**92,3**	13	38	54	110	---	110	---	115	---	---
100	**100,25**	12	38	50	105	---	105	---	110	---	---
112	**112,98**	11	38	44	100	---	105	---	105	---	---
125	**126,75**	9,5	38	39	87	---	89	---	91	---	---
140	**142,85**	8,4	38	35	86	---	89	---	91	---	---
160	**152,4**	7,9	38	33	80	---	82	---	84	---	---
180	**171,76**	7	38	29	79	---	82	---	84	---	---
200	**198,63**	6	38	25	80	---	80	---	81	---	---
224	**223,85**	5,4	38	23	80	---	80	---	80	---	---
250	**251,14**	4,8	38	20	69	---	69	---	69	---	---
280	**283,03**	4,2	38	18	68	---	68	---	69	---	---
315	**301,95**	4	38	17	64	---	64	---	64	---	---
355	**340,3**	3,5	38	15	63	---	63	---	64	---	---

30593506/EN – 07/2023

XT160e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						38 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,35**	121	32,5	430	79	250	67	130	180	310	255
14	**13,92**	108	36,6	430	82	245	69	130	180	310	255
16	**15,53**	97	36,3	380	115	255	110	170	175	285	240
18	**17,51**	86	38	355	120	255	110	170	175	285	240
20	**20,23**	74	38	305	130	265	120	175	180	290	245
22,4	**22,8**	66	38	270	130	265	120	175	180	290	245
25	**24,77**	61	38	250	125	255	115	165	170	275	230
28	**27,91**	54	38	220	125	250	115	165	170	270	230
31,5	**30,94**	48	38	200	135	245	130	175	165	255	215
35,5	**34,87**	43	38	175	135	240	130	175	165	250	215
40	**39,12**	38	38	160	110	205	105	145	135	210	180
45	**44,08**	34	38	140	110	200	110	145	135	210	180
50	**48,46**	31	38	130	110	185	110	140	125	190	160
56	**54,62**	27	38	115	110	185	110	140	125	190	160
63	**62,05**	24	38	100	100	170	105	130	115	170	145
71	**69,92**	21	38	89	100	165	105	130	115	170	145
80	**81,9**	18	38	76	110	---	115	---	120	---	---
90	**92,3**	16	38	68	105	---	115	---	120	---	---
100	**100,25**	15	38	62	100	---	110	---	115	---	---
112	**112,98**	13	38	55	100	---	110	---	110	---	---
125	**126,75**	12	38	49	86	---	92	---	96	---	---
140	**142,85**	11	38	44	85	---	91	---	95	---	---
160	**152,4**	9,8	38	41	79	---	84	---	87	---	---
180	**171,76**	8,7	38	36	78	---	83	---	87	---	---
200	**198,63**	7,6	38	32	82	---	83	---	85	---	---
224	**223,85**	6,7	38	28	82	---	82	---	84	---	---
250	**251,14**	6	38	25	71	---	71	---	73	---	---
280	**283,03**	5,3	38	22	70	---	71	---	72	---	---
315	**301,95**	5	38	21	66	---	66	---	68	---	---
355	**340,3**	4,4	38	19	65	---	66	---	67	---	---
XT160e..,n_1= 1800 1/min											**38 kNm**
12,5	**12,35**	146	32,5	510	0	230	0	95	155	345	280
14	**13,92**	129	36,6	510	0	230	0	98	160	340	275
16	**15,53**	116	36,3	455	68	265	62	155	160	315	265
18	**17,51**	103	38	425	69	265	64	155	160	315	265
20	**20,23**	89	38	365	83	275	69	165	170	325	270
22,4	**22,8**	79	38	325	86	275	72	165	170	325	270
25	**24,77**	73	38	300	88	270	70	160	160	310	260
28	**27,91**	64	38	265	90	265	72	160	160	305	255
31,5	**30,94**	58	38	240	110	265	105	185	155	285	240
35,5	**34,87**	52	38	215	110	260	105	185	155	280	240
40	**39,12**	46	38	190	92	220	87	150	130	240	200
45	**44,08**	41	38	170	93	220	87	150	130	235	200
50	**48,46**	37	38	155	93	205	95	150	120	215	185
56	**54,62**	33	38	135	93	205	95	150	120	210	180
63	**62,05**	29	38	120	91	185	95	145	110	190	165
71	**69,92**	26	38	105	91	185	95	140	110	190	165
80	**81,9**	22	38	92	100	---	115	---	125	---	---
90	**92,3**	20	38	81	100	---	115	---	125	---	---
100	**100,25**	18	38	75	96	---	110	---	115	---	---
112	**112,98**	16	38	66	95	---	110	---	115	---	---
125	**126,75**	14	38	59	80	---	92	---	98	---	---
140	**142,85**	13	38	53	80	---	91	---	97	---	---
160	**152,4**	12	38	49	74	---	84	---	90	---	---
180	**171,76**	10	38	44	73	---	83	---	89	---	---
200	**198,63**	9,1	38	38	83	---	85	---	88	---	---
224	**223,85**	8	38	34	82	---	84	---	87	---	---
250	**251,14**	7,2	38	30	71	---	73	---	76	---	---
280	**283,03**	6,4	38	27	71	---	73	---	75	---	---
315	**301,95**	6	38	25	66	---	68	---	70	---	---
355	**340,3**	5,3	38	22	66	---	68	---	70	---	---

30593506/EN – 07/2023

XT170e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,35**	65	40,3	285	180	240	175	195	210	255	230
18	**17,25**	58	45,4	285	180	240	170	195	205	250	230
20	**19,3**	52	45,1	255	175	230	170	195	190	230	210
22,4	**21,7**	46	47,5	235	175	225	170	190	190	230	210
25	**25,15**	40	47,3	205	180	230	175	195	195	235	215
28	**28,26**	35	47,5	180	175	225	170	190	190	230	210
31,5	**30,78**	32	47	165	170	220	165	185	185	220	200
35,5	**34,6**	29	47,5	150	170	215	165	180	180	215	200
40	**38,45**	26	46,9	130	160	205	160	175	170	200	185
45	**43,22**	23	47,5	120	160	200	155	170	165	195	180
50	**48,62**	21	46,9	105	135	170	130	145	140	165	155
56	**54,64**	18	47,5	94	130	165	130	140	140	165	150
63	**60,23**	17	46,6	85	120	150	120	130	125	150	135
71	**67,69**	15	47,5	77	120	150	120	130	125	145	135
80	**77,11**	13	46,4	66	110	135	110	120	110	135	125
90	**86,67**	12	47,5	60	110	135	105	120	110	130	120
100	**101,79**	9,8	45,6	49	115	---	115	---	115	---	---
112	**114,4**	8,7	47,3	45	110	---	115	---	115	---	---
125	**124,6**	8	46	40	105	---	110	---	110	---	---
140	**140,03**	7,1	47,5	37	105	---	105	---	110	---	---
160	**157,54**	6,3	45,4	32	90	---	91	---	92	---	---
180	**177,05**	5,6	47,2	29	89	---	90	---	91	---	---
200	**189,42**	5,3	45,3	26	83	---	84	---	85	---	---
224	**212,88**	4,7	47,1	24	82	---	83	---	84	---	---
250	**246,86**	4,1	45,6	20	82	---	81	---	82	---	---
280	**277,45**	3,6	47,3	19	81	---	80	---	81	---	---
315	**312,13**	3,2	45,1	16	70	---	69	---	70	---	---
355	**350,79**	2,9	46,8	15	69	---	69	---	69	---	---
400	**375,29**	2,7	45	13	65	---	64	---	65	---	---
450	**421,78**	2,4	46,7	12	64	---	64	---	64	---	---
XT170e..,n_1= 1200 1/min											47.5 kNm
16	**15,35**	78	40,3	340	155	260	145	170	210	290	240
18	**17,25**	70	45,4	340	150	255	140	170	205	285	240
20	**19,3**	62	45,1	305	165	250	160	180	190	265	220
22,4	**21,7**	55	47,5	285	165	250	160	180	190	260	220
25	**25,15**	48	47,3	245	170	255	165	185	195	265	225
28	**28,26**	42	47,5	220	170	250	165	185	195	260	220
31,5	**30,78**	39	47	200	165	240	155	180	185	250	215
35,5	**34,6**	35	47,5	180	165	240	155	175	185	245	210
40	**38,45**	31	46,9	160	160	230	155	175	175	230	195
45	**43,22**	28	47,5	145	155	225	155	170	170	225	190
50	**48,62**	25	46,9	125	130	190	130	145	145	190	165
56	**54,64**	22	47,5	115	130	185	125	140	140	185	160
63	**60,23**	20	46,6	100	120	170	120	135	130	170	145
71	**67,69**	18	47,5	92	120	170	120	130	130	170	145
80	**77,11**	16	46,4	79	110	155	110	120	115	155	130
90	**86,67**	14	47,5	72	110	155	110	120	115	150	130
100	**101,79**	12	45,6	59	115	---	120	---	120	---	---
112	**114,4**	10	47,3	54	115	---	115	---	120	---	---
125	**124,6**	9,6	46	49	110	---	110	---	115	---	---
140	**140,03**	8,6	47,5	45	105	---	110	---	115	---	---
160	**157,54**	7,6	45,4	38	92	---	94	---	96	---	---
180	**177,05**	6,8	47,2	35	91	---	93	---	95	---	---
200	**189,42**	6,3	45,3	31	84	---	87	---	89	---	---
224	**212,88**	5,6	47,1	29	84	---	86	---	88	---	---
250	**246,86**	4,9	45,6	25	84	---	84	---	85	---	---
280	**277,45**	4,3	47,3	23	84	---	83	---	84	---	---
315	**312,13**	3,8	45,1	19	72	---	72	---	73	---	---
355	**350,79**	3,4	46,8	18	72	---	71	---	72	---	---
400	**375,29**	3,2	45	16	67	---	67	---	68	---	---
450	**421,78**	2,8	46,7	15	66	---	66	---	67	---	---

30593506/EN – 07/2023

XT170e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						47.5 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
16	**15,35**	98	40,3	425	93	270	80	150	195	330	275
18	**17,25**	87	45,4	430	94	265	81	145	190	325	270
20	**19,3**	78	45,1	380	130	275	125	185	190	300	250
22,4	**21,7**	69	47,5	355	130	270	125	185	185	300	250
25	**25,15**	60	47,3	305	140	280	130	190	195	305	255
28	**28,26**	53	47,5	275	140	280	130	190	195	300	255
31,5	**30,78**	49	47	250	140	270	125	180	180	290	245
35,5	**34,6**	43	47,5	225	140	265	125	180	180	285	240
40	**38,45**	39	46,9	200	145	255	140	190	175	265	225
45	**43,22**	35	47,5	180	145	255	140	185	170	260	225
50	**48,62**	31	46,9	155	120	215	115	155	145	220	190
56	**54,64**	27	47,5	140	120	210	115	155	140	220	185
63	**60,23**	25	46,6	125	115	195	115	150	130	200	170
71	**67,69**	22	47,5	115	115	195	115	145	130	195	170
80	**77,11**	19	46,4	99	110	175	110	135	120	180	155
90	**86,67**	17	47,5	90	110	175	110	135	120	175	150
100	**101,79**	15	45,6	74	115	---	120	---	125	---	---
112	**114,4**	13	47,3	68	115	---	120	---	125	---	---
125	**124,6**	12	46	61	105	---	115	---	120	---	---
140	**140,03**	11	47,5	56	105	---	115	---	120	---	---
160	**157,54**	9,5	45,4	47	91	---	97	---	100	---	---
180	**177,05**	8,5	47,2	44	89	---	96	---	100	---	---
200	**189,42**	7,9	45,3	39	83	---	89	---	92	---	---
224	**212,88**	7	47,1	36	82	---	88	---	91	---	---
250	**246,86**	6,1	45,6	31	87	---	87	---	89	---	---
280	**277,45**	5,4	47,3	28	86	---	86	---	88	---	---
315	**312,13**	4,8	45,1	24	74	---	75	---	77	---	---
355	**350,79**	4,3	46,8	22	74	---	74	---	76	---	---
400	**375,29**	4	45	20	69	---	70	---	71	---	---
450	**421,78**	3,6	46,7	18	68	---	69	---	70	---	---
XT170e..,n_1= 1800 1/min											47.5 kNm
16	**15,35**	117	40,3	510	15	255	0	115	175	365	300
18	**17,25**	104	45,4	510	20	250	0	115	170	360	295
20	**19,3**	93	45,1	455	79	285	72	175	175	335	280
22,4	**21,7**	83	47,5	425	80	280	74	175	175	330	275
25	**25,15**	72	47,3	365	96	295	84	185	180	340	285
28	**28,26**	64	47,5	330	97	295	86	185	180	340	285
31,5	**30,78**	58	47	300	99	285	84	175	175	325	275
35,5	**34,6**	52	47,5	270	100	280	85	175	170	320	270
40	**38,45**	47	46,9	240	120	280	115	200	170	300	255
45	**43,22**	42	47,5	215	120	275	115	195	170	295	250
50	**48,62**	37	46,9	190	100	235	97	160	140	250	215
56	**54,64**	33	47,5	170	100	230	96	160	135	245	210
63	**60,23**	30	46,6	150	100	215	105	160	130	225	190
71	**67,69**	27	47,5	140	100	215	105	160	130	220	190
80	**77,11**	23	46,4	120	99	195	105	150	120	200	170
90	**86,67**	21	47,5	110	98	195	100	150	120	200	170
100	**101,79**	18	45,6	88	110	---	125	---	130	---	---
112	**114,4**	16	47,3	82	105	---	120	---	130	---	---
125	**124,6**	14	46	73	100	---	115	---	125	---	---
140	**140,03**	13	47,5	67	100	---	115	---	120	---	---
160	**157,54**	11	45,4	57	86	---	97	---	105	---	---
180	**177,05**	10	47,2	53	85	---	96	---	100	---	---
200	**189,42**	9,5	45,3	47	79	---	89	---	95	---	---
224	**212,88**	8,5	47,1	44	78	---	88	---	93	---	---
250	**246,86**	7,3	45,6	37	87	---	89	---	92	---	---
280	**277,45**	6,5	47,3	34	86	---	88	---	91	---	---
315	**312,13**	5,8	45,1	29	75	---	77	---	80	---	---
355	**350,79**	5,1	46,8	27	75	---	77	---	79	---	---
400	**375,29**	4,8	45	24	70	---	72	---	74	---	---
450	**421,78**	4,3	46,7	22	69	---	71	---	73	---	---

30593506/EN – 07/2023

XT180e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**12,57**	80	56,5	485	165	245	160	190	235	290	265
14	**14,08**	71	61	470	175	255	170	200	245	300	270
16	**16,17**	62	54,7	365	190	255	190	215	225	275	250
18	**18,11**	55	61	365	195	265	195	220	230	285	260
20	**19,74**	51	61	335	185	250	185	210	220	265	245
22,4	**22,1**	45	61	300	195	260	190	215	225	275	250
25	**25,55**	39	61	260	180	240	180	200	210	255	235
28	**28,61**	35	60,8	230	185	245	185	210	220	260	240
31,5	**32,36**	31	61	205	170	225	175	195	195	235	215
35,5	**36,24**	28	60,8	180	180	230	180	200	200	240	220
40	**38,93**	26	61	170	155	200	160	175	175	210	195
45	**43,6**	23	60,7	150	160	205	160	180	180	215	200
50	**47,57**	21	61	140	145	190	150	165	165	195	180
56	**53,27**	19	60,7	125	150	195	155	170	165	200	180
63	**60,9**	16	60,8	110	135	170	135	150	145	170	155
71	**68,2**	15	60,6	97	135	170	140	150	145	175	160
80	**79,89**	13	61	84	125	---	135	---	135	---	---
90	**89,46**	11	61	75	130	---	140	---	140	---	---
100	**103,42**	9,7	61	65	120	---	130	---	130	---	---
112	**115,81**	8,6	60,6	57	125	---	130	---	130	---	---
125	**124,41**	8	60,7	54	110	---	115	---	115	---	---
140	**139,32**	7,2	60,2	47	110	---	120	---	120	---	---
160	**153,68**	6,5	60,6	43	99	---	105	---	105	---	---
180	**172,1**	5,8	60,1	38	100	---	110	---	105	---	---
200	**204,9**	4,9	60,5	33	96	---	98	---	98	---	---
224	**229,46**	4,4	60,1	29	98	---	100	---	100	---	---
250	**246,49**	4,1	60,2	27	88	---	90	---	89	---	---
280	**276,03**	3,6	59,9	24	90	---	92	---	91	---	---
315	**304,49**	3,3	60,1	22	80	---	82	---	81	---	---
355	**340,98**	2,9	59,8	19	82	---	84	---	83	---	---
XT180e..,n_1= 1200 1/min											61 kNm
12,5	**12,57**	95	56,5	580	110	245	105	140	225	325	265
14	**14,08**	85	61	560	120	255	115	145	235	335	275
16	**16,17**	74	54,7	440	160	275	160	190	220	310	260
18	**18,11**	66	61	440	170	280	165	195	230	320	265
20	**19,74**	61	61	400	160	270	160	185	215	300	250
22,4	**22,1**	54	61	360	170	280	165	195	225	310	260
25	**25,55**	47	61	310	160	260	155	180	210	290	245
28	**28,61**	42	60,8	275	170	270	165	190	215	295	250
31,5	**32,36**	37	61	245	160	245	165	185	195	265	225
35,5	**36,24**	33	60,8	220	165	250	170	190	205	270	230
40	**38,93**	31	61	205	145	220	150	170	180	240	205
45	**43,6**	28	60,7	180	150	225	155	175	185	245	210
50	**47,57**	25	61	170	140	210	145	165	165	220	190
56	**53,27**	23	60,7	150	145	215	150	170	170	225	195
63	**60,9**	20	60,8	130	130	190	135	150	145	195	165
71	**68,2**	18	60,6	115	135	190	140	155	150	200	170
80	**79,89**	15	61	100	125	---	140	---	140	---	---
90	**89,46**	13	61	90	130	---	145	---	145	---	---
100	**103,42**	12	61	78	120	---	135	---	135	---	---
112	**115,81**	10	60,6	69	120	---	135	---	135	---	---
125	**124,41**	9,6	60,7	64	110	---	120	---	120	---	---
140	**139,32**	8,6	60,2	57	110	---	125	---	125	---	---
160	**153,68**	7,8	60,6	52	99	---	110	---	110	---	---
180	**172,1**	7	60,1	46	100	---	110	---	110	---	---
200	**204,9**	5,9	60,5	39	98	---	100	---	100	---	---
224	**229,46**	5,2	60,1	35	100	---	105	---	105	---	---
250	**246,49**	4,9	60,2	32	91	---	94	---	93	---	---
280	**276,03**	4,3	59,9	29	92	---	96	---	95	---	---
315	**304,49**	3,9	60,1	26	82	---	86	---	85	---	---
355	**340,98**	3,5	59,8	23	84	---	87	---	86	---	---

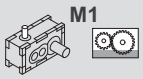
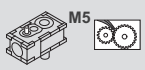
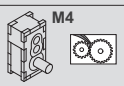
30593506/EN – 07/2023

XT180e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						61 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**12,57**	119	56,5	730	0	205	0	87	205	365	295
14	**14,08**	107	61	700	6	220	12	95	215	375	305
16	**16,17**	93	54,7	550	97	280	99	165	205	350	290
18	**18,11**	83	61	550	105	290	105	175	215	360	300
20	**19,74**	76	61	500	105	280	105	170	205	345	285
22,4	**22,1**	68	61	450	115	290	110	175	215	355	295
25	**25,55**	59	61	390	115	270	110	170	200	330	275
28	**28,61**	52	60,8	345	120	285	115	175	210	340	285
31,5	**32,36**	46	61	305	130	265	135	190	195	305	260
35,5	**36,24**	41	60,8	275	135	275	140	195	200	315	265
40	**38,93**	39	61	255	120	240	125	175	175	275	235
45	**43,6**	34	60,7	225	125	250	130	180	180	280	240
50	**47,57**	32	61	210	120	230	130	175	165	255	220
56	**53,27**	28	60,7	185	125	235	135	180	170	260	225
63	**60,9**	25	60,8	165	120	210	130	165	150	225	190
71	**68,2**	22	60,6	145	120	215	135	170	150	230	195
80	**79,89**	19	61	125	115	---	145	---	145	---	---
90	**89,46**	17	61	110	120	---	150	---	150	---	---
100	**103,42**	15	61	97	110	---	140	---	140	---	---
112	**115,81**	13	60,6	86	115	---	140	---	140	---	---
125	**124,41**	12	60,7	80	100	---	125	---	125	---	---
140	**139,32**	11	60,2	71	105	---	130	---	130	---	---
160	**153,68**	9,8	60,6	65	92	---	115	---	115	---	---
180	**172,1**	8,7	60,1	57	94	---	115	---	115	---	---
200	**204,9**	7,3	60,5	49	99	---	105	---	105	---	---
224	**229,46**	6,5	60,1	44	100	---	110	---	110	---	---
250	**246,49**	6,1	60,2	41	91	---	98	---	97	---	---
280	**276,03**	5,4	59,9	36	93	---	100	---	99	---	---
315	**304,49**	4,9	60,1	33	83	---	90	---	89	---	---
355	**340,98**	4,4	59,8	29	85	---	91	---	91	---	---
XT180e..,n_1= 1800 1/min											**61 kNm**
12,5	**12,57**	143	56,5	880	0	140	0	16	165	395	310
14	**14,08**	128	61	850	0	150	0	30	180	410	325
16	**16,17**	111	54,7	660	11	265	22	135	185	385	315
18	**18,11**	99	61	660	19	275	30	145	195	400	325
20	**19,74**	91	61	600	33	270	35	145	190	380	310
22,4	**22,1**	81	61	540	40	285	41	150	200	390	320
25	**25,55**	70	61	465	50	270	44	150	190	365	300
28	**28,61**	63	60,8	415	54	280	48	155	200	380	315
31,5	**32,36**	56	61	370	79	275	94	185	185	340	285
35,5	**36,24**	50	60,8	325	86	285	100	195	190	350	295
40	**38,93**	46	61	305	76	250	89	170	170	310	260
45	**43,6**	41	60,7	270	81	260	93	180	175	315	265
50	**47,57**	38	61	255	90	245	110	185	160	290	245
56	**53,27**	34	60,7	225	94	250	115	190	165	295	250
63	**60,9**	30	60,8	195	99	230	120	180	145	250	215
71	**68,2**	26	60,6	175	100	235	120	185	150	255	220
80	**79,89**	23	61	150	96	---	145	---	150	---	---
90	**89,46**	20	61	135	99	---	150	---	155	---	---
100	**103,42**	17	61	115	93	---	140	---	140	---	---
112	**115,81**	16	60,6	105	97	---	145	---	145	---	---
125	**124,41**	14	60,7	96	86	---	130	---	130	---	---
140	**139,32**	13	60,2	85	89	---	130	---	135	---	---
160	**153,68**	12	60,6	78	79	---	115	---	115	---	---
180	**172,1**	10	60,1	69	80	---	115	---	120	---	---
200	**204,9**	8,8	60,5	59	98	---	110	---	110	---	---
224	**229,46**	7,8	60,1	52	100	---	110	---	110	---	---
250	**246,49**	7,3	60,2	49	90	---	100	---	100	---	---
280	**276,03**	6,5	59,9	43	92	---	105	---	100	---	---
315	**304,49**	5,9	60,1	39	82	---	93	---	92	---	---
355	**340,98**	5,3	59,8	35	84	---	94	---	93	---	---

30593506/EN – 07/2023

XT190e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						69 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
14	**14,04**	71	63,1	485	185	265	175	210	255	315	285
16	**15,77**	63	67,7	465	190	275	180	215	260	320	290
18	**18,05**	55	61,1	365	205	275	200	230	240	295	270
20	**20,29**	49	67,6	360	210	280	205	235	245	300	270
22,4	**22,04**	45	69	340	200	270	200	225	235	285	260
25	**24,77**	40	67,5	295	205	275	200	230	240	290	265
28	**28,53**	35	68,3	260	195	255	190	215	225	275	250
31,5	**32,06**	31	67,3	230	200	260	195	220	230	275	255
35,5	**36,14**	28	68,2	205	185	240	185	210	210	250	230
40	**40,61**	25	67,3	180	190	245	190	210	210	250	230
45	**43,48**	23	69	170	165	215	170	185	185	225	205
50	**48,85**	20	67,2	150	170	215	170	190	190	225	210
56	**53,11**	19	69	140	155	200	160	175	175	205	190
63	**59,68**	17	67,2	125	160	205	160	180	175	210	190
71	**68**	15	67,9	110	140	180	145	160	150	180	165
80	**76,41**	13	67,2	96	140	180	145	160	155	180	165
90	**89,21**	11	69	85	135	---	140	---	145	---	---
100	**100,24**	10	67,8	74	135	---	140	---	145	---	---
112	**115,48**	8,7	68,4	65	125	---	130	---	135	---	---
125	**129,76**	7,7	67,7	57	130	---	135	---	135	---	---
140	**138,93**	7,2	69	54	115	---	120	---	125	---	---
160	**156,11**	6,4	67,6	47	115	---	120	---	125	---	---
180	**171,61**	5,8	69	44	105	---	110	---	110	---	---
200	**192,84**	5,2	67,6	38	105	---	110	---	110	---	---
224	**228,8**	4,4	68,4	33	100	---	100	---	105	---	---
250	**257,1**	3,9	67,7	29	105	---	105	---	105	---	---
280	**275,25**	3,6	69	28	93	---	93	---	94	---	---
315	**309,29**	3,2	67,6	24	94	---	94	---	95	---	---
355	**340,02**	2,9	69	22	85	---	85	---	85	---	---
400	**382,06**	2,6	67,6	20	86	---	86	---	86	---	---
XT190e..,n_1= 1200 1/min											69 kNm
14	**14,04**	85	63,1	580	125	265	120	155	245	350	285
16	**15,77**	76	67,7	560	135	275	125	160	250	355	295
18	**18,05**	66	61,1	440	180	295	175	205	240	330	275
20	**20,29**	59	67,6	435	185	300	180	210	245	335	280
22,4	**22,04**	54	69	405	175	290	175	200	235	320	270
25	**24,77**	48	67,5	355	185	295	180	210	240	330	275
28	**28,53**	42	68,3	310	175	280	170	195	225	310	260
31,5	**32,06**	37	67,3	275	180	285	175	200	230	310	265
35,5	**36,14**	33	68,2	245	170	260	175	200	210	280	240
40	**40,61**	30	67,3	215	175	265	180	205	215	285	245
45	**43,48**	28	69	205	155	235	160	180	190	255	215
50	**48,85**	25	67,2	180	160	240	165	185	195	255	220
56	**53,11**	23	69	170	150	220	155	175	175	235	200
63	**59,68**	20	67,2	150	155	225	160	175	180	235	205
71	**68**	18	67,9	130	140	200	145	160	155	205	175
80	**76,41**	16	67,2	115	140	200	145	160	155	205	175
90	**89,21**	13	69	100	135	---	145	---	150	---	---
100	**100,24**	12	67,8	89	135	---	145	---	150	---	---
112	**115,48**	10	68,4	78	125	---	135	---	140	---	---
125	**129,76**	9,2	67,7	69	130	---	135	---	140	---	---
140	**138,93**	8,6	69	65	115	---	125	---	130	---	---
160	**156,11**	7,7	67,6	57	115	---	125	---	130	---	---
180	**171,61**	7	69	53	105	---	110	---	115	---	---
200	**192,84**	6,2	67,6	46	105	---	115	---	115	---	---
224	**228,8**	5,2	68,4	40	105	---	105	---	105	---	---
250	**257,1**	4,7	67,7	35	105	---	105	---	110	---	---
280	**275,25**	4,4	69	33	95	---	96	---	98	---	---
315	**309,29**	3,9	67,6	29	96	---	97	---	99	---	---
355	**340,02**	3,5	69	27	87	---	88	---	89	---	---
400	**382,06**	3,1	67,6	24	88	---	89	---	90	---	---

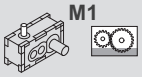
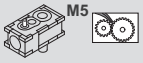
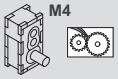
30593506/EN – 07/2023

XT190e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						69 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
14	**14,04**	107	63,1	730	7	230	17	100	220	390	320
16	**15,77**	95	67,7	700	18	240	25	105	230	400	325
18	**18,05**	83	61,1	550	110	305	115	185	225	375	310
20	**20,29**	74	67,6	540	115	310	120	190	230	385	320
22,4	**22,04**	68	69	510	120	300	115	185	220	365	305
25	**24,77**	61	67,5	445	125	310	125	190	230	375	315
28	**28,53**	53	68,3	390	125	295	120	185	220	355	295
31,5	**32,06**	47	67,3	340	130	300	125	190	225	360	300
35,5	**36,14**	42	68,2	305	140	285	145	205	205	325	275
40	**40,61**	37	67,3	270	145	290	150	210	210	330	280
45	**43,48**	34	69	260	130	260	135	185	190	295	250
50	**48,85**	31	67,2	225	135	260	140	190	195	295	250
56	**53,11**	28	69	215	130	245	140	185	175	270	230
63	**59,68**	25	67,2	185	135	250	145	190	180	275	235
71	**68**	22	67,9	165	125	225	140	175	155	240	205
80	**76,41**	20	67,2	145	130	225	140	175	160	240	205
90	**89,21**	17	69	125	125	---	145	---	155	---	---
100	**100,24**	15	67,8	110	125	---	145	---	155	---	---
112	**115,48**	13	68,4	97	120	---	135	---	145	---	---
125	**129,76**	12	67,7	86	120	---	140	---	150	---	---
140	**138,93**	11	69	82	110	---	125	---	135	---	---
160	**156,11**	9,6	67,6	71	110	---	125	---	135	---	---
180	**171,61**	8,7	69	66	97	---	115	---	120	---	---
200	**192,84**	7,8	67,6	58	98	---	115	---	120	---	---
224	**228,8**	6,6	68,4	50	105	---	110	---	110	---	---
250	**257,1**	5,8	67,7	44	105	---	110	---	115	---	---
280	**275,25**	5,4	69	42	96	---	99	---	100	---	---
315	**309,29**	4,8	67,6	36	97	---	100	---	105	---	---
355	**340,02**	4,4	69	34	88	---	91	---	93	---	---
400	**382,06**	3,9	67,6	29	89	---	92	---	94	---	---
XT190e..,n_1= 1800 1/min											**69 kNm**
14	**14,04**	128	63,1	880	0	155	0	36	185	425	340
16	**15,77**	114	67,7	840	0	175	0	47	200	435	350
18	**18,05**	100	61,1	660	23	290	35	155	205	415	340
20	**20,29**	89	67,6	650	31	300	42	160	210	420	345
22,4	**22,04**	82	69	610	44	295	47	160	205	405	335
25	**24,77**	73	67,5	530	50	305	52	170	210	415	340
28	**28,53**	63	68,3	465	60	290	54	165	205	390	325
31,5	**32,06**	56	67,3	410	63	300	57	170	210	400	330
35,5	**36,14**	50	68,2	370	90	295	105	205	200	365	305
40	**40,61**	44	67,3	325	96	305	110	210	200	370	310
45	**43,48**	41	69	310	85	270	99	185	180	330	275
50	**48,85**	37	67,2	270	90	275	105	190	185	330	280
56	**53,11**	34	69	255	99	260	120	195	175	305	260
63	**59,68**	30	67,2	220	105	265	120	200	175	310	260
71	**68**	26	67,9	195	105	240	130	190	155	265	225
80	**76,41**	24	67,2	175	110	245	130	190	160	270	230
90	**89,21**	20	69	155	105	---	140	---	160	---	---
100	**100,24**	18	67,8	135	105	---	145	---	160	---	---
112	**115,48**	16	68,4	115	100	---	135	---	150	---	---
125	**129,76**	14	67,7	105	105	---	135	---	150	---	---
140	**138,93**	13	69	98	93	---	125	---	135	---	---
160	**156,11**	12	67,6	85	94	---	125	---	140	---	---
180	**171,61**	10	69	79	84	---	110	---	125	---	---
200	**192,84**	9,3	67,6	69	85	---	110	---	125	---	---
224	**228,8**	7,9	68,4	60	105	---	110	---	115	---	---
250	**257,1**	7	67,7	53	105	---	110	---	115	---	---
280	**275,25**	6,5	69	50	95	---	100	---	105	---	---
315	**309,29**	5,8	67,6	44	96	---	100	---	105	---	---
355	**340,02**	5,3	69	40	87	---	92	---	96	---	---
400	**382,06**	4,7	67,6	35	88	---	93	---	97	---	---

30593506/EN – 07/2023

XT200e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**12,45**	80	83	720	170	280	160	205	305	380	345
14	**14,12**	71	83	640	170	280	165	205	305	375	340
16	**16,32**	61	77,5	510	220	315	215	255	290	360	325
18	**18,5**	54	83	485	220	310	215	250	285	350	320
20	**20,56**	49	83	440	220	305	215	245	285	345	315
22,4	**23,31**	43	83	385	215	300	210	245	280	340	310
25	**25,72**	39	83	350	205	280	200	230	260	315	290
28	**29,17**	34	83	310	200	275	195	225	255	310	285
31,5	**31,97**	31	83	280	205	275	205	230	240	285	260
35,5	**36,26**	28	83	250	205	270	205	230	235	280	255
40	**39,61**	25	83	225	205	265	200	225	230	275	255
45	**44,92**	22	83	200	200	260	200	220	225	270	250
50	**48,39**	21	83	190	195	255	200	220	220	260	240
56	**54,88**	18	83	165	195	250	195	215	215	255	235
63	**61,95**	16	83	145	180	230	180	200	200	235	215
71	**70,26**	14	83	130	175	225	180	195	195	230	210
80	**79,69**	13	83	115	170	---	175	---	180	---	---
90	**90,37**	11	83	100	165	---	170	---	175	---	---
100	**99,7**	10	83	91	155	---	160	---	165	---	---
112	**113,07**	8,8	83	80	150	---	160	---	160	---	---
125	**123,51**	8,1	83	74	150	---	155	---	160	---	---
140	**140,07**	7,1	83	65	150	---	155	---	155	---	---
160	**152,66**	6,6	83	60	140	---	145	---	145	---	---
180	**173,13**	5,8	83	53	135	---	140	---	145	---	---
200	**197,54**	5,1	83	47	125	---	125	---	125	---	---
224	**224,02**	4,5	83	41	120	---	120	---	120	---	---
250	**244,71**	4,1	83	38	120	---	120	---	120	---	---
280	**277,52**	3,6	83	33	115	---	120	---	120	---	---
315	**302,47**	3,3	83	30	110	---	110	---	110	---	---
355	**343,03**	2,9	83	27	110	---	110	---	110	---	---
XT200e..,n_1= 1200 1/min											83 kNm
12,5	**12,45**	96	83	870	66	245	73	115	290	420	345
14	**14,12**	85	83	760	75	250	82	120	290	420	340
16	**16,32**	74	77,5	620	170	320	165	200	285	400	330
18	**18,5**	65	83	580	170	320	165	200	280	395	325
20	**20,56**	58	83	530	170	315	165	205	275	390	325
22,4	**23,31**	51	83	465	175	315	165	200	275	380	320
25	**25,72**	47	83	420	165	295	160	190	260	355	300
28	**29,17**	41	83	370	165	290	160	190	255	350	295
31,5	**31,97**	38	83	340	190	295	190	215	240	325	275
35,5	**36,26**	33	83	300	185	295	185	215	235	315	270
40	**39,61**	30	83	275	190	290	190	215	235	310	265
45	**44,92**	27	83	240	185	285	185	210	230	305	260
50	**48,39**	25	83	225	190	280	190	215	225	295	250
56	**54,88**	22	83	200	185	275	190	210	215	290	245
63	**61,95**	19	83	175	175	255	180	200	205	270	230
71	**70,26**	17	83	155	170	250	175	195	200	265	225
80	**79,69**	15	83	135	170	---	180	---	185	---	---
90	**90,37**	13	83	120	165	---	175	---	185	---	---
100	**99,7**	12	83	110	155	---	165	---	170	---	---
112	**113,07**	11	83	97	150	---	160	---	165	---	---
125	**123,51**	9,7	83	88	150	---	160	---	165	---	---
140	**140,07**	8,6	83	78	145	---	155	---	160	---	---
160	**152,66**	7,9	83	72	140	---	145	---	150	---	---
180	**173,13**	6,9	83	63	135	---	145	---	150	---	---
200	**197,54**	6,1	83	56	125	---	125	---	130	---	---
224	**224,02**	5,4	83	49	125	---	125	---	125	---	---
250	**244,71**	4,9	83	45	120	---	125	---	125	---	---
280	**277,52**	4,3	83	40	120	---	120	---	125	---	---
315	**302,47**	4	83	36	115	---	115	---	115	---	---
355	**343,03**	3,5	83	32	110	---	115	---	115	---	---

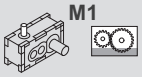
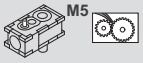
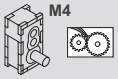
30593506/EN – 07/2023

XT200e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						83 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,45**	120	83	1100	0	145	0	0	250	470	375
14	**14,12**	106	83	960	0	155	0	0	255	465	375
16	**16,32**	92	77,5	770	52	305	59	150	260	455	370
18	**18,5**	81	83	730	58	300	62	150	260	445	365
20	**20,56**	73	83	660	73	305	69	155	260	440	365
22,4	**23,31**	64	83	580	79	305	74	160	260	435	360
25	**25,72**	58	83	520	80	290	72	155	245	410	340
28	**29,17**	51	83	465	82	285	72	155	245	400	335
31,5	**31,97**	47	83	420	145	320	150	215	230	370	310
35,5	**36,26**	41	83	370	145	315	150	210	225	365	305
40	**39,61**	38	83	340	150	315	150	215	230	360	305
45	**44,92**	33	83	300	150	310	150	210	225	350	300
50	**48,39**	31	83	280	160	310	165	225	220	340	290
56	**54,88**	27	83	250	160	305	165	220	220	335	285
63	**61,95**	24	83	220	155	285	165	215	205	310	265
71	**70,26**	21	83	195	155	280	160	210	200	305	260
80	**79,69**	19	83	170	160	---	180	---	195	---	---
90	**90,37**	17	83	150	160	---	180	---	190	---	---
100	**99,7**	15	83	135	150	---	170	---	175	---	---
112	**113,07**	13	83	120	145	---	165	---	175	---	---
125	**123,51**	12	83	110	145	---	165	---	175	---	---
140	**140,07**	11	83	97	140	---	160	---	170	---	---
160	**152,66**	9,8	83	89	135	---	150	---	160	---	---
180	**173,13**	8,7	83	79	130	---	150	---	155	---	---
200	**197,54**	7,6	83	70	130	---	130	---	135	---	---
224	**224,02**	6,7	83	62	125	---	130	---	135	---	---
250	**244,71**	6,1	83	56	125	---	130	---	130	---	---
280	**277,52**	5,4	83	50	120	---	125	---	130	---	---
315	**302,47**	5	83	46	115	---	120	---	120	---	---
355	**343,03**	4,4	83	40	115	---	115	---	120	---	---
XT200e..,n_1= 1800 1/min											83 kNm
12,5	**12,45**	145	83	1300	0	0	0	0	200	500	390
14	**14,12**	127	83	1150	0	0	0	0	205	500	395
16	**16,32**	110	77,5	930	0	245	0	81	225	490	395
18	**18,5**	97	83	880	0	250	0	88	225	485	390
20	**20,56**	88	83	790	0	260	0	98	235	480	390
22,4	**23,31**	77	83	690	0	265	0	100	235	475	390
25	**25,72**	70	83	630	0	255	0	97	225	450	365
28	**29,17**	62	83	560	0	255	0	100	225	440	365
31,5	**31,97**	56	83	510	81	325	88	205	215	410	340
35,5	**36,26**	50	83	445	84	325	91	205	210	405	335
40	**39,61**	45	83	410	90	325	94	205	215	400	335
45	**44,92**	40	83	360	92	320	95	205	210	390	330
50	**48,39**	37	83	340	120	330	130	230	215	380	320
56	**54,88**	33	83	300	120	325	130	230	210	375	315
63	**61,95**	29	83	265	120	305	135	225	200	350	295
71	**70,26**	26	83	235	120	300	135	220	195	340	290
80	**79,69**	23	83	205	140	---	180	---	200	---	---
90	**90,37**	20	83	180	140	---	180	---	195	---	---
100	**99,7**	18	83	165	130	---	170	---	180	---	---
112	**113,07**	16	83	145	130	---	165	---	180	---	---
125	**123,51**	15	83	135	130	---	165	---	175	---	---
140	**140,07**	13	83	115	125	---	160	---	175	---	---
160	**152,66**	12	83	105	120	---	150	---	165	---	---
180	**173,13**	10	83	95	115	---	150	---	160	---	---
200	**197,54**	9,1	83	84	125	---	135	---	140	---	---
224	**224,02**	8	83	74	125	---	130	---	140	---	---
250	**244,71**	7,4	83	68	125	---	130	---	135	---	---
280	**277,52**	6,5	83	60	120	---	130	---	135	---	---
315	**302,47**	6	83	55	115	---	120	---	125	---	---
355	**343,03**	5,2	83	48	115	---	120	---	125	---	---

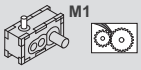
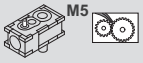
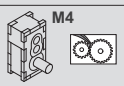
30593506/EN – 07/2023

XT210e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
14	**14,1**	71	94,2	720	180	290	175	215	315	395	355
16	**15,96**	63	96	650	180	290	175	215	310	385	350
18	**18,48**	54	87,7	510	230	325	225	260	300	370	335
20	**20,92**	48	96	495	225	315	220	255	295	360	325
22,4	**23,28**	43	96	445	225	315	220	255	290	355	320
25	**26,36**	38	96	395	220	310	215	250	285	345	315
28	**29,13**	34	96	355	210	290	205	235	270	325	295
31,5	**32,97**	30	96	315	205	285	200	230	265	315	290
35,5	**36,2**	28	96	285	210	280	210	240	245	290	265
40	**40,99**	24	96	255	210	275	210	235	240	285	260
45	**44,85**	22	96	230	210	270	205	230	235	280	260
50	**50,78**	20	96	205	205	265	205	225	230	275	250
56	**54,79**	18	96	190	200	260	200	225	225	265	245
63	**62,03**	16	96	170	195	250	195	220	220	260	240
71	**70,15**	14	94	145	185	235	185	205	200	240	220
80	**79,42**	13	96	130	180	230	180	200	200	235	215
90	**90,23**	11	95,3	115	175	---	180	---	185	---	---
100	**102,16**	9,8	96	105	170	---	175	---	180	---	---
112	**112,9**	8,9	95,5	93	160	---	165	---	165	---	---
125	**127,82**	7,8	96	82	155	---	160	---	165	---	---
140	**139,86**	7,2	95,1	75	155	---	160	---	160	---	---
160	**158,34**	6,3	96	66	150	---	155	---	160	---	---
180	**172,87**	5,8	95	60	140	---	145	---	150	---	---
200	**195,72**	5,1	96	54	140	---	145	---	145	---	---
224	**223,68**	4,5	94,6	47	125	---	125	---	125	---	---
250	**253,24**	3,9	96	42	125	---	125	---	125	---	---
280	**277,1**	3,6	94,4	38	120	---	120	---	125	---	---
315	**313,72**	3,2	96	34	120	---	120	---	120	---	---
355	**342,51**	2,9	94,2	30	110	---	115	---	115	---	---
400	**387,77**	2,6	96	27	110	---	110	---	110	---	---
XT210e..,n_1= 1200 1/min											96 kNm
14	**14,1**	85	94,2	870	78	260	85	125	300	435	355
16	**15,96**	75	96	780	86	260	92	130	295	425	350
18	**18,48**	65	87,7	620	175	335	175	215	290	410	340
20	**20,92**	57	96	600	175	330	170	210	285	400	335
22,4	**23,28**	52	96	540	180	330	175	210	285	400	330
25	**26,36**	46	96	475	180	320	175	210	280	390	325
28	**29,13**	41	96	430	170	305	165	200	265	365	305
31,5	**32,97**	36	96	380	170	300	165	195	260	360	300
35,5	**36,2**	33	96	345	195	305	195	225	245	330	280
40	**40,99**	29	96	305	190	300	190	220	240	325	275
45	**44,85**	27	96	280	195	295	195	220	240	320	270
50	**50,78**	24	96	245	190	290	190	215	235	310	265
56	**54,79**	22	96	230	195	285	195	220	230	300	255
63	**62,03**	19	96	205	190	280	190	215	220	295	250
71	**70,15**	17	94	175	180	260	185	205	205	275	235
80	**79,42**	15	96	160	175	255	180	200	200	265	230
90	**90,23**	13	95,3	140	175	---	185	---	190	---	---
100	**102,16**	12	96	125	170	---	180	---	185	---	---
112	**112,9**	11	95,5	110	160	---	170	---	175	---	---
125	**127,82**	9,4	96	99	155	---	165	---	170	---	---
140	**139,86**	8,6	95,1	89	155	---	165	---	170	---	---
160	**158,34**	7,6	96	80	150	---	160	---	165	---	---
180	**172,87**	6,9	95	72	140	---	150	---	155	---	---
200	**195,72**	6,1	96	65	140	---	145	---	150	---	---
224	**223,68**	5,4	94,6	56	130	---	130	---	130	---	---
250	**253,24**	4,7	96	50	125	---	125	---	130	---	---
280	**277,1**	4,3	94,4	45	125	---	125	---	130	---	---
315	**313,72**	3,8	96	41	125	---	125	---	125	---	---
355	**342,51**	3,5	94,2	37	115	---	115	---	120	---	---
400	**387,77**	3,1	96	33	115	---	115	---	115	---	---

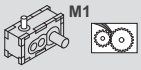
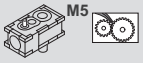
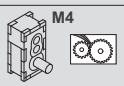
30593506/EN – 07/2023

XT210e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						96 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
14	**14,1**	106	94,2	1100	0	160	0	0	260	485	390
16	**15,96**	94	96	980	0	165	0	26	265	475	385
18	**18,48**	81	87,7	770	66	315	71	160	270	465	380
20	**20,92**	72	96	750	70	315	74	160	265	455	375
22,4	**23,28**	64	96	670	85	315	80	170	270	450	370
25	**26,36**	57	96	590	87	315	83	170	265	445	365
28	**29,13**	51	96	540	87	300	80	160	255	415	345
31,5	**32,97**	45	96	475	89	295	80	160	250	410	340
35,5	**36,2**	41	96	430	155	330	155	220	235	380	320
40	**40,99**	37	96	380	150	325	155	220	230	370	315
45	**44,85**	33	96	350	155	320	155	220	235	365	310
50	**50,78**	30	96	305	155	315	155	220	230	360	305
56	**54,79**	27	96	290	170	315	175	230	225	350	295
63	**62,03**	24	96	255	165	310	170	230	220	340	290
71	**70,15**	21	94	220	160	290	170	220	210	315	270
80	**79,42**	19	96	200	155	285	165	215	205	310	265
90	**90,23**	17	95,3	175	165	---	185	---	200	---	---
100	**102,16**	15	96	155	160	---	185	---	195	---	---
112	**112,9**	13	95,5	140	150	---	170	---	180	---	---
125	**127,82**	12	96	125	150	---	170	---	175	---	---
140	**139,86**	11	95,1	110	150	---	165	---	175	---	---
160	**158,34**	9,5	96	100	145	---	165	---	175	---	---
180	**172,87**	8,7	95	90	135	---	155	---	165	---	---
200	**195,72**	7,7	96	81	135	---	150	---	160	---	---
224	**223,68**	6,7	94,6	70	130	---	135	---	140	---	---
250	**253,24**	5,9	96	63	130	---	130	---	135	---	---
280	**277,1**	5,4	94,4	57	125	---	130	---	135	---	---
315	**313,72**	4,8	96	51	125	---	130	---	130	---	---
355	**342,51**	4,4	94,2	46	120	---	120	---	125	---	---
400	**387,77**	3,9	96	41	115	---	120	---	120	---	---
XT210e..,n_1= 1800 1/min											96 kNm
14	**14,1**	128	94,2	1300	0	0	0	0	210	520	405
16	**15,96**	113	96	1150	0	0	0	0	215	510	405
18	**18,48**	97	87,7	930	0	265	0	98	240	510	410
20	**20,92**	86	96	900	0	265	0	100	235	495	400
22,4	**23,28**	77	96	800	0	275	0	110	240	495	405
25	**26,36**	68	96	710	0	275	0	110	240	485	395
28	**29,13**	62	96	640	0	270	0	110	230	460	375
31,5	**32,97**	55	96	570	0	270	0	110	230	450	370
35,5	**36,2**	50	96	520	89	335	96	215	220	420	350
40	**40,99**	44	96	455	91	330	98	210	215	415	345
45	**44,85**	40	96	420	97	335	100	215	220	410	345
50	**50,78**	35	96	370	98	330	100	215	220	400	335
56	**54,79**	33	96	345	125	335	135	240	220	390	330
63	**62,03**	29	96	305	125	330	135	235	215	380	325
71	**70,15**	26	94	265	125	310	140	230	205	355	300
80	**79,42**	23	96	240	125	305	140	230	200	350	295
90	**90,23**	20	95,3	210	145	---	185	---	205	---	---
100	**102,16**	18	96	185	140	---	180	---	200	---	---
112	**112,9**	16	95,5	165	135	---	170	---	185	---	---
125	**127,82**	14	96	150	135	---	170	---	185	---	---
140	**139,86**	13	95,1	135	135	---	165	---	180	---	---
160	**158,34**	11	96	120	130	---	165	---	175	---	---
180	**172,87**	10	95	110	125	---	155	---	170	---	---
200	**195,72**	9,2	96	97	120	---	150	---	165	---	---
224	**223,68**	8	94,6	84	130	---	135	---	145	---	---
250	**253,24**	7,1	96	76	130	---	135	---	140	---	---
280	**277,1**	6,5	94,4	68	125	---	135	---	140	---	---
315	**313,72**	5,7	96	61	125	---	130	---	135	---	---
355	**342,51**	5,3	94,2	55	120	---	125	---	130	---	---
400	**387,77**	4,6	96	49	115	---	120	---	125	---	---

30593506/EN – 07/2023

XT220e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						117 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,56**	80	111,6	960	395	495	200	255	405	500	455
14	**13,86**	72	114,6	900	385	485	200	250	400	490	445
16	**16,15**	62	111,6	750	365	465	270	315	390	475	430
18	**17,82**	56	114,8	700	350	455	265	310	380	465	425
20	**20,64**	48	114,8	600	350	455	270	315	385	465	425
22,4	**22,78**	44	114,8	550	345	445	265	310	375	455	415
25	**25,28**	40	115,8	495	320	415	250	290	350	425	385
28	**27,9**	36	114,3	445	315	410	245	285	345	415	380
31,5	**32,02**	31	115,8	390	295	380	275	310	315	380	350
35,5	**35,34**	28	113,6	350	290	370	275	305	310	370	340
40	**39,55**	25	117	320	270	350	255	285	295	350	320
45	**43,65**	23	113,6	280	265	340	250	280	285	340	315
50	**48,32**	21	117	265	255	320	245	275	270	320	295
56	**53,33**	19	113,1	230	245	315	240	265	265	315	290
63	**61,86**	16	117	205	225	285	225	250	240	285	265
71	**68,27**	15	112,8	180	220	280	220	245	235	280	255
80	**81,61**	12	114,8	155	220	---	225	---	235	---	---
90	**90,07**	11	111,8	135	215	---	220	---	230	---	---
100	**99,97**	10	115,8	125	205	---	210	---	215	---	---
112	**110,34**	9,1	111,5	110	200	---	205	---	210	---	---
125	**123,47**	8,1	116,2	105	190	---	195	---	200	---	---
140	**136,27**	7,3	111,6	90	185	---	190	---	195	---	---
160	**156,11**	6,4	116,1	82	165	---	170	---	175	---	---
180	**172,29**	5,8	111,3	71	160	---	165	---	170	---	---
200	**198,08**	5	115,8	65	155	---	160	---	160	---	---
224	**218,61**	4,6	110,4	56	150	---	155	---	160	---	---
250	**244,62**	4,1	115,4	52	145	---	150	---	150	---	---
280	**269,99**	3,7	110,8	45	140	---	145	---	150	---	---
315	**309,29**	3,2	115,1	41	125	---	130	---	135	---	---
355	**341,36**	2,9	110,4	36	125	---	130	---	130	---	---
XT220e..,n_1= 1200 1/min											117 kNm
12,5	**12,56**	96	111,6	1150	370	550	71	135	390	550	460
14	**13,86**	87	114,6	1100	365	530	77	135	385	540	450
16	**16,15**	74	111,6	900	360	520	190	240	385	530	445
18	**17,82**	67	114,8	840	340	510	185	235	375	520	435
20	**20,64**	58	114,8	720	340	510	195	245	380	520	440
22,4	**22,78**	53	114,8	660	335	500	195	240	375	510	430
25	**25,28**	47	115,8	600	310	465	185	230	350	475	400
28	**27,9**	43	114,3	530	305	455	185	225	340	465	395
31,5	**32,02**	37	115,8	470	295	425	255	290	320	430	365
35,5	**35,34**	34	113,6	420	290	420	250	285	315	420	360
40	**39,55**	30	117	385	275	395	235	270	295	395	335
45	**43,65**	27	113,6	340	270	385	230	265	290	385	330
50	**48,32**	25	117	320	255	365	235	265	275	365	315
56	**53,33**	23	113,1	280	250	355	235	260	270	355	305
63	**61,86**	19	117	250	230	325	225	250	245	325	280
71	**68,27**	18	112,8	215	225	315	220	245	240	315	270
80	**81,61**	15	114,8	185	230	---	230	---	245	---	---
90	**90,07**	13	111,8	165	225	---	225	---	240	---	---
100	**99,97**	12	115,8	150	210	---	215	---	225	---	---
112	**110,34**	11	111,5	135	210	---	210	---	220	---	---
125	**123,47**	9,7	116,2	125	195	---	200	---	210	---	---
140	**136,27**	8,8	111,6	110	195	---	195	---	205	---	---
160	**156,11**	7,7	116,1	98	170	---	175	---	180	---	---
180	**172,29**	7	111,3	85	170	---	170	---	180	---	---
200	**198,08**	6,1	115,8	78	160	---	165	---	170	---	---
224	**218,61**	5,5	110,4	67	155	---	160	---	165	---	---
250	**244,62**	4,9	115,4	63	150	---	155	---	160	---	---
280	**269,99**	4,4	110,8	55	145	---	150	---	155	---	---
315	**309,29**	3,9	115,1	49	130	---	135	---	140	---	---
355	**341,36**	3,5	110,4	43	130	---	135	---	135	---	---

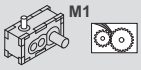
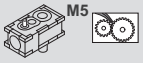
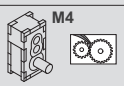
30593506/EN – 07/2023

XT220e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						117 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**12,56**	119	111,6	1450	320	600	0	0	350	620	500
14	**13,86**	108	114,6	1350	315	590	0	0	345	610	495
16	**16,15**	93	111,6	1100	330	580	10	150	360	600	495
18	**17,82**	84	114,8	1050	320	570	18	150	355	590	490
20	**20,64**	73	114,8	900	310	580	32	165	360	590	495
22,4	**22,78**	66	114,8	820	305	560	37	165	355	580	485
25	**25,28**	59	115,8	740	290	530	45	160	335	540	455
28	**27,9**	54	114,3	670	285	520	48	160	330	530	445
31,5	**32,02**	47	115,8	590	280	490	200	285	310	495	415
35,5	**35,34**	42	113,6	520	280	480	195	280	305	485	410
40	**39,55**	38	117	480	260	450	185	265	290	455	385
45	**43,65**	34	113,6	425	255	440	185	260	285	445	380
50	**48,32**	31	117	395	250	420	205	280	270	420	355
56	**53,33**	28	113,1	350	245	410	205	275	265	410	350
63	**61,86**	24	117	310	225	375	210	270	245	375	320
71	**68,27**	22	112,8	270	225	365	205	265	240	370	315
80	**81,61**	18	114,8	230	240	---	235	---	255	---	---
90	**90,07**	17	111,8	205	235	---	230	---	250	---	---
100	**99,97**	15	115,8	190	220	---	215	---	235	---	---
112	**110,34**	14	111,5	165	215	---	210	---	230	---	---
125	**123,47**	12	116,2	155	205	---	200	---	220	---	---
140	**136,27**	11	111,6	135	200	---	195	---	215	---	---
160	**156,11**	9,6	116,1	120	175	---	175	---	190	---	---
180	**172,29**	8,7	111,3	105	175	---	170	---	185	---	---
200	**198,08**	7,6	115,8	97	165	---	170	---	175	---	---
224	**218,61**	6,9	110,4	84	165	---	165	---	175	---	---
250	**244,62**	6,1	115,4	78	155	---	160	---	165	---	---
280	**269,99**	5,6	110,8	68	155	---	155	---	165	---	---
315	**309,29**	4,8	115,1	62	135	---	140	---	145	---	---
355	**341,36**	4,4	110,4	54	135	---	135	---	145	---	---
XT220e..,n_1= 1800 1/min											**117 kNm**
12,5	**12,56**	143	111,6	1750	250	640	0	0	285	660	530
14	**13,86**	130	114,6	1600	250	630	0	0	290	650	520
16	**16,15**	111	111,6	1350	285	630	0	61	320	650	530
18	**17,82**	101	114,8	1250	280	620	0	70	315	640	530
20	**20,64**	87	114,8	1100	285	630	0	89	330	650	540
22,4	**22,78**	79	114,8	980	265	610	0	93	325	640	530
25	**25,28**	71	115,8	890	250	580	0	95	310	600	495
28	**27,9**	65	114,3	800	250	560	0	97	305	590	485
31,5	**32,02**	56	115,8	710	260	540	120	275	295	550	460
35,5	**35,34**	51	113,6	630	255	530	120	270	290	540	450
40	**39,55**	46	117	580	240	500	115	255	275	510	425
45	**43,65**	41	113,6	510	240	490	115	255	270	495	420
50	**48,32**	37	117	475	235	465	165	285	260	470	395
56	**53,33**	34	113,1	420	230	455	160	280	255	460	390
63	**61,86**	29	117	375	215	420	180	285	235	420	360
71	**68,27**	26	112,8	325	215	410	180	280	235	410	350
80	**81,61**	22	114,8	280	245	---	225	---	260	---	---
90	**90,07**	20	111,8	245	240	---	220	---	255	---	---
100	**99,97**	18	115,8	230	225	---	210	---	240	---	---
112	**110,34**	16	111,5	200	220	---	205	---	235	---	---
125	**123,47**	15	116,2	185	210	---	195	---	225	---	---
140	**136,27**	13	111,6	160	205	---	190	---	220	---	---
160	**156,11**	12	116,1	145	180	---	170	---	195	---	---
180	**172,29**	10	111,3	130	175	---	165	---	190	---	---
200	**198,08**	9,1	115,8	115	170	---	170	---	185	---	---
224	**218,61**	8,2	110,4	100	170	---	170	---	180	---	---
250	**244,62**	7,4	115,4	94	160	---	160	---	170	---	---
280	**269,99**	6,7	110,8	82	160	---	160	---	170	---	---
315	**309,29**	5,8	115,1	74	140	---	140	---	150	---	---
355	**341,36**	5,3	110,4	65	140	---	140	---	150	---	---

30593506/EN – 07/2023

XT230e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						134 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
14	**14,22**	70	125,2	950	400	500	210	265	415	510	460
16	**15,61**	64	132,9	920	385	495	210	260	410	500	455
18	**18,29**	55	125,2	740	365	475	280	325	400	480	440
20	**20,08**	50	132,9	720	355	465	275	320	390	475	435
22,4	**23,37**	43	128,9	600	360	465	280	325	395	475	435
25	**25,66**	39	133,2	560	350	460	275	320	385	465	425
28	**28,63**	35	129,9	490	325	425	255	295	360	430	395
31,5	**31,43**	32	132,7	460	320	420	255	290	350	425	390
35,5	**36,26**	28	129,9	390	300	385	285	315	325	390	355
40	**39,82**	25	131,9	360	295	380	280	310	320	380	350
45	**44,78**	22	132,2	320	280	355	260	290	300	355	330
50	**49,17**	20	131,9	290	275	350	260	290	295	350	320
56	**54,71**	18	132,2	265	260	325	250	280	275	330	300
63	**60,08**	17	131,3	240	255	320	250	275	270	320	295
71	**70,05**	14	132,2	205	230	290	230	255	245	290	270
80	**76,91**	13	130,8	185	225	285	225	250	240	285	265
90	**92,41**	11	128,9	155	225	---	230	---	240	---	---
100	**101,47**	9,9	129,6	140	220	---	230	---	235	---	---
112	**113,21**	8,8	129,9	125	210	---	215	---	220	---	---
125	**124,31**	8	129	115	205	---	210	---	215	---	---
140	**139,81**	7,2	132,2	105	195	---	200	---	205	---	---
160	**153,52**	6,5	129,3	92	190	---	195	---	200	---	---
180	**176,77**	5,7	132,2	82	165	---	170	---	175	---	---
200	**194,1**	5,2	129	73	165	---	170	---	175	---	---
224	**224,29**	4,5	129,9	64	155	---	165	---	165	---	---
250	**246,28**	4,1	127,9	58	155	---	160	---	165	---	---
280	**277**	3,6	132,2	53	145	---	150	---	155	---	---
315	**304,16**	3,3	128,2	47	145	---	150	---	150	---	---
355	**350,23**	2,9	132,2	42	125	---	135	---	135	---	---
400	**384,57**	2,6	127,9	37	125	---	130	---	135	---	---
XT230e..,n_1= 1200 1/min											**134 kNm**
14	**14,22**	84	125,2	1150	380	560	83	145	400	570	470
16	**15,61**	77	132,9	1100	370	550	90	145	395	560	460
18	**18,29**	66	125,2	890	350	530	200	250	390	540	455
20	**20,08**	60	132,9	860	345	520	195	245	385	530	445
22,4	**23,37**	51	128,9	720	350	520	205	255	390	530	450
25	**25,66**	47	133,2	680	340	510	205	250	385	520	440
28	**28,63**	42	129,9	590	320	475	195	235	355	485	410
31,5	**31,43**	38	132,7	550	315	470	190	235	350	480	405
35,5	**36,26**	33	129,9	465	300	435	260	300	325	440	370
40	**39,82**	30	131,9	430	295	430	260	295	320	430	365
45	**44,78**	27	132,2	385	280	400	240	275	300	405	345
50	**49,17**	24	131,9	350	275	395	240	270	295	395	340
56	**54,71**	22	132,2	315	260	370	245	270	280	370	320
63	**60,08**	20	131,3	285	255	365	240	270	275	365	310
71	**70,05**	17	132,2	250	235	330	230	255	250	330	285
80	**76,91**	16	130,8	225	230	325	225	250	245	325	280
90	**92,41**	13	128,9	185	235	---	235	---	250	---	---
100	**101,47**	12	129,6	170	230	---	235	---	245	---	---
112	**113,21**	11	129,9	150	215	---	220	---	230	---	---
125	**124,31**	9,7	129	135	215	---	215	---	225	---	---
140	**139,81**	8,6	132,2	125	200	---	205	---	215	---	---
160	**153,52**	7,8	129,3	110	200	---	200	---	210	---	---
180	**176,77**	6,8	132,2	98	175	---	175	---	185	---	---
200	**194,1**	6,2	129	87	170	---	175	---	180	---	---
224	**224,29**	5,4	129,9	77	160	---	170	---	170	---	---
250	**246,28**	4,9	127,9	69	160	---	165	---	170	---	---
280	**277**	4,3	132,2	63	150	---	155	---	160	---	---
315	**304,16**	3,9	128,2	56	150	---	155	---	160	---	---
355	**350,23**	3,4	132,2	50	135	---	140	---	140	---	---
400	**384,57**	3,1	127,9	44	130	---	135	---	140	---	---

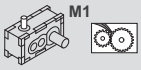
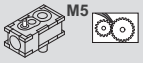
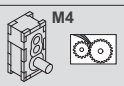
30593506/EN – 07/2023

XT230e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						134 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
14	**14,22**	105	125,2	1450	330	620	0	0	355	630	510
16	**15,61**	96	132,9	1400	325	610	0	21	355	620	510
18	**18,29**	82	125,2	1100	335	600	24	160	365	610	510
20	**20,08**	75	132,9	1100	310	590	28	160	365	600	500
22,4	**23,37**	64	128,9	900	320	590	49	180	370	610	510
25	**25,66**	58	133,2	840	315	580	51	180	365	600	500
28	**28,63**	52	129,9	740	295	540	60	175	340	560	465
31,5	**31,43**	48	132,7	690	290	530	60	175	335	550	455
35,5	**36,26**	41	129,9	580	290	500	205	295	320	500	425
40	**39,82**	38	131,9	540	285	490	205	290	315	495	420
45	**44,78**	33	132,2	480	270	460	190	275	295	465	395
50	**49,17**	31	131,9	435	265	455	190	270	290	455	385
56	**54,71**	27	132,2	395	255	425	215	285	280	430	365
63	**60,08**	25	131,3	360	250	420	210	285	275	420	360
71	**70,05**	21	132,2	310	230	380	215	275	250	385	330
80	**76,91**	20	130,8	280	230	375	210	270	250	375	320
90	**92,41**	16	128,9	230	245	---	240	---	260	---	---
100	**101,47**	15	129,6	210	240	---	235	---	255	---	---
112	**113,21**	13	129,9	190	225	---	220	---	240	---	---
125	**124,31**	12	129	170	220	---	215	---	235	---	---
140	**139,81**	11	132,2	155	210	---	205	---	225	---	---
160	**153,52**	9,8	129,3	140	205	---	200	---	220	---	---
180	**176,77**	8,5	132,2	125	180	---	175	---	195	---	---
200	**194,1**	7,7	129	110	180	---	175	---	190	---	---
224	**224,29**	6,7	129,9	96	170	---	175	---	180	---	---
250	**246,28**	6,1	127,9	86	165	---	170	---	180	---	---
280	**277**	5,4	132,2	79	160	---	160	---	170	---	---
315	**304,16**	4,9	128,2	70	155	---	160	---	165	---	---
355	**350,23**	4,3	132,2	63	140	---	145	---	150	---	---
400	**384,57**	3,9	127,9	55	140	---	140	---	145	---	---
XT230e..,n_1= 1800 1/min											**134 kNm**
14	**14,22**	127	125,2	1700	260	660	0	0	295	670	540
16	**15,61**	115	132,9	1650	260	650	0	0	300	670	540
18	**18,29**	98	125,2	1350	290	650	0	78	325	670	550
20	**20,08**	90	132,9	1300	280	640	0	82	325	660	540
22,4	**23,37**	77	128,9	1100	275	640	0	105	340	670	550
25	**25,66**	70	133,2	1000	275	630	0	105	335	660	540
28	**28,63**	63	129,9	890	260	590	0	110	320	610	500
31,5	**31,43**	57	132,7	820	260	580	0	110	315	600	500
35,5	**36,26**	50	129,9	700	265	550	130	285	305	560	470
40	**39,82**	45	131,9	650	265	540	130	280	300	550	460
45	**44,78**	40	132,2	580	245	510	125	265	280	520	435
50	**49,17**	37	131,9	520	245	500	125	265	275	510	430
56	**54,71**	33	132,2	475	240	475	170	295	265	480	405
63	**60,08**	30	131,3	430	235	465	170	290	265	470	400
71	**70,05**	26	132,2	370	220	425	190	295	245	430	365
80	**76,91**	23	130,8	335	220	420	185	290	240	420	360
90	**92,41**	19	128,9	275	250	---	230	---	265	---	---
100	**101,47**	18	129,6	250	245	---	225	---	265	---	---
112	**113,21**	16	129,9	225	230	---	215	---	245	---	---
125	**124,31**	14	129	205	225	---	210	---	245	---	---
140	**139,81**	13	132,2	185	215	---	200	---	230	---	---
160	**153,52**	12	129,3	165	210	---	195	---	225	---	---
180	**176,77**	10	132,2	150	185	---	170	---	195	---	---
200	**194,1**	9,3	129	130	180	---	170	---	195	---	---
224	**224,29**	8	129,9	115	175	---	175	---	185	---	---
250	**246,28**	7,3	127,9	105	175	---	175	---	185	---	---
280	**277**	6,5	132,2	95	165	---	165	---	175	---	---
315	**304,16**	5,9	128,2	84	160	---	160	---	170	---	---
355	**350,23**	5,1	132,2	75	145	---	145	---	155	---	---
400	**384,57**	4,7	127,9	66	140	---	145	---	150	---	---

30593506/EN – 07/2023

XT240e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						165 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
12,5	**11,92**	84	145,5	1300	430	560	93	165	460	580	520
14	**13,71**	73	163,9	1300	405	530	94	160	440	550	495
16	**15,32**	65	157,7	1100	415	540	240	300	445	550	500
18	**17,64**	57	163	1000	380	520	235	290	430	530	480
20	**20,36**	49	165	880	390	530	245	305	440	540	490
22,4	**23,44**	43	162,7	750	375	510	240	295	425	520	470
25	**25,64**	39	165	700	355	475	225	275	395	485	440
28	**29,51**	34	162,7	600	340	455	220	265	380	465	420
31,5	**32,47**	31	165	550	335	440	285	325	365	445	405
35,5	**37,38**	27	161,7	470	320	425	275	315	350	430	390
40	**39,96**	25	165	450	325	425	275	315	350	430	390
45	**46**	22	160,7	380	310	405	265	305	340	410	375
50	**48,83**	20	164,6	370	305	395	280	315	330	395	365
56	**56,2**	18	160	310	290	380	265	300	315	380	345
63	**62,51**	16	163,6	285	275	355	265	300	295	355	325
71	**71,95**	14	159,3	240	265	340	255	285	285	340	315
80	**82,39**	12	164	220	265	---	265	---	285	---	---
90	**94,83**	11	157,4	180	255	---	255	---	275	---	---
100	**103,71**	9,6	163	170	240	---	240	---	260	---	---
112	**119,37**	8,4	157,7	145	230	---	230	---	250	---	---
125	**127,64**	7,8	162	140	235	---	235	---	250	---	---
140	**146,91**	6,8	158	120	225	---	225	---	240	---	---
160	**153,55**	6,5	161,7	115	215	---	215	---	230	---	---
180	**176,74**	5,7	157,4	98	205	---	205	---	220	---	---
200	**205,47**	4,9	161,6	87	180	---	185	---	195	---	---
224	**236,5**	4,2	156	73	175	---	180	---	185	---	---
250	**252,89**	4	161	71	175	---	180	---	190	---	---
280	**291,08**	3,4	156,7	60	170	---	175	---	180	---	---
315	**304,22**	3,3	160,7	59	165	---	165	---	175	---	---
355	**350,17**	2,9	156,4	49	155	---	160	---	170	---	---
XT240e..,n_1= 1200 1/min											165 kNm
12,5	**11,92**	101	145,5	1600	385	600	0	0	420	630	510
14	**13,71**	88	163,9	1550	365	570	0	0	405	600	485
16	**15,32**	78	157,7	1350	390	590	105	170	420	610	500
18	**17,64**	68	163	1200	360	570	105	170	410	590	480
20	**20,36**	59	165	1050	365	580	125	185	420	600	495
22,4	**23,44**	51	162,7	900	350	560	120	180	405	580	480
25	**25,64**	47	165	840	335	520	115	175	380	540	445
28	**29,51**	41	162,7	720	325	500	115	170	365	520	430
31,5	**32,47**	37	165	660	325	490	230	275	355	495	415
35,5	**37,38**	32	161,7	560	310	475	225	270	345	480	400
40	**39,96**	30	165	540	315	475	225	270	345	480	400
45	**46**	26	160,7	455	300	455	220	260	330	460	385
50	**48,83**	25	164,6	445	295	445	245	285	325	445	375
56	**56,2**	21	160	375	285	425	240	275	310	425	360
63	**62,51**	19	163,6	345	270	400	250	285	295	400	340
71	**71,95**	17	159,3	290	260	380	240	275	285	385	325
80	**82,39**	15	164	260	275	---	265	---	295	---	---
90	**94,83**	13	157,4	220	265	---	255	---	285	---	---
100	**103,71**	12	163	205	250	---	240	---	270	---	---
112	**119,37**	10	157,7	175	240	---	235	---	260	---	---
125	**127,64**	9,4	162	165	240	---	235	---	260	---	---
140	**146,91**	8,2	158	140	235	---	225	---	250	---	---
160	**153,55**	7,8	161,7	140	220	---	215	---	235	---	---
180	**176,74**	6,8	157,4	115	215	---	205	---	230	---	---
200	**205,47**	5,8	161,6	105	190	---	190	---	200	---	---
224	**236,5**	5,1	156	88	185	---	185	---	195	---	---
250	**252,89**	4,7	161	85	185	---	185	---	195	---	---
280	**291,08**	4,1	156,7	72	175	---	180	---	190	---	---
315	**304,22**	3,9	160,7	70	170	---	170	---	180	---	---
355	**350,17**	3,4	156,4	59	165	---	165	---	175	---	---

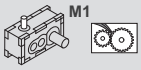
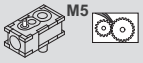
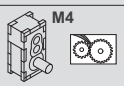
30593506/EN – 07/2023

XT240e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						165 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD 		RAD /MA 		RAD /MA 	RAD 
12,5	**11,92**	126	145,5	2000	285	640	0	0	330	680	530
14	**13,71**	109	163,9	1950	275	610	0	0	320	650	510
16	**15,32**	98	157,7	1650	320	650	0	0	360	670	540
18	**17,64**	85	163	1500	305	620	0	0	355	650	520
20	**20,36**	74	165	1300	300	640	0	44	375	670	540
22,4	**23,44**	64	162,7	1150	295	620	0	57	365	650	530
25	**25,64**	59	165	1050	285	580	0	62	345	600	490
28	**29,51**	51	162,7	900	275	560	0	65	335	580	475
31,5	**32,47**	46	165	830	290	550	120	235	330	560	460
35,5	**37,38**	40	161,7	700	280	530	115	225	320	540	450
40	**39,96**	38	165	670	285	530	120	230	320	540	450
45	**46**	33	160,7	570	275	520	115	225	310	520	430
50	**48,83**	31	164,6	550	270	500	180	275	305	510	420
56	**56,2**	27	160	465	265	485	175	265	295	490	405
63	**62,51**	24	163,6	430	250	455	210	290	280	460	380
71	**71,95**	21	159,3	365	245	435	200	280	270	440	370
80	**82,39**	18	164	325	285	---	255	---	305	---	---
90	**94,83**	16	157,4	275	275	---	245	---	295	---	---
100	**103,71**	14	163	260	260	---	235	---	280	---	---
112	**119,37**	13	157,7	215	250	---	230	---	265	---	---
125	**127,64**	12	162	210	250	---	230	---	270	---	---
140	**146,91**	10	158	175	240	---	220	---	260	---	---
160	**153,55**	9,8	161,7	175	230	---	210	---	245	---	---
180	**176,74**	8,5	157,4	145	220	---	200	---	240	---	---
200	**205,47**	7,3	161,6	130	195	---	190	---	210	---	---
224	**236,5**	6,3	156	110	190	---	185	---	205	---	---
250	**252,89**	5,9	161	105	190	---	185	---	205	---	---
280	**291,08**	5,2	156,7	89	185	---	180	---	195	---	---
315	**304,22**	4,9	160,7	88	175	---	175	---	190	---	---
355	**350,17**	4,3	156,4	74	170	---	165	---	180	---	---
XT240e..,n_1= 1800 1/min											**165 kNm**
12,5	**11,92**	151	145,5	2400	165	660	0	0	220	700	520
14	**13,71**	131	163,9	2350	160	630	0	0	225	680	510
16	**15,32**	117	157,7	2000	235	680	0	0	275	710	560
18	**17,64**	102	163	1800	225	650	0	0	275	690	540
20	**20,36**	88	165	1600	235	680	0	0	305	720	570
22,4	**23,44**	77	162,7	1350	210	660	0	0	300	690	550
25	**25,64**	70	165	1250	205	630	0	0	285	650	520
28	**29,51**	61	162,7	1100	205	600	0	0	280	630	510
31,5	**32,47**	55	165	990	240	600	0	175	285	610	495
35,5	**37,38**	48	161,7	840	230	580	0	170	280	590	480
40	**39,96**	45	165	810	240	580	0	175	280	590	480
45	**46**	39	160,7	680	235	560	0	175	275	570	465
50	**48,83**	37	164,6	660	235	550	84	250	275	560	455
56	**56,2**	32	160	560	230	530	82	245	265	540	440
63	**62,51**	29	163,6	520	225	500	145	290	255	510	415
71	**71,95**	25	159,3	435	220	480	140	280	250	485	400
80	**82,39**	22	164	395	285	---	235	---	310	---	---
90	**94,83**	19	157,4	330	275	---	225	---	300	---	---
100	**103,71**	17	163	310	260	---	215	---	285	---	---
112	**119,37**	15	157,7	260	255	---	205	---	275	---	---
125	**127,64**	14	162	250	255	---	210	---	275	---	---
140	**146,91**	12	158	210	245	---	200	---	265	---	---
160	**153,55**	12	161,7	210	235	---	195	---	250	---	---
180	**176,74**	10	157,4	175	225	---	190	---	240	---	---
200	**205,47**	8,8	161,6	155	200	---	190	---	215	---	---
224	**236,5**	7,6	156	130	195	---	185	---	210	---	---
250	**252,89**	7,1	161	125	195	---	185	---	210	---	---
280	**291,08**	6,2	156,7	105	190	---	180	---	200	---	---
315	**304,22**	5,9	160,7	105	180	---	170	---	195	---	---
355	**350,17**	5,1	156,4	89	175	---	165	---	185	---	---

30593506/EN – 07/2023

XT250e..,n_1= 1000 1/min					P_{TH} 20 °C / KW						185 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	M1		M5		M4		
						RAD		RAD /MA		RAD /MA	RAD
		min^{-1}	kNm	kW							
14	**12,8**	78	156,3	1300	430	560	98	165	460	580	520
16	**14,71**	68	180,3	1350	400	530	97	160	435	550	495
18	**16,47**	61	169,5	1100	405	540	240	300	445	550	500
20	**18,92**	53	182,1	1050	380	520	235	290	425	530	480
22,4	**21,88**	46	183,4	910	390	530	250	305	435	540	490
25	**25,14**	40	182,1	790	375	500	240	295	420	520	470
28	**27,55**	36	185	730	350	470	225	275	390	480	435
31,5	**31,64**	32	182,1	620	340	455	220	265	375	465	420
35,5	**34,89**	29	185	570	330	440	285	325	360	445	405
40	**40,08**	25	181	490	320	425	275	315	350	425	390
45	**42,95**	23	185	465	320	425	275	315	350	425	390
50	**49,33**	20	181	400	310	405	265	300	335	410	375
56	**52,47**	19	185	385	300	395	275	315	325	395	365
63	**60,27**	17	179,9	325	290	380	265	300	315	380	345
71	**67,18**	15	182,9	300	275	355	265	300	295	355	325
80	**77,17**	13	179,2	255	260	340	255	285	285	340	310
90	**88,53**	11	181,4	225	265	---	265	---	285	---	---
100	**101,7**	9,8	176,5	190	255	---	255	---	270	---	---
112	**111,45**	9	181,8	180	240	---	240	---	255	---	---
125	**128,02**	7,8	176,5	150	230	---	230	---	250	---	---
140	**137,16**	7,3	181,8	145	235	---	235	---	250	---	---
160	**157,56**	6,3	176,9	125	225	---	225	---	240	---	---
180	**165,01**	6,1	181,4	120	215	---	215	---	230	---	---
200	**189,54**	5,3	176,2	100	205	---	205	---	220	---	---
224	**220,81**	4,5	179,9	90	180	---	185	---	195	---	---
250	**253,64**	3,9	175	76	175	---	180	---	185	---	---
280	**271,76**	3,7	180,2	73	175	---	180	---	190	---	---
315	**312,17**	3,2	175,4	62	170	---	175	---	180	---	---
355	**326,93**	3,1	179,9	61	165	---	165	---	175	---	---
400	**375,54**	2,7	175,1	52	155	---	160	---	165	---	---
XT250e..,n_1= 1200 1/min											**185 kNm**
14	**12,8**	94	156,3	1600	380	600	0	0	420	630	510
16	**14,71**	82	180,3	1600	360	570	0	0	400	600	485
18	**16,47**	73	169,5	1350	385	590	110	175	420	610	500
20	**18,92**	63	182,1	1250	345	560	110	170	405	580	480
22,4	**21,88**	55	183,4	1100	360	580	130	185	420	600	495
25	**25,14**	48	182,1	940	350	560	125	185	405	580	475
28	**27,55**	44	185	870	335	520	120	175	375	540	440
31,5	**31,64**	38	182,1	750	320	500	120	170	365	510	425
35,5	**34,89**	34	185	690	320	490	230	275	355	495	410
40	**40,08**	30	181	590	310	470	225	270	345	475	400
45	**42,95**	28	185	560	310	470	225	270	345	475	400
50	**49,33**	24	181	475	300	455	220	260	330	460	385
56	**52,47**	23	185	465	295	445	245	285	320	445	375
63	**60,27**	20	179,9	390	285	425	240	275	310	425	360
71	**67,18**	18	182,9	360	270	400	250	285	295	400	340
80	**77,17**	16	179,2	305	260	380	240	275	280	385	325
90	**88,53**	14	181,4	270	275	---	265	---	295	---	---
100	**101,7**	12	176,5	230	265	---	255	---	280	---	---
112	**111,45**	11	181,8	215	250	---	240	---	265	---	---
125	**128,02**	9,4	176,5	180	240	---	235	---	255	---	---
140	**137,16**	8,7	181,8	175	240	---	235	---	260	---	---
160	**157,56**	7,6	176,9	150	230	---	225	---	250	---	---
180	**165,01**	7,3	181,4	145	220	---	215	---	235	---	---
200	**189,54**	6,3	176,2	120	215	---	205	---	230	---	---
224	**220,81**	5,4	179,9	110	190	---	190	---	200	---	---
250	**253,64**	4,7	175	92	185	---	185	---	195	---	---
280	**271,76**	4,4	180,2	88	185	---	185	---	195	---	---
315	**312,17**	3,8	175,4	75	175	---	180	---	190	---	---
355	**326,93**	3,7	179,9	73	170	---	170	---	180	---	---
400	**375,54**	3,2	175,1	62	165	---	165	---	175	---	---

30593506/EN – 07/2023

XT250e..,n_1= 1500 1/min					P_{TH} 20 °C / KW						185 kNm
i_N	i_{ex}	n_2	M_{N2}	P_{N1}	 M1		 M5		 M4		
		min^{-1}	kNm	kW		RAD		RAD /MA		RAD /MA	RAD
14	**12,8**	117	156,3	2000	285	640	0	0	330	680	530
16	**14,71**	102	180,3	2000	275	610	0	0	320	650	510
18	**16,47**	91	169,5	1650	320	640	0	0	360	670	540
20	**18,92**	79	182,1	1550	295	620	0	26	350	650	520
22,4	**21,88**	69	183,4	1350	300	640	0	59	375	670	540
25	**25,14**	60	182,1	1200	290	610	0	65	365	640	520
28	**27,55**	54	185	1100	280	580	0	69	340	600	490
31,5	**31,64**	47	182,1	940	275	560	0	72	330	580	470
35,5	**34,89**	43	185	860	285	550	120	235	330	560	460
40	**40,08**	37	181	730	280	530	120	230	320	540	445
45	**42,95**	35	185	700	280	540	120	230	320	540	445
50	**49,33**	30	181	600	275	510	120	225	310	520	430
56	**52,47**	29	185	580	270	500	180	275	305	510	420
63	**60,27**	25	179,9	490	260	480	175	265	295	485	405
71	**67,18**	22	182,9	445	250	455	210	290	280	460	380
80	**77,17**	19	179,2	380	245	435	200	280	270	440	370
90	**88,53**	17	181,4	335	280	---	255	---	305	---	---
100	**101,7**	15	176,5	285	275	---	245	---	295	---	---
112	**111,45**	13	181,8	270	260	---	235	---	275	---	---
125	**128,02**	12	176,5	225	250	---	225	---	265	---	---
140	**137,16**	11	181,8	220	250	---	230	---	270	---	---
160	**157,56**	9,5	176,9	185	240	---	220	---	260	---	---
180	**165,01**	9,1	181,4	180	230	---	210	---	245	---	---
200	**189,54**	7,9	176,2	155	220	---	200	---	235	---	---
224	**220,81**	6,8	179,9	135	195	---	190	---	210	---	---
250	**253,64**	5,9	175	115	190	---	185	---	205	---	---
280	**271,76**	5,5	180,2	110	190	---	185	---	205	---	---
315	**312,17**	4,8	175,4	93	185	---	180	---	195	---	---
355	**326,93**	4,6	179,9	91	175	---	175	---	190	---	---
400	**375,54**	4	175,1	78	170	---	165	---	180	---	---
XT250e..,n_1= 1800 1/min											**185 kNm**
14	**12,8**	141	156,3	2400	165	660	0	0	220	690	520
16	**14,71**	122	180,3	2400	165	630	0	0	225	670	500
18	**16,47**	109	169,5	2000	235	680	0	0	275	710	560
20	**18,92**	95	182,1	1900	225	650	0	0	275	690	540
22,4	**21,88**	82	183,4	1650	220	680	0	0	300	710	570
25	**25,14**	72	182,1	1400	210	650	0	0	300	690	550
28	**27,55**	65	185	1300	205	620	0	0	285	650	520
31,5	**31,64**	57	182,1	1100	205	600	0	0	280	620	500
35,5	**34,89**	52	185	1050	235	600	0	175	285	610	495
40	**40,08**	45	181	880	230	580	0	175	280	590	480
45	**42,95**	42	185	840	240	580	0	180	280	590	480
50	**49,33**	36	181	720	235	560	0	175	275	570	460
56	**52,47**	34	185	690	235	550	87	255	275	550	455
63	**60,27**	30	179,9	590	230	530	85	245	265	530	435
71	**67,18**	27	182,9	540	225	500	150	295	255	500	415
80	**77,17**	23	179,2	455	220	480	140	275	250	485	400
90	**88,53**	20	181,4	405	285	---	235	---	305	---	---
100	**101,7**	18	176,5	345	275	---	225	---	295	---	---
112	**111,45**	16	181,8	320	260	---	215	---	280	---	---
125	**128,02**	14	176,5	270	255	---	210	---	275	---	---
140	**137,16**	13	181,8	260	255	---	210	---	275	---	---
160	**157,56**	11	176,9	220	245	---	205	---	265	---	---
180	**165,01**	11	181,4	215	235	---	195	---	250	---	---
200	**189,54**	9,5	176,2	185	225	---	190	---	240	---	---
224	**220,81**	8,2	179,9	165	200	---	190	---	215	---	---
250	**253,64**	7,1	175	140	195	---	185	---	210	---	---
280	**271,76**	6,6	180,2	130	195	---	185	---	210	---	---
315	**312,17**	5,8	175,4	110	190	---	180	---	200	---	---
355	**326,93**	5,5	179,9	110	180	---	170	---	195	---	---
400	**375,54**	4,8	175,1	93	175	---	165	---	185	---	---

30593506/EN – 07/2023

7 Design and operating notes

7.1 General information

Not included in the scope of delivery:

- Wrench set
- Torque wrench
- Retractor
- Compensation elements (washers, spacing rings), if necessary
- Fasteners for input/output elements
- Lubricant, e.g. NOCO® Paste H1 E1 from SEW-EURODRIVE → except for hollow-shaft gear units
- For hollow-shaft gear units → Aids for assembly/disassembly on the machine shaft
- Fastening parts for the gear unit base
- Connecting pipes between the gear unit and separately installed oil supply systems
- Supply cables and electrical connection of the accessories

7.2 Gear unit mounting

For information on the retaining screws and tightening torques used, refer to the "X..e Series Helical and Bevel-Helical Gear Units" operating instructions.

30593506/EN – 07/2023

7.3 Dimensioning the machine shaft for hollow shaft gear units

7.3.1 Output shaft as a hollow shaft with keyed connection /..A

The material and the keyed connection of the machine shaft (for design X..A) should be dimensioned by the customer according to the loads (e.g. impacts) that will occur.

INFORMATION

Depending on the gear unit size, the material of the shaft must have the following minimum yield point for transferring the nominal torque:

- 320 N/mm^2 for sizes X..A100 – X..A290
- 360 N/mm^2 for sizes X..A300 – X..A320

The material of the key must be selected according to the loads that will occur.

The minimum key length given in the dimension sheets must be observed. If a longer key is used, it should be aligned symmetrically to the hollow shaft.

With a continuous machine shaft or axial forces, SEW-EURODRIVE recommends that the machine shaft is designed with a contact shoulder. To prevent the retaining screw of the machine shaft from loosening upon a reversing load direction, it should be secured with a suitable threadlocker. If necessary, two eccentric retaining screws may be used.

INFORMATION

For detailed information on machine shaft design, refer to the dimension sheets in chapter "Hollow shaft with key X...A" (→ 🗎 408).

30593506/EN – 07/2023

7.3.2 Output shaft as a hollow shaft with shrink disk /..H

INFORMATION

The material of the machine shaft should be dimensioned by the customer according to the loads that will occur (e.g. impact). The shaft material must have the following minimum yield point for transferring the nominal torque.

- R_e = 360 N/mm^2 for the sizes X..100 – X..320

7.3.3 Output shaft as a splined hollow shaft /..V

INFORMATION

The material of the machine shaft should be dimensioned by the customer according to the loads that will occur (e.g. impact). The shaft material must have the following minimum yield point for transferring the nominal torque.

- 320 N/mm^2 for sizes X..100 – X..320

30593506/EN – 07/2023

7.4 Dimensioning the customer hub of solid shaft gear units

The material of the customer hub should be dimensioned according to the loads that will occur.

7.5 Dimensioning the machine shaft with flange coupling

The material of the machine shaft as well as the keyed connection (of versions with key) should be dimensioned by the customer according to the loads that will occur. The shaft material should have a yield point of at least 320 N/mm². Choose the dimensions of the machine shaft according to the smooth solid shaft X..R.

INFORMATION

Detailed information regarding the design of the machine shaft can be provided by SEW-EURODRIVE upon request.

7.6 X2K.. with backstop for hollow shaft gear units

The gear unit designs X2K... with backstop and protection cover on one gear unit side are possible for all sizes except for the following gear unit sizes:

- X2KH100/110/120/140/160/240
- X2KA100/120

30593506/EN – 07/2023

8 Dimension sheet information

INFORMATION

- Dimension sheets and gear unit models can be found on https://www.drivegate.biz
- Unless specified otherwise, all dimensions are given in **mm**. NEMA motor adapters are an exception to this rule: Their dimensions are given in **inches**.

8.1 General information

8.1.1 Scope of delivery

 = Standard parts supplied by SEW-EURODRIVE.

 = Standard parts not supplied by SEW-EURODRIVE.

8.1.2 Mounting positions

The dimension sheets show horizontal gear units (mounting position M1)

For other mounting positions, or inclined or changing mounting positions (see chapter "Fixed and variable pivoted mounting positions" (→ 🗎 53)) as can occur with drives in booms, information and dimension sheets are available from SEW-EURODRIVE.

8.1.3 Weight

The specified weight data are guide values. The information on the nameplate is binding.

INFORMATION

The weight data in the selection tables do not include the oil fill.

8.1.4 Options: Shaft types

Chapter "Dimension sheets: Options" (→ 🗎 397) shows the options in connection with gear unit X.S.. with a solid shaft. Unless indicated otherwise, all options are also possible for gear units with other shaft types.

30593506/EN – 07/2023

8.2 Tolerances

8.2.1 Shaft ends

Diameter tolerance in accordance with DIN 748:

- Ø = Smooth output shaft /..R → ISO v6
- Ø = Output shaft as a solid shaft with key /..S → ISO m6

Center bores according to DIN 332, part 2 (type D.):

Ø	> 16 to 21 mm	→ M6
Ø	> 21 to 24 mm	→ M8
Ø	> 24 to 30 mm	→ M10
Ø	> 30 to 38 mm	→ M12
Ø	> 38...50 mm	→ M16
Ø	> 50 to 85 mm[1)]	→ M20
Ø	> 85...130 mm[1)]	→ M24
Ø	> 130...225 mm[1)]	→ M30
Ø	> 225...320 mm[1)]	→ M36
Ø	> 320 mm[1)]	→ M42

1) Dimensions not according to DIN 332; the thread depth including the counterbore is at least twice that of the nominal thread diameter

Keys according to DIN 6885 (domed type)

8.2.2 Hollow shafts

Diameter tolerance:

- Ø → ISO H7 for hollow shafts for shrink disk
- Ø → ISO H8 for hollow shafts with keyway

8.2.3 Mounting flange

Centering shoulder tolerance: ISO f7

30593506/EN – 07/2023

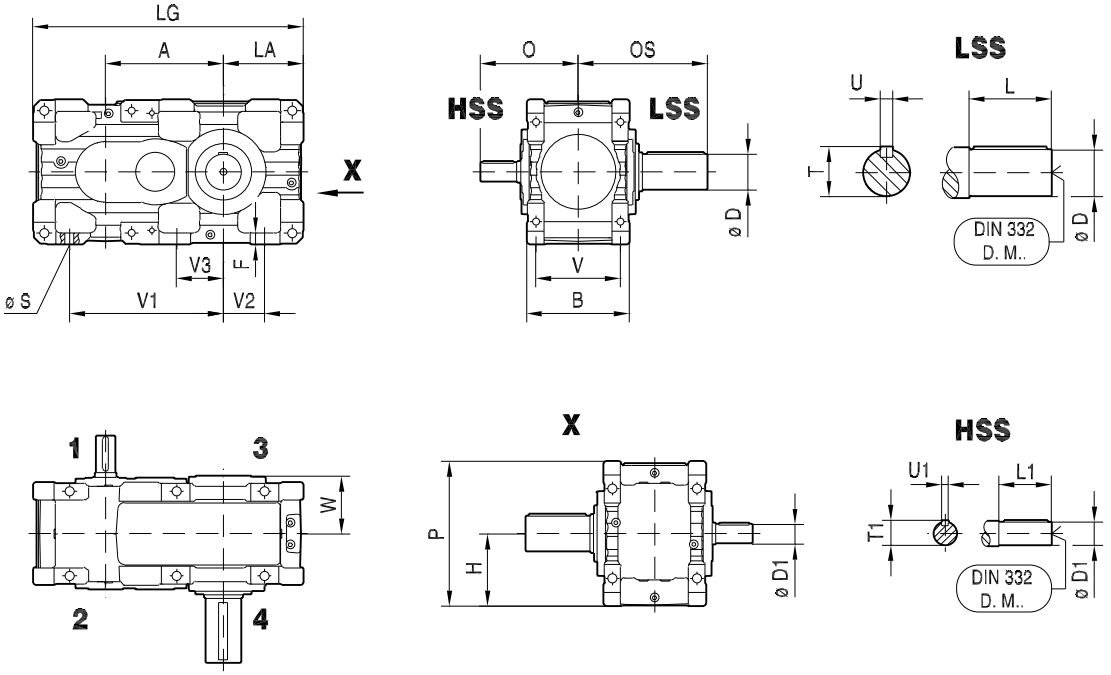
9 Dimension sheets: Universal housing /HU

9.1 X.F.. helical gear units [mm]

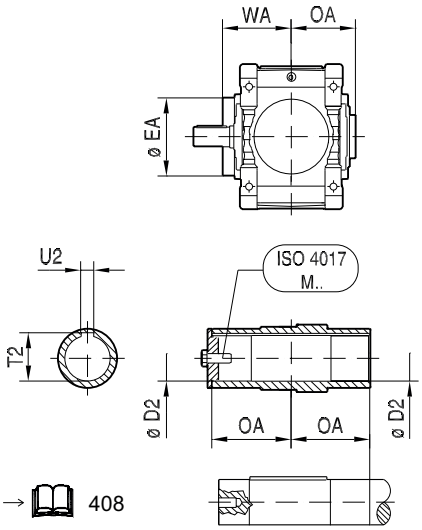
9.1.1 X2F100 – 210

X2FS../HU

48 025 03 07

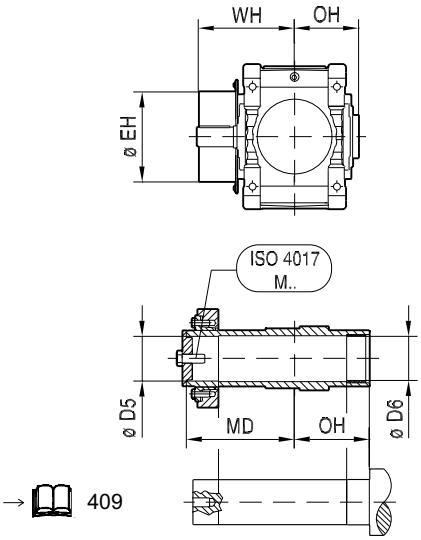


X2FA../HU



→ 408

X2FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X2F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X100	278	260	29	$190_{-0.5}$	$190_{-0.5}$	658	380	24 (4x)	210	370	90	-	153	80_{m6}	170	343	85	22_{h9}	M20	210
X110	298	260	29	$190_{-0.5}$	$215_{-0.5}$	703	380	24 (4x)	210	390	115	-	153	90_{m6}	170	346	95	25_{h9}	M24	220
X120	327	300	33	$225_{-0.5}$	$215_{-0.5}$	767	450	28 (4x)	245	440	105	-	174	100_{m6}	210	401	106	28_{h9}	M24	320
X130	363	300	33	$225_{-0.5}$	$250_{-0.5}$	838	450	28 (4x)	245	475	140	-	174	110_{m6}	210	404	116	28_{h9}	M24	370
X140	388	360	42	$265_{-0.5}$	$250_{-0.5}$	903	530	35 (4x)	290	510	110	-	202	120_{m6}	210	432	127	32_{h9}	M24	520
X150	430	360	42	$265_{-0.5}$	$295_{-0.5}$	990	530	35 (4x)	290	555	155	-	202	130_{m6}	250	475	137	32_{h9}	M24	590
X160	474	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	630	42 (4x)	340	620	185	-	240	140_{m6}	250	506	148	36_{h9}	M30	890
X170	525	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	630	42 (4x)	340	670	185	-	240	160_{m6}	300	556	169	40_{h9}	M30	1040
X180	544	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	670	42 (6x)	390	710	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1350
X190	576	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	670	42 (6x)	390	740	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1410
X200	614	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	750	48 (6x)	420	780	205	230	298	180_{m6}	300	612	190	45_{h9}	M30	1890
X210	650	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	750	48 (6x)	420	815	205	230	298	190_{m6}	350	662	200	45_{h9}	M30	1920

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X100**	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X110***	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X120*	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X130***	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X140*	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X150***	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X160*	80_{m6}	170	412	85	22_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20
X170***	80_{m6}	170	412	85	22_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20
X180*	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X190**	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X200*	100_{m6}	210	504	106	28_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24
X210**	100_{m6}	210	504	106	28_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24

X2FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	200
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	210
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	300
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	345
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	485
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	540
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	820
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	960
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1250
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1310
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1805
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1805

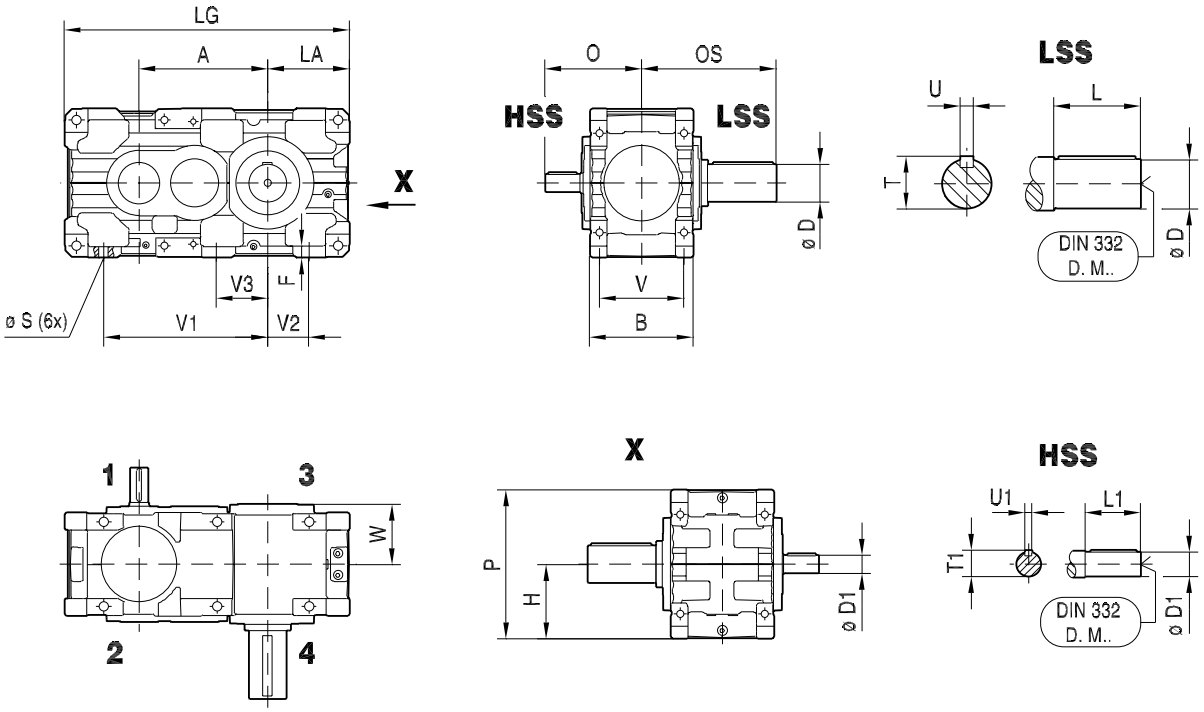
X2FH..							
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	210
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	220
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	310
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	360
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	510
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	570
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	850
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1015
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1300
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1360
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1875
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1890

30593506/EN – 07/2023

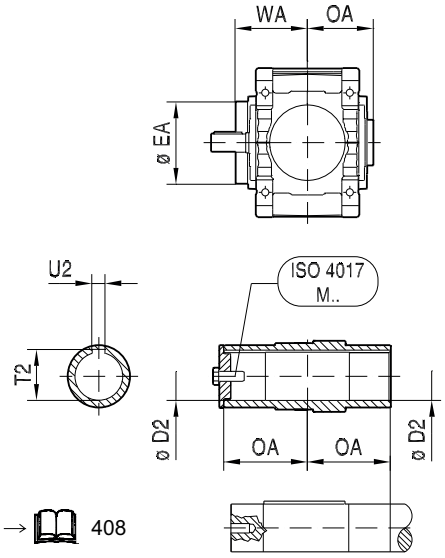
9.1.2 X2F220 – 250

X2FS../HU

48 028 03 07

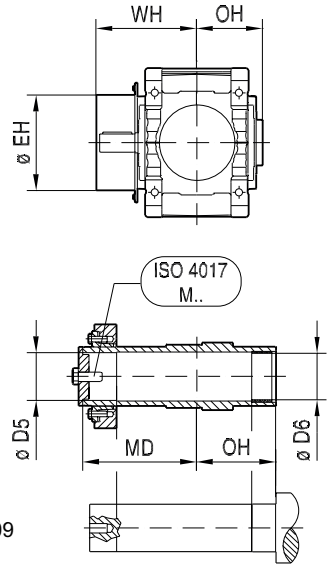


X2FA../HU



→ 408

X2FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X2F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	694	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	850	48	440	910	250	280	331	210_{m6}	350	703	221	50_{h9}	M30	2650
X230	734	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	850	48	440	950	250	280	331	230_{m6}	410	763	241	50_{h9}	M36	2830
X240	776	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	900	56	510	990	250	305	377	230_{m6}	410	811	241	50_{h9}	M36	3630
X250	799	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	900	56	510	1010	250	305	377	240_{m6}	410	811	252	56_{h9}	M36	3780

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5**						i = 12.5 ... 18* / i = 14 ... 20**					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X220*	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X230**	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X240*	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24
X250**	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24

X2FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2470
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2610
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3345
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3475

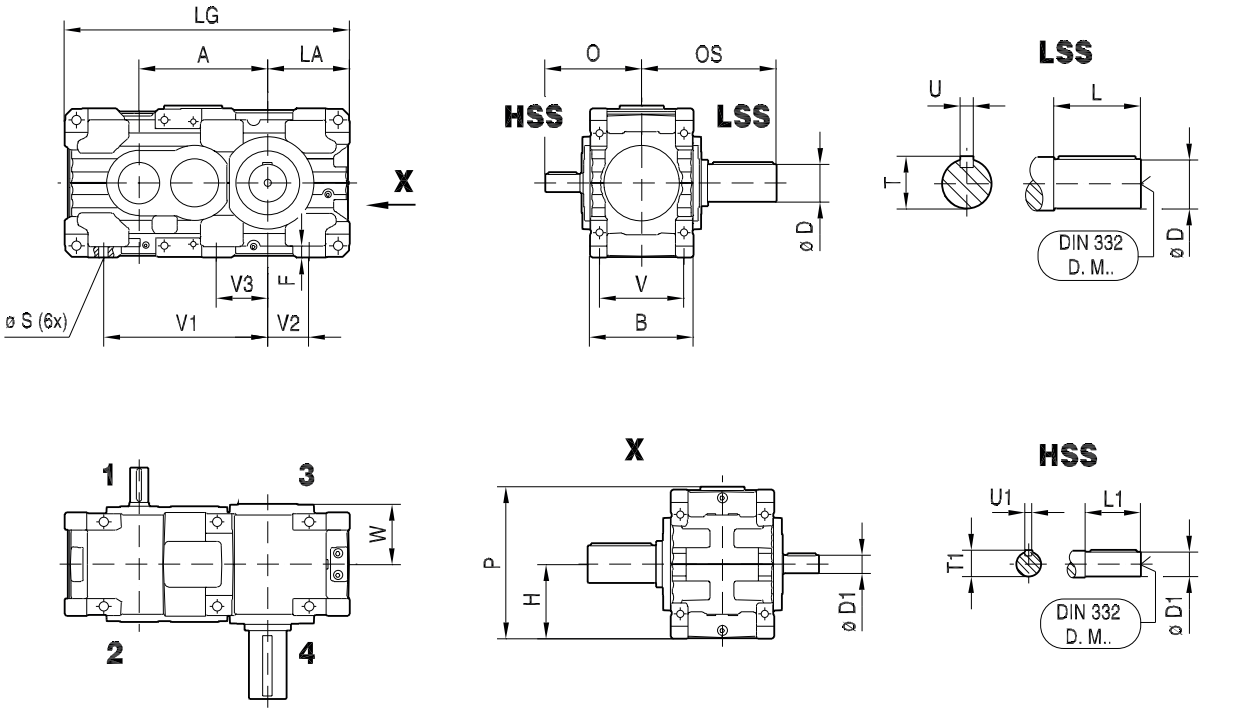
X2FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2575
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2720
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3510
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3635

30593506/EN – 07/2023

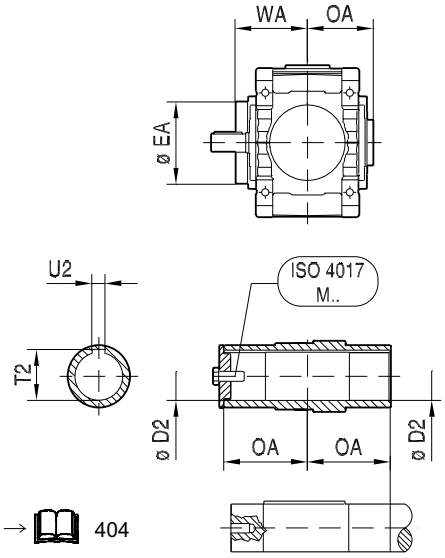
9.1.3 X2F260 – 320

X2FS../HU

48 029 02 08

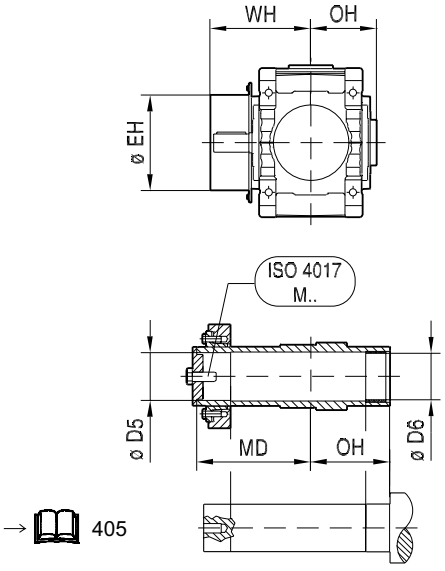


X2FA../HU



→ 404

X2FH../HU



→ 405

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X2F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 33 2 DR.M..	kg
X260	855	705	73	$500_{-0.5}$	$545_{-0.5}$	1900	1017	56	590	1110	300	350	417	250_{m6}	410	847	262	56_{h9}	M36	4450
X270	890	705	73	$500_{-0.5}$	$545_{-0.5}$	1935	1017	56	590	1110	300	350	419	270_{m6}	470	920	282	63_{h9}	M36	4900
X280	942	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1127	56	590	1190	360	380	419	290_{m6}	470	920	302	63_{h9}	M36	5350
X290	987	785	86	$580_{-0.5}$	$620_{-0.5}$	2187	1177	65	655	1280	330	355	465	290_{m6}	470	962	302	63_{h9}	M36	6550
X300	1016	785	86	$580_{-0.5}$	$620_{-0.5}$	2216	1177	65	655	1280	330	355	465	300_{m6}	470	962	314	70_{h9}	M36	7250
X310	1100	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	1277	65	720	1435	385	455	499	320_{m6}	470	999	334	70_{h9}	M42	7500
X320	1134	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	1277	65	720	1435	385	455	499	340_{m6}	550	1079	355	80_{h9}	M42	8300

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X260*	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X270**	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X280***	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X290*	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X300**	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X310*	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30
X320**	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30

X2FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110–8.8	4050
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	4450
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	4850
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	5900
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	6550
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	6750
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	7500

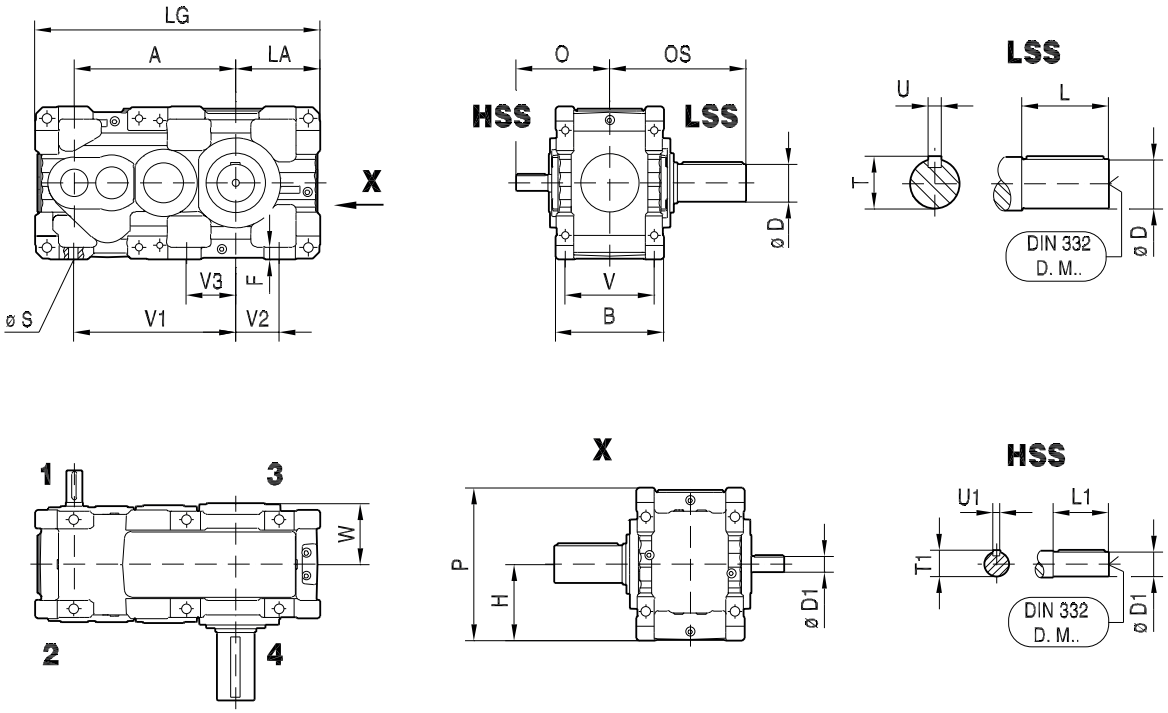
X2FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110–8.8	4200
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	4700
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	5100
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	6150
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	6800
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	7100
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	7850

30593506/EN – 07/2023

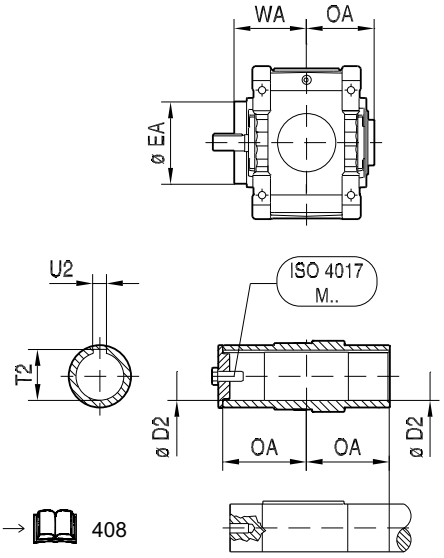
9.1.4 X3F100 – 210

X3FS../HU

48 026 03 07

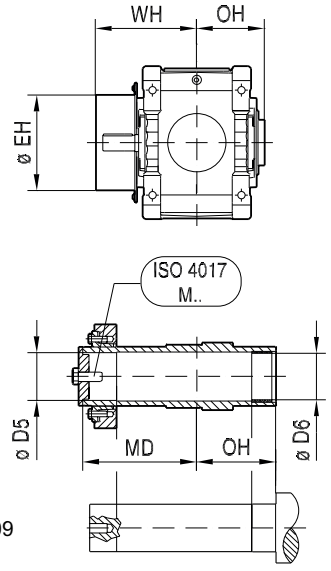


X3FA../HU



→ 408

X3FH../HU



→ 409

30593506/EN – 07/2023

X.F..													
X3F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W
X100	360	260	29	$190_{-0.5}$	$190_{-0.5}$	663	380	24 (4x)	210	370	90	-	153
X110	380	260	29	$190_{-0.5}$	$215_{-0.5}$	708	380	24 (4x)	210	390	115	-	153
X120	427	300	33	$225_{-0.5}$	$215_{-0.5}$	767	450	28 (4x)	245	440	105	-	174
X130	463	300	33	$225_{-0.5}$	$250_{-0.5}$	838	450	28 (4x)	245	475	140	-	174
X140	502	360	42	$265_{-0.5}$	$250_{-0.5}$	903	530	35 (4x)	290	510	110	-	202
X150	544	360	42	$265_{-0.5}$	$295_{-0.5}$	990	530	35 (4x)	290	555	155	-	202
X160	611	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	630	42 (4x)	340	620	185	-	240
X170	662	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	630	42 (4x)	340	670	185	-	240
X180	707	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	670	42 (6x)	390	710	190	215	277
X190	739	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	670	42 (6x)	390	740	190	215	277
X200	794	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	750	48 (6x)	420	780	205	230	298
X210	830	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	750	48 (6x)	420	815	205	230	298

X.FS.. LSS						
Ø D	L	OS	T	U	DIN 332 DR.M..	kg
80_{m6}	170	343	85	22_{h9}	M20	220
90_{m6}	170	346	95	25_{h9}	M24	225
100_{m6}	210	401	106	28_{h9}	M24	340
110_{m6}	210	404	116	28_{h9}	M24	405
120_{m6}	210	432	127	32_{h9}	M24	570
130_{m6}	250	475	137	32_{h9}	M24	625
140_{m6}	250	506	148	36_{h9}	M30	970
160_{m6}	300	556	169	40_{h9}	M30	1125
170_{m6}	300	592	179	40_{h9}	M30	1450
170_{m6}	300	592	179	40_{h9}	M30	1515
180_{m6}	300	612	190	45_{h9}	M30	1850
190_{m6}	350	662	200	45_{h9}	M30	1930

HSS	i = 20 ... 56* / i = 22.4 ... 63** / i = 25 ... 71***						i = 63 ... 90* / i = 71 ... 100** / i = 80 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X100**	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X110***	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X120*	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X130***	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X140*	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X150***	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X160*	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X170***	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X180*	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X190**	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X200*	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20
X210**	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20

X3FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	210
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	215
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	320
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	380
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	575
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	900
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1045
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1350
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1415
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1765
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1815

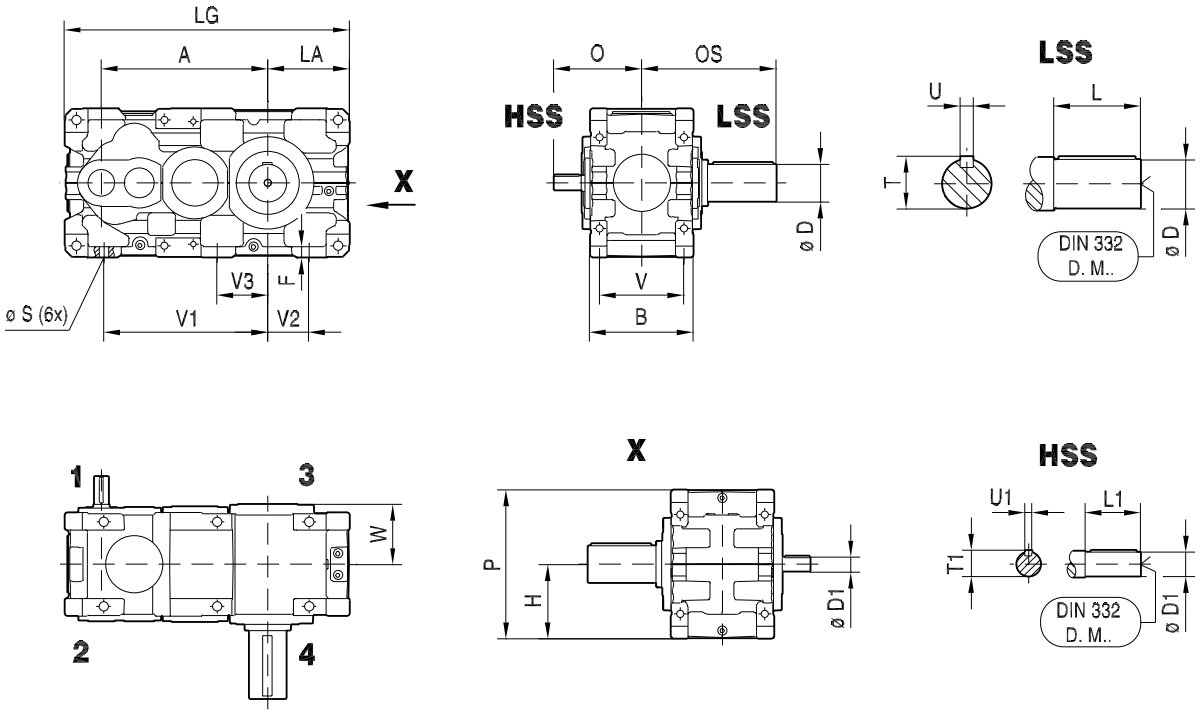
X3FH..								
LSS	Ø D5	Ø D6	ØEH	MD	OH	WH	ISO 4017 M..	kg
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	220
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	225
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	330
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	395
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	575
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	930
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1100
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1400
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1465
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1835
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1900

30593506/EN – 07/2023

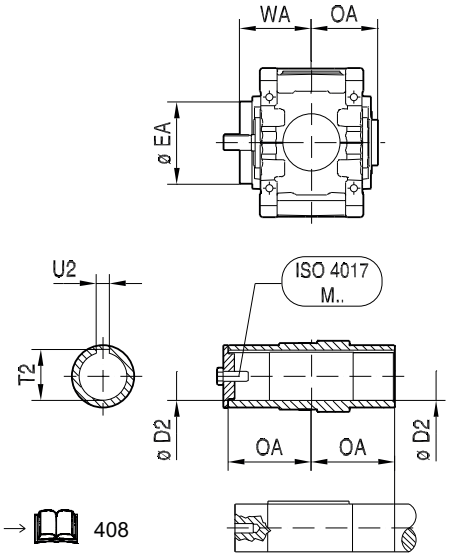
9.1.5 X3F220 – 250

X3FS../HU

48 029 03 07

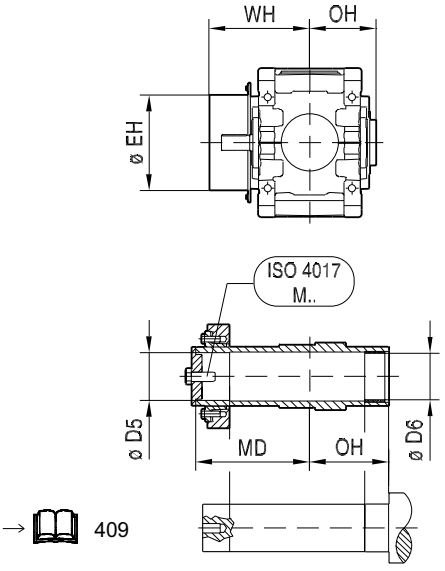


X3FA../HU



→ 408

X3FH../HU



→ 409

30593506/EN – 07/2023

X.F..													
X3F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W
X220	894	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	850	48	440	910	250	280	331
X230	934	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	850	48	440	950	250	280	331
X240	1004	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	900	56	510	990	250	305	377
X250	1027	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	900	56	510	1010	250	305	377

X.FS.. LSS						
Ø D	L	OS	T	U	DIN 332 DR.M..	kg
210_{m6}	350	703	221	50_{h9}	M30	2630
230_{m6}	410	763	241	50_{h9}	M36	2850
230_{m6}	410	811	241	50_{h9}	M36	3690
240_{m6}	410	811	252	56_{h9}	M36	3800

HSS	i = 20 ... 56* / i = 22.4 ... 63**						i = 63 ... 90* / i = 71 ... 100**					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X220*	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X230**	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X240*	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20
X250**	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20

X3FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2450
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2630
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3405
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3495

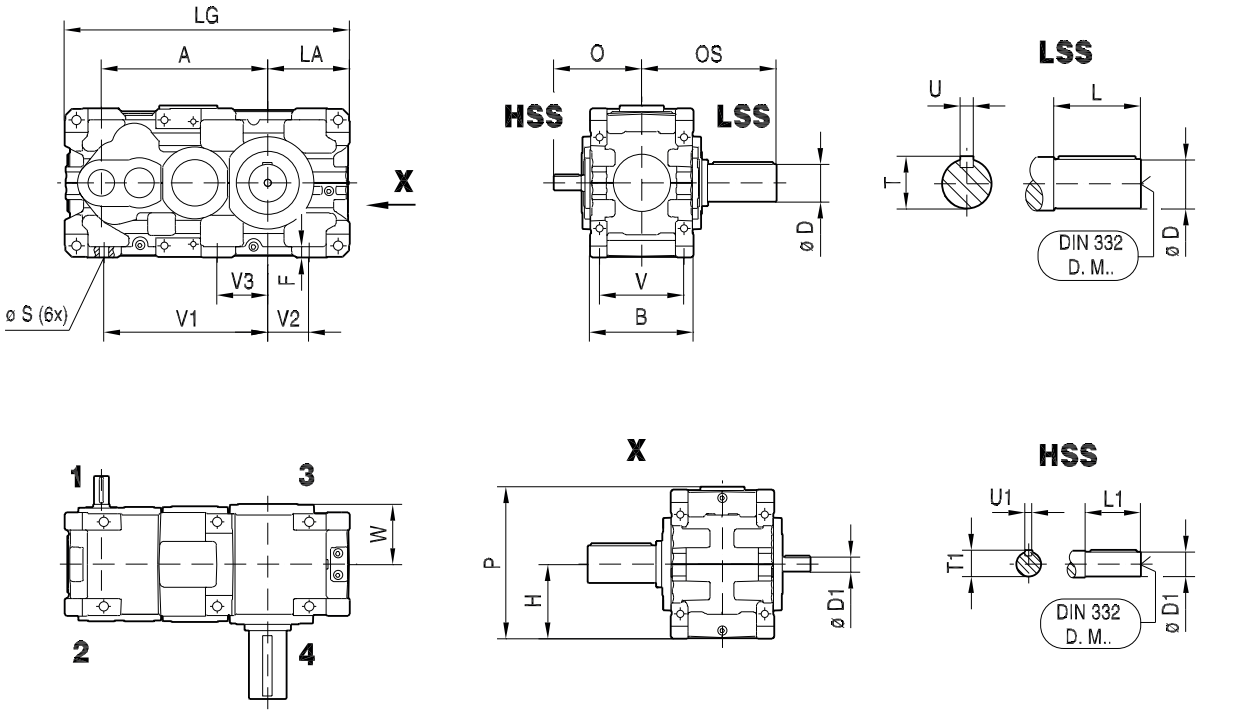
X3FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2555
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2740
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3570
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3655

30593506/EN – 07/2023

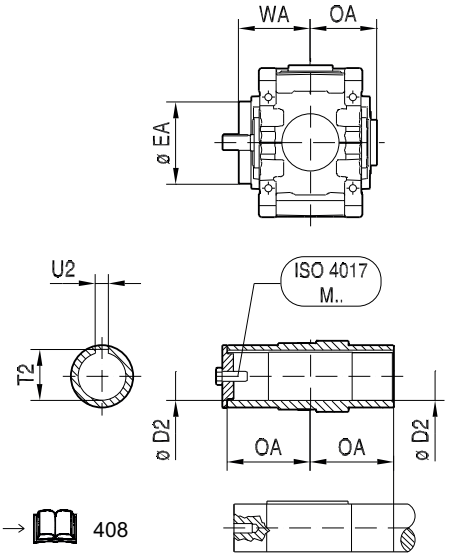
9.1.6 X3F260 – 320

X3FS../HU

48 031 03 08

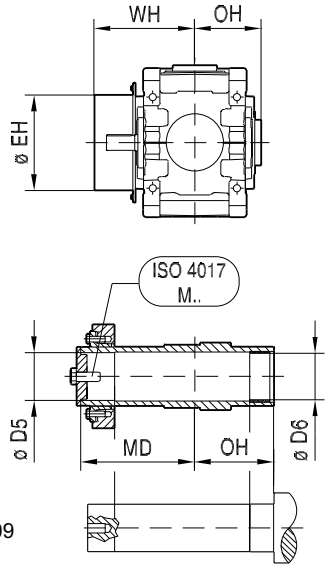


X3FA../HU



→ 408

X3FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X3F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X260	1113	705	73	$500_{-0.5}$	$545_{-0.5}$	1900	1017	56	590	1110	300	350	417	250_{m6}	410	847	262	56_{h9}	M36	4520
X270	1148	705	73	$500_{-0.5}$	$545_{-0.5}$	1935	1017	56	590	1110	300	350	419	270_{m6}	470	920	282	63_{h9}	M36	5020
X280	1200	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1127	56	590	1190	360	380	419	290_{m6}	470	920	302	63_{h9}	M36	5505
X290	1279	785	76	$580_{-0.5}$	$620_{-0.5}$	2187	1177	65	655	1280	330	355	465	290_{m6}	470	962	302	63_{h9}	M36	6920
X300	1308	785	76	$580_{-0.5}$	$620_{-0.5}$	2216	1177	65	655	1280	330	355	465	300_{m6}	470	962	314	70_{h9}	M36	7620
X310	1435	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	1277	65	720	1435	385	455	499	320_{m6}	470	999	334	70_{h9}	M42	8470
X320	1469	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	1277	65	720	1435	385	455	499	340_{m6}	550	1079	355	80_{h9}	M42	9370

HSS	i = 20 ... 50* / i = 22.4 ... 56** / i = 25 ... 63***						i = 56 ... 90* / i = 63 ... 100** / i = 71 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X260*	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X270**	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X280***	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X290*	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X300**	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X310*	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24
X320**	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24

X3FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110–8.8	4070
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	4470
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	4970
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	6270
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	6870
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	7670
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	8470

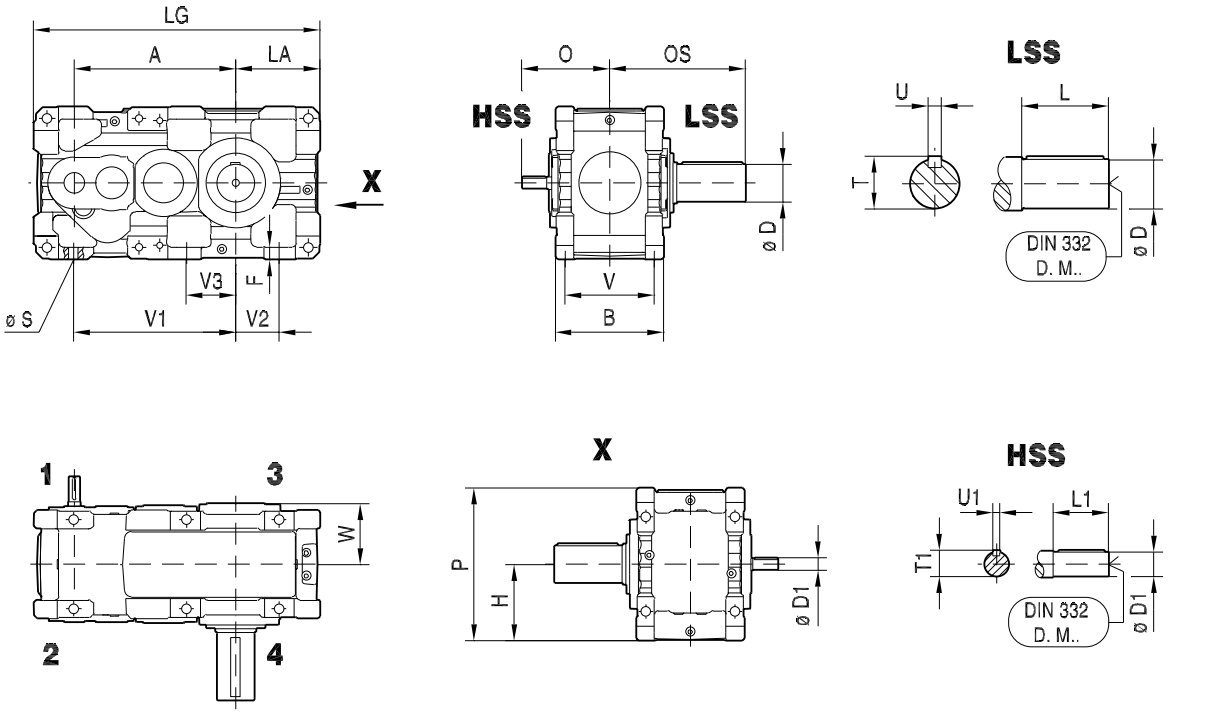
X3FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110–8.8	4220
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	4770
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	5320
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	6520
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	7120
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	8020
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	8320

30593506/EN – 07/2023

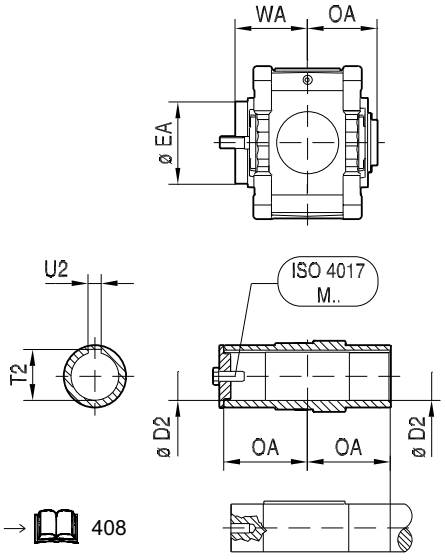
9.1.7 X4F120 – 210

X4FS../HU

48 027 03 07

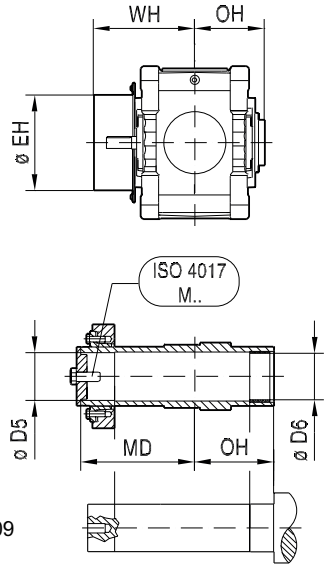


X4FA../HU



→ 408

X4FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X4F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X120	427	300	33	$225_{-0.5}$	$215_{-0.5}$	772	450	28 (4x)	245	440	105	-	174	100_{m6}	210	401	106	28_{h9}	M24	355
X130	463	300	33	$225_{-0.5}$	$250_{-0.5}$	843	450	28 (4x)	245	475	140	-	174	110_{m6}	210	404	116	28_{h9}	M24	395
X140	502	360	42	$265_{-0.5}$	$250_{-0.5}$	908	530	35 (4x)	290	510	110	-	202	120_{m6}	210	432	127	32_{h9}	M24	560
X150	544	360	42	$265_{-0.5}$	$295_{-0.5}$	995	530	35 (4x)	290	555	155	-	202	130_{m6}	250	475	137	32_{h9}	M24	640
X160	611	425	50	$315_{-0.5}$	$355_{-0.5}$	1149	630	42 (4x)	340	620	185	-	240	140_{m6}	250	506	148	36_{h9}	M30	960
X170	662	425	50	$315_{-0.5}$	$355_{-0.5}$	1200	630	42 (4x)	340	670	185	-	240	160_{m6}	300	556	169	40_{h9}	M30	1160
X180	707	475	55	$335_{-0.5}$	$370_{-0.5}$	1254	670	42 (6x)	390	710	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1410
X190	739	475	55	$335_{-0.5}$	$370_{-0.5}$	1287	670	42 (6x)	390	740	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1450
X200	794	515	60	$375_{-0.5}$	$420_{-0.5}$	1415	750	48 (6x)	420	780	205	230	298	180_{m6}	300	612	190	45_{h9}	M30	1900
X210	830	515	60	$375_{-0.5}$	$420_{-0.5}$	1451	750	48 (6x)	420	815	205	230	298	190_{m6}	350	662	200	45_{h9}	M30	2090

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X120*	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X130***	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X140*	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X150***	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X160*	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12
X170***	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12
X180*	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X190**	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X200*	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16
X210**	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16

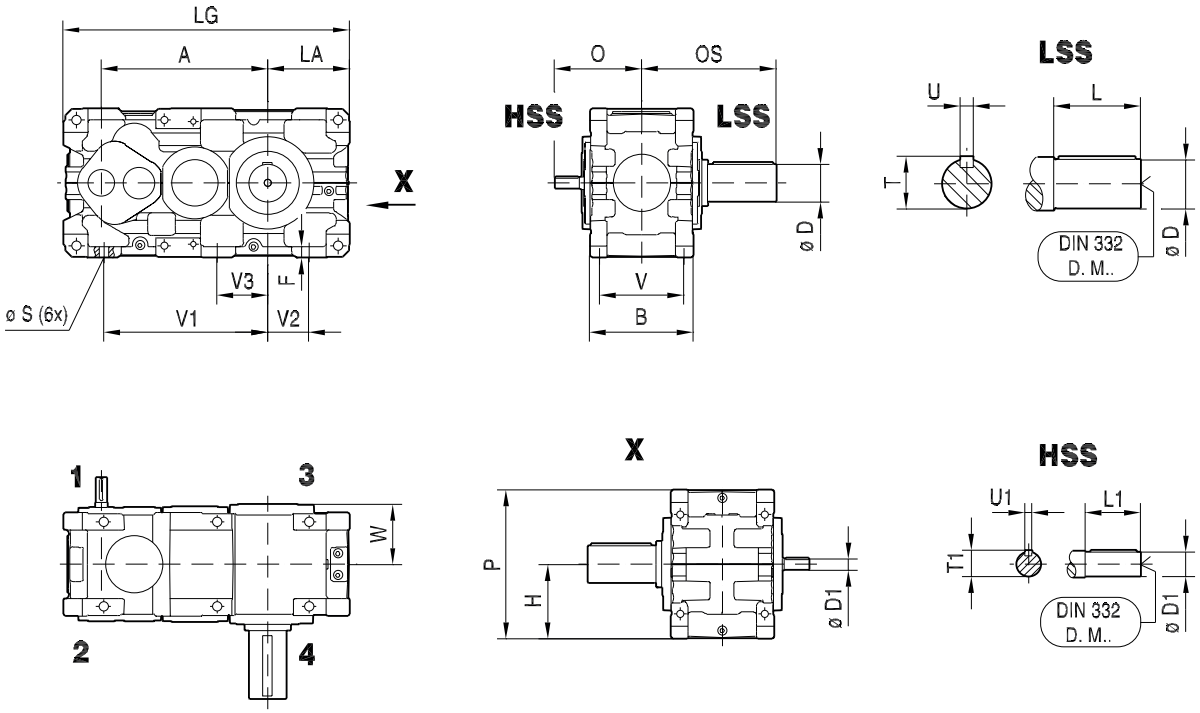
X4FA..									X4FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	335	X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	345
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	370	X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	385
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	525	X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	550
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	590	X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	620
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	890	X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	920
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1080	X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1135
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1310	X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1360
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1350	X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1400
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1815	X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1885
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1975	X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2060

30593506/EN – 07/2023

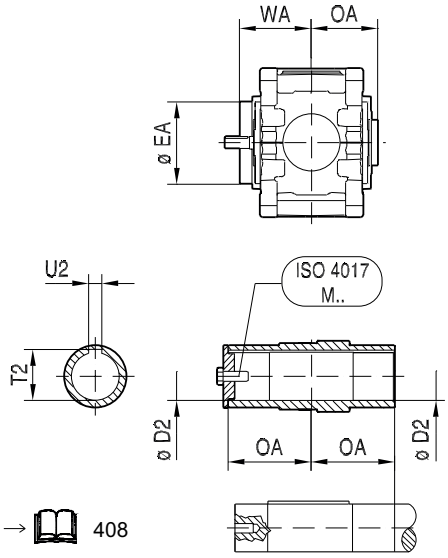
9.1.8 X4F220 – 250

X4FS../HU

48 030 03 07

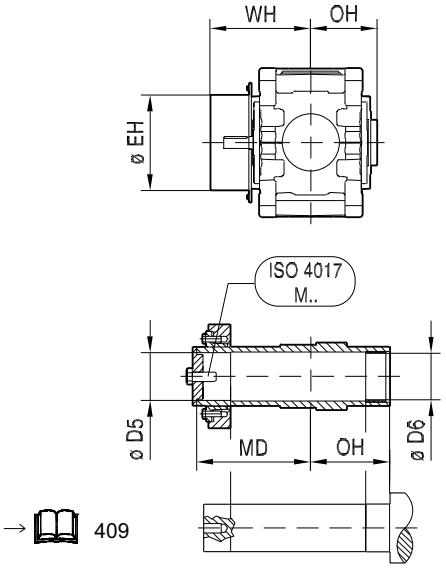


X4FA../HU



→ 408

X4FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X4F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	894	540	62	$425_{-0.5}$	$465_{-0.5}$	1591	850	48	440	910	250	280	331	210_{m6}	350	703	221	50_{h9}	M30	2680
X230	934	540	62	$425_{-0.5}$	$465_{-0.5}$	1631	850	48	440	950	250	280	331	230_{m6}	410	763	241	50_{h9}	M36	3040
X240	1004	625	68	$450_{-0.5}$	$495_{-0.5}$	1729	900	56	510	990	250	305	377	230_{m6}	410	811	241	50_{h9}	M36	3750
X250	1027	625	68	$450_{-0.5}$	$495_{-0.5}$	1752	900	56	510	1010	250	305	377	240_{m6}	410	811	252	56_{h9}	M36	3875

HSS	i = 100 ... 180* / i = 112 ... 200**						i = 200 ... 355* / i = 224 ... 400**					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X220*	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X230**	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X240*	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20
X250**	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20

X4FA..

LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2500
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2820
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3465
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3570

X4FH..

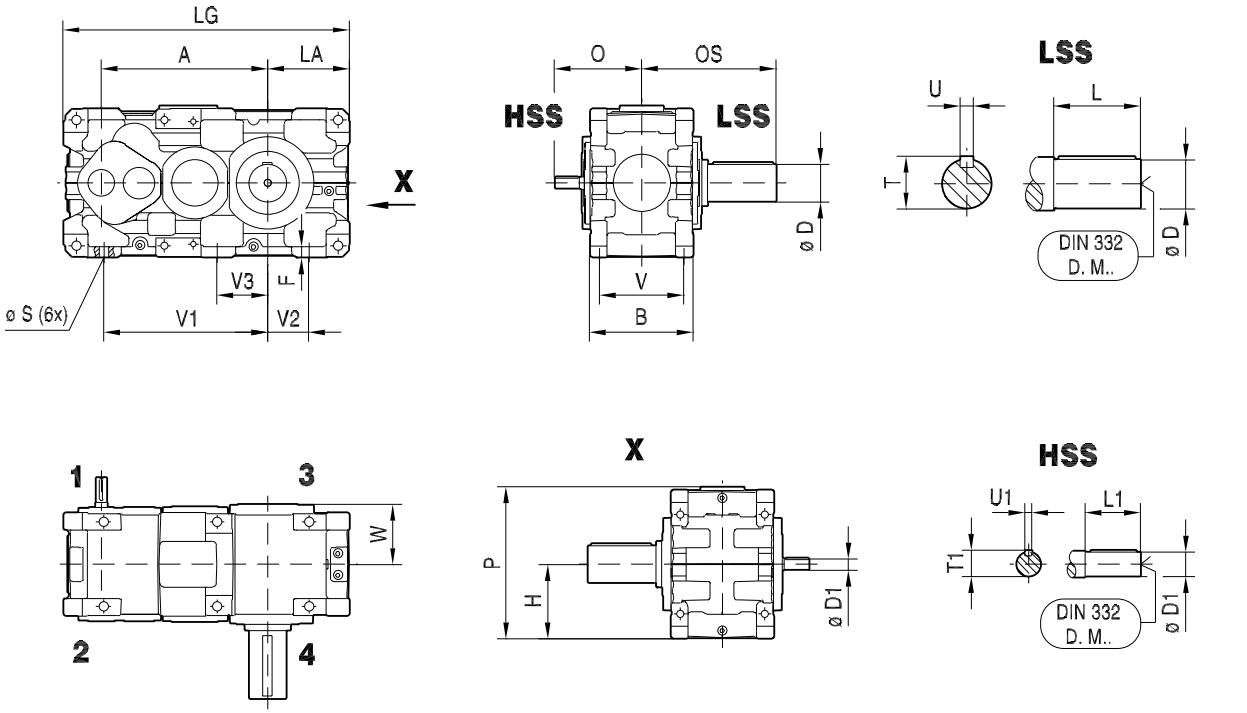
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2605
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2930
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3630
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3730

30593506/EN – 07/2023

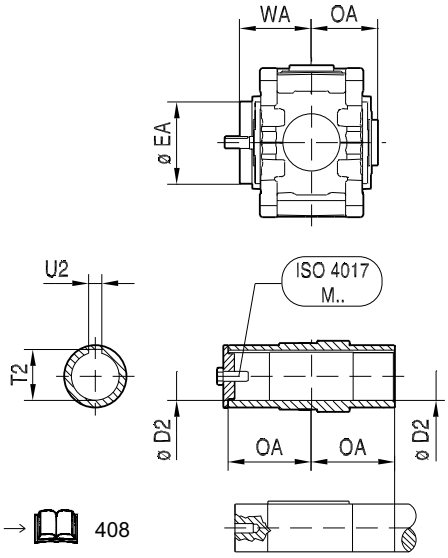
9.1.9 X4F260 – 320

48 033 03 08

X4FS../HU

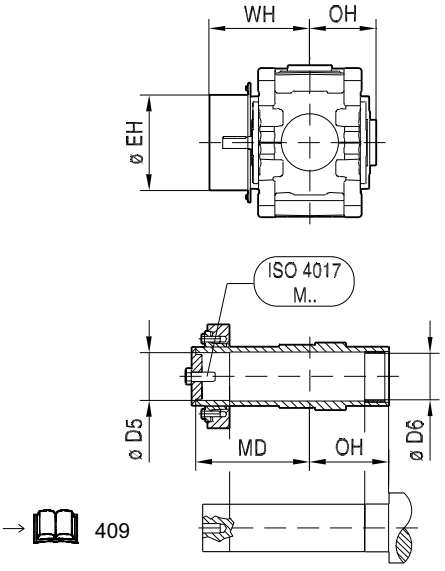


X4FA../HU



→ 408

X4FH../HU



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X4F..	A	B	F	H	LA	LG	P	Ø S	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X260	1113	705	73	$500_{-0.5}$	$545_{-0.5}$	1909	1017	56	590	1110	300	350	417	250_{m6}	410	847	262	56_{h9}	M36	4620
X270	1148	705	73	$500_{-0.5}$	$545_{-0.5}$	1944	1017	56	590	1110	300	350	419	270_{m6}	470	920	282	63_{h9}	M36	5120
X280	1200	705	73	$555_{-0.5}$	$610_{-0.5}$	2061	1127	56	590	1190	360	380	419	290_{m6}	470	920	302	63_{h9}	M36	5670
X290	1279	785	76	$580_{-0.5}$	$620_{-0.5}$	2196	1177	65	655	1280	330	355	465	290_{m6}	470	962	302	63_{h9}	M36	7070
X300	1308	785	76	$580_{-0.5}$	$620_{-0.5}$	2225	1177	65	655	1280	330	355	465	300_{m6}	470	962	314	70_{h9}	M36	7820
X310	1435	850	86	$630_{-0.5}$	$680_{-0.5}$	2419	1277	65	720	1435	385	455	499	320_{m6}	470	999	334	70_{h9}	M42	8670
X320	1469	850	86	$630_{-0.5}$	$680_{-0.5}$	2453	1277	65	720	1435	385	455	499	340_{m6}	550	1079	355	80_{h9}	M42	9620

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D1	L1	O	T1	U1	DIN 332 DR. M..	Ø D1	L1	O	T1	U1	DIN 332 DR. M..
X260*	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X270**	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X280***	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X290*	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X300**	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X310*	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24
X320**	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24

X4FA..									X4FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110–8.8	4170	**X260**	250^{H7}	255^{H9}	558	608	437	694	M36x110–8.8	4320
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	4620	**X270**	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110–8.8	5120	**X280**	280^{H7}	285^{H9}	602	630	450	706	M36x110–8.8	5370
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	6370	**X290**	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	6620
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110–8.8	7070	**X300**	300^{H7}	305^{H9}	634	679	492	753	M36x110–8.8	7320
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	7820	**X310**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	8170
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130–8.8	8470	**X320**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130–8.8	8820

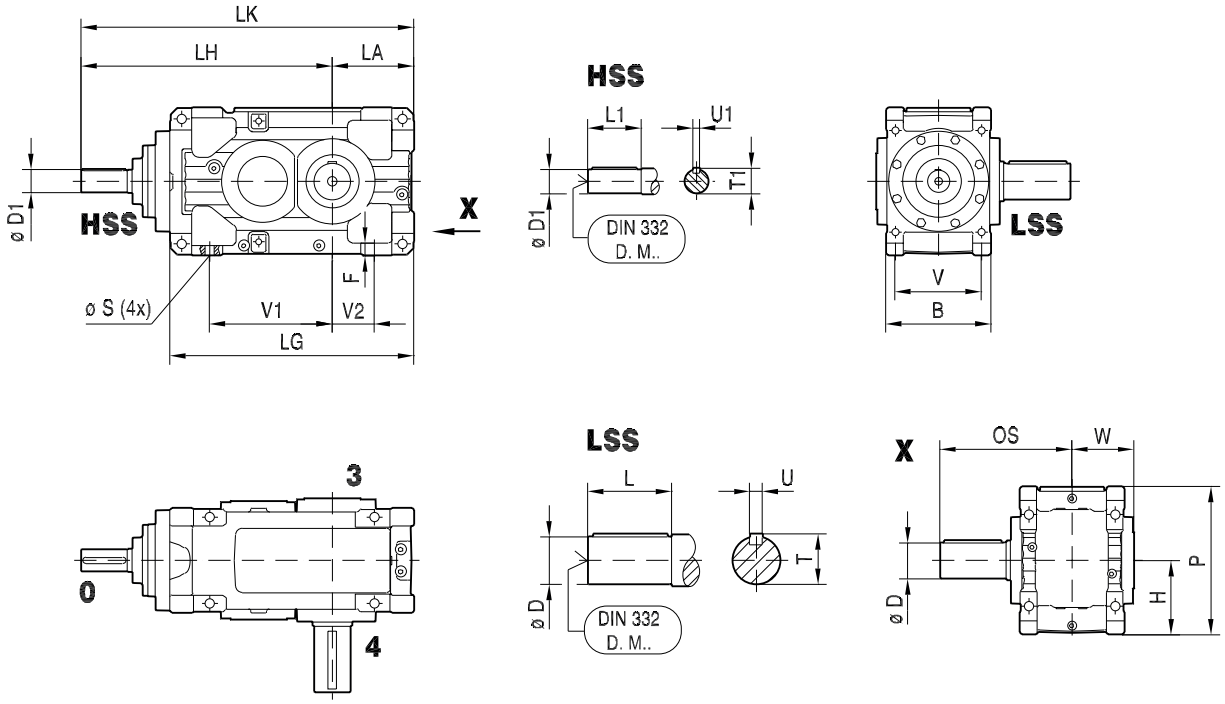
30593506/EN – 07/2023

9.2 X.K.. bevel-helical gear units [mm]

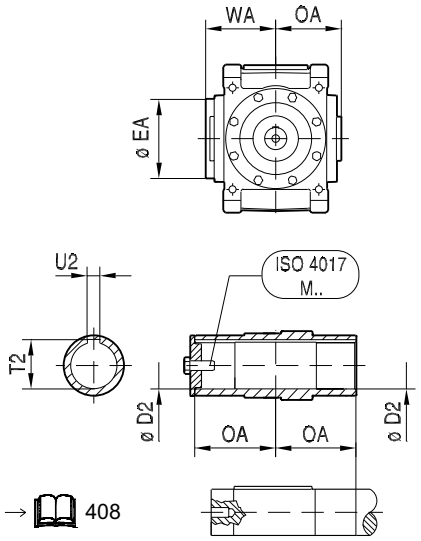
9.2.1 X2K100 – 210

X2KS../HU

48 001 04 07

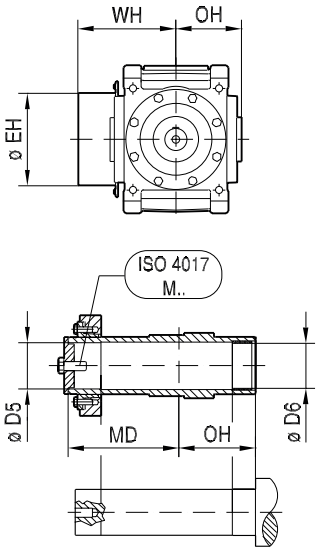


X2KA../HU



→ 408

X2KH../HU



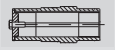
→ 409

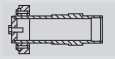
30593506/EN – 07/2023

X.K..														
X2K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S (4x)**	**V**	**V1**	**V2**	**W**	**kg**
X100	260	29	$190_{-0.5}$	$190_{-0.5}$	601	655	845	380	24	210	315	90	153	235
X110	260	29	$190_{-0.5}$	$215_{-0.5}$	646	675	890	380	24	210	335	115	153	250
X120	300	33	$225_{-0.5}$	$215_{-0.5}$	697	752	967	450	28	245	370	105	174	350
X130	300	33	$225_{-0.5}$	$250_{-0.5}$	768	788	1038	450	28	245	405	140	174	405
X140	360	42	$265_{-0.5}$	$250_{-0.5}$	784	816	1066	530	35	290	390	110	202	560
X150	360	42	$265_{-0.5}$	$295_{-0.5}$	871	858	1153	530	35	290	435	155	202	650
X160	425	50	$315_{-0.5}$	$355_{-0.5}$	1023	1010	1365	630	42	340	495	185	240	995
X170	425	50	$315_{-0.5}$	$355_{-0.5}$	1074	1061	1416	630	42	340	545	185	240	1115
X180	475	55	$335_{-0.5}$	$370_{-0.5}$	1105	1137	1507	670	42	390	555	190	277	1365
X190	475	55	$335_{-0.5}$	$370_{-0.5}$	1137	1169	1539	670	42	390	585	190	277	1480
X200	515	60	$375_{-0.5}$	$420_{-0.5}$	1241	1268	1688	750	48	420	605	205	298	1910
X210	515	60	$375_{-0.5}$	$420_{-0.5}$	1277	1304	1724	750	48	420	640	205	298	2020

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X100	50_{k6}	110	53.5	14_{h9}	M16
X110	50_{k6}	110	53.5	14_{h9}	M16
X120	60_{m6}	140	64	18_{h9}	M20
X130	60_{m6}	140	64	18_{h9}	M20
X140	70_{m6}	140	74.5	20_{h9}	M20
X150	70_{m6}	140	74.5	20_{h9}	M20
X160	85_{m6}	170	90	22_{h9}	M20
X170	85_{m6}	170	90	22_{h9}	M20
X180	100_{m6}	210	106	28_{h9}	M24
X190	100_{m6}	210	106	28_{h9}	M24
X200	110_{m6}	210	116	28_{h9}	M24
X210	110_{m6}	210	116	28_{h9}	M24

X2KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	225
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	240
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	330
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	380
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	525
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	925
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1035
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1265
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1380
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1825
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1905

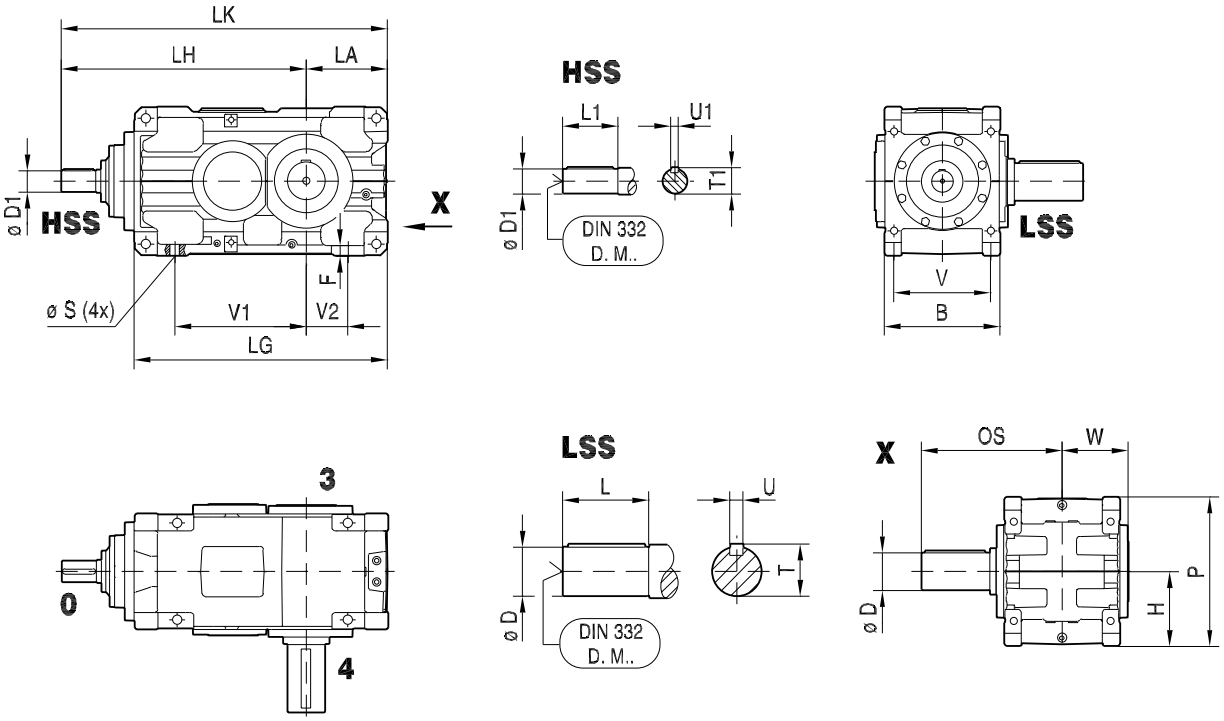
X2KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	235
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	250
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	340
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	395
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	550
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	955
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1090
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1315
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1430
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1895
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1990

30593506/EN – 07/2023

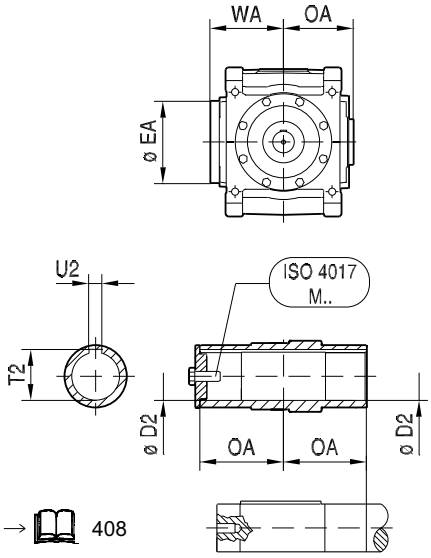
9.2.2 X2K220 – 250

X2KS../HU

48 004 03 07

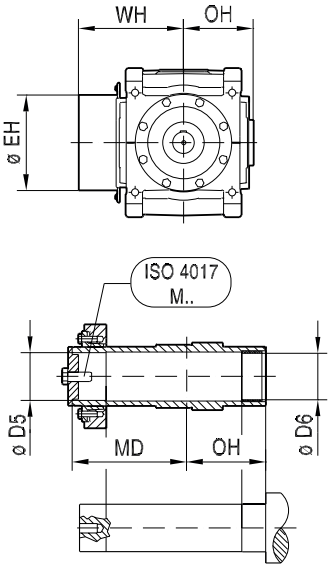


X2KA../HU



→ 408

X2KH../HU



→ 409

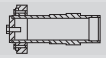
30593506/EN – 07/2023

X.K..														
X2K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S (4x)**	**V**	**V1**	**V2**	**W**	**kg**
X220	610	62	$425_{-0.5}$	$465_{-0.5}$	1412	1436	1901	850	48	510	730	250	370	2860
X230	610	62	$425_{-0.5}$	$465_{-0.5}$	1452	1476	1941	850	48	510	770	250	370	3040
X240	700	68	$450_{-0.5}$	$495_{-0.5}$	1531	1476	1971	900	56	585	780	250	421	3528
X250	700	68	$450_{-0.5}$	$495_{-0.5}$	1554	1499	1994	900	56	585	805	250	421	3643

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X220	210_{m6}	350	738	221	50_{h9}	M30
X230	230_{m6}	410	798	241	50_{h9}	M36
X240	230_{m6}	410	848	241	50_{h9}	M36
X250	240_{m6}	410	848	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X220	120_{m6}	210	127	32_{h9}	M24
X230	120_{m6}	210	127	32_{h9}	M24
X240	130_{m6}	210	137	32_{h9}	M24
X250	130_{m6}	210	137	32_{h9}	M24

X2KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2665
X230	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2810
X240	230^{H8}	420	438	241.4	50^{JS9}	507	M36x110-8.8	3234
X250	240^{H8}	420	438	252.4	56^{JS9}	507	M36x110-8.8	3327

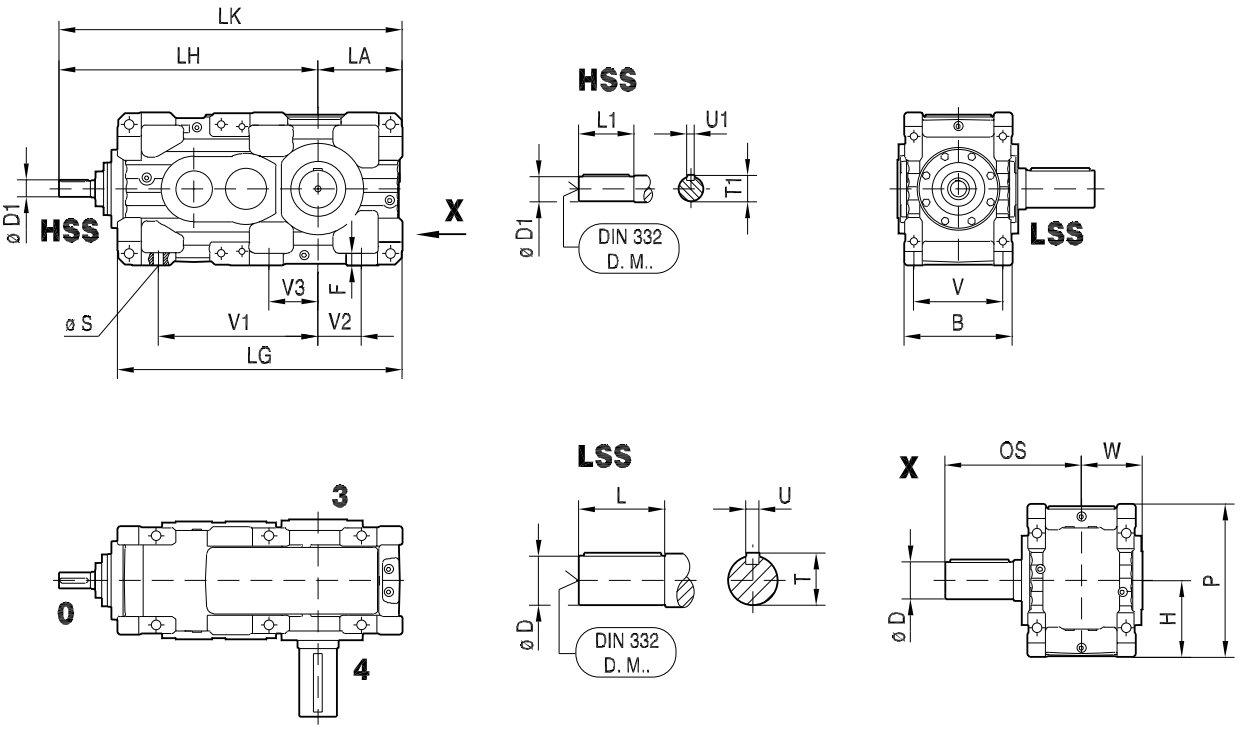
X2KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	533	387.5	597	M30x90-8.8	2775
X230	210^{H7}	211^{H9}	484	533	387.5	597	M30x90-8.8	2915
X240	230^{H7}	231^{H9}	558	609	438	692	M36x110-8.8	3274
X250	240^{H7}	241^{H9}	558	609	438	692	M36x110-8.8	3363

30593506/EN – 07/2023

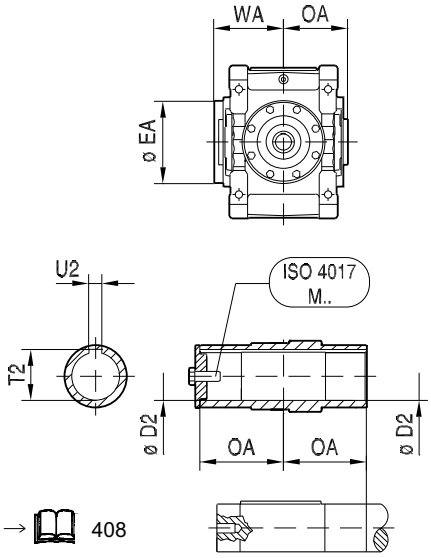
9.2.3 X3K100 – 210

X3KS../HU

48 002 03 07

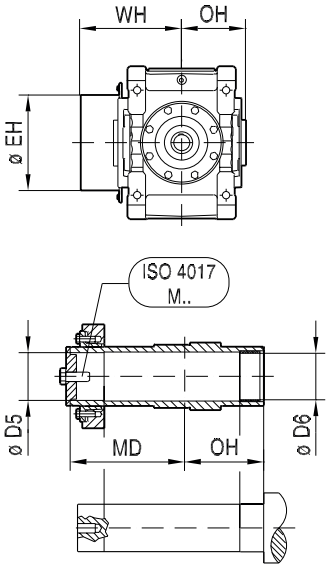


X3KA../HU



→ 408

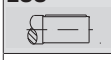
X3KH../HU



→ 409

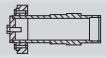
30593506/EN – 07/2023

X.K..															
X3K..	B	F	H	LA	LG	LH	LK	P	Ø S	V	V1	V2	V3	W	kg
X100	260	29	$190_{-0.5}$	$190_{-0.5}$	658	632	822	380	24 (4x)	210	370	90	-	153	235
X110	260	29	$190_{-0.5}$	$215_{-0.5}$	703	652	867	380	24 (4x)	210	390	115	-	153	255
X120	300	33	$225_{-0.5}$	$215_{-0.5}$	767	745	960	450	28 (4x)	245	440	105	-	174	360
X130	300	33	$225_{-0.5}$	$250_{-0.5}$	838	781	1031	450	28 (4x)	245	475	140	-	174	410
X140	360	42	$265_{-0.5}$	$250_{-0.5}$	903	879	1129	530	35 (4x)	290	510	110	-	202	600
X150	360	42	$265_{-0.5}$	$295_{-0.5}$	990	921	1216	530	35 (4x)	290	555	155	-	202	640
X160	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	1036	1391	630	42 (4x)	340	620	185	-	240	985
X170	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	1087	1442	630	42 (4x)	340	670	185	-	240	1130
X180	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	1135	1505	670	42 (6x)	390	710	190	215	277	1400
X190	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	1167	1537	670	42 (6x)	390	740	190	215	277	1510
X200	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	1286	1706	750	48 (6x)	420	780	205	230	298	2020
X210	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	1322	1742	750	48 (6x)	420	815	205	230	298	2120

LSS 	Ø D	L	OS	T	U	DIN 332 DR. M..
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	Ø D1	L1	T1	U1	DIN 332 DR. M..
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X3KA.. 								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	225
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	245
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	340
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	385
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	565
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	590
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	915
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1050
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1300
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1410
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1935
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	2005

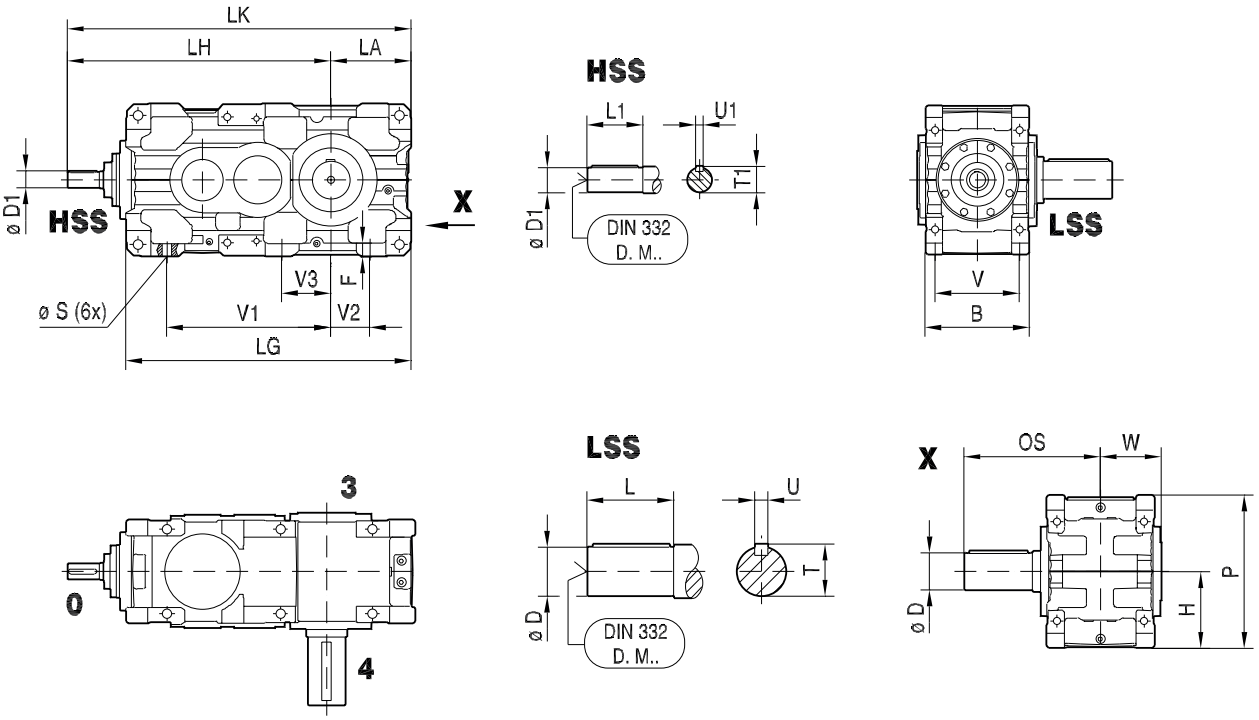
X3KH.. 								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	235
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	255
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	350
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	590
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	620
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	945
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1105
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1350
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1460
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	2005
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2090

30593506/EN – 07/2023

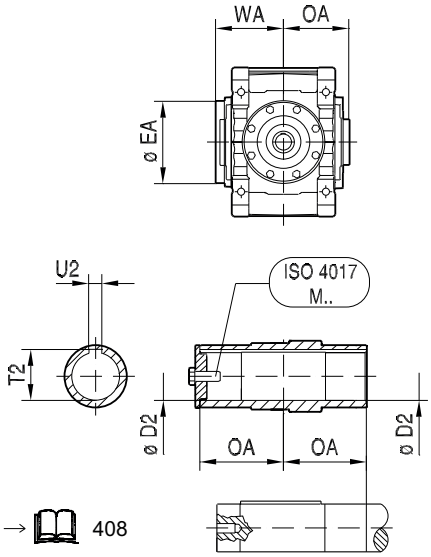
9.2.4 X3K220 – 250

X3KS../HU

48 005 03 07

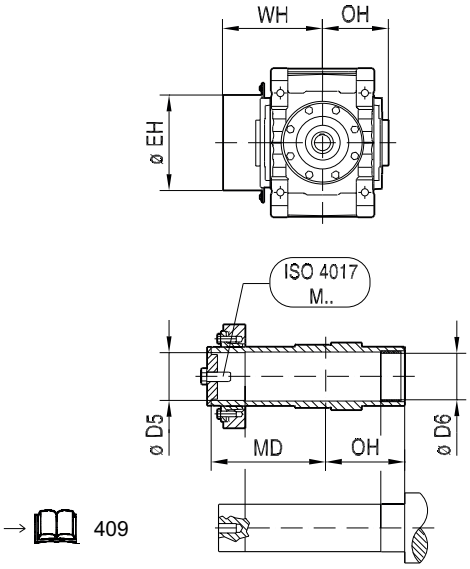


X3KA../HU



→ 408

X3KH../HU



→ 409

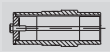
30593506/EN – 07/2023

X.K..															
X3K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S (6x)**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	1430	1895	850	48	440	910	250	280	331	2890
X230	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	1470	1935	850	48	440	950	250	280	331	3060
X240	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	1597	2092	900	56	510	990	250	305	377	3910
X250	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	1620	2115	900	56	510	1010	250	305	377	4040

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

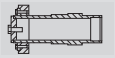
HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X220	85_{m6}	170	90	22_{h9}	M20
X230	85_{m6}	170	90	22_{h9}	M20
X240	100_{m6}	210	106	28_{h9}	M24
X250	100_{m6}	210	106	28_{h9}	M24

X3KA..



LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2710
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2840
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3625
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3735

X3KH..



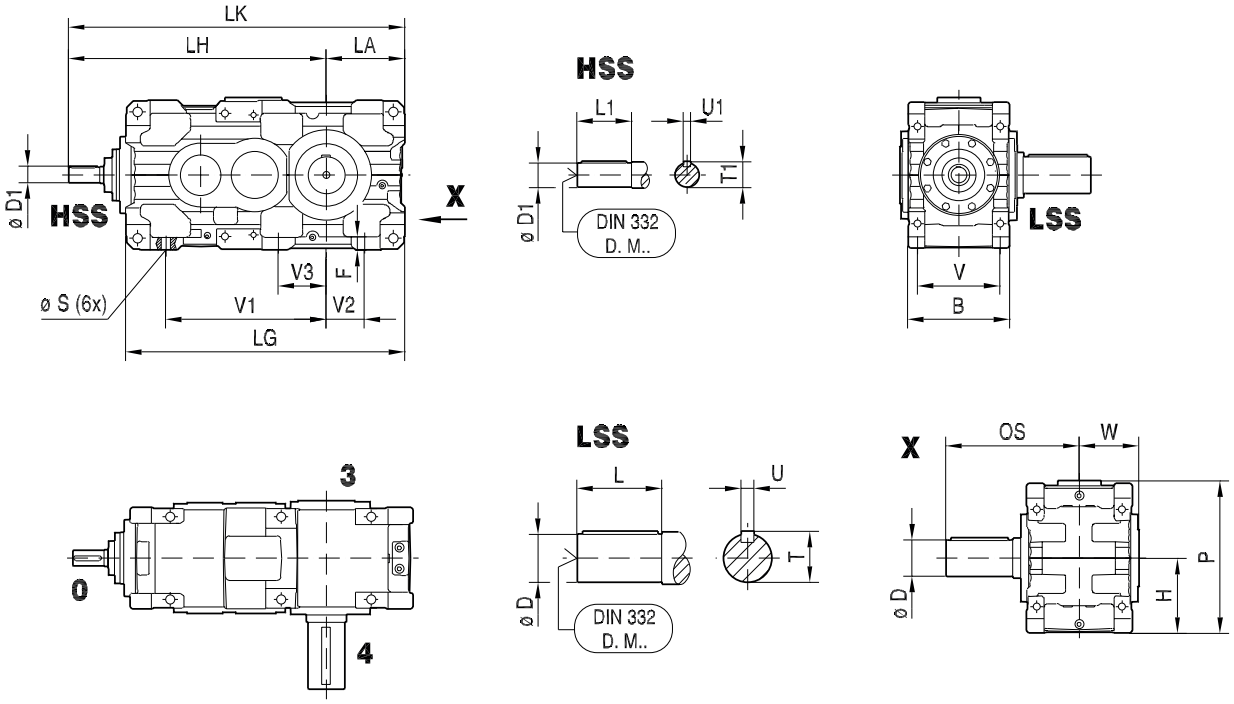
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2815
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2950
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3790
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3895

30593506/EN – 07/2023

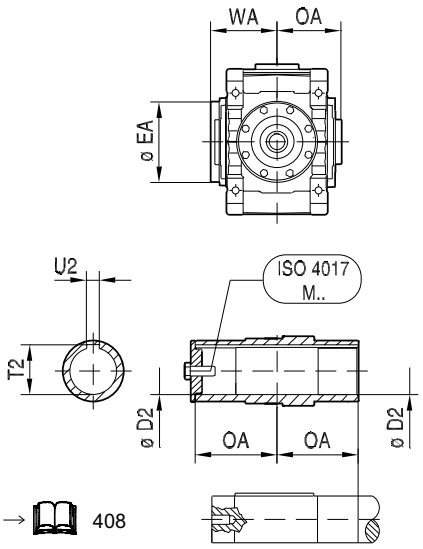
9.2.5 X3K260 – 320

X3KS../HU

48 025 03 08

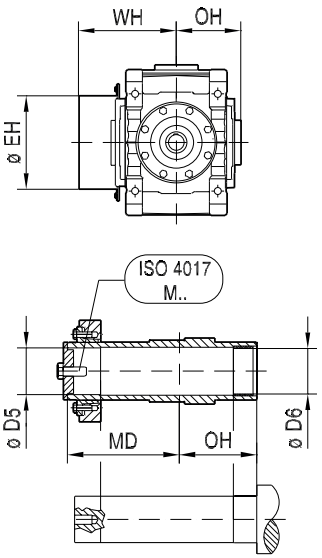


X3KA../HU



→ 408

X3KH../HU



→ 409

30593506/EN – 07/2023

X.K..															
X3K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X260	705	73	$500_{-0.5}$	$545_{-0.5}$	1900	1767	2312	1017	56	590	1110	300	350	417	4870
X270	705	73	$500_{-0.5}$	$545_{-0.5}$	1935	1802	2347	1017	56	590	1110	300	350	419	5370
X280	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1854	2464	1127	56	590	1190	360	380	419	5870
X290	785	86	$580_{-0.5}$	$620_{-0.5}$	2187	2021	2641	1177	65	655	1280	330	355	465	7020
X300	785	86	$580_{-0.5}$	$620_{-0.5}$	2216	2050	2670	1177	65	655	1280	330	355	465	7720
X310**	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	2175	2855	1277	65	720	1435	385	455	499	8570
						2135	2815								
X320**	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	2209	2889	1277	65	720	1435	385	455	499	9470
						2169	2849								

LSS	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**	**i**
X260	110_{m6}	210	116	28_{h9}	M24	-
X270	110_{m6}	210	116	28_{h9}	M24	-
X280	110_{m6}	210	116	28_{h9}	M24	-
X290	120_{m6}	210	127	32_{h9}	M24	-
X300	120_{m6}	210	127	32_{h9}	M24	-
X310	130_{m6}	250	137	32_{h9}	M24	i = 12.5 ... 35.5*
	130_{m6}	210	137	32_{h9}	M24	i = 40 ... 71**
X320	130_{m6}	250	137	32_{h9}	M24	i = 14 ... 40*
	130_{m6}	210	137	32_{h9}	M24	i = 45 ... 80**

X3KA..

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4420
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5320
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6970
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7720
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8420

X3KH..

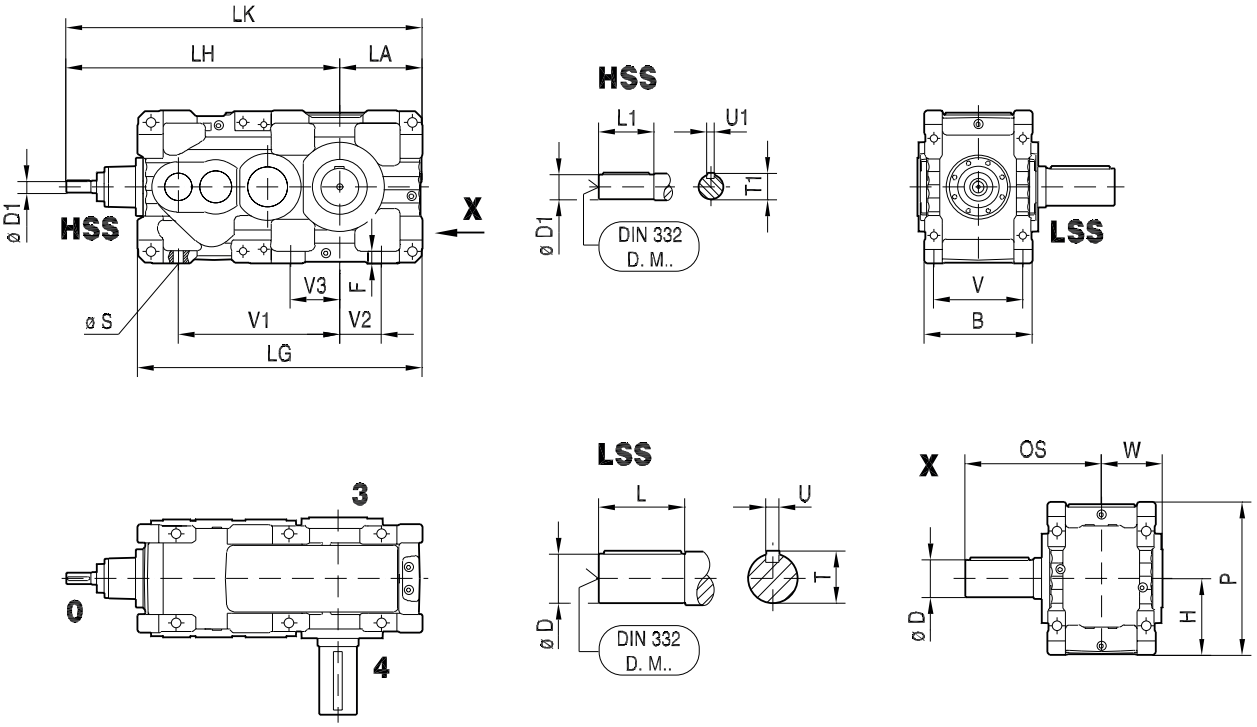
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4570
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5570
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6420
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7220
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8070
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8770

30593506/EN – 07/2023

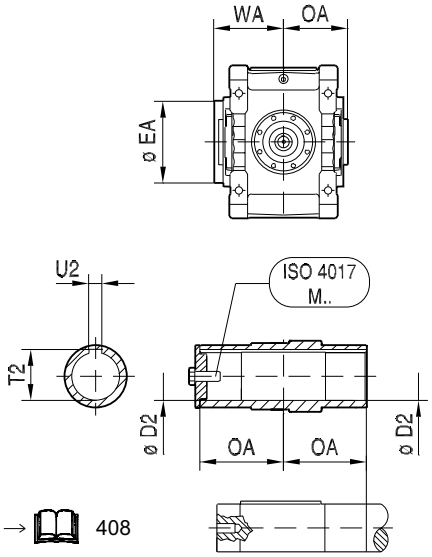
9.2.6 X4K120 – 210

X4KS../HU

48 003 03 07

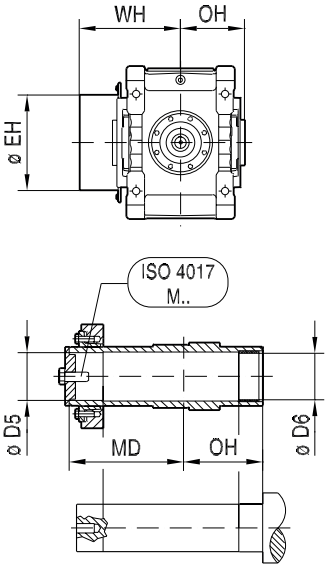


X4KA../HU



→ 408

X4KH../HU



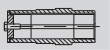
→ 409

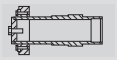
30593506/EN – 07/2023

X.K..															
X4K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X120	300	33	$225_{-0.5}$	$215_{-0.5}$	767	710	925	450	28 (4x)	245	440	105	-	174	340
X130	300	33	$225_{-0.5}$	$250_{-0.5}$	838	746	996	450	28 (4x)	245	475	140	-	174	380
X140	360	42	$265_{-0.5}$	$250_{-0.5}$	903	856	1106	530	35 (4x)	290	510	110	-	202	555
X150	360	42	$265_{-0.5}$	$295_{-0.5}$	990	898	1193	530	35 (4x)	290	555	155	-	202	625
X160	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	1029	1384	630	42 (4x)	340	620	185	-	240	960
X170	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	1080	1435	630	42 (4x)	340	670	185	-	240	1120
X180	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	1198	1568	670	42 (6x)	390	710	190	215	277	1410
X190	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	1230	1600	670	42 (6x)	390	740	190	215	277	1420
X200	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	1285	1705	750	48 (6x)	420	780	205	230	298	1850
X210	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	1321	1741	750	48 (6x)	420	815	205	230	298	1900

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X120	28_{k6}	60	31	8_{h9}	M10
X130	28_{k6}	60	31	8_{h9}	M10
X140	32_{k6}	80	35	10_{h9}	M12
X150	32_{k6}	80	35	10_{h9}	M12
X160	38_{k6}	100	41	10_{h9}	M12
X170	38_{k6}	100	41	10_{h9}	M12
X180	50_{k6}	110	53.5	14_{h9}	M16
X190	50_{k6}	110	53.5	14_{h9}	M16
X200	50_{k6}	110	53.5	14_{h9}	M16
X210	50_{k6}	110	53.5	14_{h9}	M16

X4KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	320
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	355
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	520
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	575
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	890
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1040
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1310
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1320
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1765
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1785

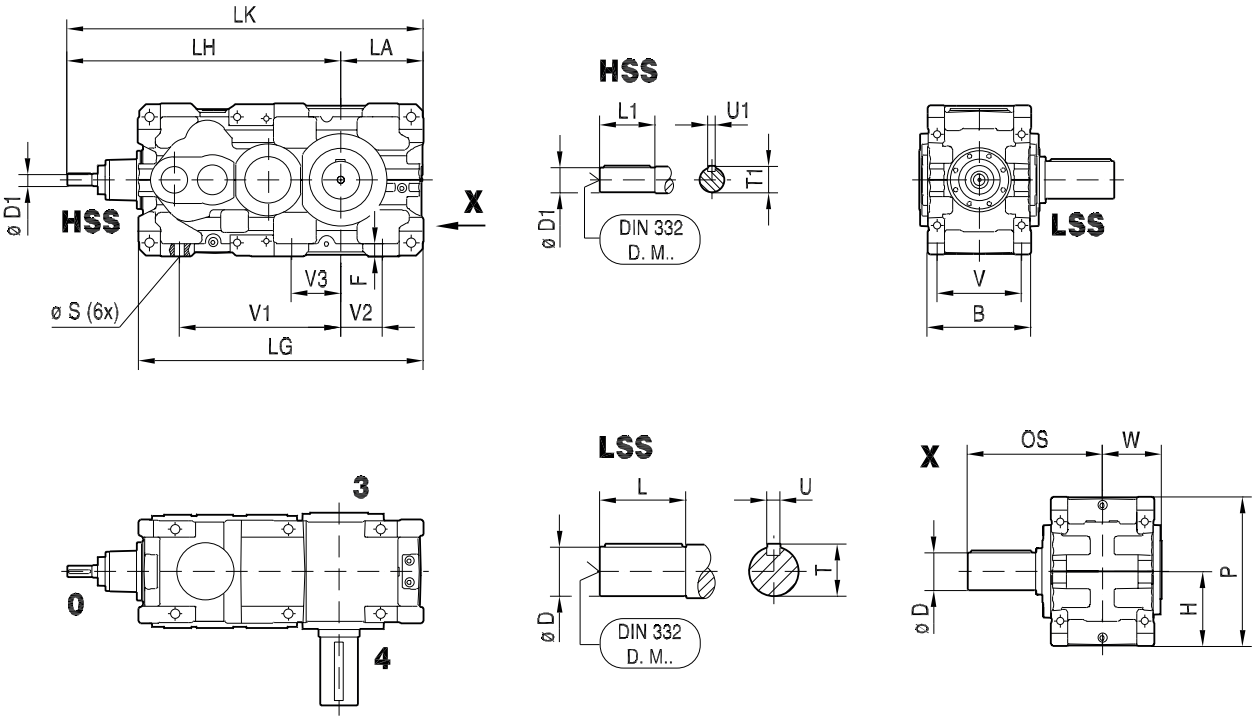
X4KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	330
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	370
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	545
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	605
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	920
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1095
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1360
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1370
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1835
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1870

30593506/EN – 07/2023

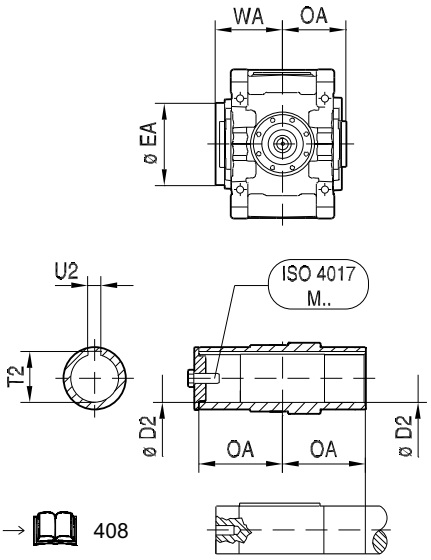
9.2.7 X4K220 – 250

X4KS../HU

48 006 03 07

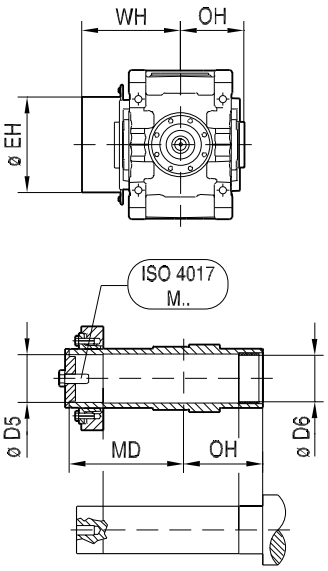


X4KA../HU



→ 408

X4KH../HU



→ 409

30593506/EN – 07/2023

X.K..														
X4K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S (6x)**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	1456	1921	850	48	440	910	250	280	331	2700
X230	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	1496	1963	850	48	440	950	250	280	331	2940
X240	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	1595	2090	900	56	510	990	250	305	377	3780
X250	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	1618	2113	900	56	510	1010	250	305	377	4010

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

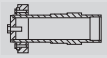
HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20

X4KA..



LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2520
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2720
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3495
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3705

X4KH..



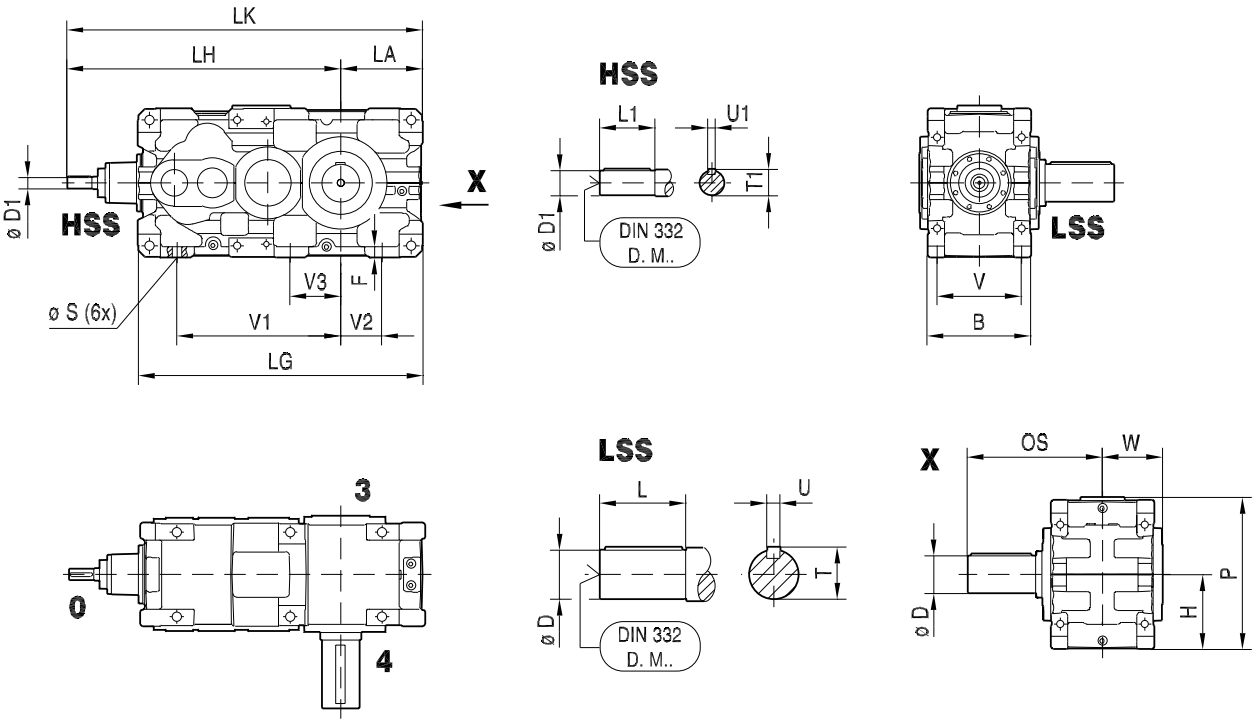
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2625
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2830
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3660
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3865

30593506/EN – 07/2023

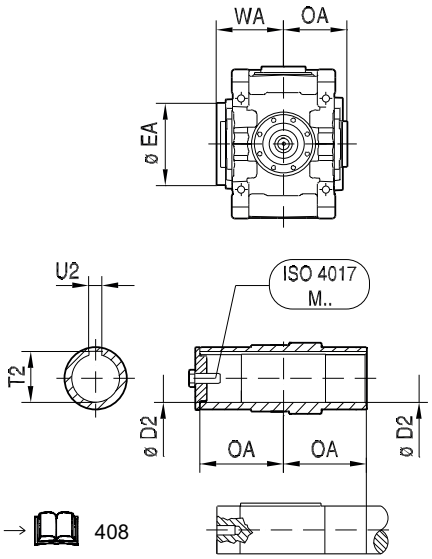
9.2.8 X4K260 – 320

X4KS../HU

48 027 03 08

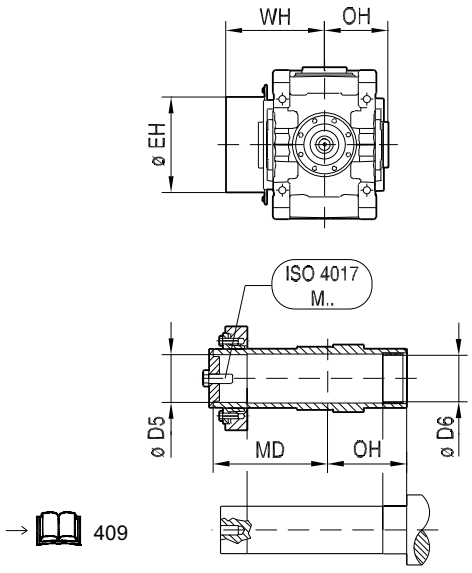


X4KA../HU



→ 408

X4KH../HU



→ 409

30593506/EN – 07/2023

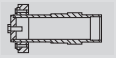
X.K..															
X4K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S (6x)**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X260	705	63	$500_{-0.5}$	$545_{-0.5}$	1900	1785	2330	1017	56	590	1110	300	350	417	4620
X270	705	63	$500_{-0.5}$	$545_{-0.5}$	1935	1820	2365	1017	56	590	1110	300	350	419	5120
X280	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1872	2482	1127	56	590	1190	360	380	419	5670
X290	785	76	$580_{-0.5}$	$620_{-0.5}$	2187	2015	2635	1177	65	655	1280	330	355	465	7070
X300	785	76	$580_{-0.5}$	$620_{-0.5}$	2216	2044	2664	1177	65	655	1280	330	355	465	7820
X310	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	2256	2936	1277	65	720	1435	385	455	499	8670
X320	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	2290	2970	1277	65	720	1435	385	455	499	9620

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X260	80_{m6}	170	85	22_{h9}	M20
X270	80_{m6}	170	85	22_{h9}	M20
X280	80_{m6}	170	85	22_{h9}	M20
X290	85_{m6}	170	90	22_{h9}	M20
X300	85_{m6}	170	90	22_{h9}	M20
X310	100_{m6}	210	106	28_{h9}	M24
X320	100_{m6}	210	106	28_{h9}	M24

X4KA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4170
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4620
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	7070
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

X4KH.. 

LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4320
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5370
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6620
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7320
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8820

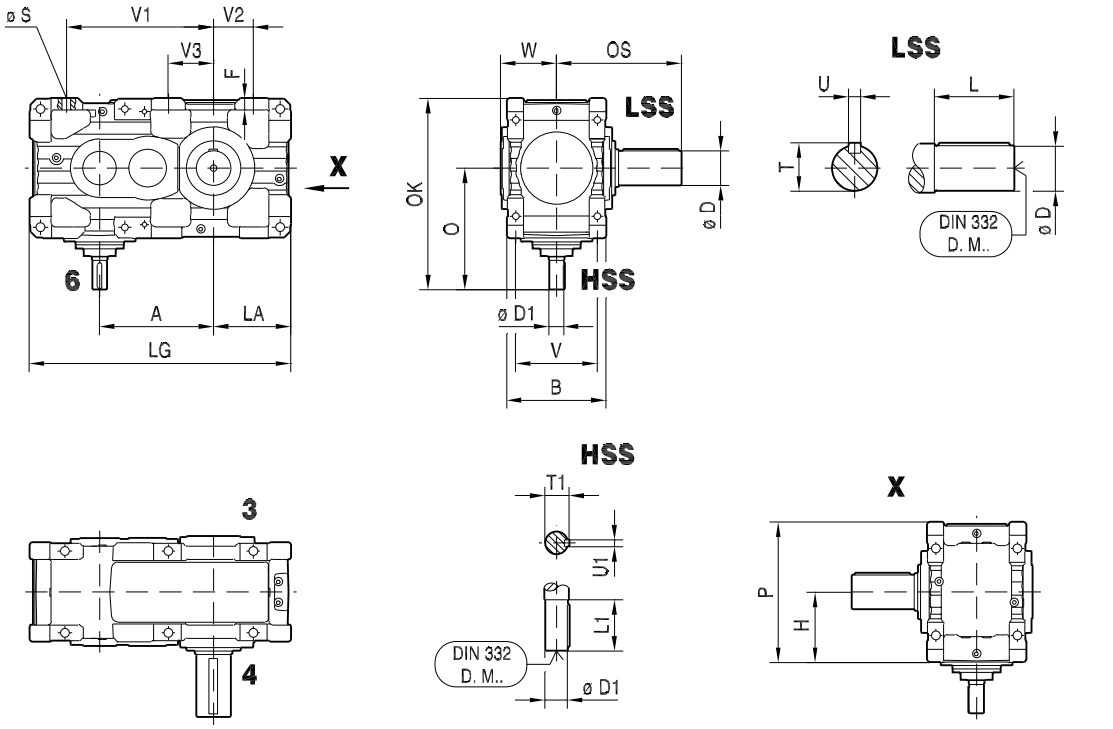
30593506/EN – 07/2023

9.3 X.T.. bevel-helical gear units [mm]

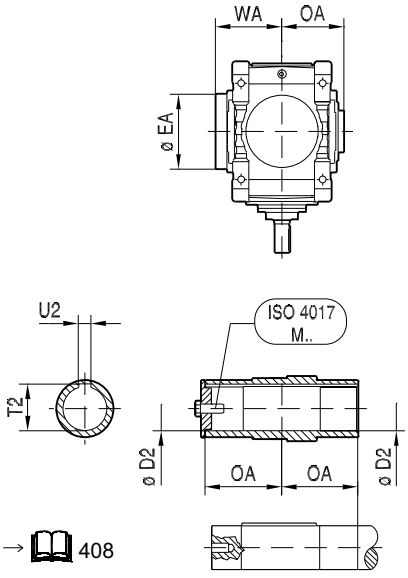
9.3.1 X3T100 - 210

X3TS..

48 029 01 09

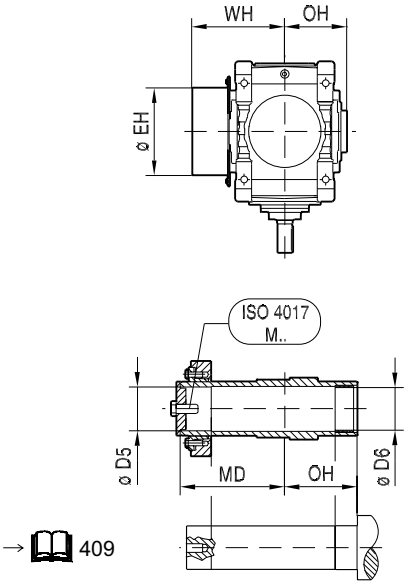


X3TA..



→ 408

X3TH..



→ 409

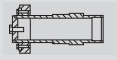
30593506/EN – 07/2023

X.T..																
X3T.	**A**	**B**	**F**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X100	278	260	29	$190_{-0.5}$	$190_{-0.5}$	658	354	544	380	24 (4x)	210	370	90	-	153	240
X110	298	260	29	$190_{-0.5}$	$215_{-0.5}$	703	354	544	380	24 (4x)	210	390	115	-	153	260
X120	327	300	33	$225_{-0.5}$	$215_{-0.5}$	767	418	643	450	28 (4x)	245	440	105	-	174	370
X130	363	300	33	$225_{-0.5}$	$250_{-0.5}$	838	418	643	450	28 (4x)	245	475	140	-	174	420
X140	388	360	42	$265_{-0.5}$	$250_{-0.5}$	903	491	756	530	35 (4x)	290	510	110	-	202	610
X150	430	360	42	$265_{-0.5}$	$295_{-0.5}$	990	491	756	530	35 (4x)	290	555	155	-	202	650
X160	474	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	562	877	630	42 (4x)	340	620	185	-	240	1005
X170	525	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	562	877	630	42 (4x)	340	670	185	-	240	1150
X180	544	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	591	926	670	42 (6x)	390	710	190	215	277	1326
X190	576	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	591	926	670	42 (6x)	390	740	190	215	277	1400
X200	614	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	672	1047	750	48 (6x)	420	780	205	230	298	1870
X210	650	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	672	1047	750	48 (6x)	420	815	205	230	298	1915

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X.TA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	230
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	250
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	350
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	395
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	575
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	935
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1070
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1225
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1300
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1785
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1800

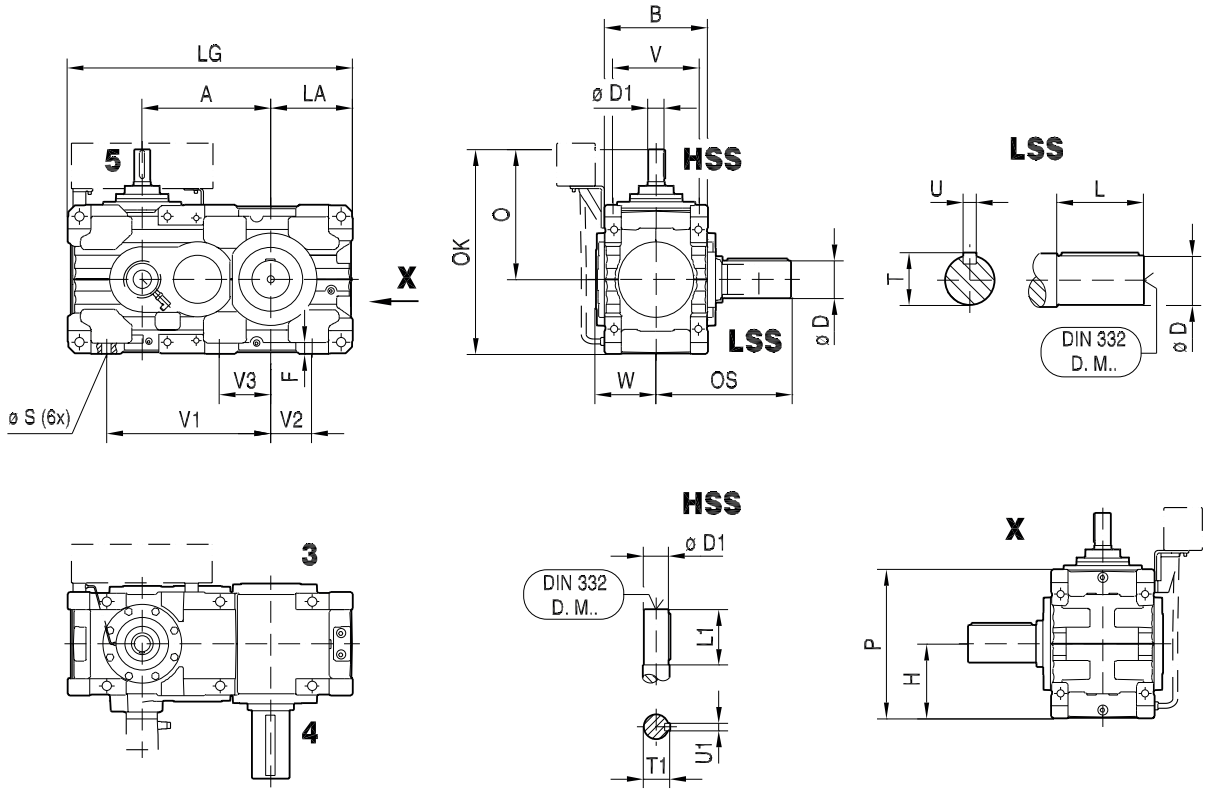
X.TH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	240
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	260
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	360
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	410
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	600
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	965
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1125
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1275
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1350
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1855
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1885

30593506/EN – 07/2023

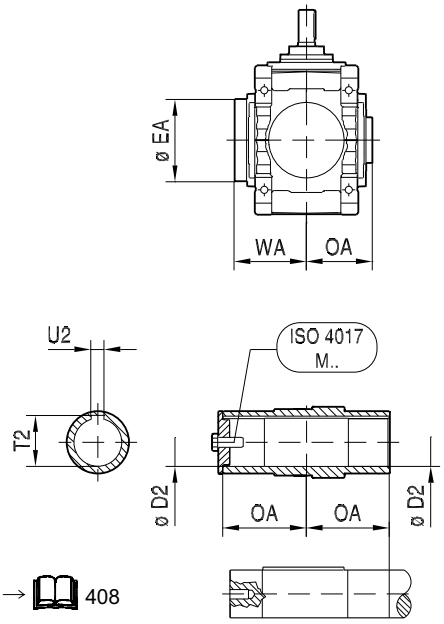
9.3.2 X3T220 - 250

X3TS..

48 030 01 09

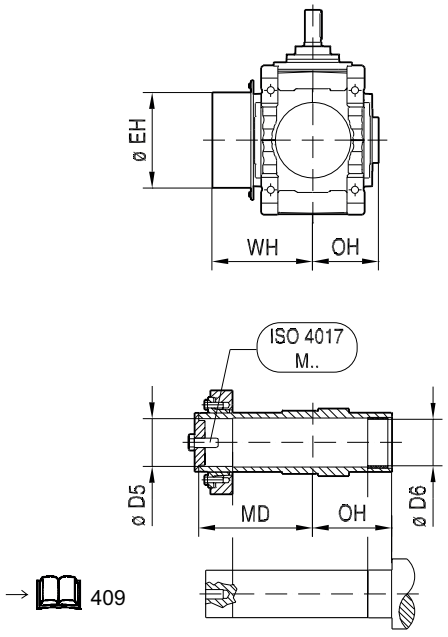


X3TA..



→ 408

X3TH..



→ 409

30593506/EN – 07/2023

X.T..																
X3T.	**A**	**B**	**F**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	694	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	736	1161	850	48	440	910	250	280	331	2620
X230	734	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	736	1161	850	48	440	950	250	280	331	2810
X240	776	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	821	1271	900	56	510	990	250	305	377	3610
X250	799	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	821	1271	900	56	510	1010	250	305	377	3740

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X220	85_{m6}	170	90	22_{h9}	M20
X230	85_{m6}	170	90	22_{h9}	M20
X240	100_{m6}	210	106	28_{h9}	M24
X250	100_{m6}	210	106	28_{h9}	M24

X.TA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2440
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2590
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3325
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3435

X.TH.. 

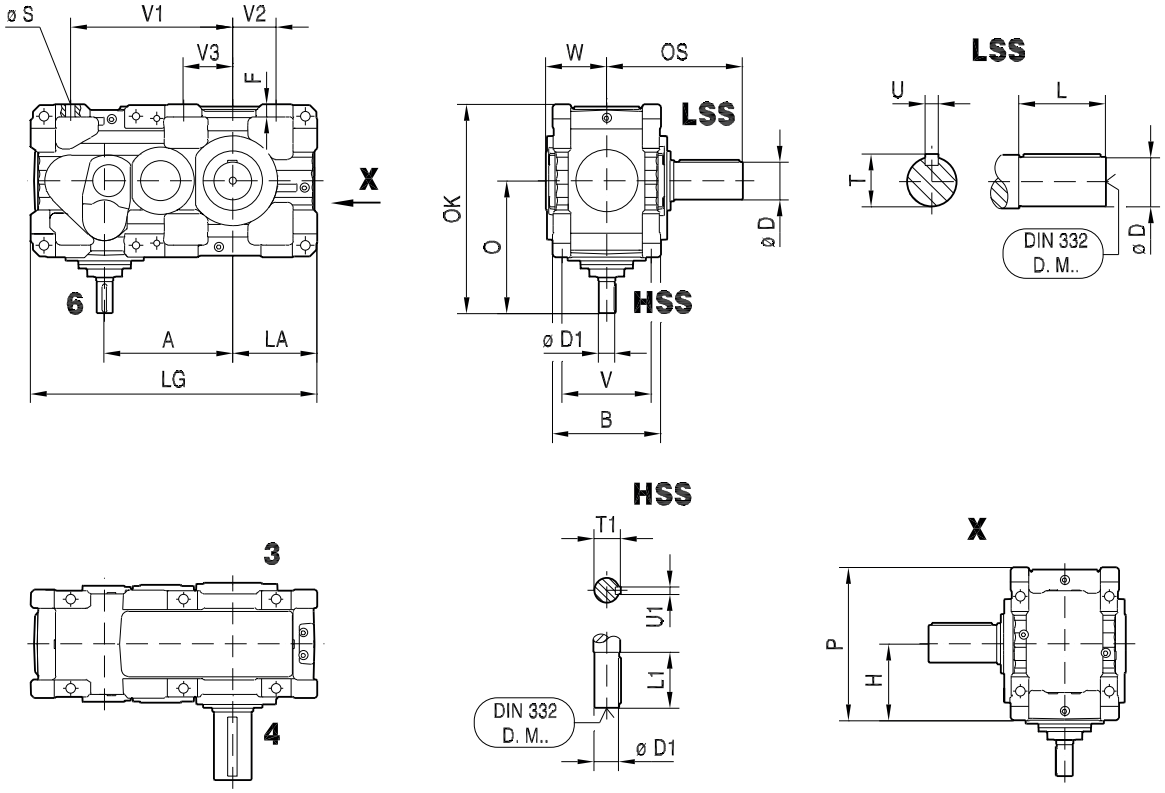
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2545
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2700
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3490
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3595

30593506/EN – 07/2023

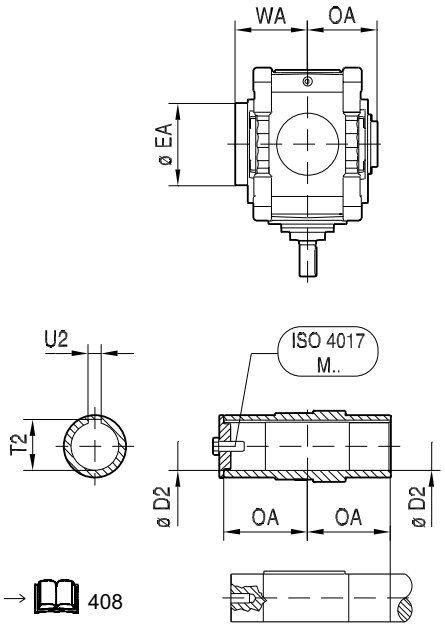
9.3.3 X4T120 - 210

48 031 01 09

X4TS..

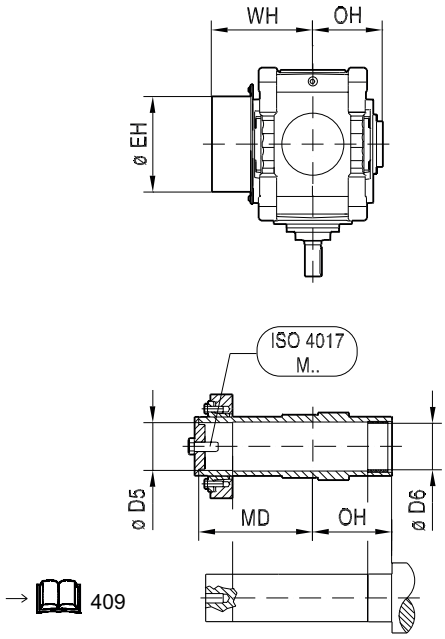


X4TA..



→ 408

X4TH..



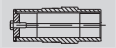
→ 409

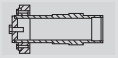
30593506/EN – 07/2023

X.T..															
X4T.	**A**	**B**	**F**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X120	337	300	33	$225_{-0.5}$	$215_{-0.5}$	767	383	608	450	28 (4x)	245	440	105	-	174	355
X130	373	300	33	$225_{-0.5}$	$250_{-0.5}$	838	383	608	450	28 (4x)	245	475	140	-	174	395
X140	403	360	42	$265_{-0.5}$	$250_{-0.5}$	903	467	732	530	35 (4x)	290	510	110	-	202	570
X150	445	360	42	$265_{-0.5}$	$295_{-0.5}$	990	467	732	530	35 (4x)	290	555	155	-	202	640
X160	490	425	50	$315_{-0.5}$	$355_{-0.5}$	1144	554	869	630	42 (4x)	340	620	185	-	240	985
X170	541	425	50	$315_{-0.5}$	$355_{-0.5}$	1195	554	869	630	42 (4x)	340	670	185	-	240	1145
X180	562	475	55	$335_{-0.5}$	$370_{-0.5}$	1249	653	988	670	42 (6x)	390	710	190	215	277	1360
X190	594	475	55	$335_{-0.5}$	$370_{-0.5}$	1281	653	988	670	42 (6x)	390	740	190	215	277	1425
X200	627	515	60	$375_{-0.5}$	$420_{-0.5}$	1409	671	1046	750	48 (6x)	420	780	205	230	298	1900
X210	663	515	60	$375_{-0.5}$	$420_{-0.5}$	1445	671	1046	750	48 (6x)	420	815	205	230	298	1950

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X120	28_{k6}	60	31	8_{h9}	M10
X130	28_{k6}	60	31	8_{h9}	M10
X140	32_{k6}	80	35	10_{h9}	M12
X150	32_{k6}	80	35	10_{h9}	M12
X160	38_{k6}	100	41	10_{h9}	M12
X170	38_{k6}	100	41	10_{h9}	M12
X180	50_{k6}	110	53.5	14_{h9}	M16
X190	50_{k6}	110	53.5	14_{h9}	M16
X200	50_{k6}	110	53.5	14_{h9}	M16
X210	50_{k6}	110	53.5	14_{h9}	M16

X.TA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	335
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	370
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	590
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	915
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1065
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1260
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1320
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1815
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1835

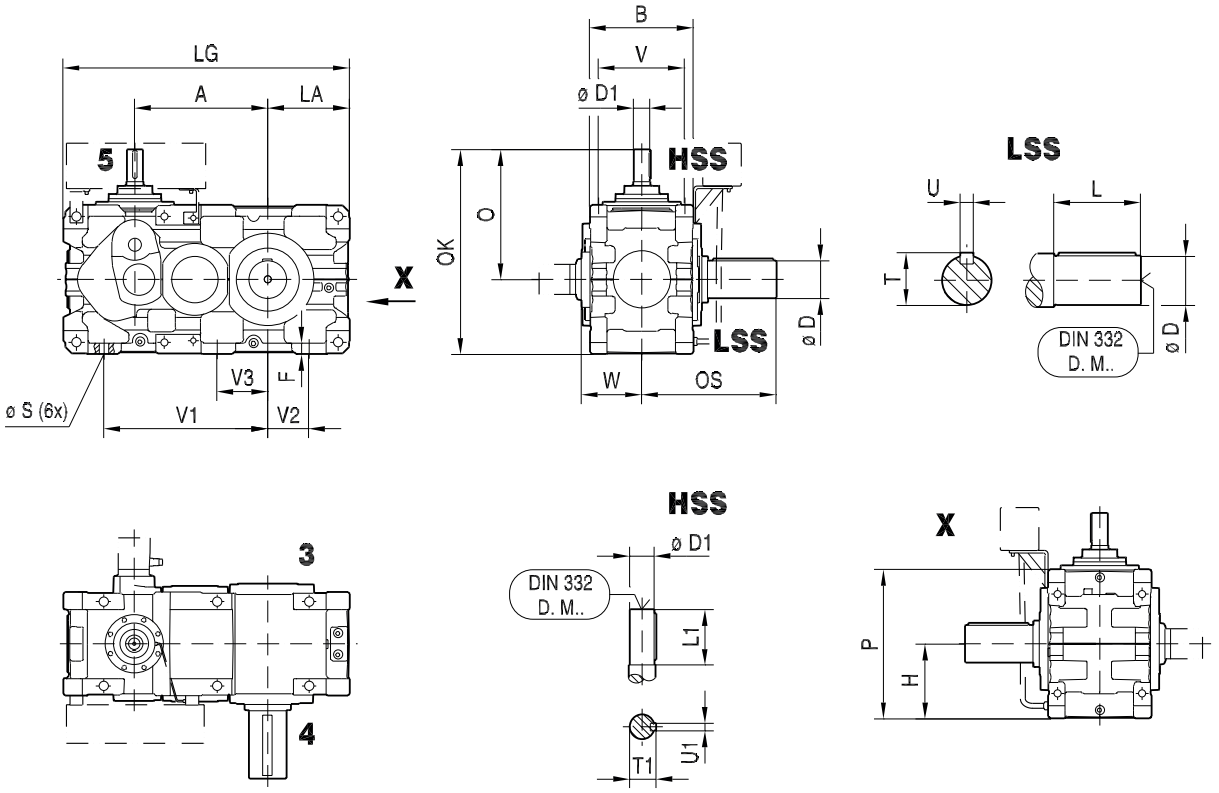
X.TH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	345
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	385
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	620
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	945
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1120
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1310
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1370
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1885
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1920

30593506/EN – 07/2023

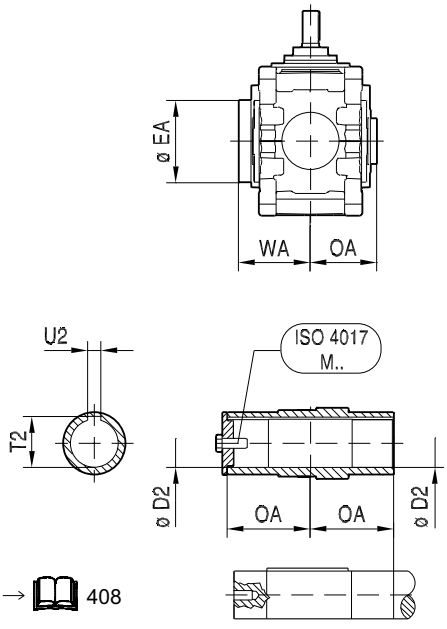
9.3.4 X4T220 - 250

X4TS..

48 032 01 09

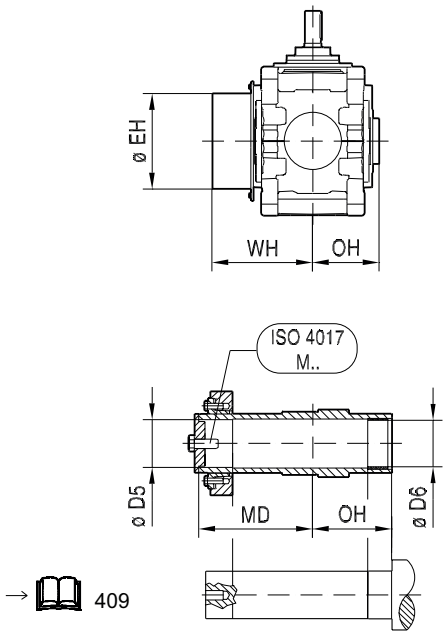


X4TA..



→ 408

X4TH..



→ 409

30593506/EN – 07/2023

X.T..															
X4T.	**A**	**B**	**F**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	718	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	761	1186	850	48	440	910	250	280	331	2665
X230	758	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	761	1186	850	48	440	950	250	280	331	2845
X240	806	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	817	1267	900	56	510	990	250	305	377	3645
X250	829	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	817	1267	900	56	510	1010	250	305	377	3800

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

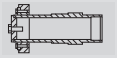
HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20

X.TA..



LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2485
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2625
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3360
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3495

X.TH..



LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2590
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2735
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3525
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3655

30593506/EN – 07/2023

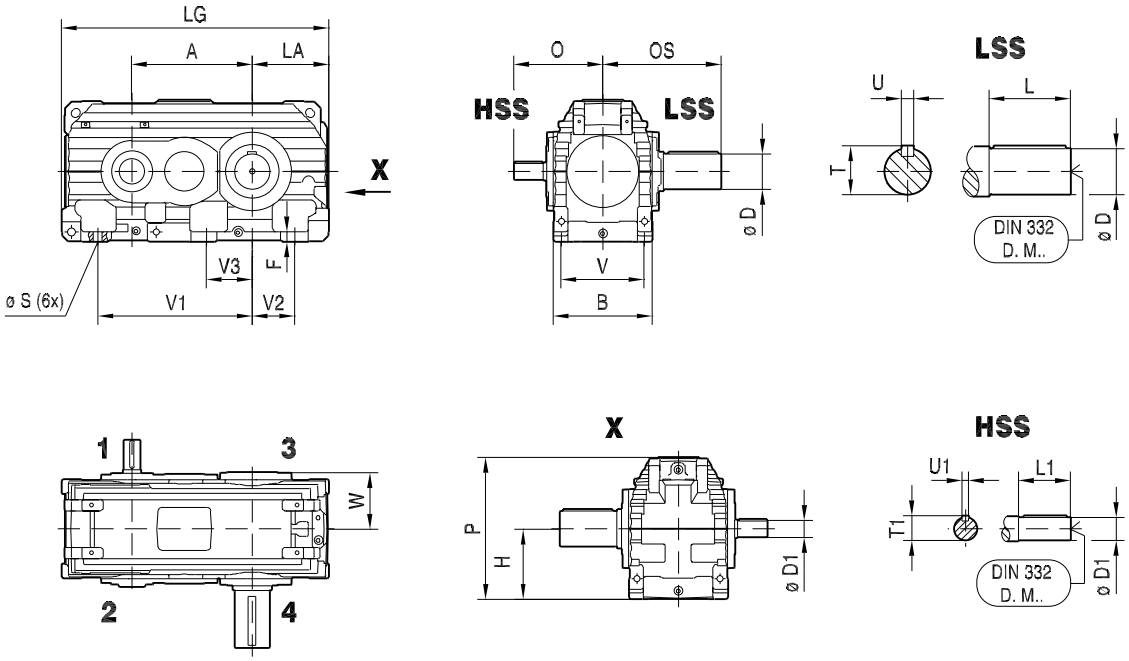
10 Dimension sheets: Horizontal housing /HH

10.1 X.F.. helical gear units [mm]

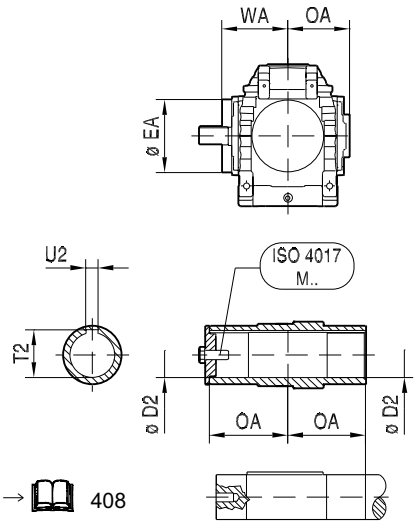
10.1.1 X2F220 – 250

X2FS../HH

48 029 00 13

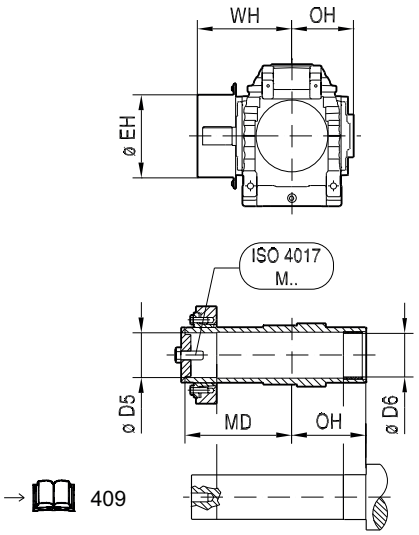


X2FA../HH



→ 408

X2FH../HH



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X2F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	694	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	854	48	440	910	250	280	331	210_{m6}	350	703	221	50_{h9}	M30	2398
X230	734	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	854	48	440	950	250	280	331	230_{m6}	410	763	241	50_{h9}	M36	2568
X240	776	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	900	56	510	990	250	305	377	230_{m6}	410	811	241	50_{h9}	M36	3299
X250	799	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	900	56	510	1010	250	305	377	240_{m6}	410	811	252	56_{h9}	M36	3446

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5**						i = 12.5 ... 18* / i = 14 ... 20**					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X220*	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X230**	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X240*	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24
X250**	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24

X4FA..

LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2214
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2346
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3011
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3137

X4FH..

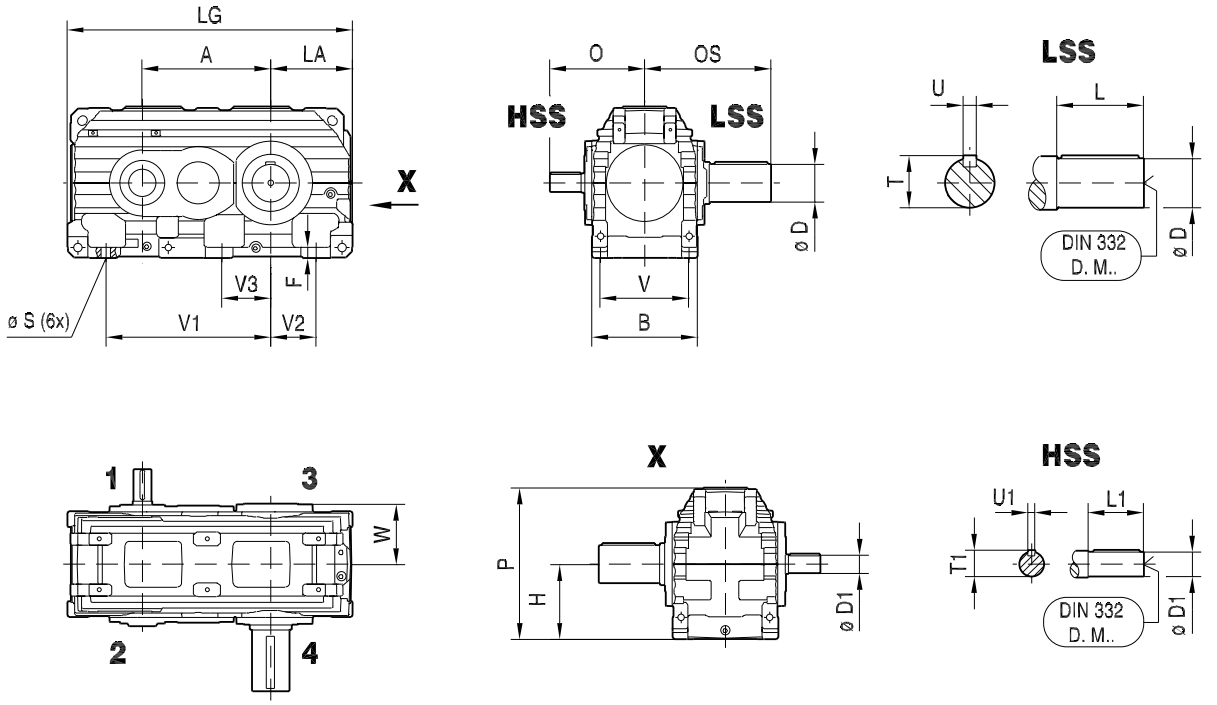
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2322
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2454
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3177
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3298

30593506/EN – 07/2023

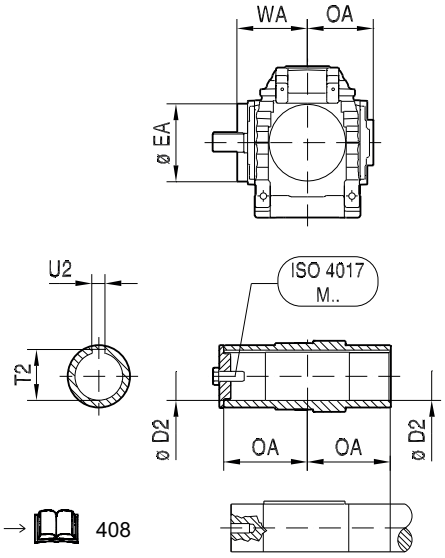
10.1.2 X2F260 – 320

X2FS../HH

48 007 03 08

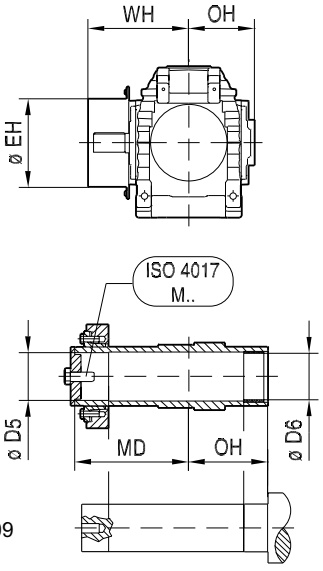


X2FA../HH



→ 408

X2FH../HH



→ 409

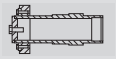
30593506/EN – 07/2023

X.F..													
X2F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W
X260	855	705	73	$500_{-0.5}$	$545_{-0.5}$	1900	1017	56	590	1110	300	350	417
X270	890	705	73	$500_{-0.5}$	$545_{-0.5}$	1935	1017	56	590	1110	300	350	419
X280	942	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1127	56	590	1190	360	380	419
X290	987	785	86	$580_{-0.5}$	$620_{-0.5}$	2187	1177	65	655	1280	330	355	465
X300	1016	785	86	$580_{-0.5}$	$620_{-0.5}$	2216	1177	65	655	1280	330	355	465
X310	1100	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	1277	65	720	1435	385	455	499
X320	1134	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	1277	65	720	1435	385	455	499

X.FS.. LSS 						
Ø D	L	OS	T	U	DIN 332 DR.M..	kg
250_{m6}	410	847	262	56_{h9}	M36	4170
270_{m6}	470	920	282	63_{h9}	M36	4620
290_{m6}	470	920	302	63_{h9}	M36	5020
290_{m6}	470	962	302	63_{h9}	M36	6120
300_{m6}	470	962	314	70_{h9}	M36	6820
320_{m6}	470	999	334	70_{h9}	M42	6970
340_{m6}	550	1079	355	80_{h9}	M42	7770

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X260*	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X270**	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X280***	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X290*	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X300**	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X310*	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30
X320**	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30

X2FA.. 								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	3770
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4170
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4520
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5470
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6120
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	6220
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	6970

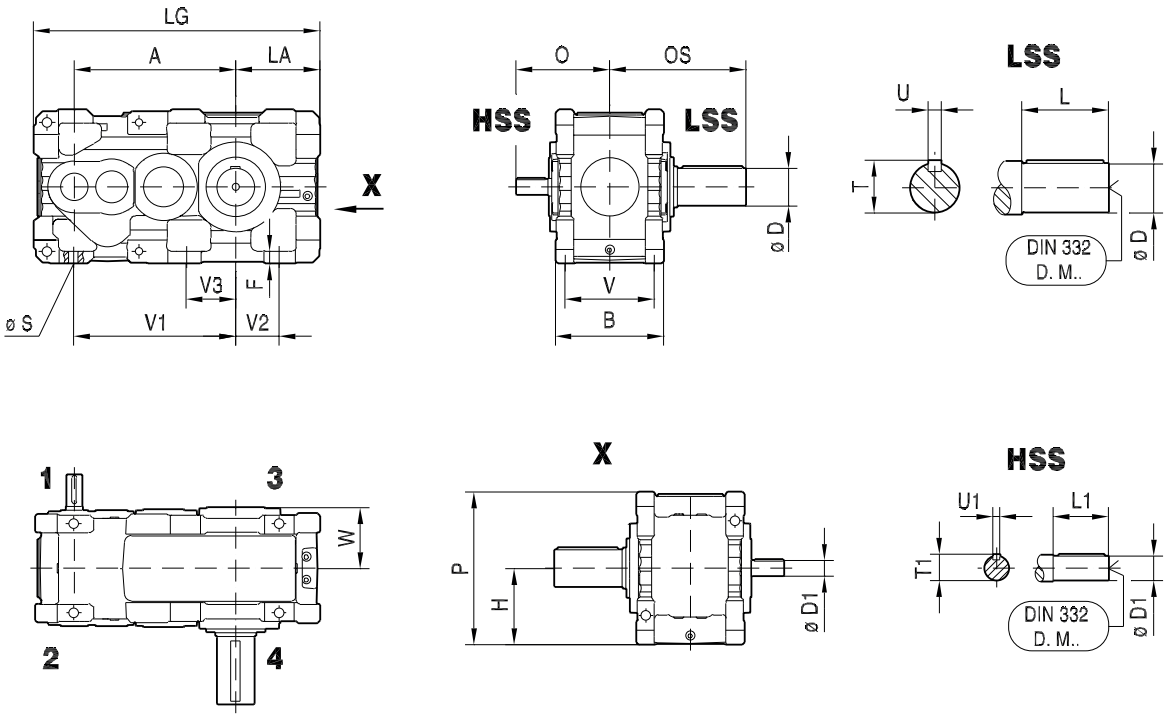
X2FH.. 								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	3920
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4420
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4770
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	5720
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6370
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	6570
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7320

30593506/EN – 07/2023

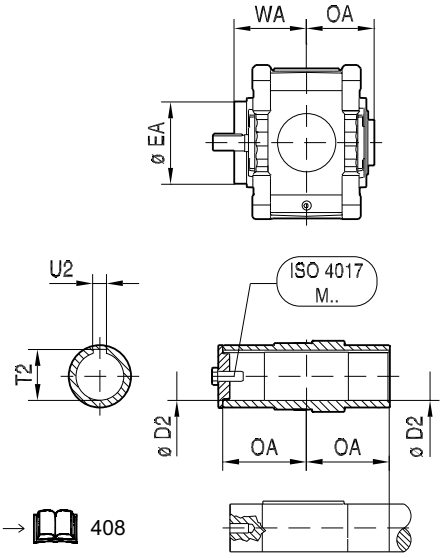
10.1.3 X3F100 – 210

X3FS../HH

48 027 00 13

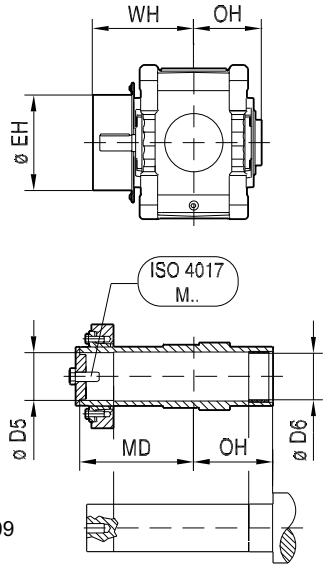


X3FA..



→ 408

X3FH..



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X3F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X100	360	268	29	$190_{-0.5}$	$190_{-0.5}$	663	384	24 (4x)	210	370	90	-	153	80_{m6}	170	343	85	22_{h9}	M20	220
X110	380	268	29	$190_{-0.5}$	$215_{-0.5}$	708	384	24 (4x)	210	390	115	-	153	90_{m6}	170	346	95	25_{h9}	M24	225
X120	427	308	33	$225_{-0.5}$	$215_{-0.5}$	772	454	28 (4x)	245	440	105	-	174	100_{m6}	210	401	106	28_{h9}	M24	340
X130	463	308	33	$225_{-0.5}$	$250_{-0.5}$	843	454	28 (4x)	245	475	140	-	174	110_{m6}	210	404	116	28_{h9}	M24	405
X140	502	368	42	$265_{-0.5}$	$250_{-0.5}$	908	534	35 (4x)	290	510	110	-	202	120_{m6}	210	432	127	32_{h9}	M24	570
X150	544	368	42	$265_{-0.5}$	$295_{-0.5}$	995	534	35 (4x)	290	555	155	-	202	130_{m6}	250	475	137	32_{h9}	M24	625
X160	611	433	50	$315_{-0.5}$	$355_{-0.5}$	1149	634	42 (4x)	340	620	185	-	240	140_{m6}	250	506	148	36_{h9}	M30	970
X170	662	433	50	$315_{-0.5}$	$355_{-0.5}$	1200	634	42 (4x)	340	670	185	-	240	160_{m6}	300	556	169	40_{h9}	M30	1125
X180	707	483	55	$335_{-0.5}$	$370_{-0.5}$	1254	674	42 (6x)	390	710	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1450
X190	739	483	55	$335_{-0.5}$	$370_{-0.5}$	1286	674	42 (6x)	390	740	190	215	277	170_{m6}	300	592	179	40_{h9}	M30	1515
X200	794	523	60	$375_{-0.5}$	$420_{-0.5}$	1414	754	48 (6x)	420	780	205	230	298	180_{m6}	300	612	190	45_{h9}	M30	1850
X210	830	523	60	$375_{-0.5}$	$420_{-0.5}$	1450	754	48 (6x)	420	815	205	230	298	190_{m6}	350	662	200	45_{h9}	M30	1930

HSS	i = 20 ... 56* / i = 22.4 ... 63** / i = 25 ... 71***						i = 63 ... 90* / i = 71 ... 100** / i = 80 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X100**	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X110***	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X120*	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X130***	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X140*	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X150***	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X160*	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X170***	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X180*	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X190**	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X200*	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20
X210**	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20

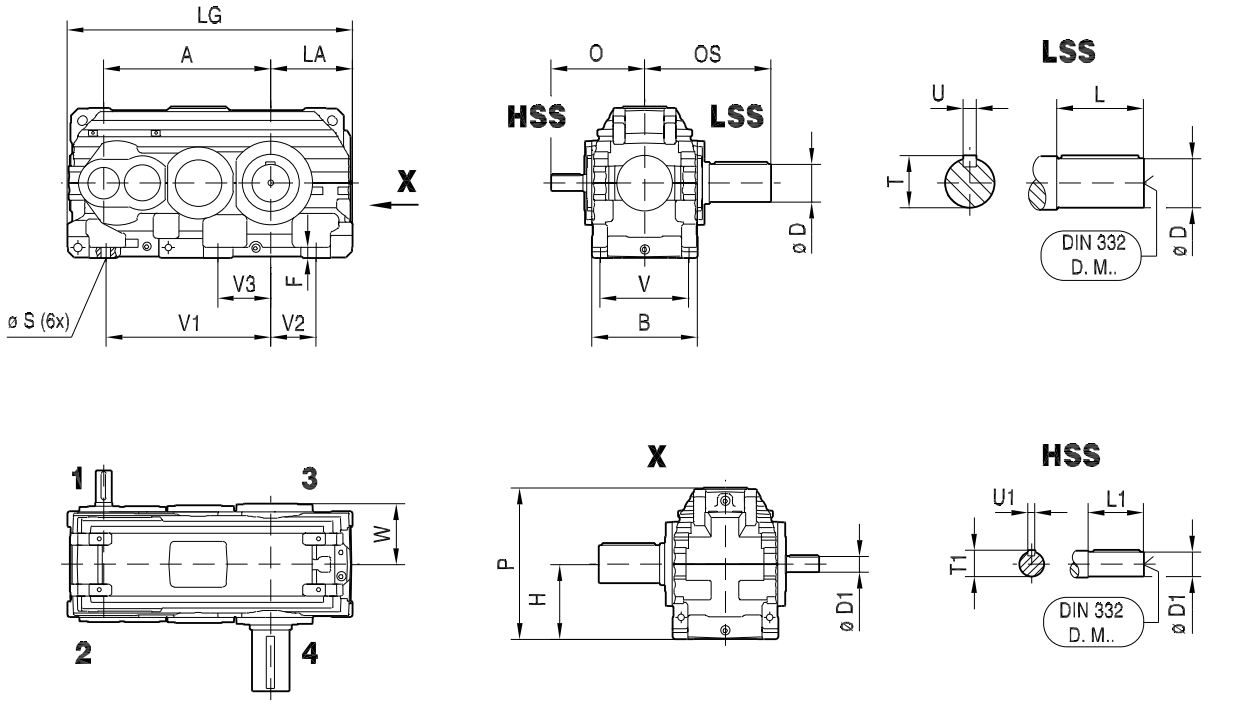
X3FA..									X3FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	210	**X100**	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	220
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	215	**X110**	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	225
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	320	**X120**	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	330
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	380	**X130**	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	395
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535	**X140**	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	575	**X150**	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	575
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	900	**X160**	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	930
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1045	**X170**	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1100
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1350	**X180**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1400
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1415	**X190**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1465
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1765	**X200**	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1835
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1815	**X210**	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1900

30593506/EN – 07/2023

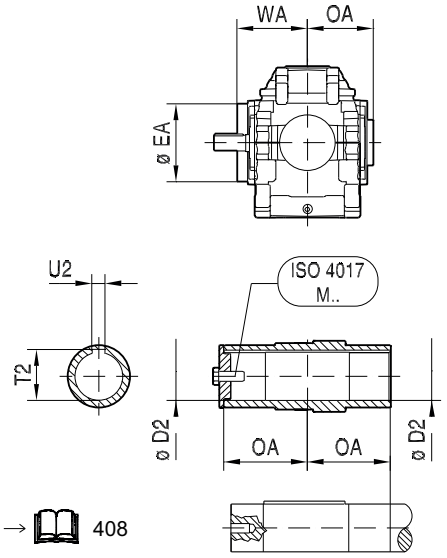
10.1.4 X3F220 – 250

X3FS../HH

48 028 00 13

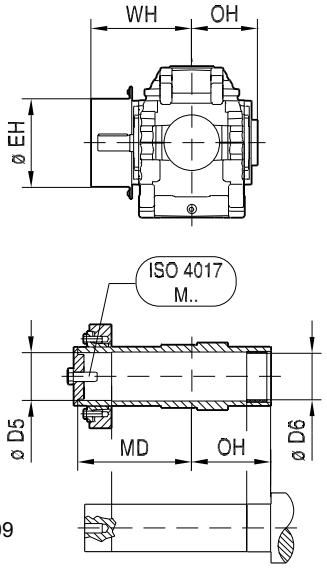


X3FA../HH



→ 408

X3FH../HH



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X3F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	894	540	62	$425_{-0.5}$	$465_{-0.5}$	1591	854	48	440	910	250	280	331	210_{m6}	350	703	221	50_{h9}	M30	2370
X230	934	540	62	$425_{-0.5}$	$465_{-0.5}$	1631	854	48	440	950	250	280	331	230_{m6}	410	763	241	50_{h9}	M36	2582
X240	1004	625	68	$450_{-0.5}$	$495_{-0.5}$	1728	900	56	510	990	250	305	377	230_{m6}	410	811	241	50_{h9}	M36	3338
X250	1027	625	68	$450_{-0.5}$	$495_{-0.5}$	1752	900	56	510	1010	250	305	377	240_{m6}	410	811	252	56_{h9}	M36	3444

HSS	i = 20 ... 56* / i = 22.4 ... 63**						i = 63 ... 90* / i = 71 ... 100**					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X220*	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X230**	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X240*	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20
X250**	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20

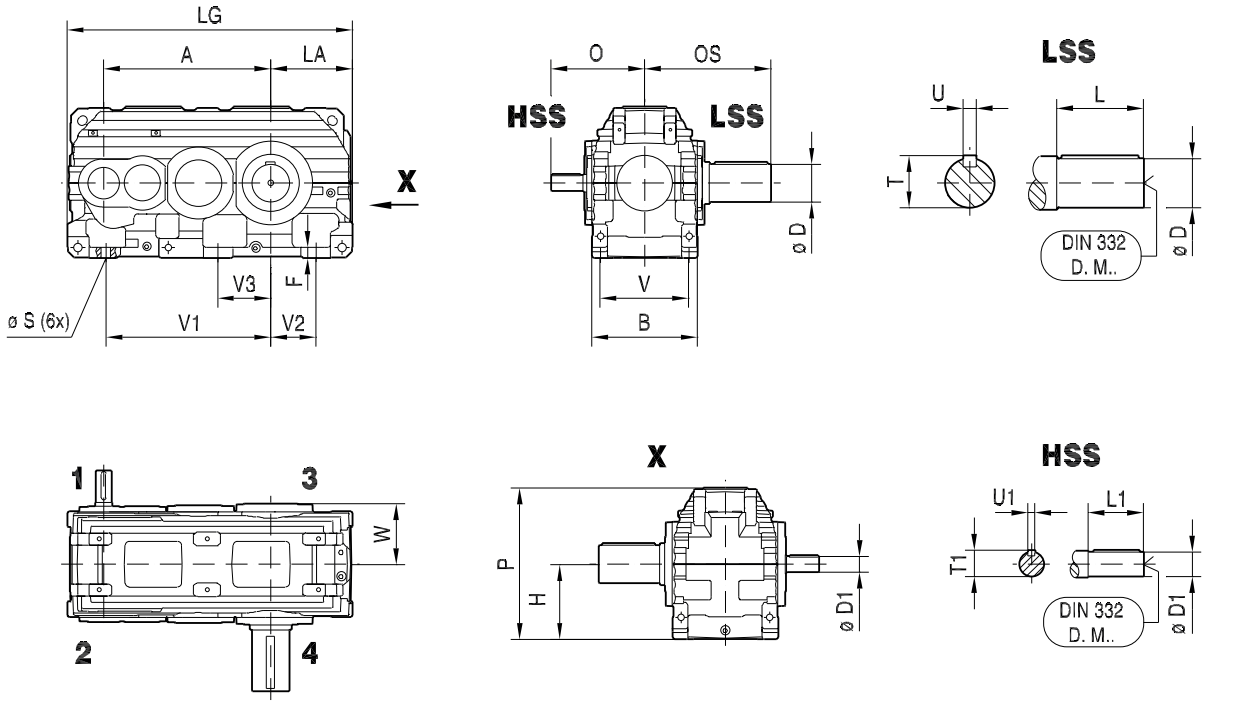
X3FA..									X3FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2186	**X220**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2294
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2360	**X230**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2468
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3050	**X240**	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3216
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3135	**X250**	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3296

30593506/EN – 07/2023

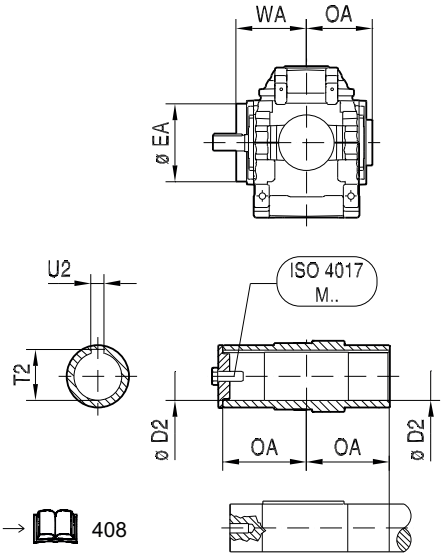
10.1.5 X3F260 – 320

48 008 03 08

X3FS../HH

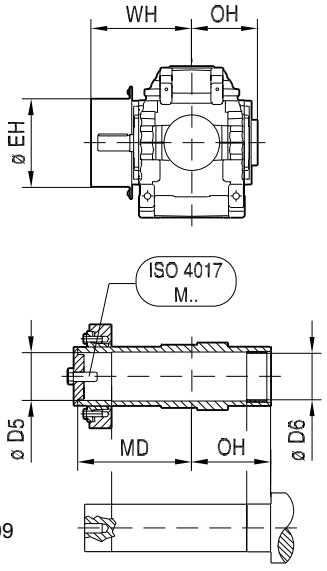


X3FA../HH



→ 408

X3FH../HH



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X3F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X260	1113	705	63	$500_{-0.5}$	$545_{-0.5}$	1900	1017	56	590	1110	300	350	417	250_{m6}	410	847	262	56_{h9}	M36	4170
X270	1148	705	63	$500_{-0.5}$	$545_{-0.5}$	1935	1017	56	590	1110	300	350	419	270_{m6}	470	920	282	63_{h9}	M36	4670
X280	1200	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1127	56	590	1190	360	380	419	290_{m6}	470	920	302	63_{h9}	M36	5120
X290	1279	785	76	$580_{-0.5}$	$620_{-0.5}$	2187	1177	65	655	1280	330	355	465	290_{m6}	470	962	302	63_{h9}	M36	6370
X300	1308	785	76	$580_{-0.5}$	$620_{-0.5}$	2216	1177	65	655	1280	330	355	465	300_{m6}	470	962	314	70_{h9}	M36	7070
X310	1435	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	1277	65	720	1435	385	455	499	320_{m6}	470	999	334	70_{h9}	M42	7820
X320	1469	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	1277	65	720	1435	385	455	499	340_{m6}	550	1079	355	80_{h9}	M42	8720

HSS	i = 20 ... 50* / i = 22.4 ... 56** / i = 25 ... 63***						i = 56 ... 90* / i = 63 ... 100** / i = 71 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X260*	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X270**	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X280***	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X290*	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X300**	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X310*	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24
X320**	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24

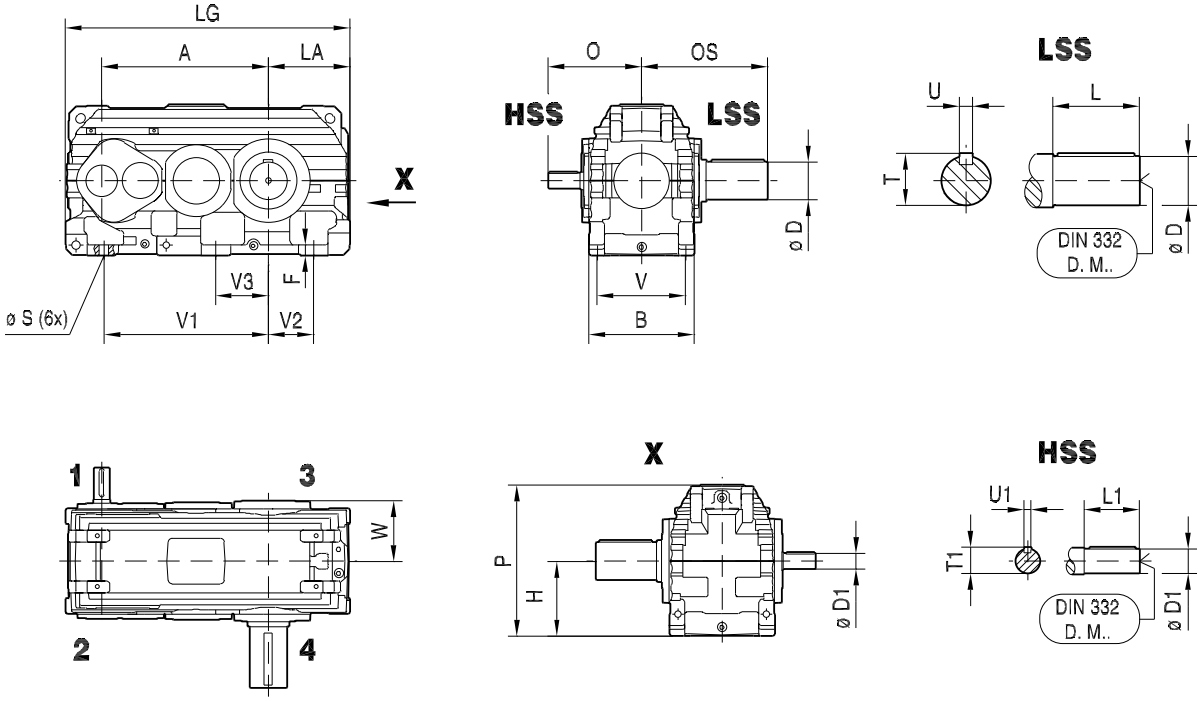
X3FA..									X3FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	3720	**X260**	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	3870
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4120	**X270**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4420
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4570	**X280**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5720	**X290**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	5970
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6320	**X300**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6570
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7020	**X310**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7370
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820	**X320**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7670

30593506/EN – 07/2023

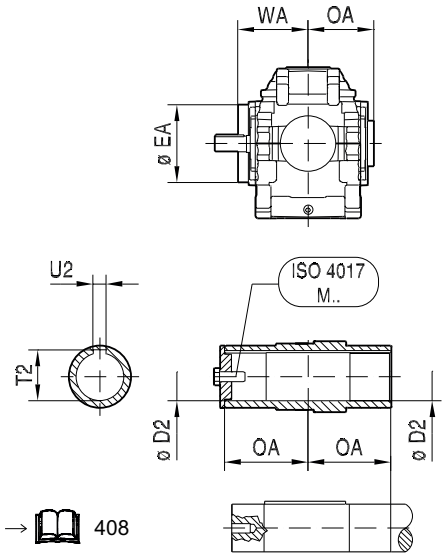
10.1.6 X4F220 – 250

X4FS../HH

48 030 00 13

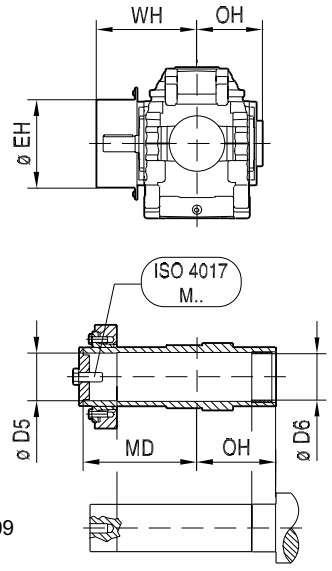


X4FA../HH



→ 408

X4FH../HH



→ 409

30593506/EN – 07/2023

X.F..														X.FS.. LSS						
X4F..	**A**	**B**	**F**	**H**	**LA**	**LG**	**P**	**Ø S (6x)**	**V**	**V1**	**V2**	**V3**	**W**	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**	**kg**
X220	894	540	62	$425_{-0.5}$	$465_{-0.5}$	1591	854	48	440	910	250	280	331	210_{m6}	350	703	221	50_{h9}	M30	2418
X230	934	540	62	$425_{-0.5}$	$465_{-0.5}$	1631	854	48	440	950	250	280	331	230_{m6}	410	763	241	50_{h9}	M36	2769
X240	1004	625	68	$450_{-0.5}$	$495_{-0.5}$	1729	900	56	510	990	250	305	377	230_{m6}	410	811	241	50_{h9}	M36	3394
X250	1027	625	68	$450_{-0.5}$	$495_{-0.5}$	1752	900	56	510	1010	250	305	377	240_{m6}	410	811	252	56_{h9}	M36	3516

HSS	i = 100 ... 180* / i = 112 ... 200**						i = 200 ... 355* / i = 224 ... 400**					
	Ø D1	**L1**	**O**	**T1**	**U1**	**DIN 332 DR.M..**	**Ø D1**	**L1**	**O**	**T1**	**U1**	**DIN 332 DR.M..**
X220*	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X230**	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X240*	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20
X250**	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20

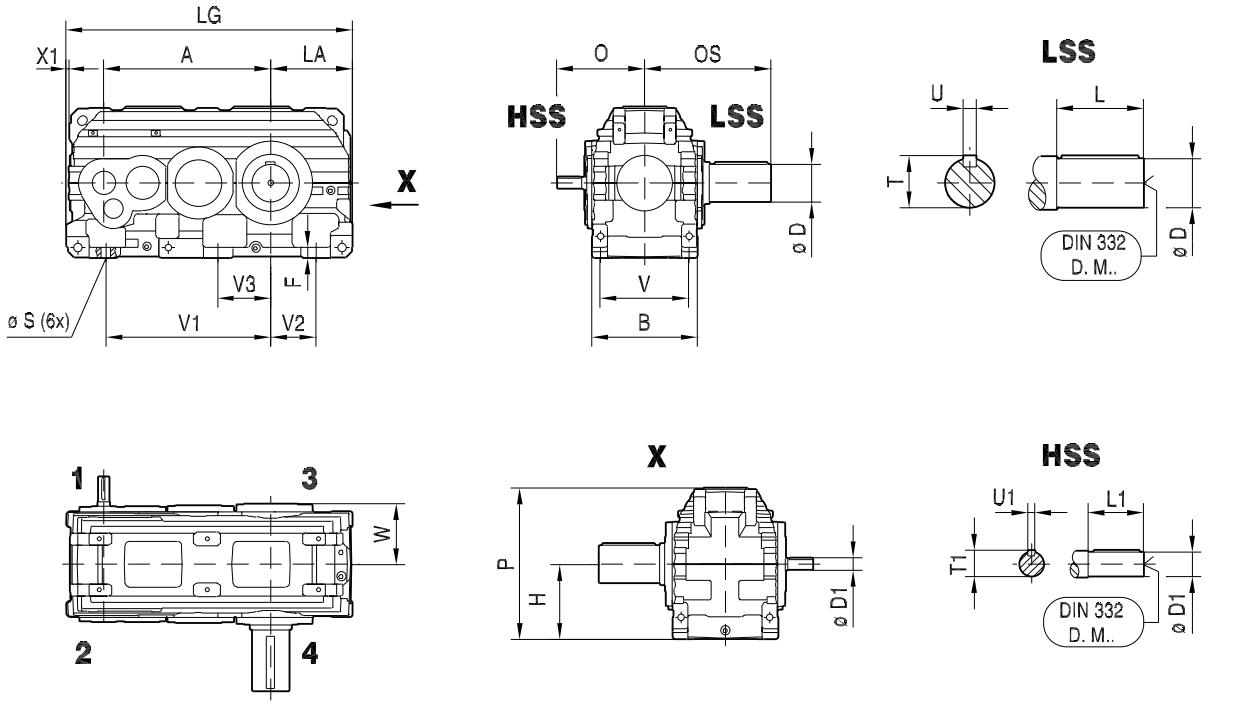
X4FA..									X4FH..									
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**	**LSS**	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2234	**X220**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2342
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2547	**X230**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2655
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3106	**X240**	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3272
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3566	**X250**	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3727

30593506/EN – 07/2023

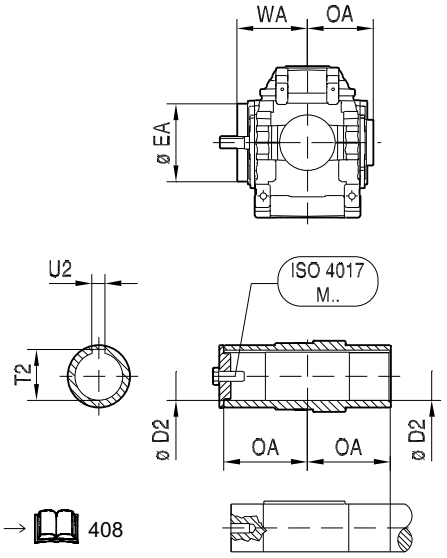
10.1.7 X4F260 – 320

X4FS../HH

48 009 03 08

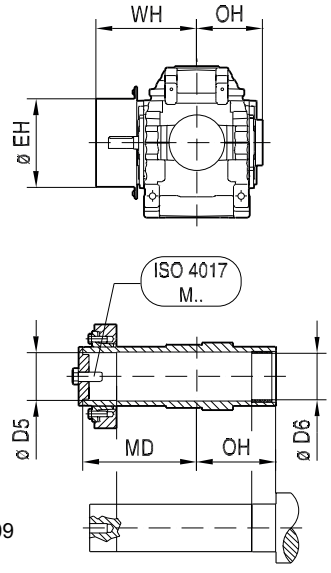


X4FA../HH



→ 408

X4FH../HH



→ 409

30593506/EN – 07/2023

X.F..													X.FS.. LSS						
X4F..	A	B	F	H	LA	LG	P	Ø S (6x)	V	V1	V2	V3	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X260	1113	705	63	$500_{-0.5}$	$545_{-0.5}$	1909	1017	56	590	1110	300	350	417	250_{m6}	410	847	262	56_{h9}	M36	4270
X270	1148	705	63	$500_{-0.5}$	$545_{-0.5}$	1944	1017	56	590	1110	300	350	419	270_{m6}	470	920	282	63_{h9}	M36	4770
X280	1200	705	73	$555_{-0.5}$	610-0.5	2061	1127	56	590	1190	360	380	419	290_{m6}	470	920	302	63_{h9}	M36	5270
X290	1279	785	76	$580_{-0.5}$	$620_{-0.5}$	2196	1177	65	655	1280	330	355	465	290_{m6}	470	962	302	63_{h9}	M36	6520
X300	1308	785	76	$580_{-0.5}$	$620_{-0.5}$	2225	1177	65	655	1280	330	355	465	300_{m6}	470	962	314	70_{h9}	M36	7270
X310	1435	850	86	$630_{-0.5}$	$680_{-0.5}$	2419	1277	65	720	1435	385	455	499	320_{m6}	470	999	334	70_{h9}	M42	8020
X320	1469	850	86	$630_{-0.5}$	$680_{-0.5}$	2453	1277	65	720	1435	385	455	499	340_{m6}	550	1079	355	80_{h9}	M42	8970

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X260*	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X270**	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X280***	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X290*	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X300**	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X310*	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24
X320**	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24

X4FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	3820
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4270
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4670
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5820
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6520
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7170
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820

X4FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	3970
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4520
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4970
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6070
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6770
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7520
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170

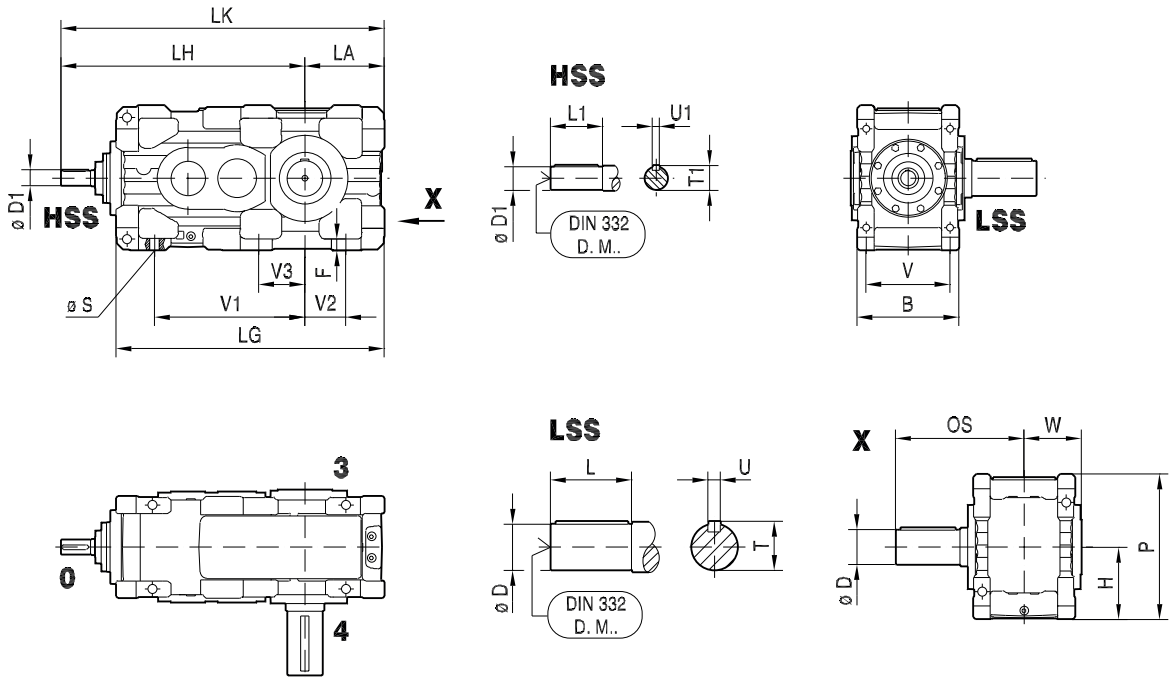
30593506/EN – 07/2023

10.2 X.K.. bevel-helical gear units [mm]

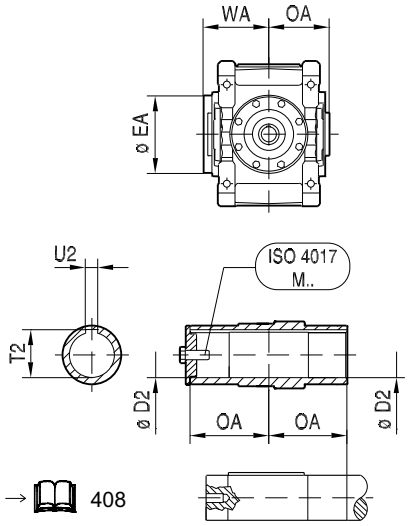
10.2.1 X3K100 – 210

X3KS../HH

48 031 00 13

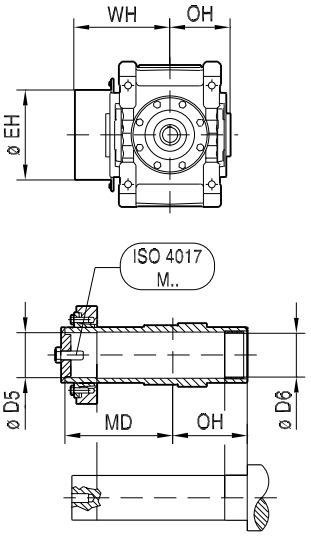


X3KA..



→ 408

X3KH..



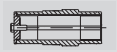
→ 409

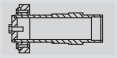
30593506/EN – 07/2023

X.K..															
X3K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X100	268	29	$190_{-0.5}$	$190_{-0.5}$	658	632	822	384	24 (4x)	210	370	90	-	153	235
X110	268	29	$190_{-0.5}$	$215_{-0.5}$	703	652	867	384	24 (4x)	210	390	115	-	153	255
X120	308	33	$225_{-0.5}$	$215_{-0.5}$	767	745	960	454	28 (4x)	245	440	105	-	174	360
X130	308	33	$225_{-0.5}$	$250_{-0.5}$	838	781	1031	454	28 (4x)	245	475	140	-	174	410
X140	368	42	$265_{-0.5}$	$250_{-0.5}$	903	879	1129	534	35 (4x)	290	510	110	-	202	600
X150	368	42	$265_{-0.5}$	$295_{-0.5}$	990	921	1216	534	35 (4x)	290	555	155	-	202	640
X160	433	50	$315_{-0.5}$	$355_{-0.5}$	1144	1036	1391	634	42 (4x)	340	620	185	-	240	985
X170	433	50	$315_{-0.5}$	$355_{-0.5}$	1195	1087	1442	634	42 (4x)	340	670	185	-	240	1130
X180	483	55	$335_{-0.5}$	$370_{-0.5}$	1249	1135	1505	674	42 (6x)	390	710	190	215	277	1400
X190	483	55	$335_{-0.5}$	$370_{-0.5}$	1281	1167	1537	674	42 (6x)	390	740	190	215	277	1510
X200	523	60	$375_{-0.5}$	$420_{-0.5}$	1409	1286	1706	754	48 (6x)	420	780	205	230	298	2020
X210	523	60	$375_{-0.5}$	$420_{-0.5}$	1445	1322	1742	754	48 (6x)	420	815	205	230	298	2120

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X3KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	225
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	245
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	340
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	385
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	565
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	590
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	915
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1050
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1300
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1410
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1935
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	2005

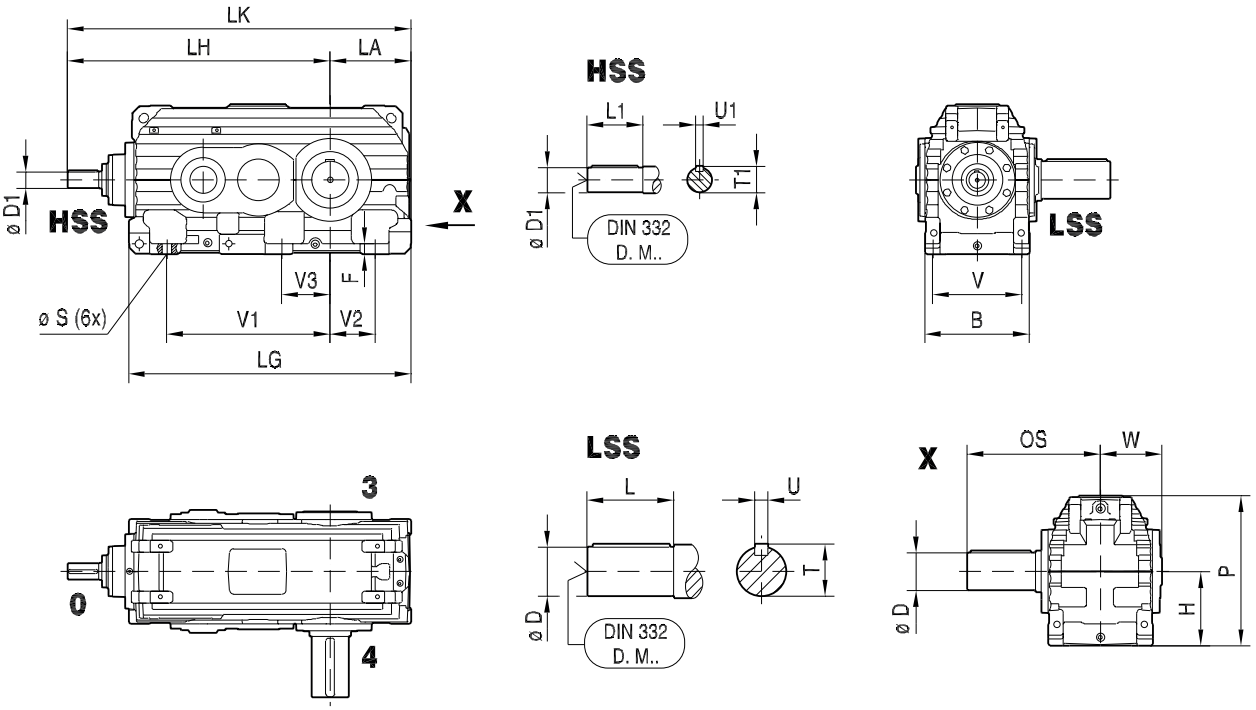
X3KH.. 								
LSS	**Ø D 5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	235
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	255
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	350
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	590
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	620
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	945
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1105
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1350
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1460
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	2005
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2090

30593506/EN – 07/2023

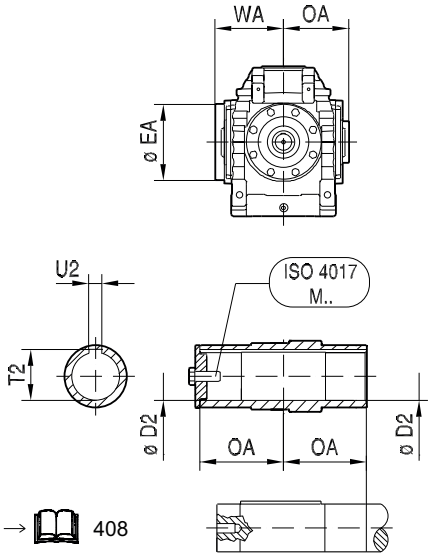
10.2.2 X3K220 – 250

X3KS../HH

48 032 00 13

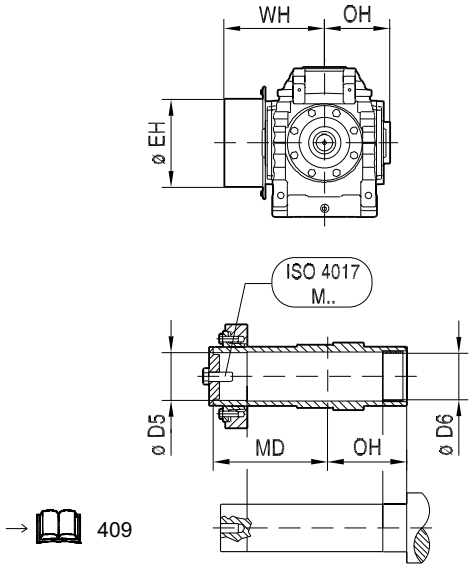


X3KA../HH



→ 408

X3KH../HH



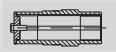
→ 409

30593506/EN – 07/2023

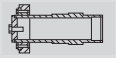
X.K..															
X3K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	540	62	$425_{-0.5}$	$465_{-0.5}$	1584	1430	1895	854	48	440	910	250	280	331	2640
X230	540	62	$425_{-0.5}$	$465_{-0.5}$	1624	1470	1935	854	48	440	950	250	280	331	2800
X240	625	68	$450_{-0.5}$	$495_{-0.5}$	1721	1597	2092	900	56	510	990	250	305	377	3600
X250	625	68	$450_{-0.5}$	$495_{-0.5}$	1744	1620	2115	900	56	510	1010	250	305	377	3705

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X220	85_{m6}	170	90	22_{h9}	M20
X230	85_{m6}	170	90	22_{h9}	M20
X240	100_{m6}	210	106	28_{h9}	M24
X250	100_{m6}	210	106	28_{h9}	M24

X3KA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2455
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2580
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3290
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3400

X3KH.. 

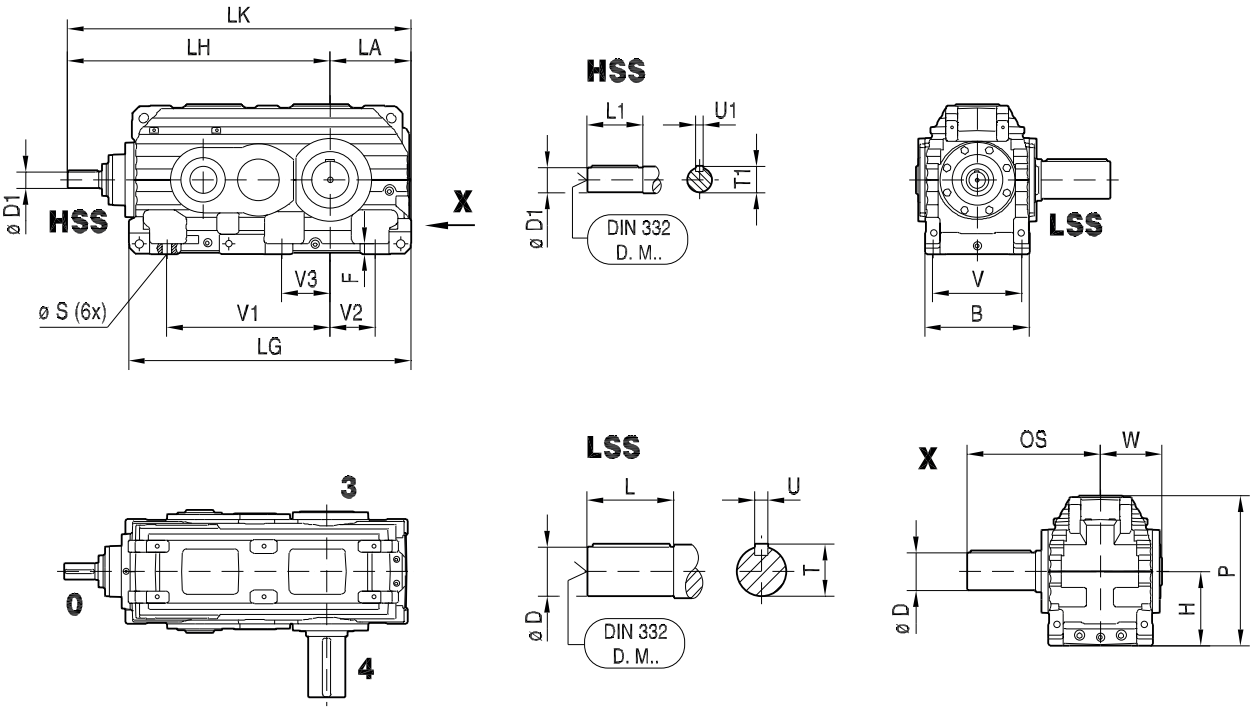
LSS	**Ø D 5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2560
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2685
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3460
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3560

30593506/EN – 07/2023

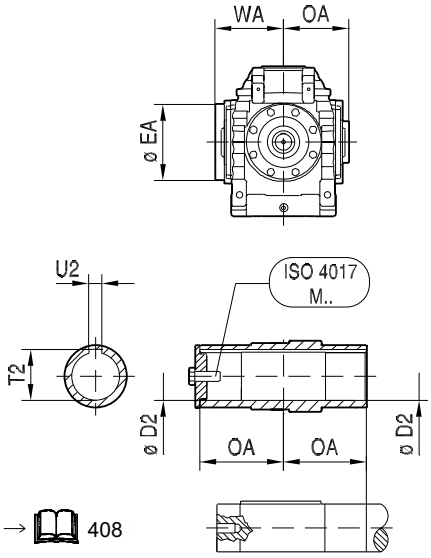
10.2.3 X3K260 – 320

X3KS../HH

48 003 03 08

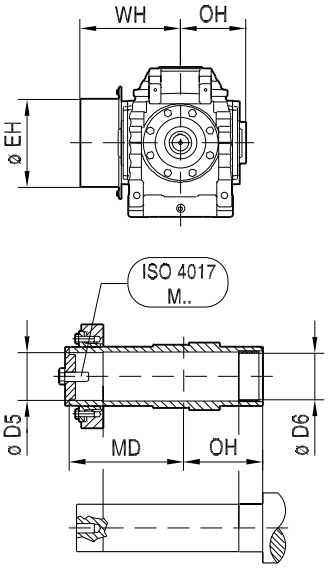


X3KA../HH



→ 408

X3KH../HH



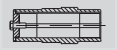
→ 409

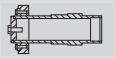
30593506/EN – 07/2023

X.K..															
X3K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X260	705	73	$500_{-0.5}$	$545_{-0.5}$	1900	1767	2312	1017	56	590	1110	300	350	417	4570
X270	705	73	$500_{-0.5}$	$545_{-0.5}$	1935	1802	2347	1017	56	590	1110	300	350	419	5070
X280	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1854	2464	1127	56	590	1190	360	380	419	5520
X290	785	86	$580_{-0.5}$	$620_{-0.5}$	2187	2021	2641	1177	65	655	1280	330	355	465	6570
X300	785	86	$580_{-0.5}$	$620_{-0.5}$	2216	2050	2670	1177	65	655	1280	330	355	465	7270
X310**	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	2175	2855	1277	65	720	1435	385	455	499	8020
						2135	2815								
X320**	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	2209	2889	1277	65	720	1435	385	455	499	8920
						2169	2849								

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**	**i**
X260	110_{m6}	210	116	28_{h9}	M24	-
X270	110_{m6}	210	116	28_{h9}	M24	-
X280	110_{m6}	210	116	28_{h9}	M24	-
X290	120_{m6}	210	127	32_{h9}	M24	-
X300	120_{m6}	210	127	32_{h9}	M24	-
X310	130_{m6}	250	137	32_{h9}	M24	i = 12.5 ... 35.5*
	130_{m6}	210	137	32_{h9}	M24	i = 40 ... 71**
X320	130_{m6}	250	137	32_{h9}	M24	i = 14 ... 40*
	130_{m6}	210	137	32_{h9}	M24	i = 45 ... 80**

X3KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4120
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4570
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4920
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5920
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6520
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7170
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7870

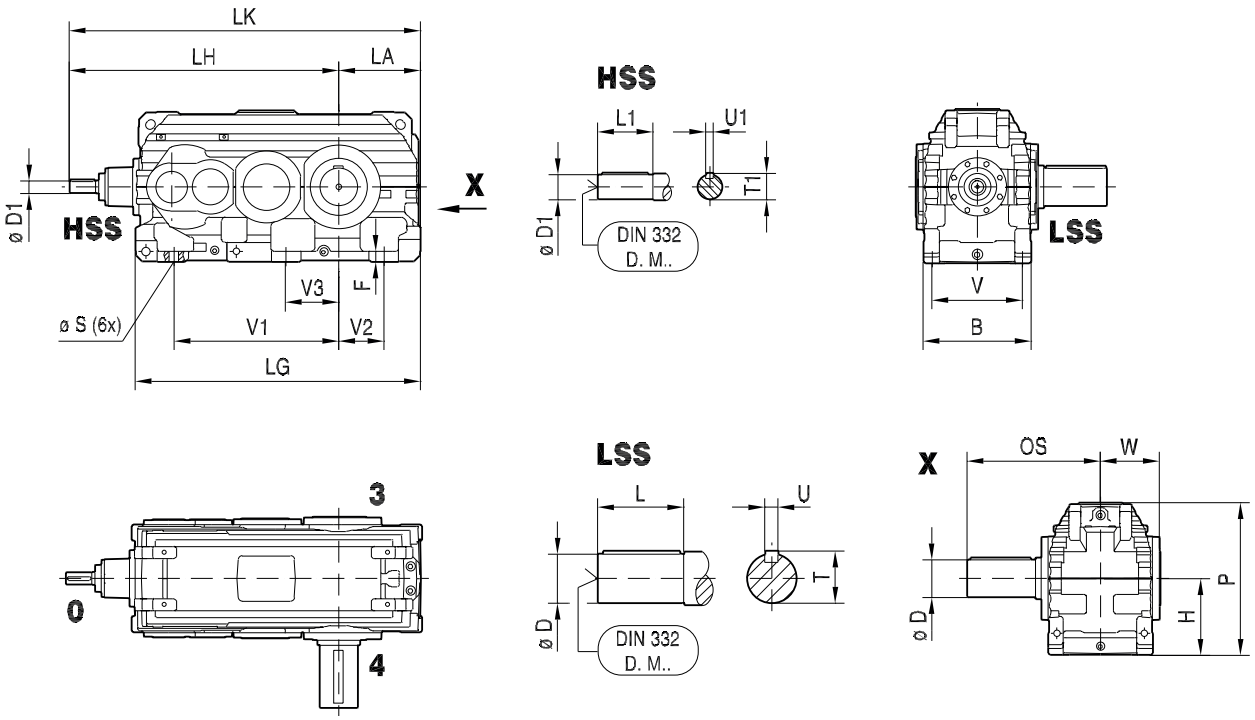
X4KH.. 								
LSS	**Ø D 5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4270
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4820
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5220
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	5970
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6770
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7520
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8220

30593506/EN – 07/2023

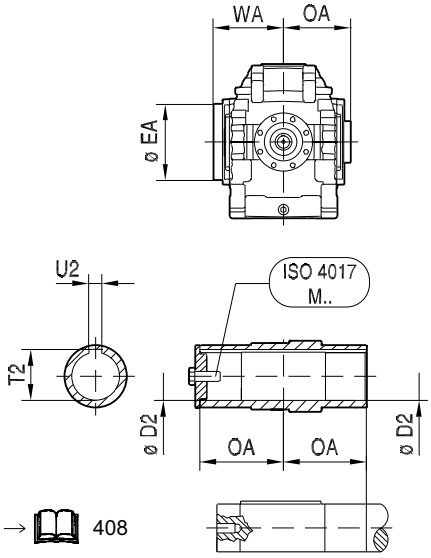
10.2.4 X4K220 – 250

X4KS../HH

48 033 00 13

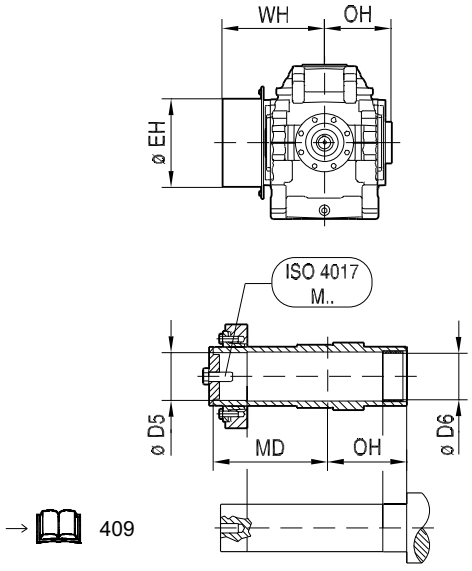


X4KA../HH



→ 408

X4KH../HH



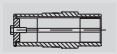
→ 409

30593506/EN – 07/2023

X.K..														
X4K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X220	540	62	$425_{-0.5}$	$465_{-0.5}$	1591	1456	1921	854	48	440	910	250	280	331	2440
X230	540	62	$425_{-0.5}$	$465_{-0.5}$	1631	1496	1963	854	48	440	950	250	280	331	2670
X240	625	68	$450_{-0.5}$	$495_{-0.5}$	1728	1595	2090	900	56	510	990	250	305	377	3430
X250	625	68	$450_{-0.5}$	$495_{-0.5}$	1752	1618	2113	900	56	510	1010	250	305	377	3650

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20

X4KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2250
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2450
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3140
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3345

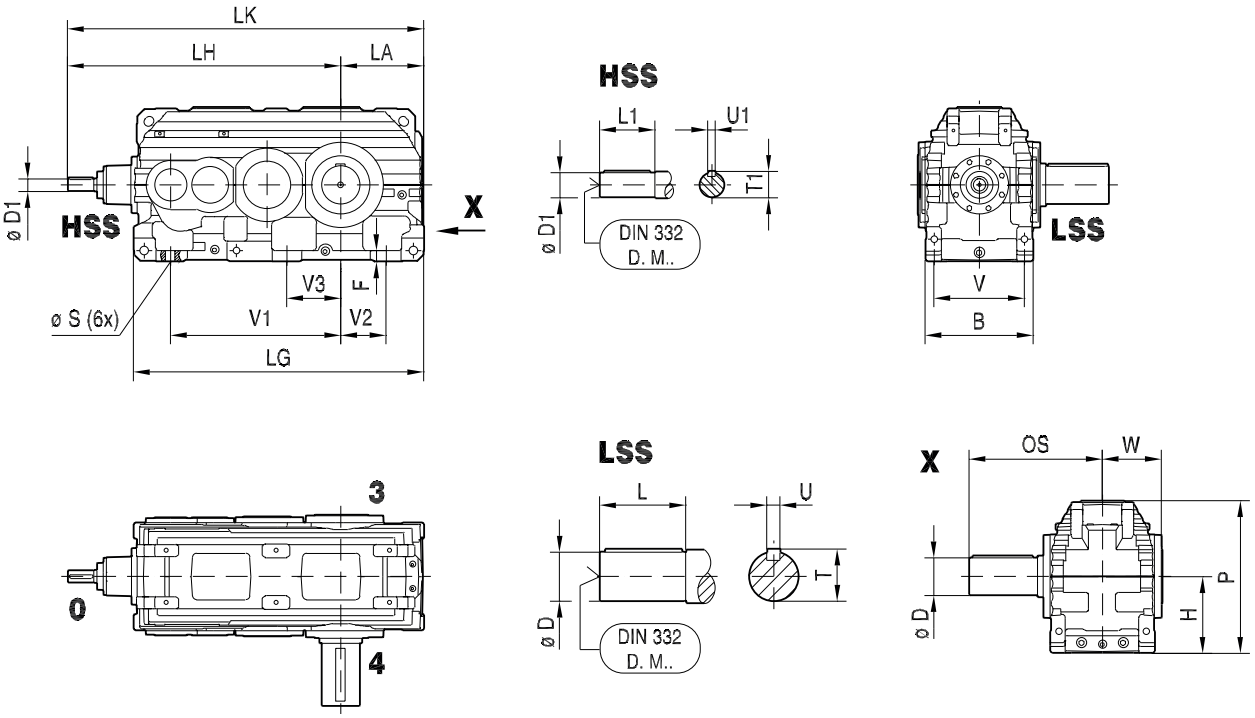
X4KA.. 								
LSS	**Ø D 5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2365
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2560
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3310
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3505

30593506/EN – 07/2023

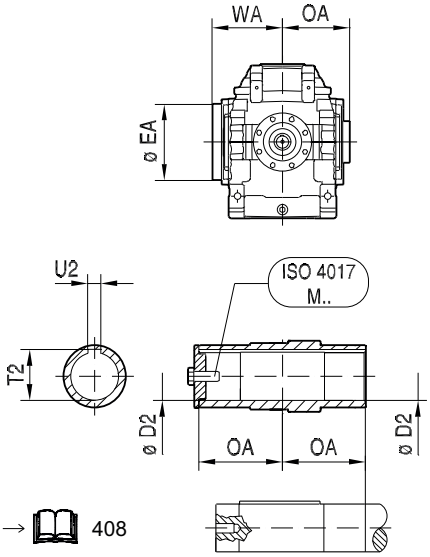
10.2.5 X4K260 – 320

X4KS../HH

48 004 03 08

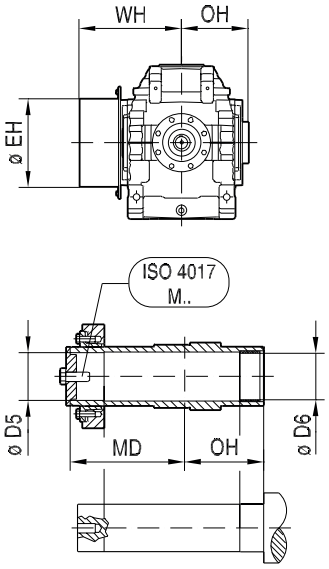


X4KA../HH



→ 408

X4KH../HH



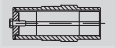
→ 409

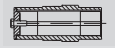
30593506/EN – 07/2023

X.K..															
X4K..	**B**	**F**	**H**	**LA**	**LG**	**LH**	**Perf. class**	**P**	**Ø S**	**V**	**V1**	**V2**	**V3**	**W**	**kg**
X260	705	63	$500_{-0.5}$	$545_{-0.5}$	1900	1785	2330	1017	56	590	1110	300	350	417	4270
X270	705	63	$500_{-0.5}$	$545_{-0.5}$	1935	1820	2365	1017	56	590	1110	300	350	419	4770
X280	705	73	$555_{-0.5}$	$610_{-0.5}$	2052	1872	2482	1127	56	590	1190	360	380	419	5270
X290	785	76	$580_{-0.5}$	$620_{-0.5}$	2187	2015	2635	1177	65	655	1280	330	355	465	6520
X300	785	76	$580_{-0.5}$	$620_{-0.5}$	2216	2044	2664	1177	65	655	1280	330	355	465	7270
X310	850	86	$630_{-0.5}$	$680_{-0.5}$	2410	2256	2936	1277	65	720	1435	385	455	499	8020
X320	850	86	$630_{-0.5}$	$680_{-0.5}$	2444	2290	2970	1277	65	720	1435	385	455	499	8970

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR. M..**
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR. M..**
X260	80_{m6}	170	85	22_{h9}	M20
X270	80_{m6}	170	85	22_{h9}	M20
X280	80_{m6}	170	85	22_{h9}	M20
X290	85_{m6}	170	90	22_{h9}	M20
X300	85_{m6}	170	90	22_{h9}	M20
X310	100_{m6}	210	106	28_{h9}	M24
X320	100_{m6}	210	106	28_{h9}	M24

X4KA.. 								
LSS	**Ø D2**	**ØEA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	3820
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4270
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4670
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5820
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6520
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7170
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820

X4KA.. 								
LSS	**Ø D 5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	3970
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4520
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4970
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6070
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6770
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7520
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170

30593506/EN – 07/2023

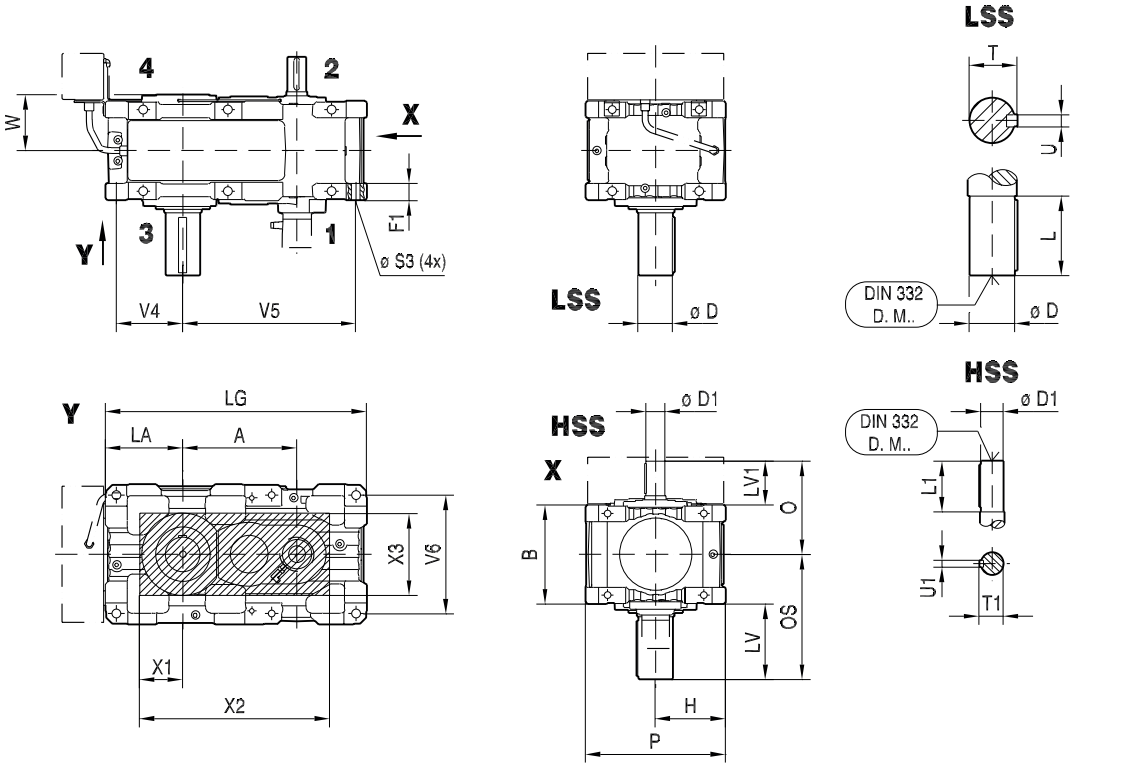
11 Dimension sheets: Vertical gear units, mounting position M5

11.1 X.F.. helical gear units [mm]

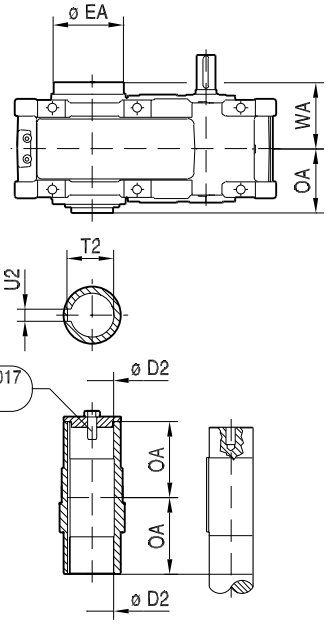
11.1.1 X2F100 - 210

X2FS..

48 072 01 07

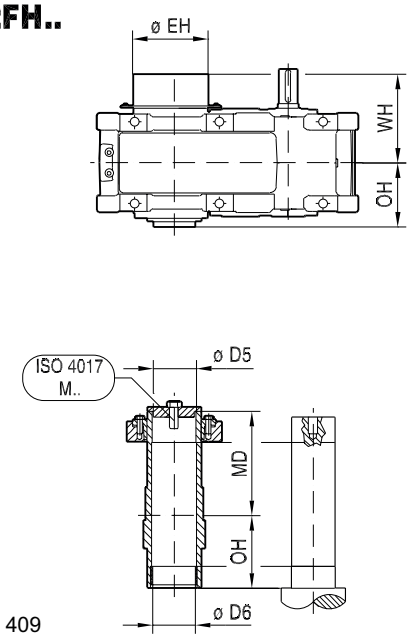


X2FA..



→ 📖 408

X2FH..



→ 📖 409

30593506/EN – 07/2023

X.F..															X.FS.. LSS							
X.F..	**A**	**B**	**F1**	**H**	**LA**	**LG**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**	**kg**
X100	278	260	47	$190_{-0.5}$	$190_{-0.5}$	658	380	24	160	441	315	153	120	490	240	80_{m6}	170	213	343	85	22_{h9}	M20	210
X110	298	260	47	$190_{-0.5}$	$215_{-0.5}$	703	380	24	185	461	315	153	125	510	250	90_{m6}	170	216	346	95	25_{h9}	M24	225
X120	327	300	53	$225_{-0.5}$	$215_{-0.5}$	767	450	28	184	521	380	174	150	590	305	100_{m6}	210	251	401	106	28_{h9}	M24	325
X130	363	300	53	$225_{-0.5}$	$250_{-0.5}$	838	450	28	219	557	380	174	165	640	325	110_{m6}	210	254	404	116	28_{h9}	M24	375
X140	388	360	67	$265_{-0.5}$	$250_{-0.5}$	903	530	35	210	613	445	202	165	675	320	120_{m6}	210	252	432	127	32_{h9}	M24	520
X150	430	360	67	$265_{-0.5}$	$295_{-0.5}$	990	530	35	255	655	445	202	180	735	360	130_{m6}	250	295	475	137	32_{h9}	M24	600
X160	474	425	81	$315_{-0.5}$	$355_{-0.5}$	1144	630	42	303	737	525	240	195	815	390	140_{m6}	250	294	506	148	36_{h9}	M30	905
X170	525	425	81	$315_{-0.5}$	$355_{-0.5}$	1195	630	42	303	788	525	240	195	860	390	160_{m6}	300	344	556	169	40_{h9}	M30	1055
X180	544	475	81	$335_{-0.5}$	$370_{-0.5}$	1249	670	42	318	827	565	277	205	895	410	170_{m6}	300	355	592	179	40_{h9}	M30	1350
X190	576	475	81	$335_{-0.5}$	$370_{-0.5}$	1281	670	42	318	859	565	277	205	930	410	170_{m6}	300	355	592	179	40_{h9}	M30	1425
X200	614	515	91	$375_{-0.5}$	$420_{-0.5}$	1409	750	48	360	930	630	298	235	1020	470	180_{m6}	300	354	612	190	45_{h9}	M30	1910
X210	650	515	91	$375_{-0.5}$	$420_{-0.5}$	1445	750	48	360	966	630	298	235	1055	470	190_{m6}	350	404	662	200	45_{h9}	M30	1940

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***							i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***						
	Ø D1	**L1**	**LV1**	**O**	**T1**	**U1**	**DIN 332 DR.M..**	**Ø D1**	**L1**	**LV1**	**O**	**T1**	**U1**	**DIN 332 DR.M..**
X100**	42_{k6}	110	144	274	45	12_{h9}	M16	32_{k6}	80	114	244	35	10_{h9}	M12
X110***	42_{k6}	110	144	274	45	12_{h9}	M16	32_{k6}	80	114	244	35	10_{h9}	M12
X120*	55_{m6}	110	140	290	59	16_{h9}	M20	42_{k6}	110	140	290	45	12_{h9}	M16
X130***	55_{m6}	110	140	290	59	16_{h9}	M20	42_{k6}	110	140	290	45	12_{h9}	M16
X140*	70_{m6}	140	168	348	74.5	20_{h9}	M20	55_{m6}	110	138	318	59	16_{h9}	M20
X150***	70_{m6}	140	168	348	74.5	20_{h9}	M20	55_{m6}	110	138	318	59	16_{h9}	M20
X160*	80_{m6}	170	199	412	85	22_{h9}	M20	70_{m6}	140	169	382	74.5	20_{h9}	M20
X170***	80_{m6}	170	199	412	85	22_{h9}	M20	70_{m6}	140	169	382	74.5	20_{h9}	M20
X180*	90_{m6}	170	207	445	95	25_{h9}	M24	75_{m6}	140	177	415	79.5	20_{h9}	M20
X190**	90_{m6}	170	207	445	95	25_{h9}	M24	75_{m6}	140	177	415	79.5	20_{h9}	M20
X200*	100_{m6}	210	246	504	106	28_{h9}	M24	90_{m6}	170	206	464	95	25_{h9}	M24
X210**	100_{m6}	210	246	504	106	28_{h9}	M24	90_{m6}	170	206	464	95	25_{h9}	M24

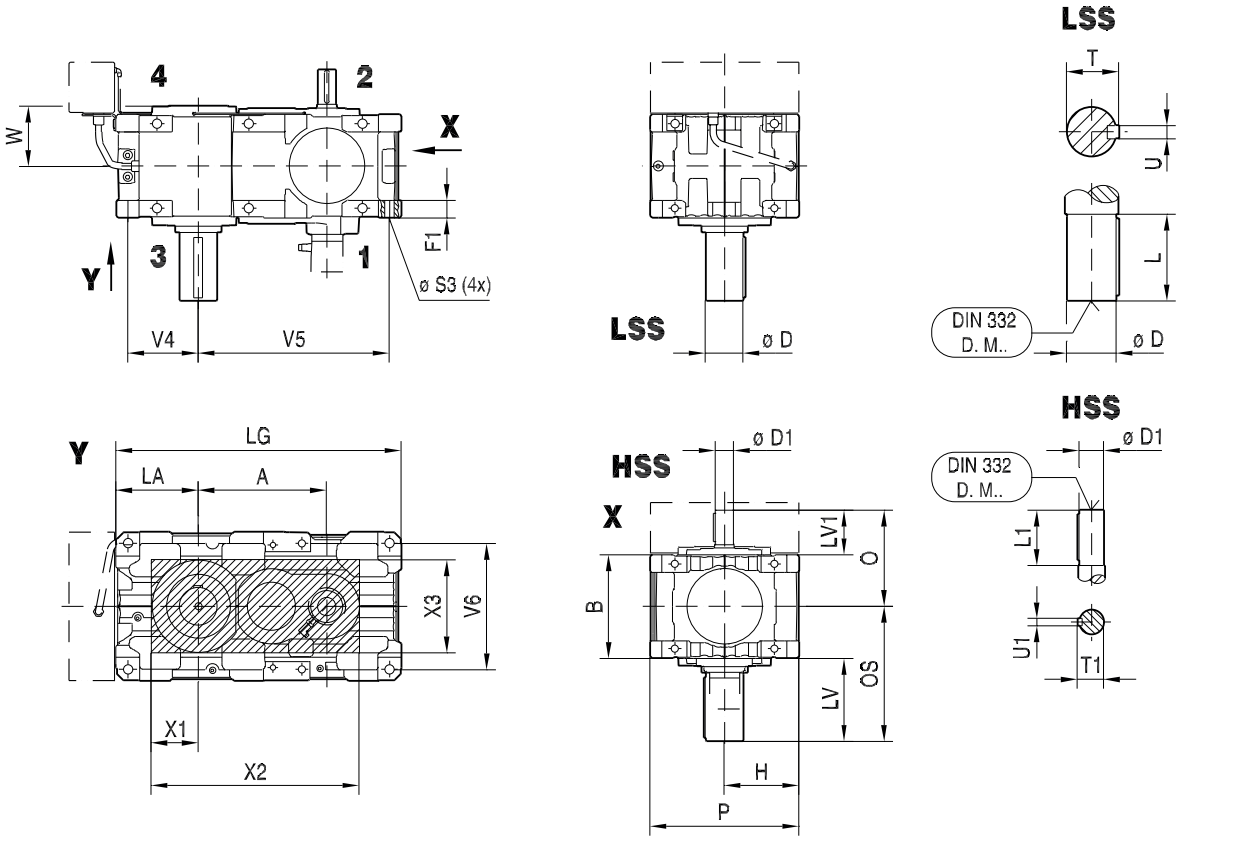
X.FA..									X.FH..								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**	**LSS**	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	200	**X100**	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	210
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	215	**X110**	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	225
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	305	**X120**	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	315
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	350	**X130**	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	365
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	485	**X140**	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	510
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	550	**X150**	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	580
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	835	**X160**	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	865
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	975	**X170**	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1030
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1250	**X180**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1300
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325	**X190**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1825	**X200**	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1895
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1825	**X210**	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1910

30593506/EN – 07/2023

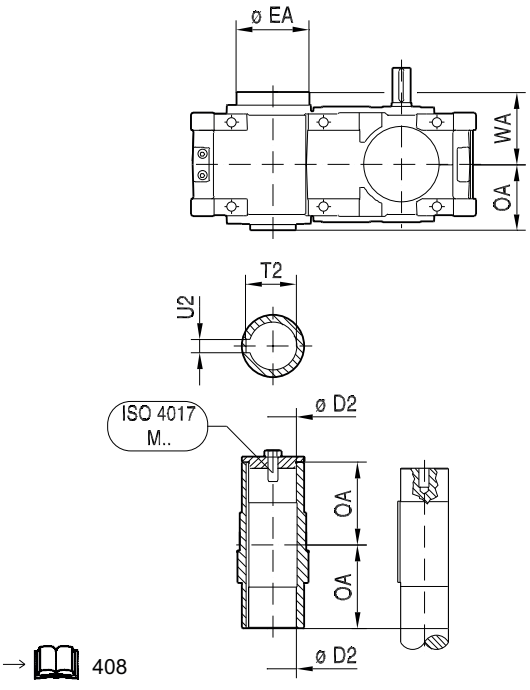
11.1.2 X2F220 - 320

X2FS..

48 075 01 07

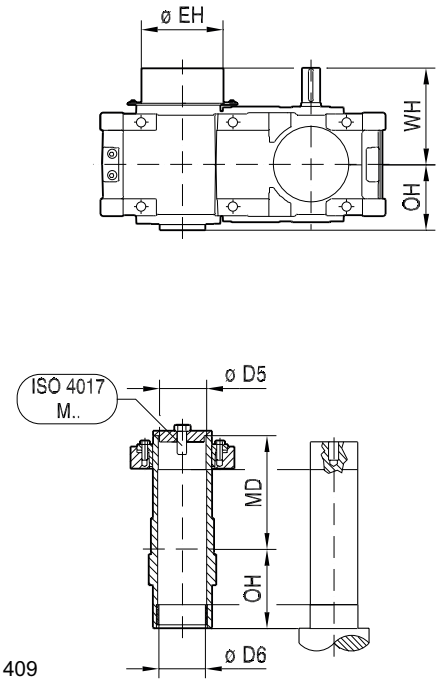


X2FA..



→ 408

X2FH..



→ 409

30593506/EN – 07/2023

X.F..															X.FS.. LSS							
X.F..	A	B	F1	H	LA	LG	P	Ø S3 (4x)	V4	V5	V6	W	X1	X2	X3	Ø D	L	LV	OS	T	U	DIN 332 DR.M..	kg
X220	694	540	100	$425_{-0.5}$	$465_{-0.5}$	1584	850	48	403	1057	725	331	260	1150	520	210_{m6}	350	433	703	221	50_{h9}	M30	2685
X230	734	540	100	$425_{-0.5}$	$465_{-0.5}$	1624	850	48	403	1097	725	331	260	1190	520	230_{m6}	410	493	763	241	50_{h9}	M36	2865
X240	776	625	105	$450_{-0.5}$	$495_{-0.5}$	1721	900	56	425	1155	760	377	290	1270	580	230_{m6}	410	498	811	241	50_{h9}	M36	3665
X250	799	625	105	$450_{-0.5}$	$495_{-0.5}$	1744	900	56	425	1178	760	377	290	1290	580	240_{m6}	410	498	811	252	56_{h9}	M36	3815
X260	855	705	105	$500_{-0.5}$	$545_{-0.5}$	1900	1017	56	475	1285	860	417	290	1375	580	250_{m6}	410	495	847	262	56_{h9}	M36	4470
X270	890	705	105	$500_{-0.5}$	$545_{-0.5}$	1935	1017	56	475	1320	860	419	310	1430	620	270_{m6}	470	568	920	282	63_{h9}	M36	4600
X280	942	705	105	$555_{-0.5}$	$610_{-0.5}$	2052	1127	56	540	1372	970	419	310	1480	620	290_{m6}	470	568	920	302	63_{h9}	M36	5370
X290	987	785	124	$580_{-0.5}$	$620_{-0.5}$	2187	1177	65	539	1486	995	465	330	1560	660	290_{m6}	470	570	962	302	63_{h9}	M36	6570
X300	1016	785	124	$580_{-0.5}$	$620_{-0.5}$	2216	1177	65	539	1515	995	465	330	1590	660	300_{m6}	470	570	962	314	70_{h9}	M36	7270
X310	1100	850	124	$630_{-0.5}$	$680_{-0.5}$	2410	1277	65	598	1647	1095	499	360	1720	720	320_{m6}	470	574	999	334	70_{h9}	M42	7520
X320	1134	850	124	$630_{-0.5}$	$680_{-0.5}$	2444	1277	65	598	1681	1095	499	360	1755	720	340_{m6}	550	654	1079	355	80_{h9}	M42	8320

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***							i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***						
	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..
X220*	110_{m6}	210	268	538	116	28_{h9}	M24	100_{m6}	210	268	538	106	28_{h9}	M24
X230**	110_{m6}	210	268	538	116	28_{h9}	M24	100_{m6}	210	268	538	106	28_{h9}	M24
X240*	120_{m6}	210	270	583	127	32_{h9}	M24	110_{m6}	210	270	583	116	28_{h9}	M24
X250**	120_{m6}	210	270	583	127	32_{h9}	M24	110_{m6}	210	270	583	116	28_{h9}	M24
X260*	130_{m6}	250	320	673	137	32_{h9}	M24	120_{m6}	210	280	633	127	32_{h9}	M24
X270**	130_{m6}	250	320	673	137	32_{h9}	M24	120_{m6}	210	280	633	127	32_{h9}	M24
X280***	130_{m6}	250	320	673	137	32_{h9}	M24	120_{m6}	210	280	633	127	32_{h9}	M24
X290*	150_{m6}	250	320	713	158	36_{h9}	M30	150_{m6}	250	320	713	158	36_{h9}	M30
X300**	150_{m6}	250	320	713	158	36_{h9}	M30	150_{m6}	250	320	713	158	36_{h9}	M30
X310*	170_{m6}	300	370	795	179	40_{h9}	M30	170_{m6}	300	370	795	179	40_{h9}	M30
X320**	170_{m6}	300	370	795	179	40_{h9}	M30	170_{m6}	300	370	795	179	40_{h9}	M30

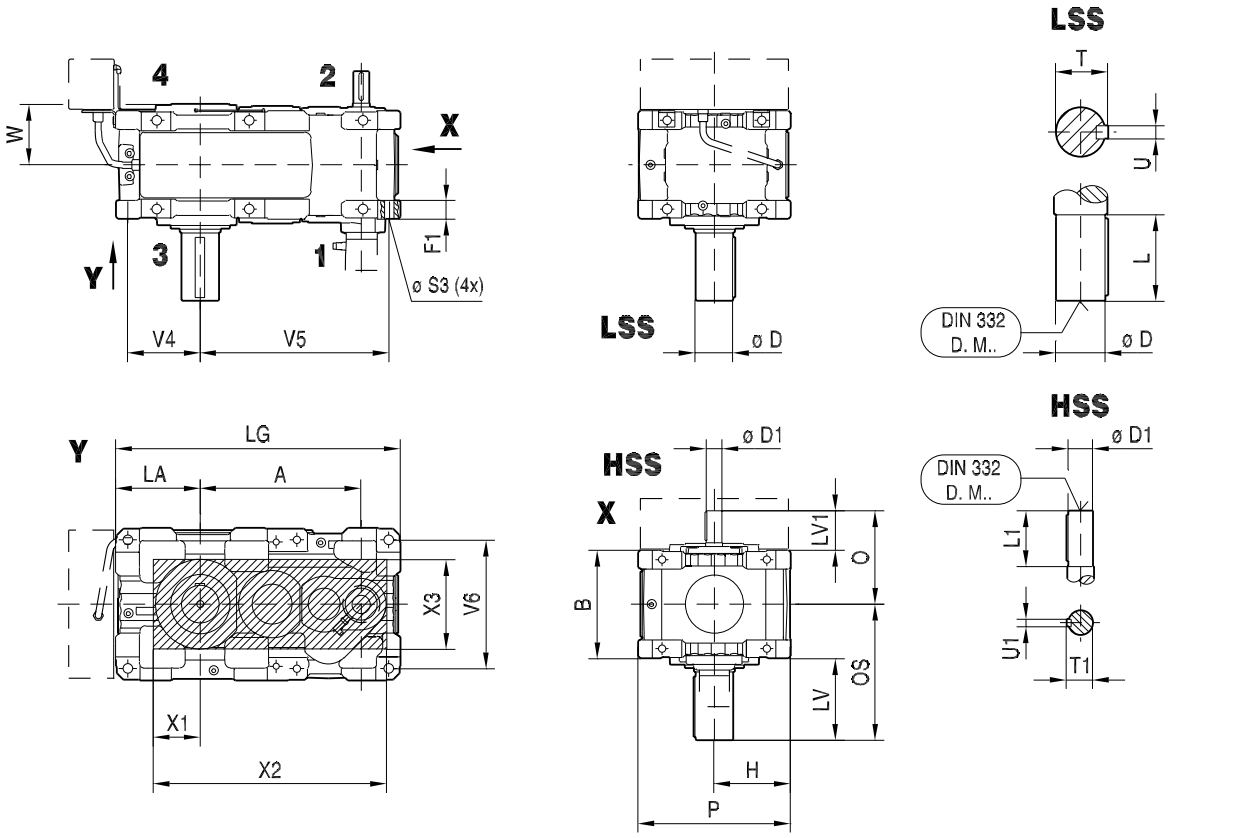
X.FA..									X.FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2505	**X220**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2610
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2645	**X230**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2755
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3380	**X240**	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3545
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3510	**X250**	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3670
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4070	**X260**	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4220
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4470	**X270**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4720
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870	**X280**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5920	**X290**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6170
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6570	**X300**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6820
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	6770	**X310**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7120
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7520	**X320**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7870

30593506/EN – 07/2023

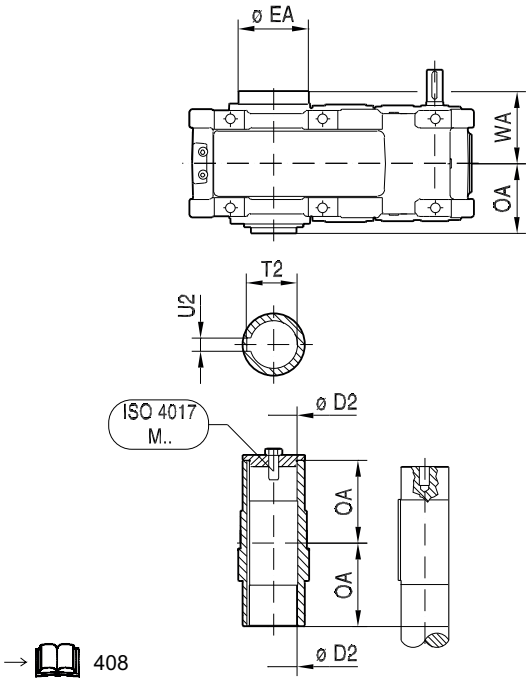
11.1.3 X3F100 - 210

48 073 01 07

X3FS..

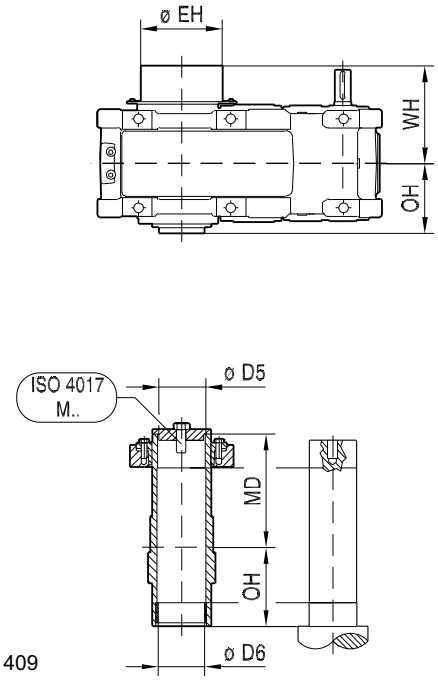


X3FA..



→ 408

X3FH..



→ 409

30593506/EN – 07/2023

X.F..															X.FS.. LSS							
X.F..	A	B	F1	H	LA	LG	P	Ø S3 (4x)	V4	V5	V6	W	X1	X2	X3	Ø D	L	LV	OS	T	U	DIN 332 DR.M..	kg
X100	360	260	47	$190_{-0.5}$	$190_{-0.5}$	663	380	24	160	441	315	153	120	560	240	80_{m6}	170	213	343	85	22_{h9}	M20	225
X110	380	260	47	$190_{-0.5}$	$215_{-0.5}$	708	380	24	185	461	315	153	125	585	250	90_{m6}	170	216	346	95	25_{h9}	M24	230
X120	427	300	53	$225_{-0.5}$	$215_{-0.5}$	767	450	28	184	521	380	174	150	670	305	100_{m6}	210	251	401	106	28_{h9}	M24	345
X130	463	300	53	$225_{-0.5}$	$250_{-0.5}$	838	450	28	219	557	380	174	165	715	325	110_{m6}	210	254	404	116	28_{h9}	M24	410
X140	502	360	67	$265_{-0.5}$	$250_{-0.5}$	903	530	35	210	613	445	202	165	765	320	120_{m6}	210	252	432	127	32_{h9}	M24	580
X150	544	360	67	$265_{-0.5}$	$295_{-0.5}$	990	530	35	255	655	445	202	180	820	360	130_{m6}	250	295	475	137	32_{h9}	M24	635
X160	611	425	81	$315_{-0.5}$	$355_{-0.5}$	1144	630	42	303	737	525	240	195	920	390	140_{m6}	250	294	506	148	36_{h9}	M30	985
X170	662	425	81	$315_{-0.5}$	$355_{-0.5}$	1195	630	42	303	788	525	240	195	970	390	160_{m6}	300	344	556	169	40_{h9}	M30	1140
X180	707	475	81	$335_{-0.5}$	$370_{-0.5}$	1249	670	42	318	827	565	277	205	1030	410	170_{m6}	300	355	592	179	40_{h9}	M30	1465
X190	739	475	81	$335_{-0.5}$	$370_{-0.5}$	1281	670	42	318	859	565	277	205	1065	410	170_{m6}	300	355	592	179	40_{h9}	M30	1530
X200	794	515	91	$375_{-0.5}$	$420_{-0.5}$	1409	750	48	360	930	630	298	235	1160	470	180_{m6}	300	354	612	190	45_{h9}	M30	1870
X210	830	515	91	$375_{-0.5}$	$420_{-0.5}$	1445	750	48	360	966	630	298	235	1195	470	190_{m6}	350	404	662	200	45_{h9}	M30	1950

HSS	i = 20 ... 56* / i = 22.4 ... 63** / i = 25 ... 71***							i = 63 ... 90* / i = 71 ... 100** / i = 80 ... 112***						
	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..
X100**	32_{k6}	80	114	244	35	10_{h9}	M12	32_{k6}	80	114	244	35	10_{h9}	M12
X110***	32_{k6}	80	114	244	35	10_{h9}	M12	32_{k6}	80	114	244	35	10_{h9}	M12
X120*	38_{k6}	80	108	258	41	10_{h9}	M12	38_{k6}	80	108	258	41	10_{h9}	M12
X130***	38_{k6}	80	108	258	41	10_{h9}	M12	38_{k6}	80	108	258	41	10_{h9}	M12
X140*	45_{k6}	110	138	318	48.5	14_{h9}	M16	45_{k6}	110	138	318	48.5	14_{h9}	M16
X150***	45_{k6}	110	138	318	48.5	14_{h9}	M16	45_{k6}	110	138	318	48.5	14_{h9}	M16
X160*	60_{m6}	140	168	381	64	18_{h9}	M20	50_{k6}	110	138	351	53.5	14_{h9}	M16
X170***	60_{m6}	140	168	381	64	18_{h9}	M20	50_{k6}	110	138	351	53.5	14_{h9}	M16
X180*	70_{m6}	140	173	411	74.5	20_{h9}	M20	55_{m6}	110	143	381	59	16_{h9}	M20
X190**	70_{m6}	140	173	411	74.5	20_{h9}	M20	55_{m6}	110	143	381	59	16_{h9}	M20
X200*	75_{m6}	140	172	430	79.5	20_{h9}	M20	60_{m6}	140	172	430	64	18_{h9}	M20
X210**	75_{m6}	140	172	430	79.5	20_{h9}	M20	60_{m6}	140	172	430	64	18_{h9}	M20

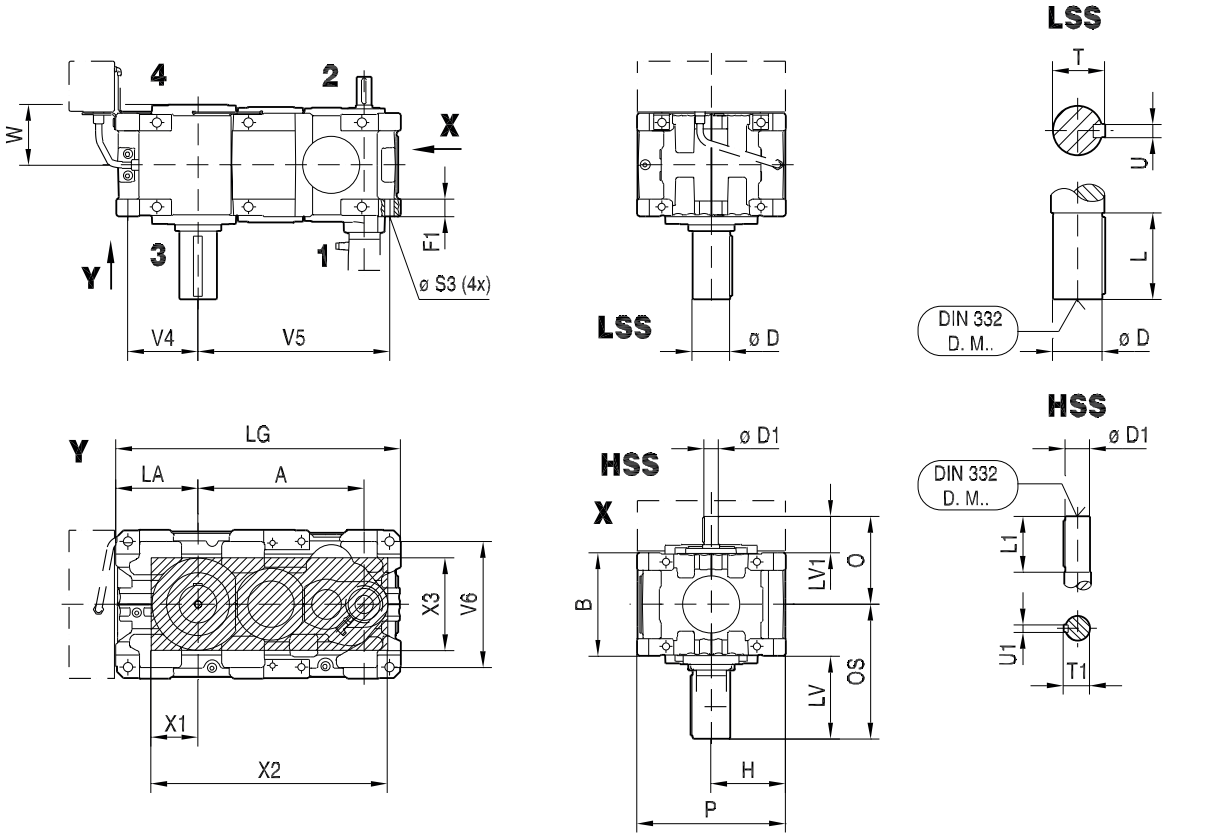
X.FA..									X.FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	215	**X100**	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	225
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	220	**X110**	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	230
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	325	**X120**	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	335
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	410	**X130**	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	545	**X140**	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	570
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	585	**X150**	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	585
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	915	**X160**	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	945
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1060	**X170**	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1115
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1365	**X180**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1415
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1430	**X190**	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1480
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1785	**X200**	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1855
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1835	**X210**	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1920

30593506/EN – 07/2023

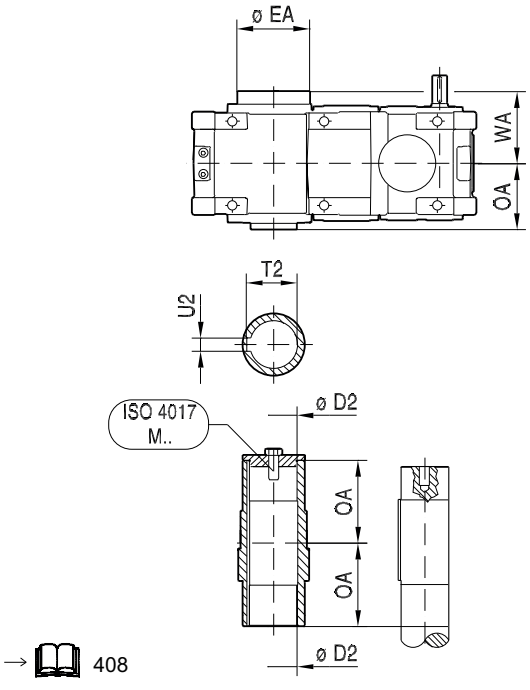
11.1.4 X3F220 - 320

X3FS..

48 076 01 07

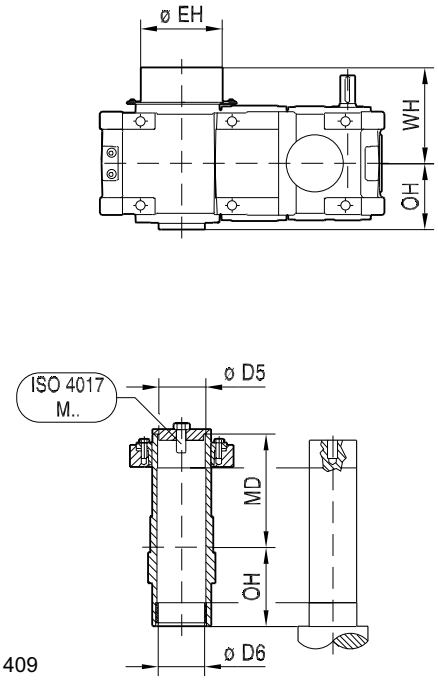


X3FA..



→ 408

X3FH..



→ 409

30593506/EN – 07/2023

X.F..																X.FS.. LSS							
X.F..	A	B	F1	H	LA	LG	P	Ø S3 (4x)	V4	V5	V6	W	X1	X2	X3	Ø D	L	LV	OS	T	U	DIN 332 DR.M..	kg
X220	894	540	100	$425_{-0.5}$	$465_{-0.5}$	1584	850	48	403	1057	725	331	260	1295	520	210_{m6}	350	433	703	221	50_{h9}	M30	2665
X230	934	540	100	$425_{-0.5}$	$465_{-0.5}$	1624	850	48	403	1097	725	331	260	1335	520	230_{m6}	410	493	763	241	50_{h9}	M36	2885
X240	1004	625	105	$450_{-0.5}$	$495_{-0.5}$	1721	900	56	425	1155	760	377	290	1445	580	230_{m6}	410	498	811	241	50_{h9}	M36	3725
X250	1027	625	105	$450_{-0.5}$	$495_{-0.5}$	1744	900	56	425	1178	760	377	290	1465	580	240_{m6}	410	498	811	252	56_{h9}	M36	3835
X260	1113	705	105	$500_{-0.5}$	$545_{-0.5}$	1900	1000	56	475	1285	860	417	290	1575	580	250_{m6}	410	495	847	262	56_{h9}	M36	4520
X270	1148	705	105	$500_{-0.5}$	$545_{-0.5}$	1935	1000	56	475	1320	860	419	310	1630	620	270_{m6}	470	568	920	282	63_{h9}	M36	5020
X280	1200	705	105	$555_{-0.5}$	$610_{-0.5}$	2052	1110	56	540	1372	970	419	310	1685	620	290_{m6}	470	568	920	302	63_{h9}	M36	5505
X290	1279	785	124	$580_{-0.5}$	$620_{-0.5}$	2187	1160	65	539	1486	995	465	330	1805	660	290_{m6}	470	570	962	302	63_{h9}	M36	6920
X300	1308	785	124	$580_{-0.5}$	$620_{-0.5}$	2216	1160	65	539	1515	995	465	330	1835	660	300_{m6}	470	570	962	314	70_{h9}	M36	7620
X310	1435	850	124	$630_{-0.5}$	$680_{-0.5}$	2410	1260	65	598	1647	1095	499	360	2005	720	320_{m6}	470	574	999	334	70_{h9}	M42	8470
X320	1469	850	124	$630_{-0.5}$	$680_{-0.5}$	2444	1260	65	598	1681	1095	499	360	2040	720	340_{m6}	550	654	1079	355	80_{h9}	M42	9370

HSS	i = 20 ... 50* / i = 22.4 ... 56** / i = 25 ... 63***							i = 56 ... 90* / i = 63 ... 100** / i = 71 ... 112***						
	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..
X220*	80_{m6}	170	217	487	85	22_{h9}	M20	70_{m6}	140	187	457	74.5	20_{h9}	M20
X230**	80_{m6}	170	217	487	85	22_{h9}	M20	70_{m6}	140	187	457	74.5	20_{h9}	M20
X240*	90_{m6}	170	219	532	95	25_{h9}	M24	75_{m6}	140	189	502	79.5	20_{h9}	M20
X250**	90_{m6}	170	219	532	95	25_{h9}	M24	75_{m6}	140	189	502	79.5	20_{h9}	M20
X260*	100_{m6}	210	260	613	106	28_{h9}	M24	80_{m6}	170	220	573	85	22_{h9}	M20
X270**	100_{m6}	210	260	613	106	28_{h9}	M24	80_{m6}	170	220	573	85	22_{h9}	M20
X280***	100_{m6}	210	260	613	106	28_{h9}	M24	80_{m6}	170	220	573	85	22_{h9}	M20
X290*	100_{m6}	210	268	661	106	28_{h9}	M24	100_{m6}	210	268	661	106	28_{h9}	M24
X300**	100_{m6}	210	268	661	106	28_{h9}	M24	100_{m6}	210	268	661	106	28_{h9}	M24
X310*	110_{m6}	210	269	694	116	28_{h9}	M24	110_{m6}	210	269	694	116	28_{h9}	M24
X320**	110_{m6}	210	269	694	116	28_{h9}	M24	110_{m6}	210	269	694	116	28_{h9}	M24

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2485
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2665
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3440
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3530
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4070
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4470
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4970
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6270
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6870
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7670
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

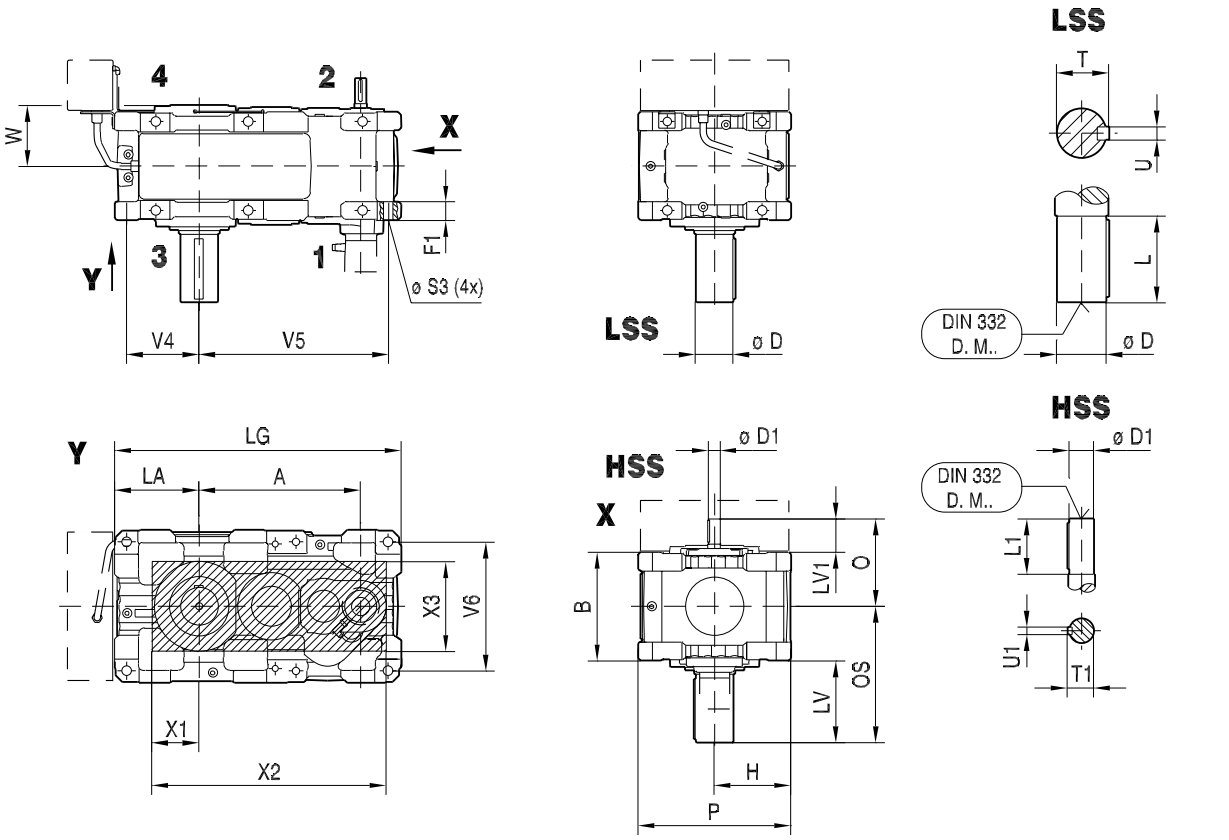
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2590
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2775
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3605
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3690
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4220
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4770
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5320
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6520
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7120
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8020
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8320

30593506/EN – 07/2023

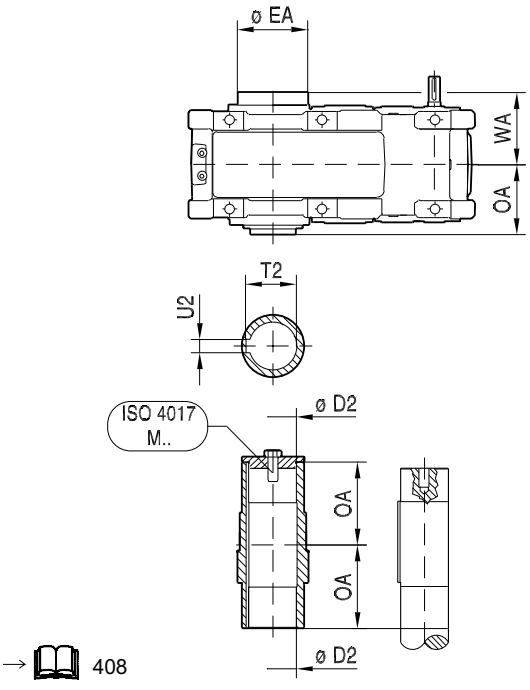
11.1.5 X4F120 - 210

X4FS..

48 074 01 07

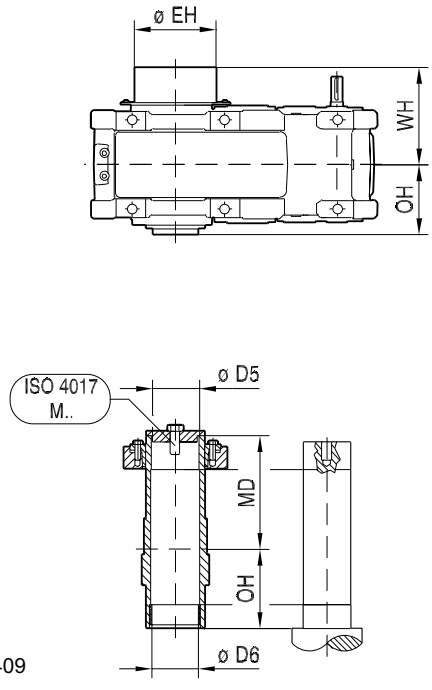


X4FA..



→ 408

X4FH..



→ 409

30593506/EN – 07/2023

X.F..															X.FS.. LSS							
X.F..	A	B	F1	H	LA	LG	P	Ø S3 (4x)	V4	V5	V6	W	X1	X2	X3	Ø D	L	LV	OS	T	U	DIN 332 DR.M..	kg
X120	427	300	53	$225_{-0.5}$	$215_{-0.5}$	772	450	28	184	521	380	174	150	670	305	100_{m6}	210	251	401	106	28_{h9}	M24	360
X130	463	300	53	$225_{-0.5}$	$250_{-0.5}$	843	450	28	219	557	380	174	165	715	325	110_{m6}	210	254	404	116	28_{h9}	M24	400
X140	502	360	67	$265_{-0.5}$	$250_{-0.5}$	908	530	35	210	613	445	202	165	765	320	120_{m6}	210	252	432	127	32_{h9}	M24	570
X150	544	360	67	$265_{-0.5}$	$295_{-0.5}$	995	530	35	255	655	445	202	180	820	360	130_{m6}	250	295	475	137	32_{h9}	M24	650
X160	611	425	81	$315_{-0.5}$	$355_{-0.5}$	1149	630	42	303	737	525	240	195	920	390	140_{m6}	250	294	506	148	36_{h9}	M30	975
X170	662	425	81	$315_{-0.5}$	$355_{-0.5}$	1200	630	42	303	788	525	240	195	970	390	160_{m6}	300	344	556	169	40_{h9}	M30	1175
X180	707	475	81	$335_{-0.5}$	$370_{-0.5}$	1254	670	42	318	827	565	277	205	1035	410	170_{m6}	300	355	592	179	40_{h9}	M30	1425
X190	739	475	81	$335_{-0.5}$	$370_{-0.5}$	1287	670	42	318	859	565	277	205	1065	410	170_{m6}	300	355	592	179	40_{h9}	M30	1465
X200	794	515	91	$375_{-0.5}$	$420_{-0.5}$	1415	750	48	360	930	630	298	235	1160	470	180_{m6}	300	354	612	190	45_{h9}	M30	1920
X210	830	515	91	$375_{-0.5}$	$420_{-0.5}$	1451	750	48	360	966	630	298	235	1195	470	190_{m6}	350	404	662	200	45_{h9}	M30	2110

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***							i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***						
	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..
X120*	28_{k6}	60	88	238	31	8_{h9}	M10	28_{k6}	60	88	238	31	8_{h9}	M10
X130***	28_{k6}	60	88	238	31	8_{h9}	M10	28_{k6}	60	88	238	31	8_{h9}	M10
X140*	32_{k6}	80	108	288	35	10_{h9}	M12	32_{k6}	80	108	288	35	10_{h9}	M12
X150***	32_{k6}	80	108	288	35	10_{h9}	M12	32_{k6}	80	108	288	35	10_{h9}	M12
X160*	38_{k6}	80	107	320	41	10_{h9}	M12	38_{k6}	80	107	320	41	10_{h9}	M12
X170***	38_{k6}	80	107	320	41	10_{h9}	M12	38_{k6}	80	107	320	41	10_{h9}	M12
X180*	50_{k6}	110	143	381	53.5	14_{h9}	M16	38_{k6}	80	113	351	41	10_{h9}	M12
X190**	50_{k6}	110	143	381	53.5	14_{h9}	M16	38_{k6}	80	113	351	41	10_{h9}	M12
X200*	55_{m6}	110	142	400	59	16_{h9}	M20	42_{k6}	110	142	400	45	12_{h9}	M16
X210**	55_{m6}	110	142	400	59	16_{h9}	M20	42_{k6}	110	142	400	45	12_{h9}	M16

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	340
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	375
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	905
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1095
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1365
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1835
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1995

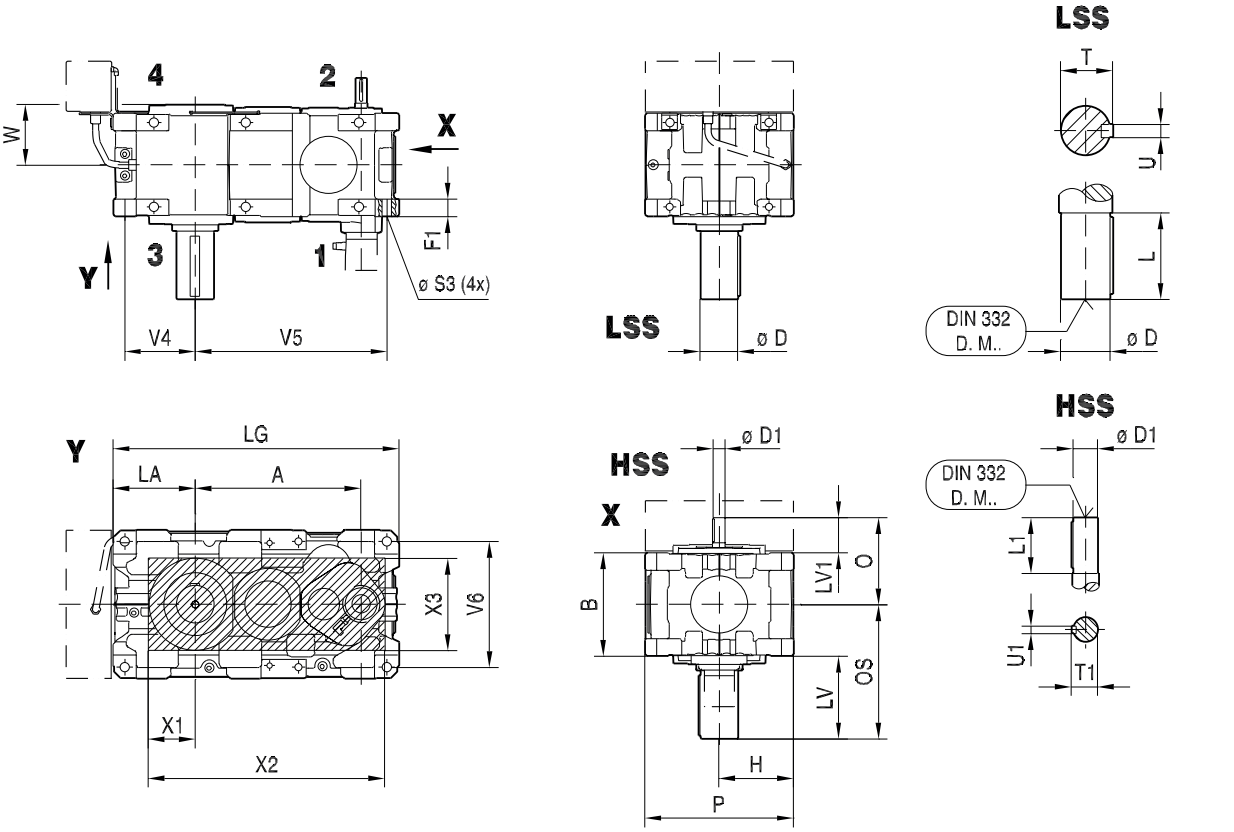
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	350
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	390
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	935
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1150
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1415
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1905
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2080

30593506/EN – 07/2023

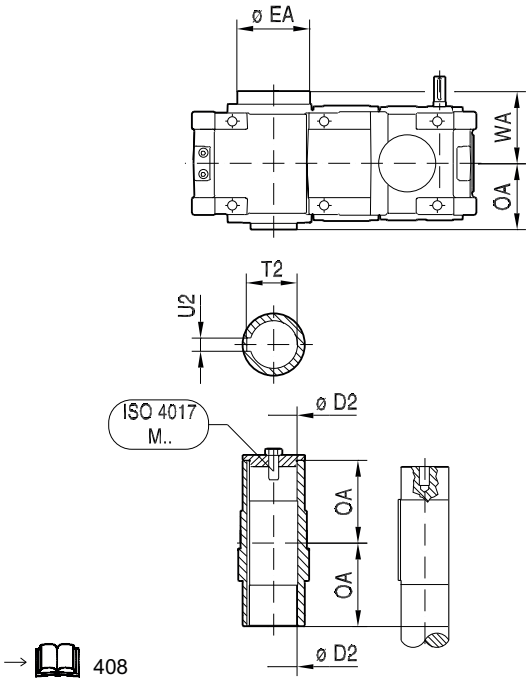
11.1.6 X4F220 - 320

X4FS..

48 077 01 07

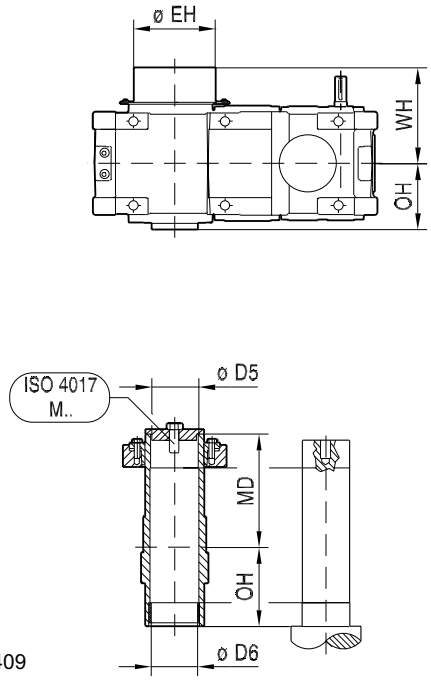


X4FA..



→ 408

X4FH..



→ 409

30593506/EN – 07/2023

X.F..																X.FS.. LSS							
X.F..	A	B	F1	H	LA	LG	P	Ø S3 (4x)	V4	V5	V6	W	X1	X2	X3	Ø D	L	LV	OS	T	U	DIN 332 DR.M..	kg
X220	894	540	100	$425_{-0.5}$	$465_{-0.5}$	1591	850	48	403	1057	725	331	260	1295	520	210_{m6}	350	433	703	221	50_{h9}	M30	2715
X230	934	540	100	$425_{-0.5}$	$465_{-0.5}$	1631	850	48	403	1097	725	331	260	1335	520	230_{m6}	410	493	763	241	50_{h9}	M36	3075
X240	1004	625	105	$450_{-0.5}$	$495_{-0.5}$	1729	900	56	425	1155	760	377	290	1445	580	230_{m6}	410	498	811	241	50_{h9}	M36	3785
X250	1027	625	105	$450_{-0.5}$	$495_{-0.5}$	1752	900	56	425	1178	760	377	290	1465	580	240_{m6}	410	498	811	252	56_{h9}	M36	3910
X260	1113	705	105	$500_{-0.5}$	$545_{-0.5}$	1909	1000	56	475	1285	860	417	290	1575	580	250_{m6}	410	495	847	262	56_{h9}	M36	4620
X270	1148	705	105	$500_{-0.5}$	$545_{-0.5}$	1941	1000	56	475	1320	860	419	310	1630	620	270_{m6}	470	568	920	282	63_{h9}	M36	5120
X280	1200	705	105	$555_{-0.5}$	$610_{-0.5}$	2058	1110	56	540	1372	970	419	310	1685	620	290_{m6}	470	568	920	302	63_{h9}	M36	5670
X290	1279	785	124	$580_{-0.5}$	$620_{-0.5}$	2196	1160	65	539	1486	995	465	330	1805	660	290_{m6}	470	570	962	302	63_{h9}	M36	7070
X300	1308	785	124	$580_{-0.5}$	$620_{-0.5}$	2225	1160	65	539	1515	995	465	330	1835	660	300_{m6}	470	570	962	314	70_{h9}	M36	7820
X310	1435	850	124	$630_{-0.5}$	$680_{-0.5}$	2419	1260	65	598	1647	1095	499	360	2005	720	320_{m6}	470	574	999	334	70_{h9}	M42	8670
X320	1469	850	124	$630_{-0.5}$	$680_{-0.5}$	2453	1260	65	598	1681	1095	499	360	2040	720	340_{m6}	550	654	1079	355	80_{h9}	M42	9620

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***							i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***						
	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	LV1	O	T1	U1	DIN 332 DR.M..
X220*	60_{m6}	140	187	457	64	18_{h9}	M20	50_{k6}	110	157	427	53.5	14_{h9}	M16
X230**	60_{m6}	140	187	457	64	18_{h9}	M20	50_{k6}	110	157	427	53.5	14_{h9}	M16
X240*	70_{m6}	140	189	502	74.5	20_{h9}	M20	55_{m6}	110	159	472	59	16_{h9}	M20
X250**	70_{m6}	140	189	502	74.5	20_{h9}	M20	55_{m6}	110	159	472	59	16_{h9}	M20
X260*	75_{m6}	140	190	543	79.5	20_{h9}	M20	60_{m6}	140	190	543	64	18_{h9}	M20
X270**	75_{m6}	140	190	543	79.5	20_{h9}	M20	60_{m6}	140	190	543	64	18_{h9}	M20
X280***	75_{m6}	140	190	543	79.5	20_{h9}	M20	60_{m6}	140	190	543	64	18_{h9}	M20
X290*	80_{m6}	170	221	614	85	22_{h9}	M20	80_{m6}	170	221	614	85	22_{h9}	M20
X300**	80_{m6}	170	221	614	85	22_{h9}	M20	80_{m6}	170	221	614	85	22_{h9}	M20
X310*	90_{m6}	170	220	645	95	25_{h9}	M24	90_{m6}	170	220	645	95	25_{h9}	M24
X320**	90_{m6}	170	220	645	95	25_{h9}	M24	90_{m6}	170	220	645	95	25_{h9}	M24

X.FA..									X.FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2535	**X220**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2640
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2855	**X230**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2965
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3500	**X240**	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3665
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3605	**X250**	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3765
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4170	**X260**	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4320
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4620	**X270**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5120	**X280**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5370
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370	**X290**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6620
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	7070	**X300**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7320
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820	**X310**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470	**X320**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8820

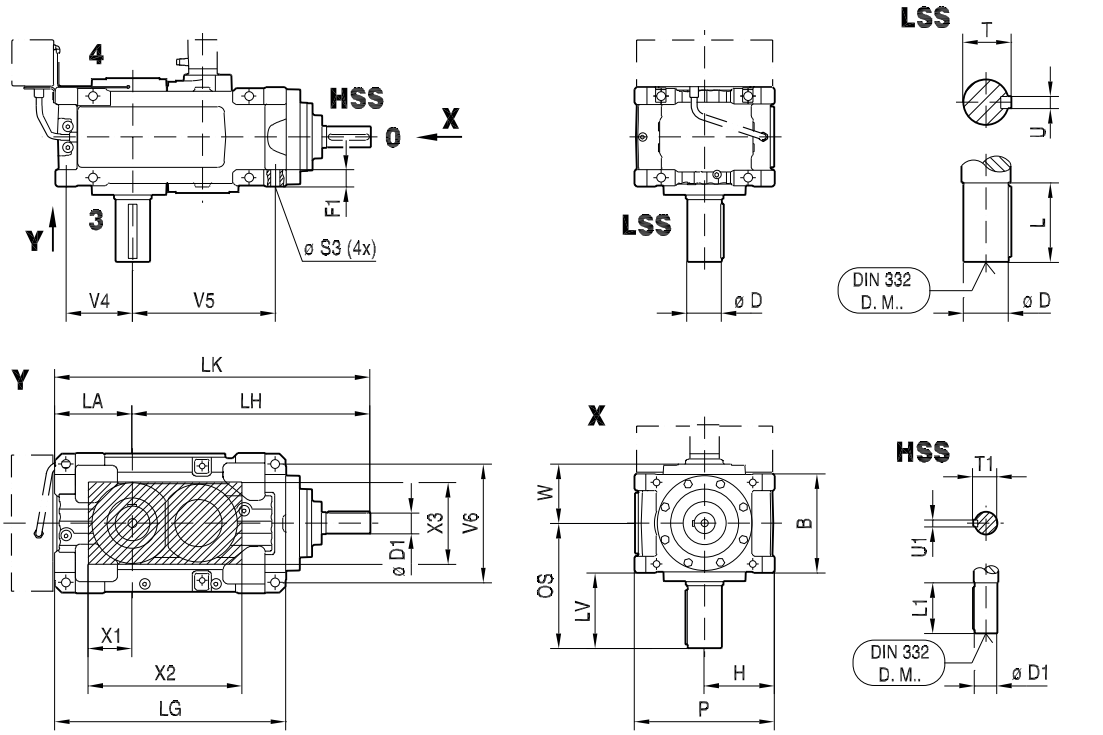
30593506/EN – 07/2023

11.2 X.K.. bevel-helical gear units [mm]

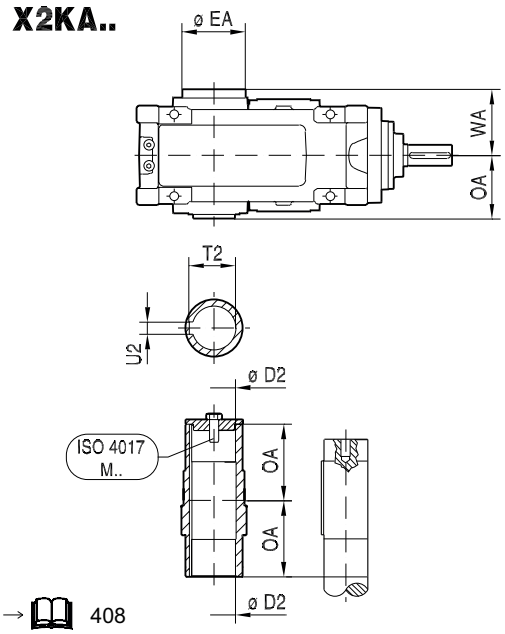
11.2.1 X2K100 - 210

X2KS..

48 060 01 07

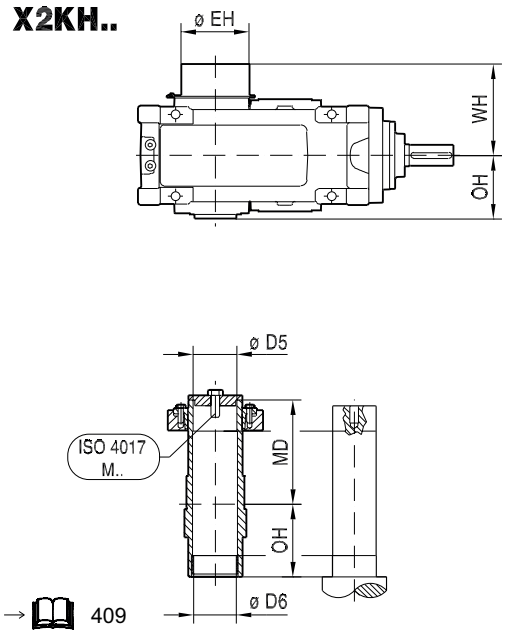


X2KA..



→ 408

X2KH..



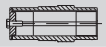
→ 409

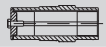
30593506/EN – 07/2023

X.K..																	
X2K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X100	260	47	$190_{-0.5}$	$190_{-0.5}$	601	655	845	380	24	160	384	315	153	120	395	240	240
X110	260	47	$190_{-0.5}$	$215_{-0.5}$	646	675	890	380	24	185	404	315	153	125	420	250	255
X120	300	53	$225_{-0.5}$	$215_{-0.5}$	697	752	967	450	28	184	451	380	174	150	475	305	355
X130	300	53	$225_{-0.5}$	$250_{-0.5}$	768	788	1038	450	28	219	487	380	174	165	525	325	410
X140	360	67	$265_{-0.5}$	$250_{-0.5}$	784	816	1066	530	35	210	494	445	202	165	535	320	570
X150	360	67	$265_{-0.5}$	$295_{-0.5}$	871	858	1153	530	35	255	536	445	202	180	595	360	660
X160	425	81	$315_{-0.5}$	$355_{-0.5}$	1023	1010	1365	630	42	303	617	525	240	195	645	390	1010
X170	425	81	$315_{-0.5}$	$355_{-0.5}$	1074	1061	1416	630	42	303	668	525	240	195	695	390	1130
X180	475	81	$335_{-0.5}$	$370_{-0.5}$	1105	1137	1507	670	42	318	682	565	277	205	715	410	1380
X190	475	81	$335_{-0.5}$	$370_{-0.5}$	1137	1169	1539	670	42	318	714	565	277	205	750	410	1495
X200	515	91	$375_{-0.5}$	$420_{-0.5}$	1241	1268	1688	750	48	360	760	630	298	235	790	470	1930
X210	515	91	$375_{-0.5}$	$420_{-0.5}$	1277	1304	1724	750	48	360	795	630	298	235	825	470	2040

LSS 	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	213	343	85	22_{h9}	M20
X110	90_{m6}	170	216	346	95	25_{h9}	M24
X120	100_{m6}	210	251	401	106	28_{h9}	M24
X130	110_{m6}	210	254	404	116	28_{h9}	M24
X140	120_{m6}	210	252	432	127	32_{h9}	M24
X150	130_{m6}	250	295	475	137	32_{h9}	M24
X160	140_{m6}	250	294	506	148	36_{h9}	M30
X170	160_{m6}	300	344	556	169	40_{h9}	M30
X180	170_{m6}	300	355	592	179	40_{h9}	M30
X190	170_{m6}	300	355	592	179	40_{h9}	M30
X200	180_{m6}	300	354	612	190	45_{h9}	M30
X210	190_{m6}	350	404	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	50_{k6}	110	53.5	14_{h9}	M16
X110	50_{k6}	110	53.5	14_{h9}	M16
X120	60_{m6}	140	64	18_{h9}	M20
X130	60_{m6}	140	64	18_{h9}	M20
X140	70_{m6}	140	74.5	20_{h9}	M20
X150	70_{m6}	140	74.5	20_{h9}	M20
X160	85_{m6}	170	90	22_{h9}	M20
X170	85_{m6}	170	90	22_{h9}	M20
X180	100_{m6}	210	106	28_{h9}	M24
X190	100_{m6}	210	106	28_{h9}	M24
X200	110_{m6}	210	116	28_{h9}	M24
X210	110_{m6}	210	116	28_{h9}	M24

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	230
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	245
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	335
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	385
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	610
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	940
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1050
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1280
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1395
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1845
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1925

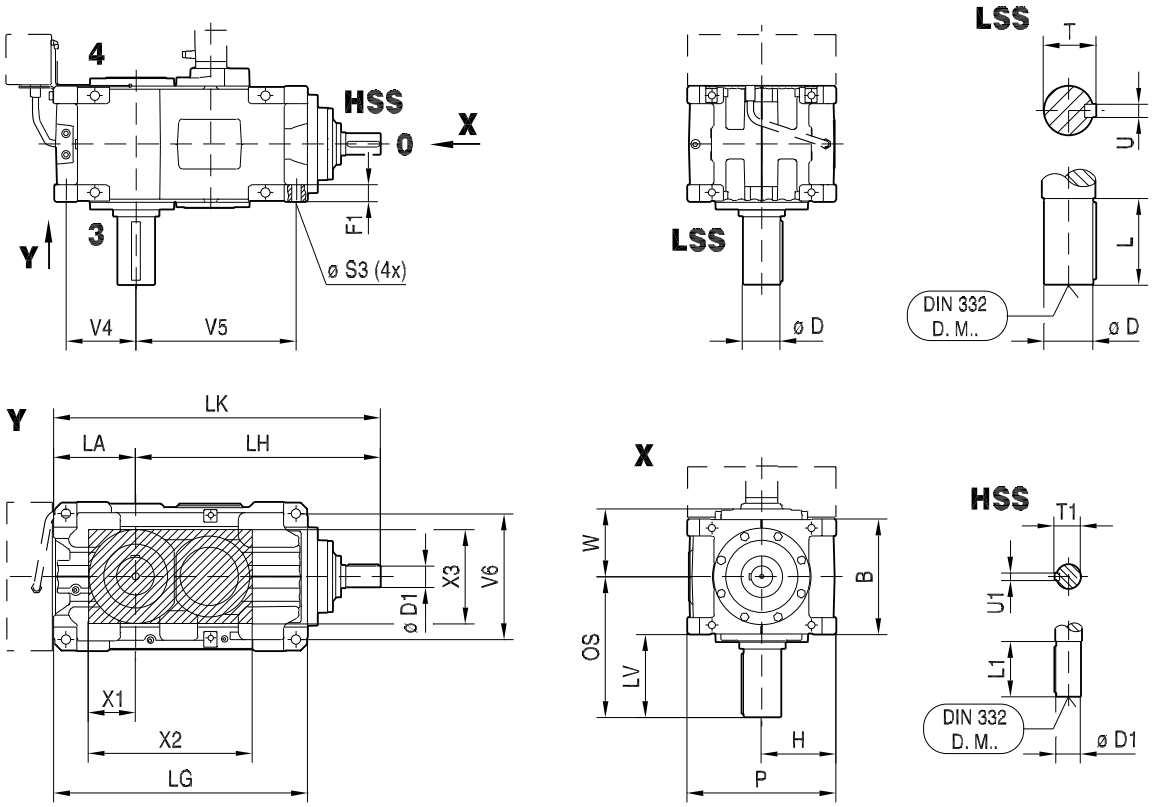
X.KA.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	240
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	255
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	345
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	640
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	970
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1105
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1330
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1445
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1915
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2010

30593506/EN – 07/2023

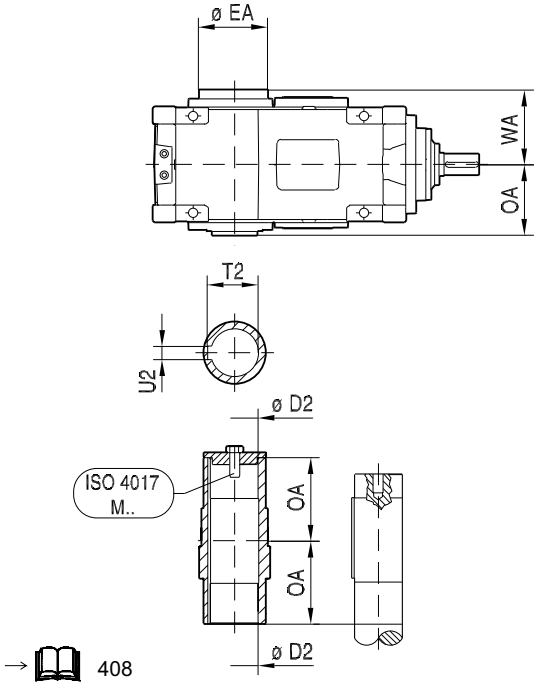
11.2.2 X2K220 - 250

X2KS..

48 063 01 07

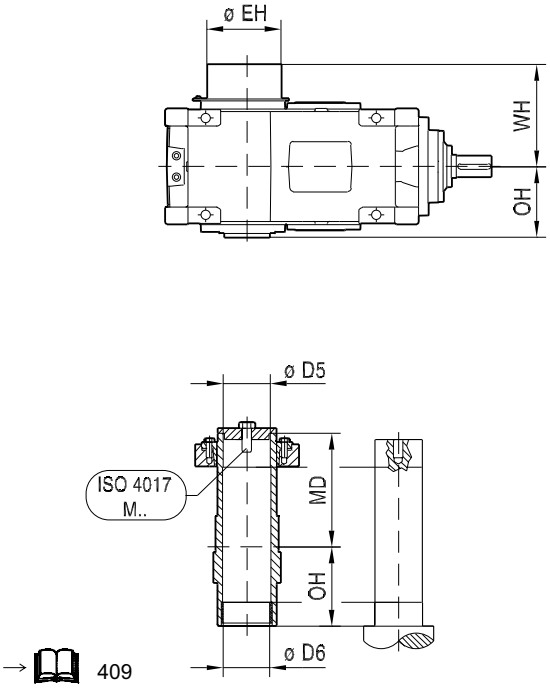


X2KA..



→ 408

X2KH..



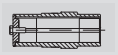
→ 409

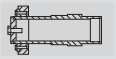
30593506/EN – 07/2023

X.K..																	
X2K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X220	610	100	$425_{-0.5}$	$465_{-0.5}$	1412	1436	1901	850	48	403	887	725	366	260	890	515	2895
X230	610	100	$425_{-0.5}$	$465_{-0.5}$	1452	1476	1941	850	48	403	927	725	366	260	930	515	3075
X240	700	105	$450_{-0.5}$	$495_{-0.5}$	1531	1476	1971	900	56	425	965	760	415	290	980	575	3975
X250	700	105	$450_{-0.5}$	$495_{-0.5}$	1554	1499	1994	900	56	425	988	760	415	290	1000	575	3980

LSS 	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	433	738	221	50_{h9}	M30
X230	230_{m6}	410	493	798	241	50_{h9}	M36
X240	230_{m6}	410	498	848	241	50_{h9}	M36
X250	240_{m6}	410	498	848	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X220	120_{m6}	210	127	32_{h9}	M24
X230	120_{m6}	210	127	32_{h9}	M24
X240	130_{m6}	210	137	32_{h9}	M24
X250	130_{m6}	210	137	32_{h9}	M24

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2700
X230	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2845
X240	230^{H8}	420	438	241.4	50^{JS9}	507	M36x110-8.8	3670
X250	240^{H8}	420	438	252.4	56^{JS9}	507	M36x110-8.8	3655

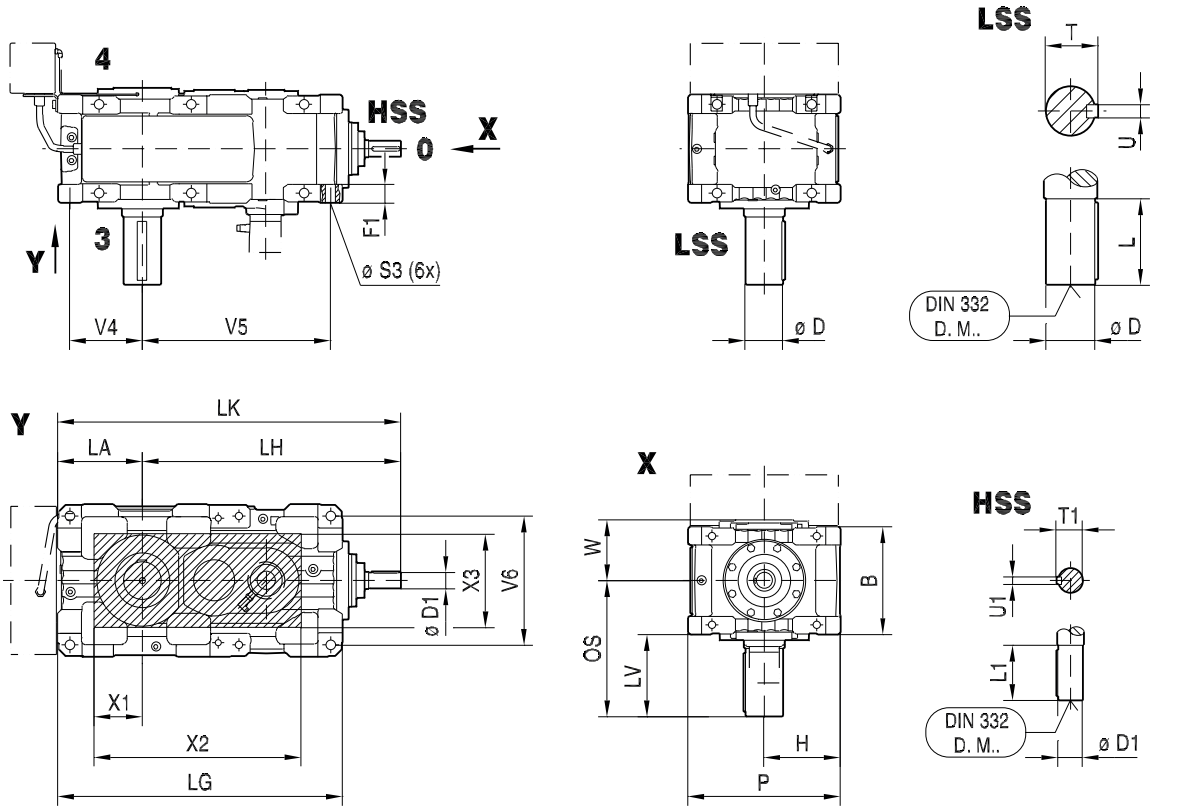
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211_{H9}	484	533	387.5	597	M30x90-8.8	2810
X230	210^{H7}	211_{H9}	484	533	387.5	597	M30x90-8.8	2950
X240	230^{H7}	231_{H9}	558	609	438	692	M36x110-8.8	3835
X250	240^{H7}	241_{H9}	558	609	438	692	M36x110-8.8	3815

30593506/EN – 07/2023

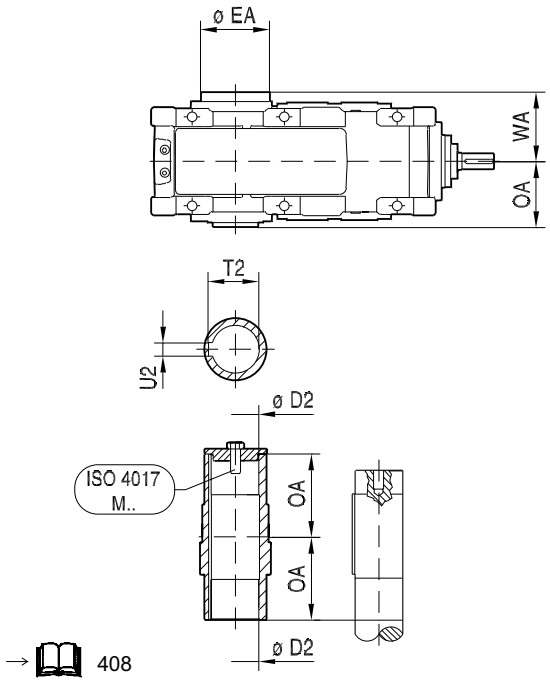
11.2.3 X3K100 - 210

X3KS..

48 061 01 07

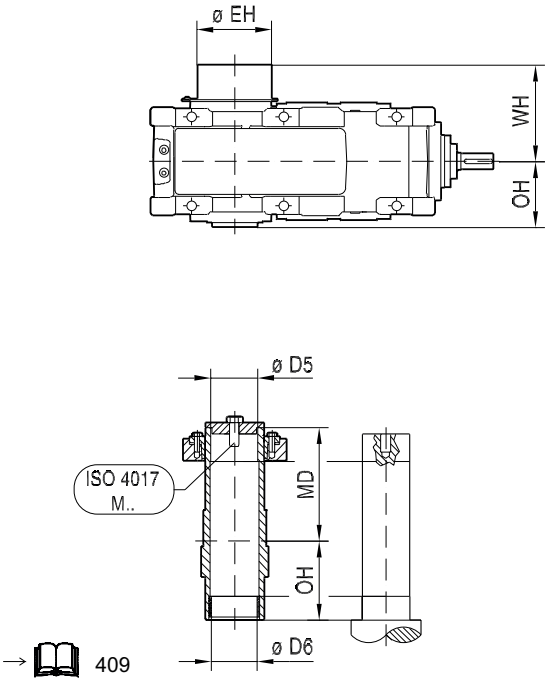


X3KA..



→ 408

X3KH..



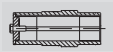
→ 409

30593506/EN – 07/2023

X.K..																	
X3K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X100	260	47	$190_{-0.5}$	$190_{-0.5}$	658	632	822	380	24	160	441	315	153	120	490	240	240
X110	260	47	$190_{-0.5}$	$215_{-0.5}$	703	652	867	380	24	185	461	315	153	125	510	250	260
X120	300	53	$225_{-0.5}$	$215_{-0.5}$	767	745	960	450	28	184	521	380	174	150	590	305	365
X130	300	53	$225_{-0.5}$	$250_{-0.5}$	838	781	1031	450	28	219	557	380	174	165	640	325	415
X140	360	67	$265_{-0.5}$	$250_{-0.5}$	903	879	1129	530	35	210	613	445	202	165	675	320	610
X150	360	67	$265_{-0.5}$	$295_{-0.5}$	990	921	1216	530	35	255	655	445	202	180	735	360	650
X160	425	81	$315_{-0.5}$	$355_{-0.5}$	1144	1036	1391	630	42	303	737	525	240	195	815	390	1000
X170	425	81	$315_{-0.5}$	$355_{-0.5}$	1195	1087	1442	630	42	303	788	525	240	195	860	390	1145
X180	475	81	$335_{-0.5}$	$370_{-0.5}$	1249	1135	1505	670	42	318	827	565	277	205	895	410	1415
X190	475	81	$335_{-0.5}$	$370_{-0.5}$	1281	1167	1537	670	42	318	859	565	277	205	930	410	1525
X200	515	91	$375_{-0.5}$	$420_{-0.5}$	1409	1286	1706	750	48	360	930	630	298	235	1020	470	2040
X210	515	91	$375_{-0.5}$	$420_{-0.5}$	1445	1322	1742	750	48	360	966	630	298	235	1055	470	2140

LSS 	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	213	343	85	22_{h9}	M20
X110	90_{m6}	170	216	346	95	25_{h9}	M24
X120	100_{m6}	210	251	401	106	28_{h9}	M24
X130	110_{m6}	210	254	404	116	28_{h9}	M24
X140	120_{m6}	210	252	432	127	32_{h9}	M24
X150	130_{m6}	250	295	475	137	32_{h9}	M24
X160	140_{m6}	250	294	506	148	36_{h9}	M30
X170	160_{m6}	300	344	556	169	40_{h9}	M30
X180	170_{m6}	300	355	592	179	40_{h9}	M30
X190	170_{m6}	300	355	592	179	40_{h9}	M30
X200	180_{m6}	300	354	612	190	45_{h9}	M30
X210	190_{m6}	350	404	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X.KA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	230
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	250
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	345
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	390
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	575
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	930
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1065
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1315
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1425
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1955
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	2025

X.KH.. 

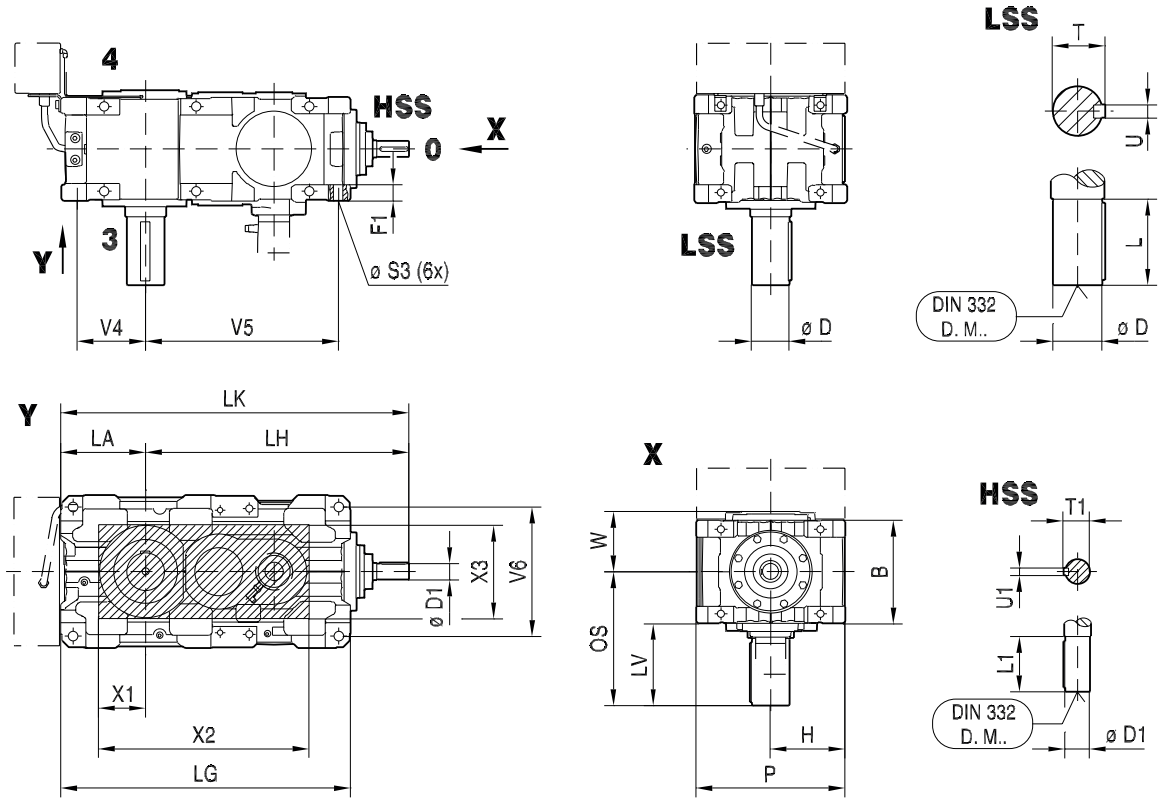
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	240
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	260
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	355
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	405
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	600
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	960
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1120
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1365
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1475
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	2025
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2110

30593506/EN – 07/2023

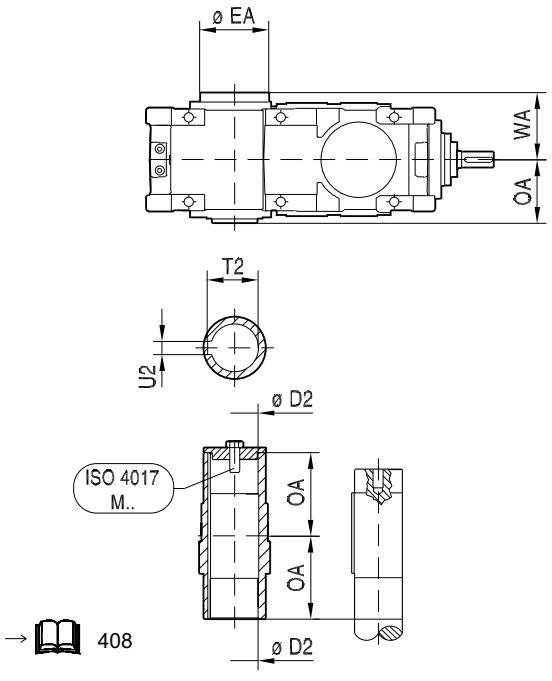
11.2.4 X3K220 - 320

X3KS..

48 064 01 07

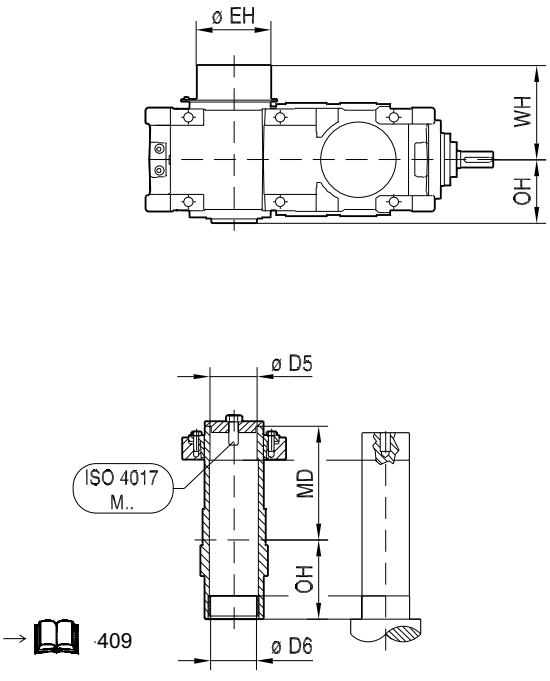


X3KA..



→ 408

X3KH..



→ 409

30593506/EN – 07/2023

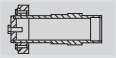
X.K..																	
X3K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X220	540	100	$425_{-0.5}$	$465_{-0.5}$	1584	1430	1895	850	48	403	1057	725	331	260	1150	520	2925
X230	540	100	$425_{-0.5}$	$465_{-0.5}$	1624	1470	1935	850	48	403	1097	725	331	260	1190	520	3095
X240	625	105	$450_{-0.5}$	$495_{-0.5}$	1721	1597	2092	900	56	425	1155	760	377	290	1270	580	3945
X250	625	105	$450_{-0.5}$	$495_{-0.5}$	1744	1620	2115	900	56	425	1178	760	377	290	1290	580	4075
X260	705	105	$500_{-0.5}$	$545_{-0.5}$	1900	1767	2312	1000	56	475	1285	860	417	290	1375	580	4870
X270	705	105	$500_{-0.5}$	$545_{-0.5}$	1935	1802	2347	1000	56	475	1320	860	419	310	1430	620	5370
X280	705	105	$555_{-0.5}$	$610_{-0.5}$	2052	1854	2464	1110	56	540	1372	970	419	310	1480	620	5870
X290	785	124	$580_{-0.5}$	$620_{-0.5}$	2187	2021	2641	1160	65	539	1486	995	465	330	1560	660	7020
X300	785	124	$580_{-0.5}$	$620_{-0.5}$	2216	2050	2670	1160	65	539	1515	995	465	330	1590	660	7720
X310	850	124	$630_{-0.5}$	$680_{-0.5}$	2410	2135	2815	1260	65	598	1647	1095	499	360	1720	720	8570
X320	850	124	$630_{-0.5}$	$680_{-0.5}$	2444	2169	2849	1260	65	598	1681	1095	499	360	1755	720	9470

LSS 	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	433	703	221	50_{h9}	M30
X230	230_{m6}	410	493	763	241	50_{h9}	M36
X240	230_{m6}	410	498	811	241	50_{h9}	M36
X250	240_{m6}	410	498	811	252	56_{h9}	M36
X260	250_{m6}	410	495	847	262	56_{h9}	M36
X270	270_{m6}	470	568	920	282	63_{h9}	M36
X280	290_{m6}	470	568	920	302	63_{h9}	M36
X290	290_{m6}	470	570	962	302	63_{h9}	M36
X300	300_{m6}	470	570	962	314	70_{h9}	M36
X310	320_{m6}	470	574	999	334	70_{h9}	M42
X320	340_{m6}	550	654	1079	355	80_{h9}	M42

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**	i
X220	85_{m6}	170	90	22_{h9}	M20	-
X230	85_{m6}	170	90	22_{h9}	M20	-
X240	100_{m6}	210	106	28_{h9}	M24	-
X250	100_{m6}	210	106	28_{h9}	M24	-
X260	110_{m6}	210	116	28_{h9}	M24	-
X270	110_{m6}	210	116	28_{h9}	M24	-
X280	110_{m6}	210	116	28_{h9}	M24	-
X290	120_{m6}	210	127	32_{h9}	M24	-
X300	120_{m6}	210	127	32_{h9}	M24	-
X310	130_{m6}	250	137	32_{h9}	M24	i = 12.5 ... 35.5*
	130_{m6}	210	137	32_{h9}	M24	i = 40 ... 71**
X320	130_{m6}	250	137	32_{h9}	M24	i = 14 ... 40*
	130_{m6}	210	137	32_{h9}	M24	i = 45 ... 80**

X.KA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2745
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2875
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3660
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3770
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4420
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5320
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6970
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7720
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8420

X.KH.. 

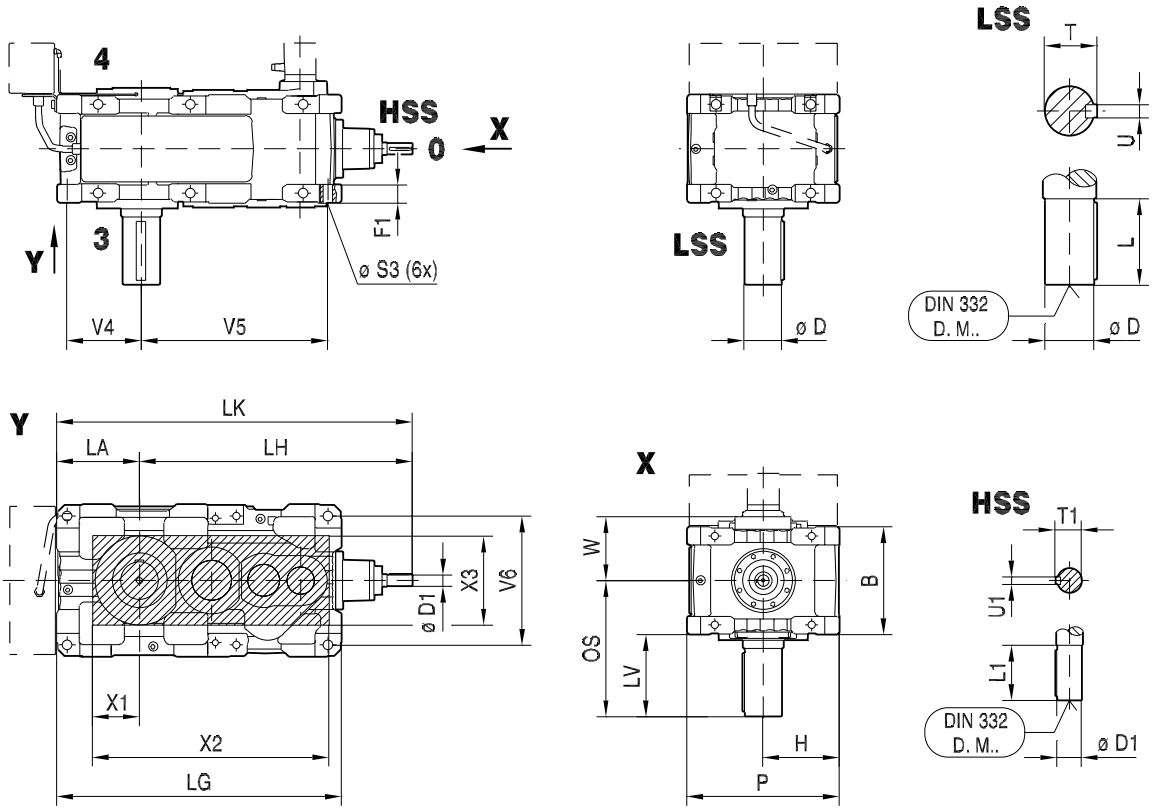
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2850
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2985
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3825
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3930
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4570
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5570
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6420
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7220
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8070
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8770

30593506/EN – 07/2023

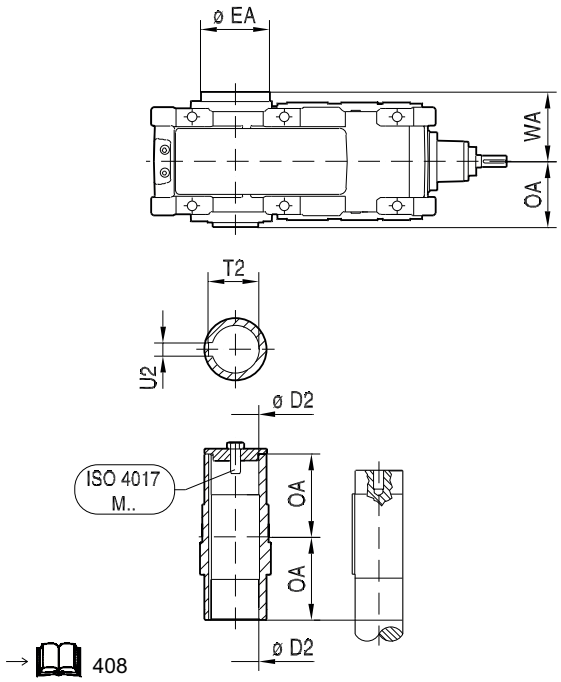
11.2.5 X4K120 - 210

X4KS..

48 062 01 07

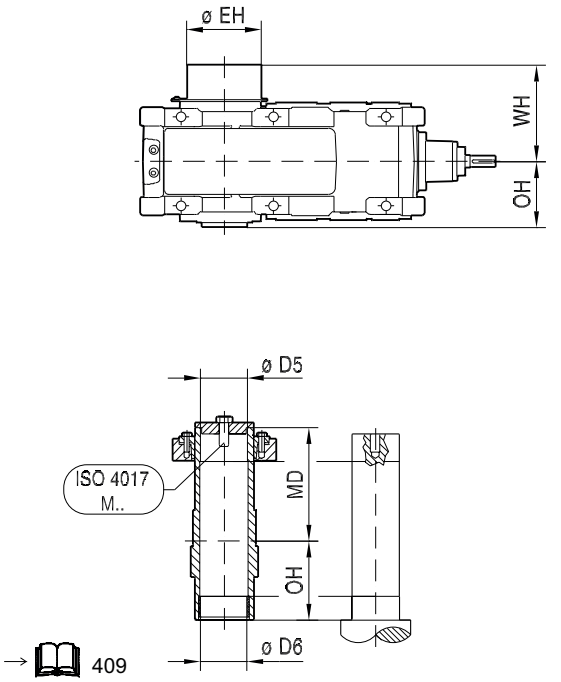


X4KA..



→ 408

X4KH..



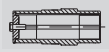
→ 409

30593506/EN – 07/2023

X.K..																	
X4K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X120	300	53	$225_{-0.5}$	$215_{-0.5}$	767	710	925	450	28	184	521	380	174	150	670	305	345
X130	300	53	$225_{-0.5}$	$250_{-0.5}$	838	746	996	450	28	219	557	380	174	165	715	325	385
X140	360	67	$265_{-0.5}$	$250_{-0.5}$	903	856	1106	530	35	210	613	445	202	165	765	320	565
X150	360	67	$265_{-0.5}$	$295_{-0.5}$	990	898	1193	530	35	255	655	445	202	180	820	360	635
X160	425	81	$315_{-0.5}$	$355_{-0.5}$	1144	1029	1384	630	42	303	737	525	240	195	920	390	975
X170	425	81	$315_{-0.5}$	$355_{-0.5}$	1195	1080	1435	630	42	303	788	525	240	195	970	390	1135
X180	475	81	$335_{-0.5}$	$370_{-0.5}$	1249	1198	1568	670	42	318	827	565	277	205	1030	410	1425
X190	475	81	$335_{-0.5}$	$370_{-0.5}$	1281	1230	1600	670	42	318	859	565	277	205	1065	410	1435
X200	515	91	$375_{-0.5}$	$420_{-0.5}$	1409	1285	1705	750	48	360	930	630	298	235	1160	470	1870
X210	515	91	$375_{-0.5}$	$420_{-0.5}$	1445	1321	1741	750	48	360	966	630	298	235	1195	470	1920

LSS 	**Ø D**	**L**	**LV**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X120	100_{m6}	210	251	401	106	28_{h9}	M24
X130	110_{m6}	210	254	404	116	28_{h9}	M24
X140	120_{m6}	210	252	432	127	32_{h9}	M24
X150	130_{m6}	250	295	475	137	32_{h9}	M24
X160	140_{m6}	250	294	506	148	36_{h9}	M30
X170	160_{m6}	300	344	556	169	40_{h9}	M30
X180	170_{m6}	300	355	592	179	40_{h9}	M30
X190	170_{m6}	300	355	592	179	40_{h9}	M30
X200	180_{m6}	300	354	612	190	45_{h9}	M30
X210	190_{m6}	350	404	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X120	28_{k6}	60	31	8_{h9}	M10
X130	28_{k6}	60	31	8_{h9}	M10
X140	32_{k6}	80	35	10_{h9}	M12
X150	32_{k6}	80	35	10_{h9}	M12
X160	38_{k6}	100	41	10_{h9}	M12
X170	38_{k6}	100	41	10_{h9}	M12
X180	50_{k6}	110	53.5	14_{h9}	M16
X190	50_{k6}	110	53.5	14_{h9}	M16
X200	50_{k6}	110	53.5	14_{h9}	M16
X210	50_{k6}	110	53.5	14_{h9}	M16

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	325
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	360
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	530
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	585
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	905
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1055
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1335
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1785
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1805

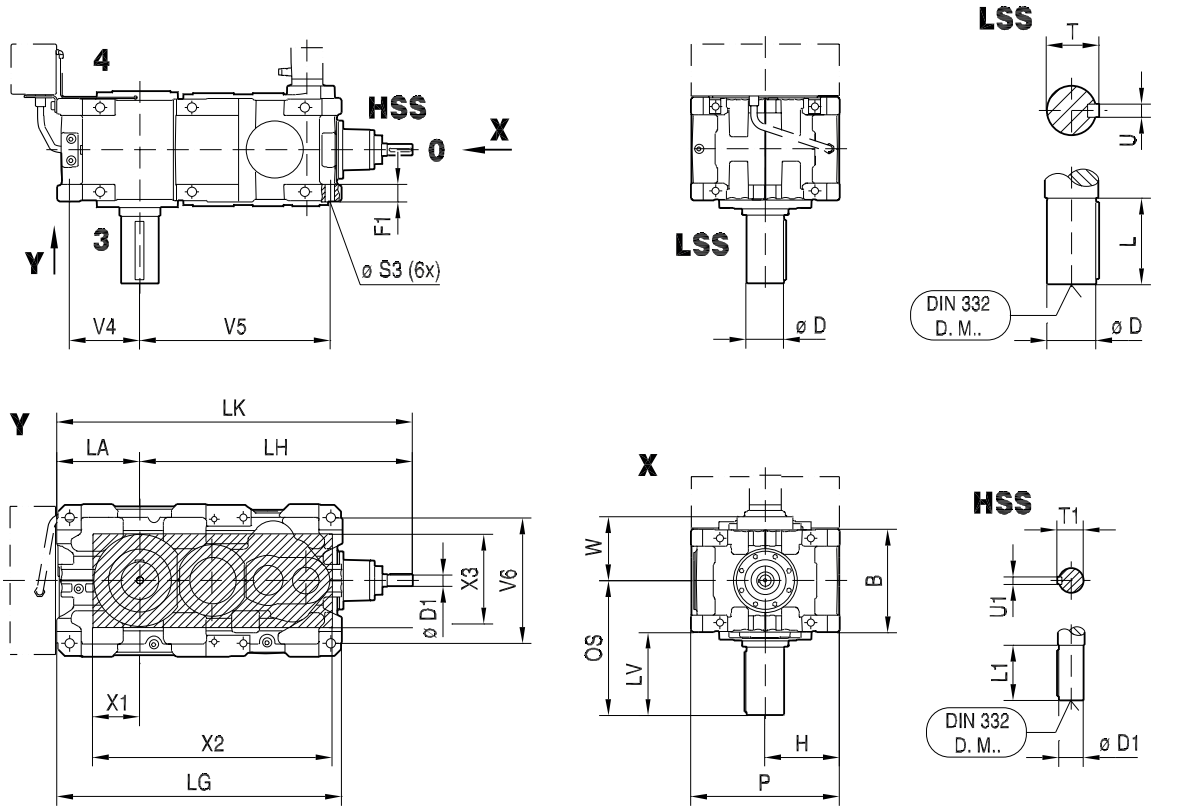
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	335
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	375
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	555
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	615
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	935
X170	150^{H7}	151^{H9}	368	364	256	427	M30x90-8.8	1110
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1385
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1855
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1890

30593506/EN – 07/2023

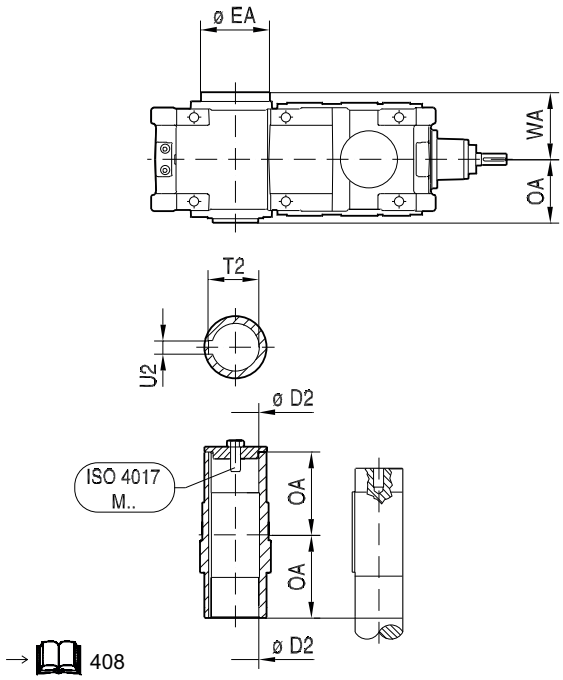
11.2.6 X4K220 - 320

X4KS..

48 065 01 07

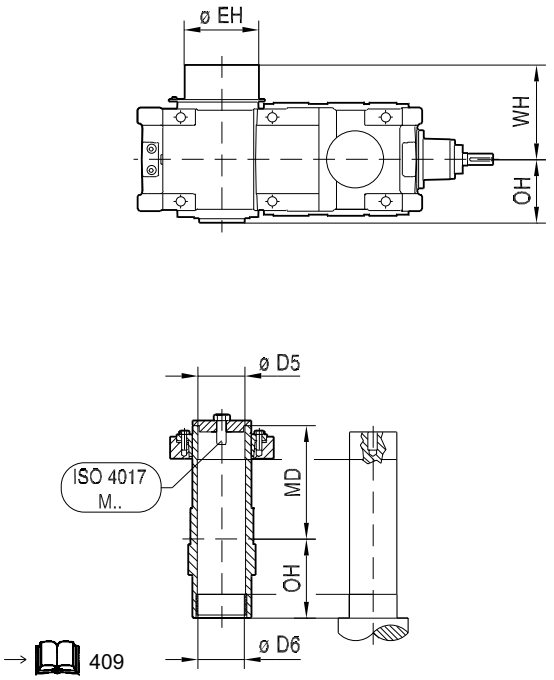


X4KA..



→ 408

X4KH..



→ 409

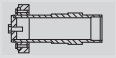
30593506/EN – 07/2023

X.K..																	
X4K..	**B**	**F1**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S3 (4x)**	**V4**	**V5**	**V6**	**W**	**X1**	**X2**	**X3**	**kg**
X220	540	100	$425_{-0.5}$	$465_{-0.5}$	1584	1456	1921	850	48	403	1057	725	331	260	1295	520	2735
X230	540	100	$425_{-0.5}$	$465_{-0.5}$	1624	1498	1963	850	48	403	1097	725	331	260	1335	520	2975
X240	625	105	$450_{-0.5}$	$495_{-0.5}$	1721	1595	2090	900	56	425	1155	760	377	290	1445	580	3815
X250	625	105	$450_{-0.5}$	$495_{-0.5}$	1744	1618	2113	900	56	425	1178	760	377	290	1465	580	4045
X260	705	105	$500_{-0.5}$	$545_{-0.5}$	1900	1785	2330	1000	56	475	1285	860	417	290	1575	580	4620
X270	705	105	$500_{-0.5}$	$545_{-0.5}$	1935	1820	2365	1000	56	475	1320	860	419	310	1630	620	5120
X280	705	105	$555_{-0.5}$	$610_{-0.5}$	2052	1872	2482	1110	56	540	1372	970	419	310	1685	620	5670
X290	785	124	$580_{-0.5}$	$620_{-0.5}$	2187	2015	2635	1160	65	539	1486	995	465	330	1805	660	7070
X300	785	124	$580_{-0.5}$	$620_{-0.5}$	2216	2044	2664	1160	65	539	1515	995	465	330	1835	660	7820
X310	850	124	$630_{-0.5}$	$680_{-0.5}$	2410	2256	2936	1260	65	598	1647	1095	499	360	2005	720	8670
X320	850	124	$630_{-0.5}$	$680_{-0.5}$	2444	2290	2970	1260	65	598	1681	1095	499	360	2040	720	9620

LSS 	Ø D	L	LV	OS	T	U	DIN 332 DR.M..
X220	210_{m6}	350	433	703	221	50_{h9}	M30
X230	230_{m6}	410	493	763	241	50_{h9}	M36
X240	230_{m6}	410	498	811	241	50_{h9}	M36
X250	240_{m6}	410	498	811	252	56_{h9}	M36
X260	250_{m6}	410	495	847	262	56_{h9}	M36
X270	270_{m6}	470	568	920	282	63_{h9}	M36
X280	290_{m6}	470	568	920	302	63_{h9}	M36
X290	290_{m6}	470	570	962	302	63_{h9}	M36
X300	300_{m6}	470	570	962	314	70_{h9}	M36
X310	320_{m6}	470	574	999	334	70_{h9}	M42
X320	340_{m6}	550	654	1079	355	80_{h9}	M42

HSS 	Ø D1	L1	T1	U1	DIN 332 DR.M..
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20
X260	80_{m6}	170	85	22_{h9}	M20
X270	80_{m6}	170	85	22_{h9}	M20
X280	80_{m6}	170	85	22_{h9}	M20
X290	85_{m6}	170	90	22_{h9}	M20
X300	85_{m6}	170	90	22_{h9}	M20
X310	100_{m6}	210	106	28_{h9}	M24
X320	100_{m6}	210	106	28_{h9}	M24

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2555
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2755
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3530
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3740
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4170
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4620
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	7070
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2660
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2865
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3695
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3900
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4320
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5370
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6620
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7320
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8820

30593506/EN – 07/2023

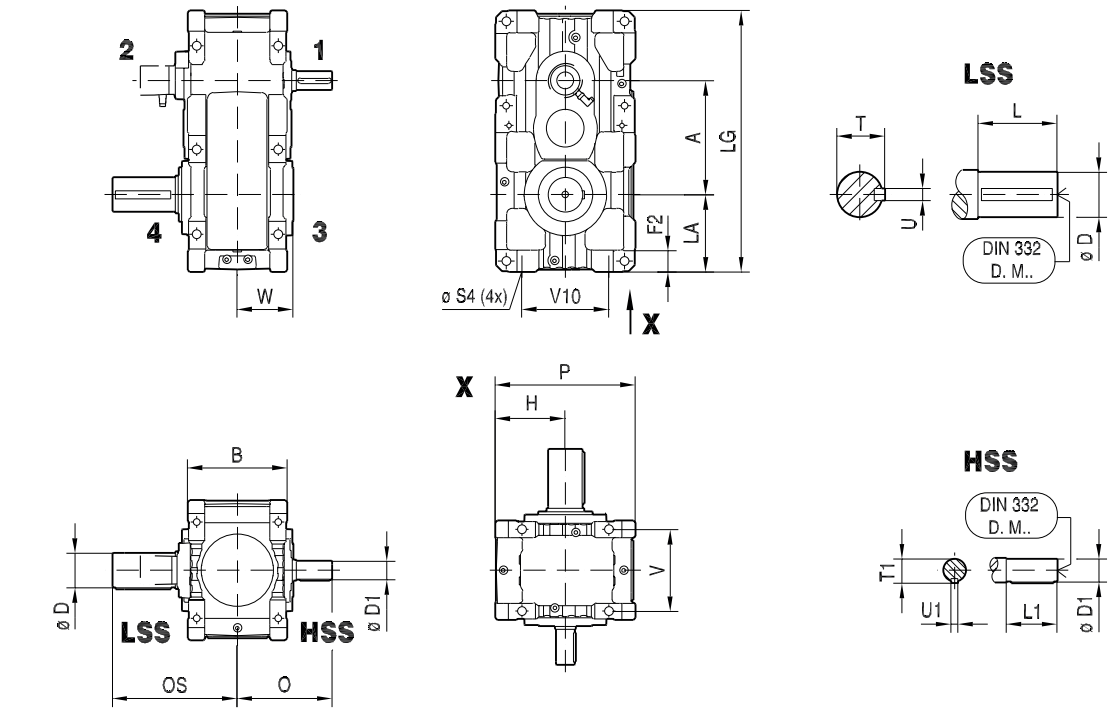
12 Dimension sheets: Upright gear units, mounting position M4

12.1 X.F.. helical gear units [mm]

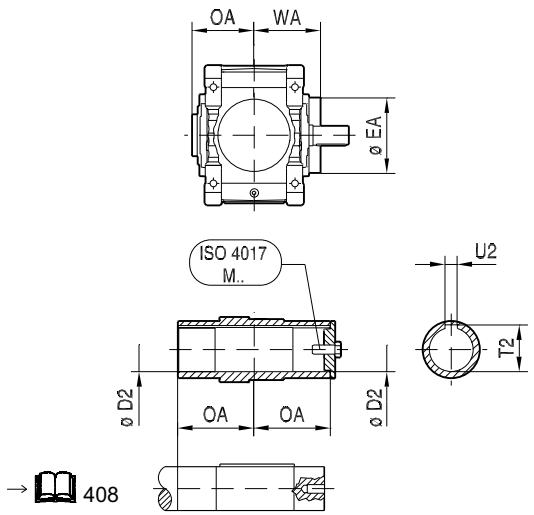
12.1.1 X2F100 - 210

X2FS..

48 033 02 09

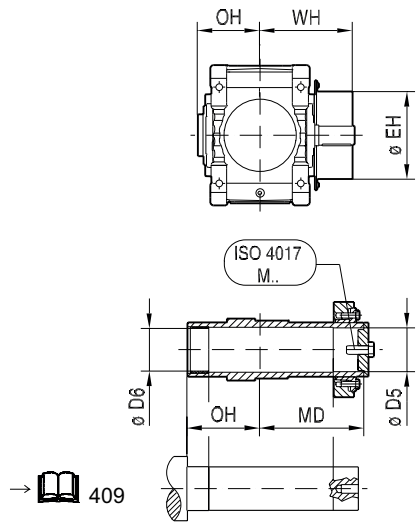


X2FA..



→ 📖 408

X2FH..



→ 📖 409

30593506/EN – 07/2023

X.F..												X.FS.. LSS						
X.F..	A	B	F2	H	LA	LG	P	Ø S4 (4x)	V10	V14	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X100	278	260	62	$190_{-0.5}$	$190_{-0.5}$	658	380	24	250	210	153	80_{m6}	170	343	85	22_{h9}	M20	210
X110	298	260	62	$190_{-0.5}$	$215_{-0.5}$	703	380	24	250	210	153	90_{m6}	170	346	95	25_{h9}	M24	225
X120	327	300	68	$225_{-0.5}$	$215_{-0.5}$	767	450	28	300	245	174	100_{m6}	210	401	106	28_{h9}	M24	325
X130	363	300	68	$225_{-0.5}$	$250_{-0.5}$	838	450	28	300	245	174	110_{m6}	210	404	116	28_{h9}	M24	375
X140	388	360	86	$265_{-0.5}$	$250_{-0.5}$	903	530	35	335	290	202	120_{m6}	210	432	127	32_{h9}	M24	520
X150	430	360	86	$265_{-0.5}$	$295_{-0.5}$	990	530	35	335	290	202	130_{m6}	250	475	137	32_{h9}	M24	600
X160	474	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	630	42	400	340	240	140_{m6}	250	506	148	36_{h9}	M30	905
X170	525	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	630	42	400	340	240	160_{m6}	300	556	169	40_{h9}	M30	1055
X180	544	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	670	42	415	390	277	170_{m6}	300	592	179	40_{h9}	M30	1350
X190	576	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	670	42	415	390	277	170_{m6}	300	592	179	40_{h9}	M30	1425
X200	614	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	750	48	455	420	298	180_{m6}	300	612	190	45_{h9}	M30	1910
X210	650	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	750	48	455	420	298	190_{m6}	350	662	200	45_{h9}	M30	1940

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X100**	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X110***	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X120*	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X130***	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X140*	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X150***	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X160*	80_{m6}	170	412	85	22_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20
X170***	80_{m6}	170	412	85	22_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20
X180*	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X190**	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X200*	100_{m6}	210	504	106	28_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24
X210**	100_{m6}	210	504	106	28_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	200
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	215
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	305
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	350
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	485
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	550
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	835
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	975
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1250
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1825
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1825

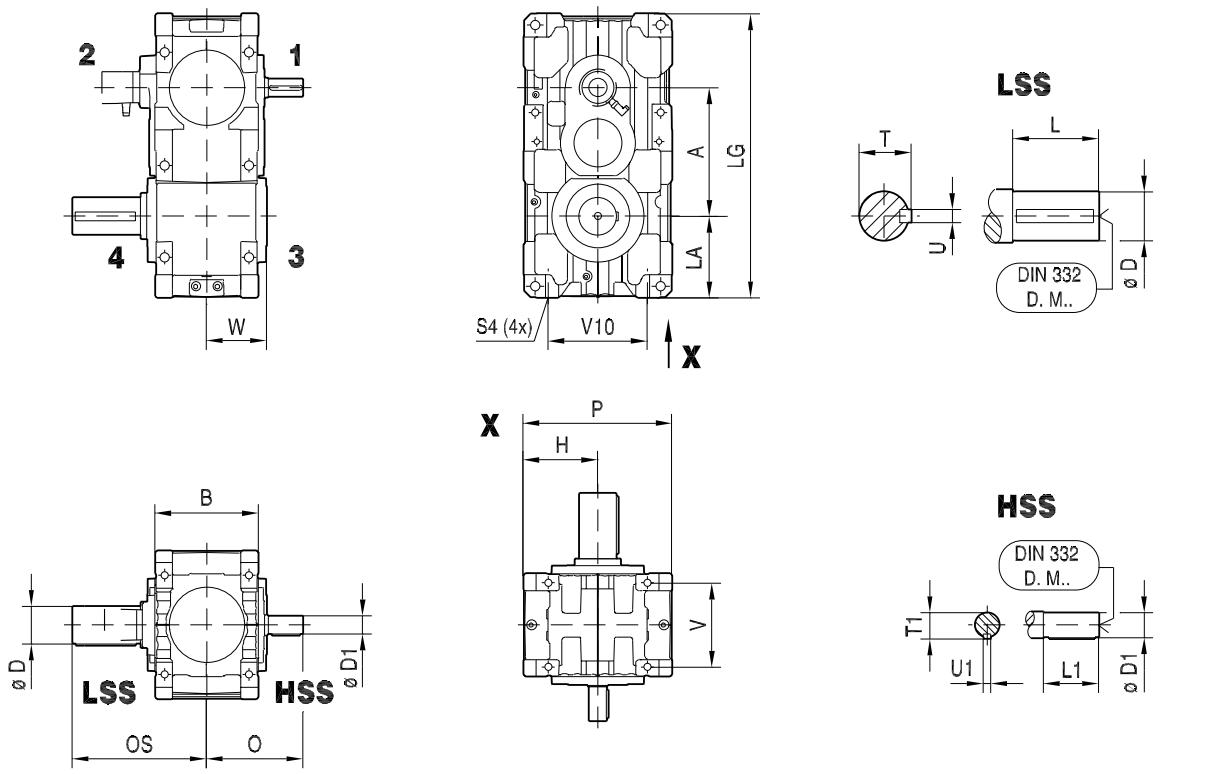
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	210
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	225
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	315
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	365
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	510
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	580
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	865
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1030
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1300
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1895
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1910

30593506/EN – 07/2023

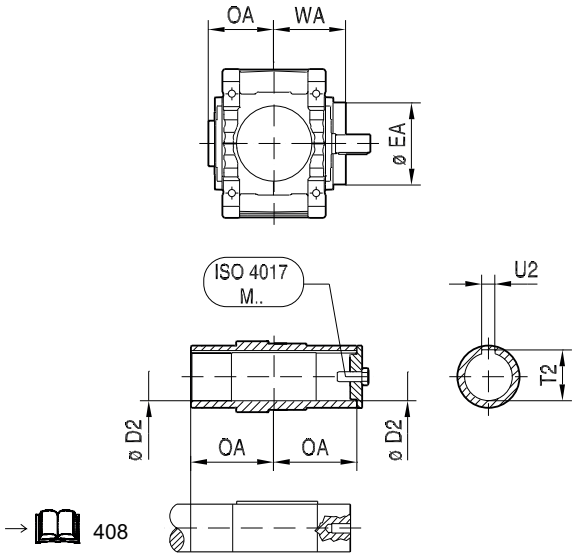
12.1.2 X2F220 - 320

X2FS..

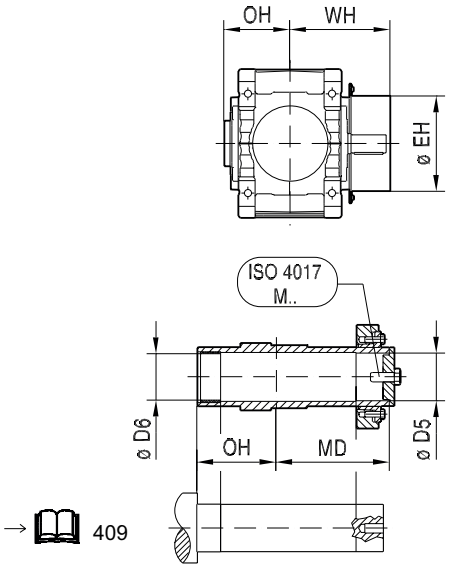
48 034 03 09



X2FA..



X2FH..



30593506/EN – 07/2023

X.F..											X.FS.. LSS						
X.F..	A	B	H	LA	LG	P	S4 (4x)	V10	V14	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	694	540	$425_{-0.5}$	$465_{-0.5}$	1584	850	M42x63	610	440	331	210_{m6}	350	703	221	50_{h9}	M30	2685
X230	734	540	$425_{-0.5}$	$465_{-0.5}$	1624	850	M42x63	610	440	331	230_{m6}	410	763	241	50_{h9}	M36	2865
X240	776	625	$450_{-0.5}$	$495_{-0.5}$	1721	900	M48x72	600	510	377	230_{m6}	410	811	241	50_{h9}	M36	3665
X250	799	625	$450_{-0.5}$	$495_{-0.5}$	1744	900	M48x72	600	510	377	240_{m6}	410	811	252	56_{h9}	M36	3815
X260	855	705	$500_{-0.5}$	$545_{-0.5}$	1900	1000	M48x72	710	590	417	250_{m6}	410	847	262	56_{h9}	M36	4470
X270	890	705	$500_{-0.5}$	$545_{-0.5}$	1935	1000	M48x72	710	590	419	270_{m6}	470	920	282	63_{h9}	M36	4600
X280	942	705	$555_{-0.5}$	$610_{-0.5}$	2052	1110	M48x72	710	590	419	290_{m6}	470	920	302	63_{h9}	M36	5370
X290	987	785	$580_{-0.5}$	$620_{-0.5}$	2187	1160	M48x72	765	655	465	290_{m6}	470	962	302	63_{h9}	M36	6570
X300	1016	785	$580_{-0.5}$	$620_{-0.5}$	2216	1160	M48x72	765	655	465	300_{m6}	470	962	314	70_{h9}	M36	7270
X310	1100	850	$630_{-0.5}$	$680_{-0.5}$	2410	1260	M48x72	860	720	499	320_{m6}	470	999	334	70_{h9}	M42	7520
X320	1134	850	$630_{-0.5}$	$680_{-0.5}$	2444	1260	M48x72	860	720	499	340_{m6}	550	1079	355	80_{h9}	M42	8320

HSS	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X220*	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X230**	110_{m6}	210	538	116	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X240*	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24
X250**	120_{m6}	210	583	127	32_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24
X260*	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X270**	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X280***	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X290*	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X300**	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X310*	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30
X320**	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30

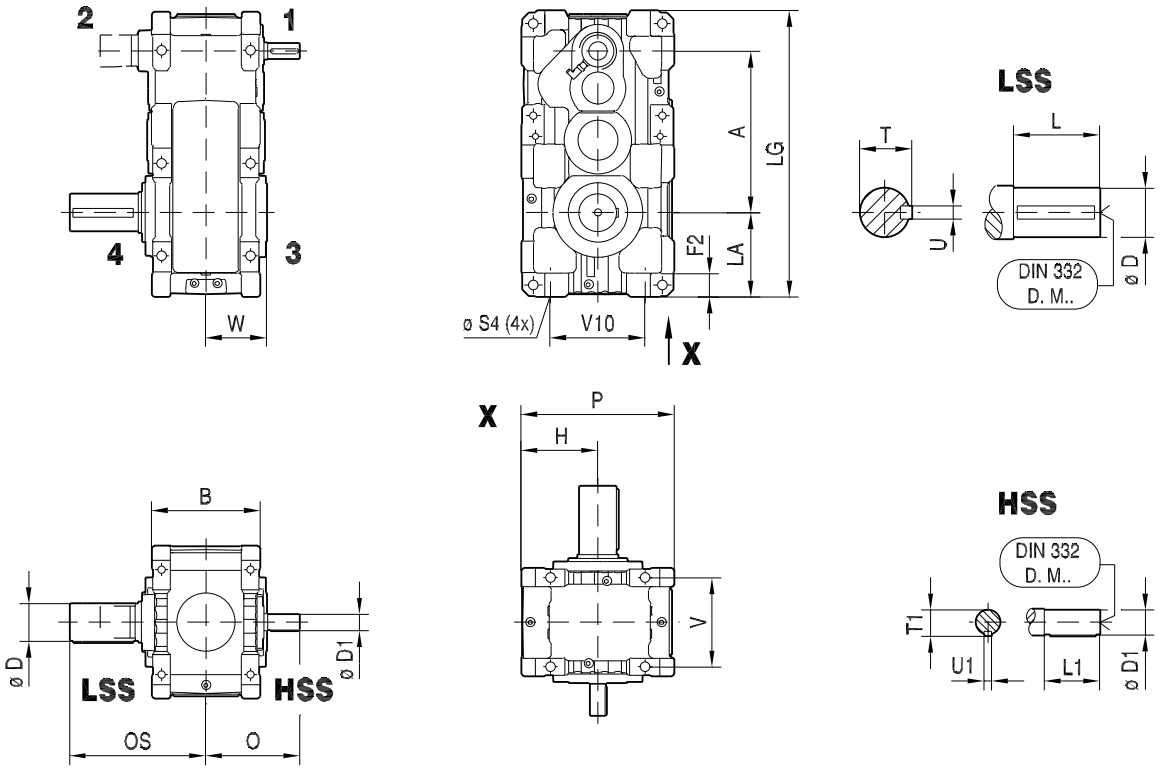
X.FA..									X.FH..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg	LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2505	**X220**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2610
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2645	**X230**	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2755
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3380	**X240**	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3545
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3510	**X250**	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3670
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4070	**X260**	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4220
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4470	**X270**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4720
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870	**X280**	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	5920	**X290**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6170
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6570	**X300**	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6820
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	6770	**X310**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7120
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7520	**X320**	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	7870

30593506/EN – 07/2023

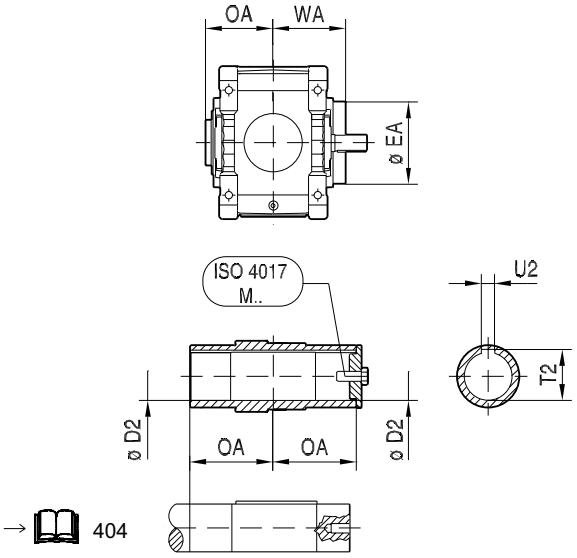
12.1.3 X3F100 - 210

48 035 02 09

X3FS..

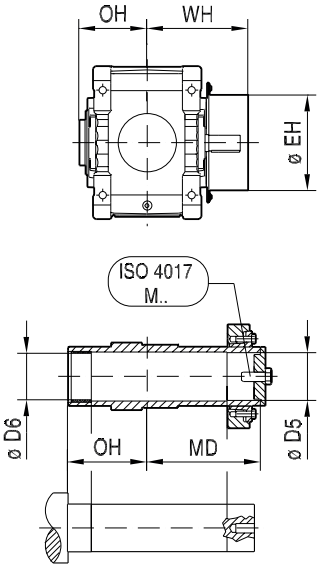


X3FA..



→ 404

X3FH..



→ 405

30593506/EN – 07/2023

X.F..												X.FS.. LSS						
X.F..	A	B	F2	H	LA	LG	P	Ø S4 (4x)	V10	V14	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X100	360	260	62	$190_{-0.5}$	$190_{-0.5}$	663	380	24	250	210	153	80_{m6}	170	343	85	22_{h9}	M20	225
X110	380	260	62	$190_{-0.5}$	$215_{-0.5}$	708	380	24	250	210	153	90_{m6}	170	346	95	25_{h9}	M24	230
X120	427	300	68	$225_{-0.5}$	$215_{-0.5}$	767	450	28	300	245	174	100_{m6}	210	401	106	28_{h9}	M24	345
X130	463	300	68	$225_{-0.5}$	$250_{-0.5}$	838	450	28	300	245	174	110_{m6}	210	404	116	28_{h9}	M24	410
X140	502	360	86	$265_{-0.5}$	$250_{-0.5}$	903	530	35	335	290	202	120_{m6}	210	432	127	32_{h9}	M24	580
X150	544	360	86	$265_{-0.5}$	$295_{-0.5}$	990	530	35	335	290	202	130_{m6}	250	475	137	32_{h9}	M24	635
X160	611	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	630	42	400	340	240	140_{m6}	250	506	148	36_{h9}	M30	985
X170	662	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	630	42	400	340	240	160_{m6}	300	556	169	40_{h9}	M30	1140
X180	707	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	670	42	415	390	277	170_{m6}	300	592	179	40_{h9}	M30	1465
X190	739	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	670	42	415	390	277	170_{m6}	300	592	179	40_{h9}	M30	1530
X200	794	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	750	48	455	420	298	180_{m6}	300	612	190	45_{h9}	M30	1870
X210	830	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	750	48	455	420	298	190_{m6}	350	662	200	45_{h9}	M30	1950

HSS	i = 20 ... 56* / i = 22.4 ... 63** / i = 25 ... 71***						i = 63 ... 90* / i = 71 ... 100** / i = 80 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X100**	32_{k6}	80	244	35	10_{h9}	M12	32k6	80	244	35	10_{h9}	M12
X110***	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X120*	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X130***	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X140*	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X150***	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X160*	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X170***	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X180*	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X190**	70_{m6}	140	411	74.5	20_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X200*	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20
X210**	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	215
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	220
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	325
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	410
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	545
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	585
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	915
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1060
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1365
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1430
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1785
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1835

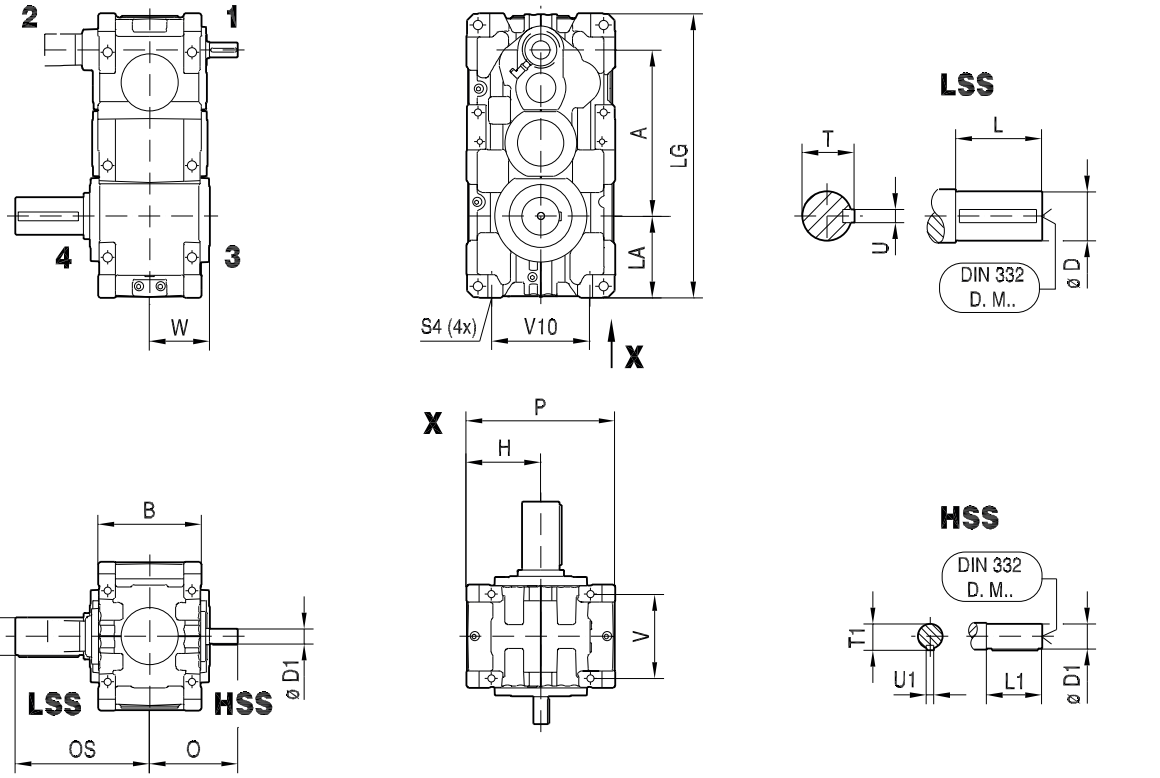
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	225
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	230
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	335
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	570
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	585
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	945
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1115
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1415
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1480
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1855
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1920

30593506/EN – 07/2023

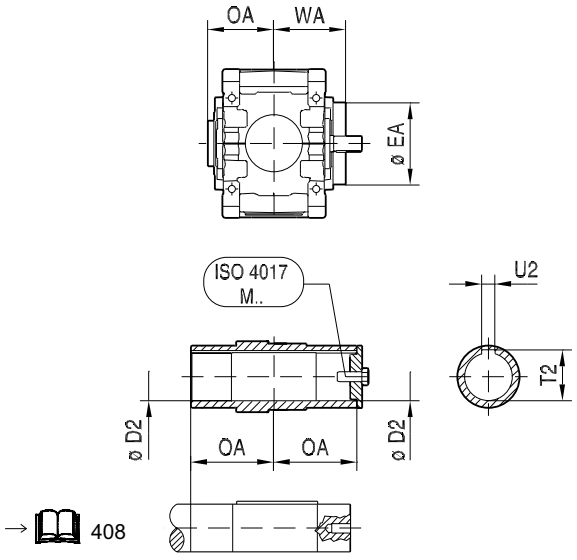
12.1.4 X3F220 - 320

X3FS..

48 036 03 09

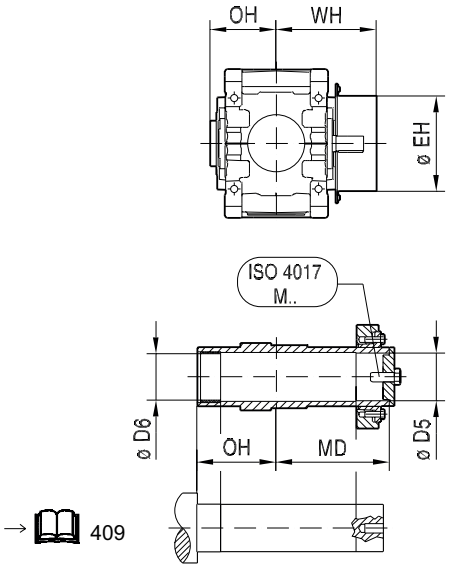


X3FA..



→ 408

X3FH..



→ 409

30593506/EN – 07/2023

X.F..											X.FS.. LSS						
X.F...	A	B	H	LA	LG	P	S4 (4x)	V10	V14	W	Ø D	L	OS	T	U	DIN 332 DR.M..	kg
X220	894	540	$425_{-0.5}$	$465_{-0.5}$	1584	850	M42x63	610	440	331	210_{m6}	350	703	221	50_{h9}	M30	2665
X230	934	540	$425_{-0.5}$	$465_{-0.5}$	1624	850	M42x63	610	440	331	230_{m6}	410	763	241	50_{h9}	M36	2885
X240	1004	625	$450_{-0.5}$	$495_{-0.5}$	1721	900	M48x72	600	510	377	230_{m6}	410	811	241	50_{h9}	M36	3725
X250	1027	625	$450_{-0.5}$	$495_{-0.5}$	1744	900	M48x72	600	510	377	240_{m6}	410	811	252	56_{h9}	M36	3835
X260	1113	705	$500_{-0.5}$	$545_{-0.5}$	1900	1000	M48x72	710	590	417	250_{m6}	410	847	262	56_{h9}	M36	4520
X270	1148	705	$500_{-0.5}$	$545_{-0.5}$	1935	1000	M48x72	710	590	419	270_{m6}	470	920	282	63_{h9}	M36	5020
X280	1200	705	$555_{-0.5}$	$610_{-0.5}$	2052	1110	M48x72	710	590	419	290_{m6}	470	920	302	63_{h9}	M36	5505
X290	1279	785	$580_{-0.5}$	$620_{-0.5}$	2187	1160	M48x72	765	655	465	290_{m6}	470	962	302	63_{h9}	M36	6920
X300	1308	785	$580_{-0.5}$	$620_{-0.5}$	2216	1160	M48x72	765	655	465	300_{m6}	470	962	314	70_{h9}	M36	7620
X310	1435	850	$630_{-0.5}$	$680_{-0.5}$	2410	1260	M48x72	860	720	499	320_{m6}	470	999	334	70_{h9}	M42	8470
X320	1469	850	$630_{-0.5}$	$680_{-0.5}$	2444	1260	M48x72	860	720	499	340_{m6}	550	1079	355	80_{h9}	M42	9370

HSS	i = 20 ... 50* / i = 22.4 ... 56** / i = 25 ... 63***						i = 56 ... 90* / i = 63 ... 100** / i = 71 ... 112***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X220*	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X230**	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X240*	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20
X250**	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20
X260*	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X270**	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X280***	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X290*	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X300**	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X310*	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24
X320**	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2485
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2665
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3440
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3530
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4070
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4470
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4970
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6270
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6870
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7670
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

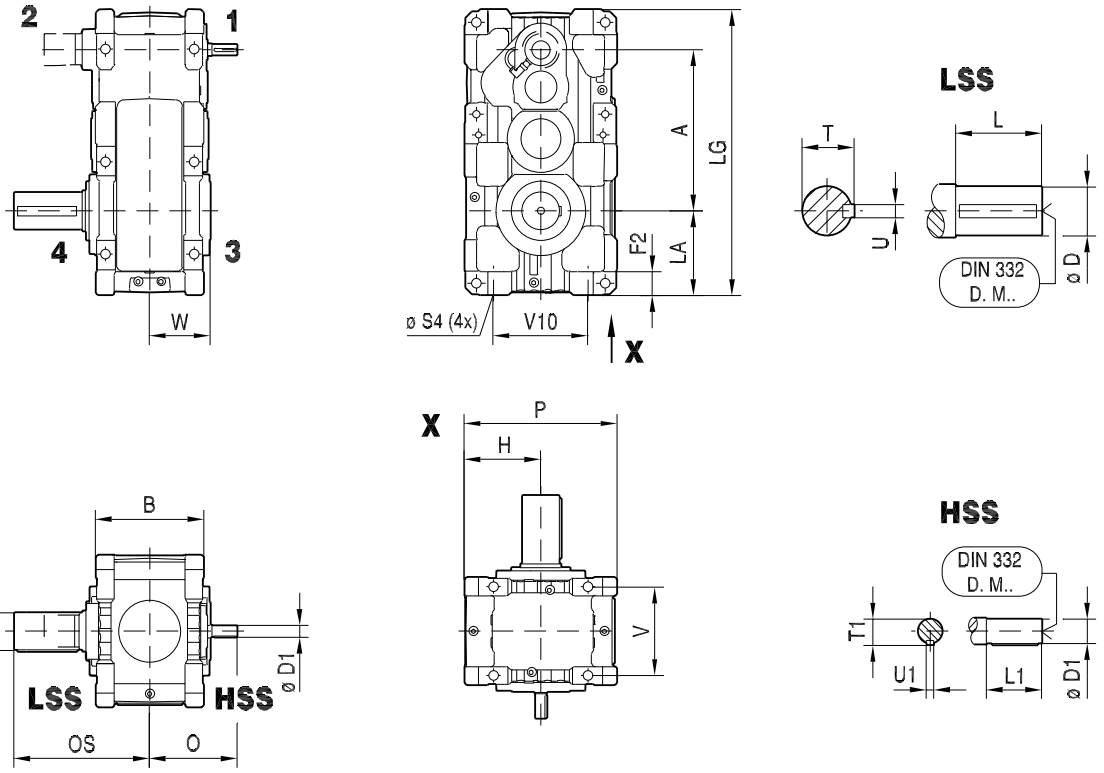
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2590
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2775
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3605
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3690
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4220
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4770
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5320
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6520
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7120
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8020
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8320

30593506/EN – 07/2023

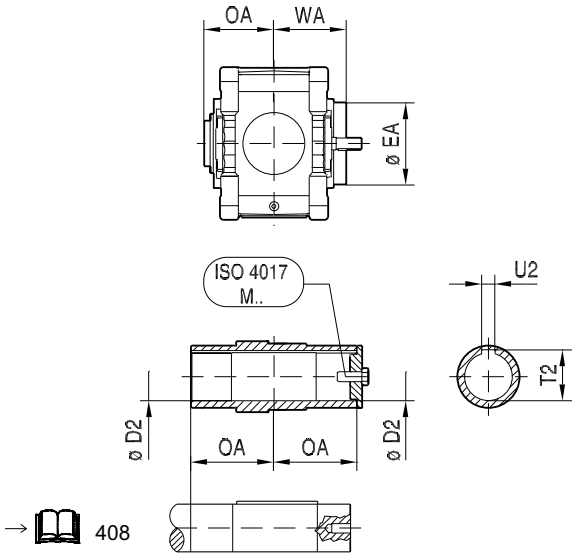
12.1.5 X4F120 - 210

48 037 02 09

X4FS..

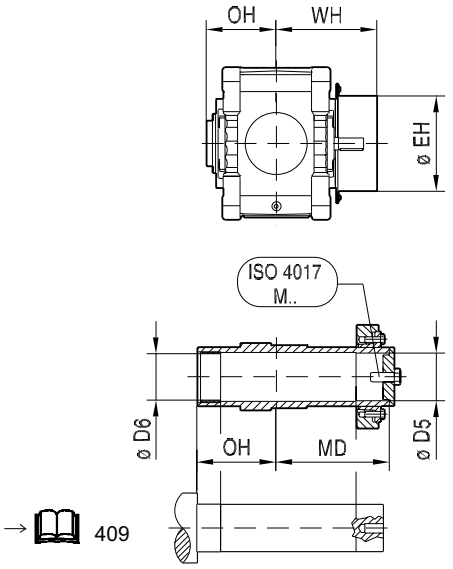


X4FA..



→ 408

X4FH..



→ 409

30593506/EN – 07/2023

X.F..											
X.F..	A	B	F2	H	LA	LG	P	Ø S4 (4x)	V10	V14	W
X120	427	300	68	$225_{-0.5}$	$215_{-0.5}$	772	450	28	300	245	174
X130	463	300	68	$225_{-0.5}$	$250_{-0.5}$	843	450	28	300	245	174
X140	502	360	86	$265_{-0.5}$	$250_{-0.5}$	908	530	35	335	290	202
X150	544	360	86	$265_{-0.5}$	$295_{-0.5}$	995	530	35	335	290	202
X160	611	425	105	$315_{-0.5}$	$355_{-0.5}$	1149	630	42	400	340	240
X170	662	425	105	$315_{-0.5}$	$355_{-0.5}$	1200	630	42	400	340	240
X180	707	475	107	$335_{-0.5}$	$370_{-0.5}$	1254	670	42	415	390	277
X190	739	475	107	$335_{-0.5}$	$370_{-0.5}$	1287	670	42	415	390	277
X200	794	515	128	$375_{-0.5}$	$420_{-0.5}$	1415	750	48	455	420	298
X210	830	515	128	$375_{-0.5}$	$420_{-0.5}$	1451	750	48	455	420	298

X.FS.. LSS						
Ø D	L	OS	T	U	DIN 332 DR.M..	kg
100_{m6}	210	401	106	28_{h9}	M24	360
110_{m6}	210	404	116	28_{h9}	M24	400
120_{m6}	210	432	127	32_{h9}	M24	570
130_{m6}	250	475	137	32_{h9}	M24	650
140_{m6}	250	506	148	36_{h9}	M30	975
160_{m6}	300	556	169	40_{h9}	M30	1175
170_{m6}	300	592	179	40_{h9}	M30	1425
170_{m6}	300	592	179	40_{h9}	M30	1465
180_{m6}	300	612	190	45_{h9}	M30	1920
190_{m6}	350	662	200	45_{h9}	M30	2110

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X120*	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X130***	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X140*	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X150***	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X160*	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12
X170***	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12
X180*	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X190**	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X200*	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16
X210**	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	340
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	375
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	905
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1095
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1365
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1835
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1995

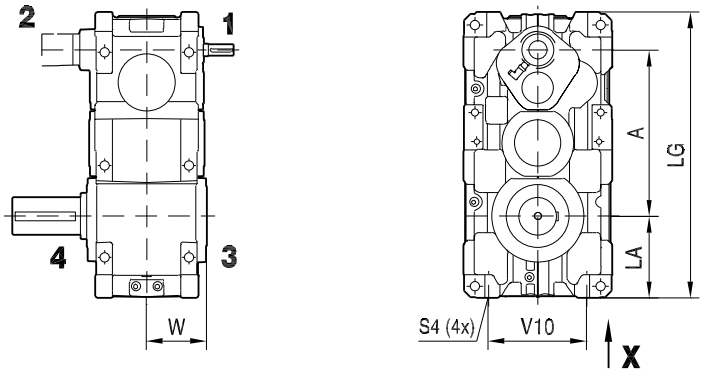
X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	350
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	390
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	935
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1150
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1415
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1905
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2080

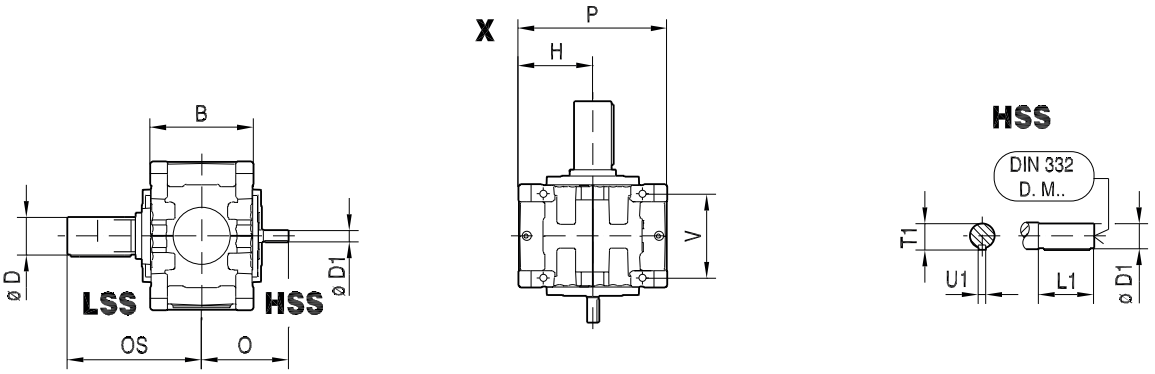
30593506/EN – 07/2023

12.1.6 X4F220 - 320

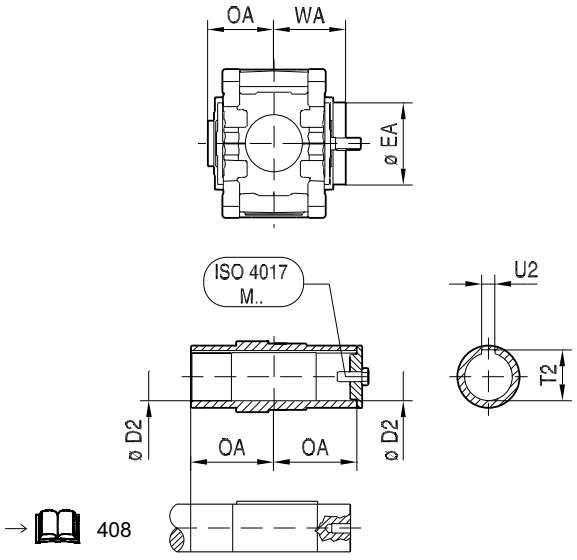
48 038 03 09

X4FS..



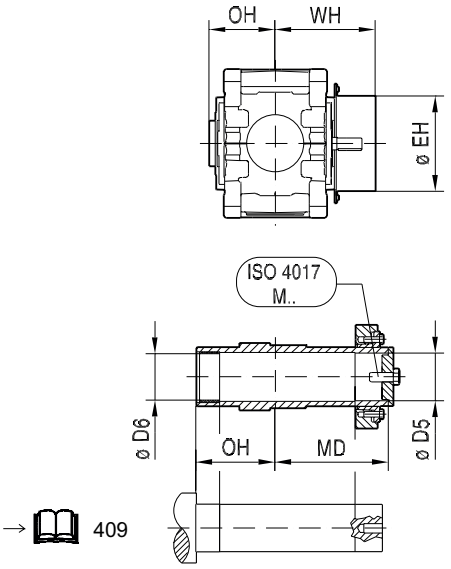


X4FA..



→ 408

X4FH..



→ 409

30593506/EN – 07/2023

X.F..										
X.F..	A	B	H	LA	LG	P	S4 (4x)	V10	V14	W
X220	894	540	$425_{-0.5}$	$465_{-0.5}$	1591	850	M42x63	610	440	331
X230	934	540	$425_{-0.5}$	$465_{-0.5}$	1631	850	M42x63	610	440	331
X240	1004	625	$450_{-0.5}$	$495_{-0.5}$	1729	900	M48x72	600	510	377
X250	1027	625	$450_{-0.5}$	$495_{-0.5}$	1752	900	M48x72	600	510	377
X260	1113	705	$500_{-0.5}$	$545_{-0.5}$	1909	1000	M48x72	710	590	417
X270	1148	705	$500_{-0.5}$	$545_{-0.5}$	1941	1000	M48x72	710	590	419
X280	1200	705	$555_{-0.5}$	$610_{-0.5}$	2058	1110	M48x72	710	590	419
X290	1279	785	$580_{-0.5}$	$620_{-0.5}$	2196	1160	M48x72	765	655	465
X300	1308	785	$580_{-0.5}$	$620_{-0.5}$	2225	1160	M48x72	765	655	465
X310	1435	850	$630_{-0.5}$	$680_{-0.5}$	2419	1260	M48x72	860	720	499
X320	1469	850	$630_{-0.5}$	$680_{-0.5}$	2453	1260	M48x72	860	720	499

X.FS.. LSS							
Ø D	L	OS	T	U	DIN 332 DR.M..	kg
210_{m6}	350	703	221	50_{h9}	M30	2715
230_{m6}	410	763	241	50_{h9}	M36	3075
230_{m6}	410	811	241	50_{h9}	M36	3785
240_{m6}	410	811	252	56_{h9}	M36	3910
250_{m6}	410	847	262	56_{h9}	M36	4620
270_{m6}	470	920	282	63_{h9}	M36	5120
290_{m6}	470	920	302	63_{h9}	M36	5670
290_{m6}	470	962	302	63_{h9}	M36	7070
300_{m6}	470	962	314	70_{h9}	M36	7820
320_{m6}	470	999	334	70_{h9}	M42	8670
340_{m6}	550	1079	355	80_{h9}	M42	9620

HSS	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D1	L1	O	T1	U1	DIN 332 DR.M..	Ø D1	L1	O	T1	U1	DIN 332 DR.M..
X220*	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X230**	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X240*	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20
X250**	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20
X260*	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X270**	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X280***	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X290*	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X300**	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X310*	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24
X320**	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24

X.FA..								
LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2535
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2855
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3500
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3605
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4170
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4620
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	7070
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

X.FH..								
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2640
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2965
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3665
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3765
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4320
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5370
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6620
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7320
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8820

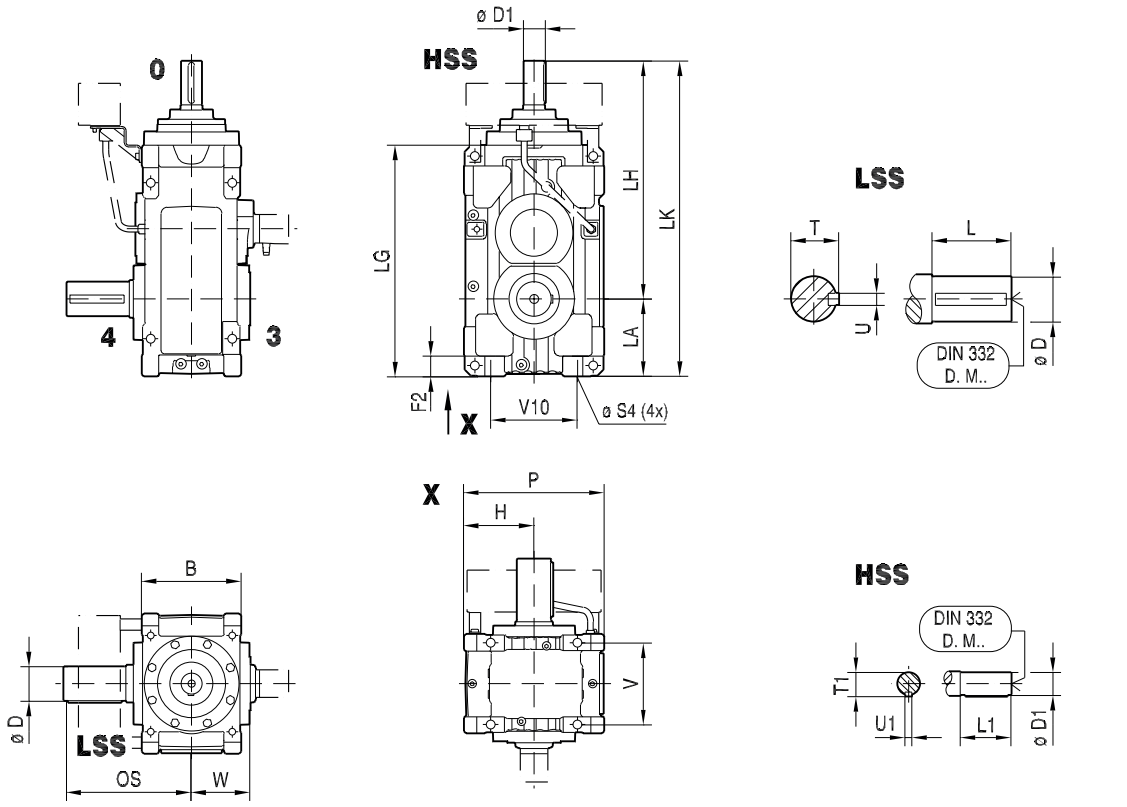
30593506/EN – 07/2023

12.2 X.K.. bevel-helical gear units [mm]

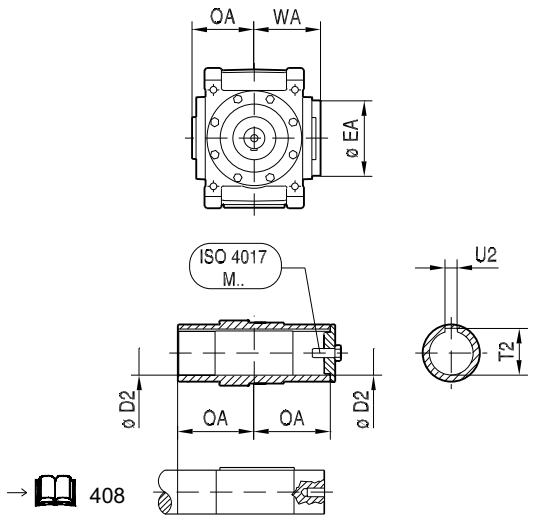
12.2.1 X2K100 - 210

48 039 02 09

X2KS..

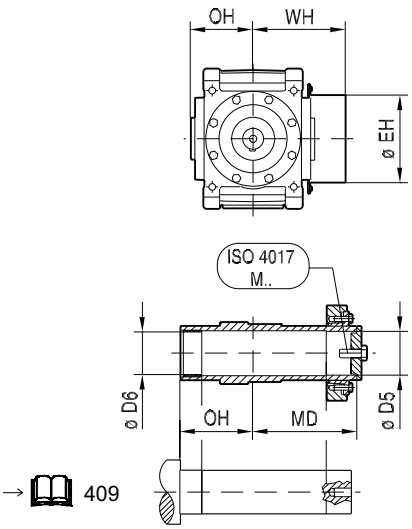


X2KA..



→ 📖 408

X2KH..



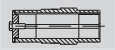
→ 📖 409

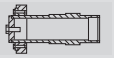
30593506/EN – 07/2023

X.K..													
X2K..	**B**	**F2**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X100	260	62	$190_{-0.5}$	$190_{-0.5}$	601	655	845	380	24	250	210	153	240
X110	260	62	$190_{-0.5}$	$215_{-0.5}$	646	675	890	380	24	250	210	153	255
X120	300	68	$225_{-0.5}$	$215_{-0.5}$	697	752	967	450	28	300	245	174	355
X130	300	68	$225_{-0.5}$	$250_{-0.5}$	768	788	1038	450	28	300	245	174	410
X140	360	86	$265_{-0.5}$	$250_{-0.5}$	784	816	1066	530	35	335	290	202	570
X150	360	86	$265_{-0.5}$	$295_{-0.5}$	871	858	1153	530	35	335	290	202	660
X160	425	105	$315_{-0.5}$	$355_{-0.5}$	1023	1010	1365	630	42	400	340	240	1010
X170	425	105	$315_{-0.5}$	$355_{-0.5}$	1074	1061	1416	630	42	400	340	240	1130
X180	475	107	$335_{-0.5}$	$370_{-0.5}$	1105	1137	1507	670	42	415	390	277	1380
X190	475	107	$335_{-0.5}$	$370_{-0.5}$	1137	1169	1539	670	42	415	390	277	1495
X200	515	128	$375_{-0.5}$	$420_{-0.5}$	1241	1268	1688	750	48	455	420	298	1930
X210	515	128	$375_{-0.5}$	$420_{-0.5}$	1277	1304	1724	750	48	455	420	298	2040

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	50_{k6}	110	53.5	14_{h9}	M16
X110	50_{k6}	110	53.5	14_{h9}	M16
X120	60_{m6}	140	64	18_{h9}	M20
X130	60_{m6}	140	64	18_{h9}	M20
X140	70_{m6}	140	74.5	20_{h9}	M20
X150	70m6	140	74.5	20_{h9}	M20
X160	85_{m6}	170	90	22_{h9}	M20
X170	85_{m6}	170	90	22_{h9}	M20
X180	100_{m6}	210	106	28_{h9}	M24
X190	100_{m6}	210	106	28_{h9}	M24
X200	110_{m6}	210	116	28_{h9}	M24
X210	110_{m6}	210	116	28_{h9}	M24

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	230
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	245
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	335
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	385
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	535
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	610
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	940
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1050
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1280
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1395
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1845
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1925

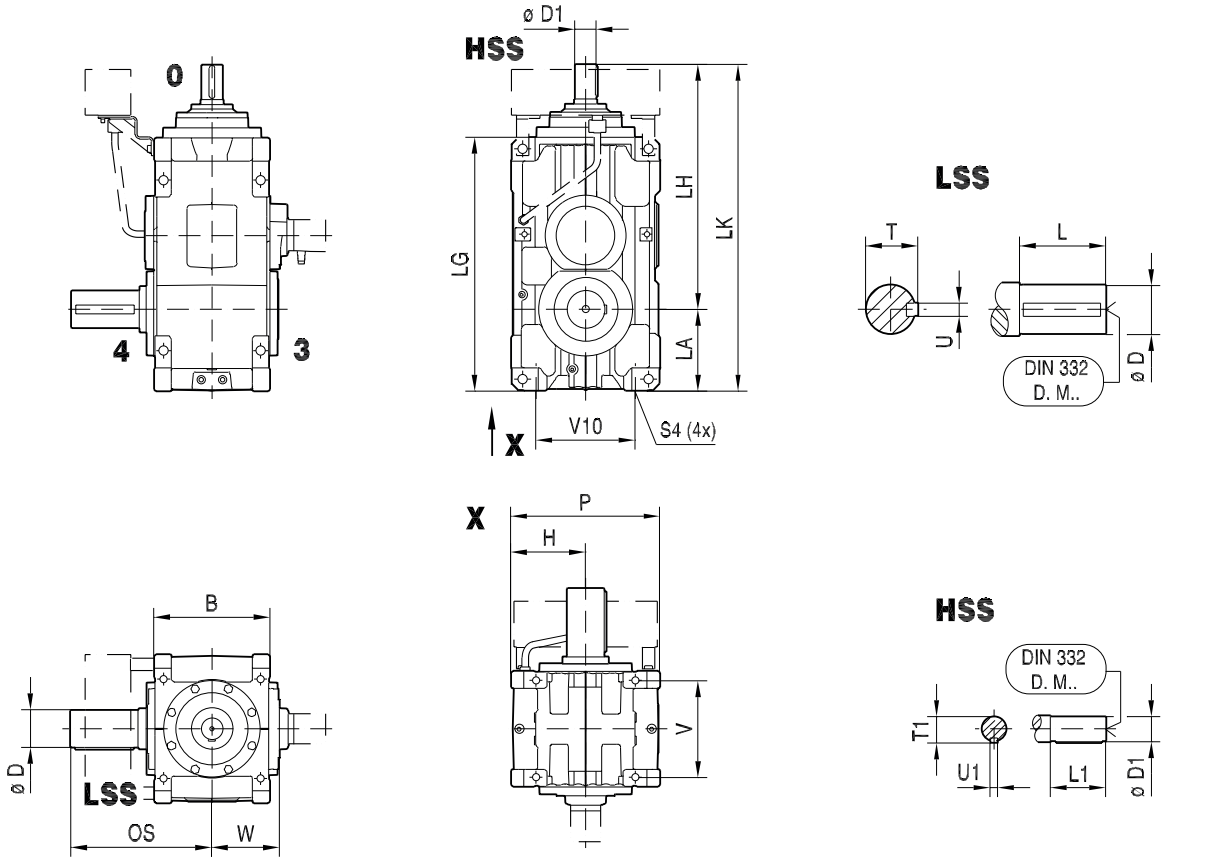
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	240
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	255
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	345
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	400
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	560
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	640
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	970
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1105
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1330
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1445
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1915
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2010

30593506/EN – 07/2023

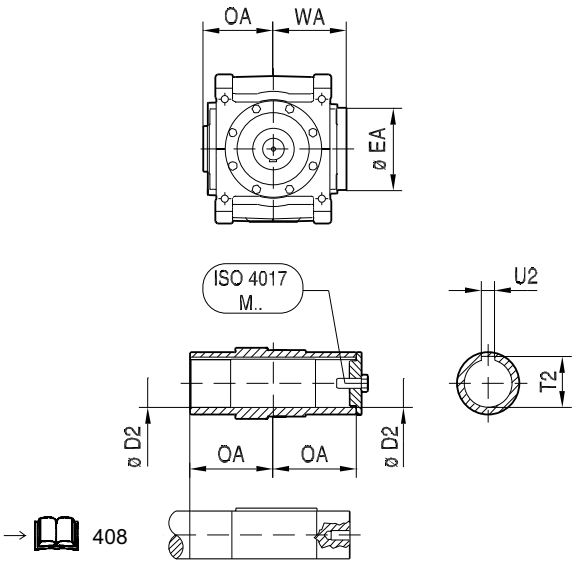
12.2.2 X2K220 - 250

48 040 03 09

X2KS..

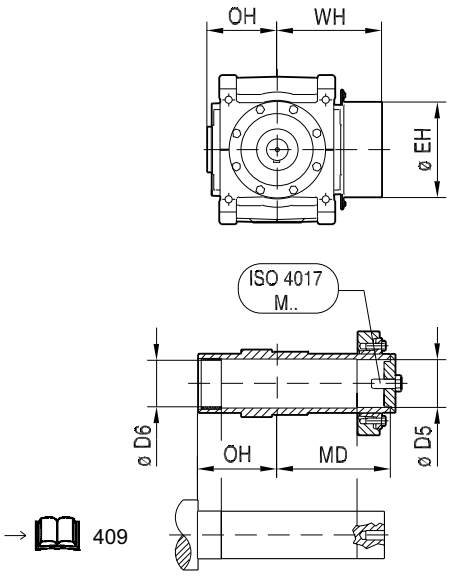


X2KA..



→ 408

X2KH..



→ 409

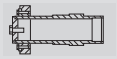
30593506/EN – 07/2023

X.K..												
X2K..	**B**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X220	610	$425_{-0.5}$	$465_{-0.5}$	1412	1436	1901	850	M42x63	610	510	370	2895
X230	610	$425_{-0.5}$	$465_{-0.5}$	1452	1476	1941	850	M42x63	610	510	370	3075
X240	700	$450_{-0.5}$	$495_{-0.5}$	1531	1476	1971	900	M48x72	600	585	421	3975
X250	700	$450_{-0.5}$	$495_{-0.5}$	1554	1499	1994	900	M48x72	600	585	421	3980

LSS 	Ø D	L	OS	T	U	DIN 332 DR.M..
X220	210_{m6}	350	738	221	50_{h9}	M30
X230	230_{m6}	410	798	241	50_{h9}	M36
X240	230_{m6}	410	848	241	50_{h9}	M36
X250	240_{m6}	410	848	252	56_{h9}	M36

HSS 	Ø D1	L1	T1	U1	DIN 332 DR.M..
X220	120_{m6}	210	127	32_{h9}	M24
X230	120_{m6}	210	127	32_{h9}	M24
X240	130_{m6}	210	137	32_{h9}	M24
X250	130_{m6}	210	137	32_{h9}	M24

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2700
X230	210^{H8}	360	387.5	221.4	50^{JS9}	452	M30x90-8.8	2845
X240	230^{H8}	420	438	241.4	50^{JS9}	507	M36x110-8.8	3670
X250	240^{H8}	420	438	252.4	56^{JS9}	507	M36x110-8.8	3655

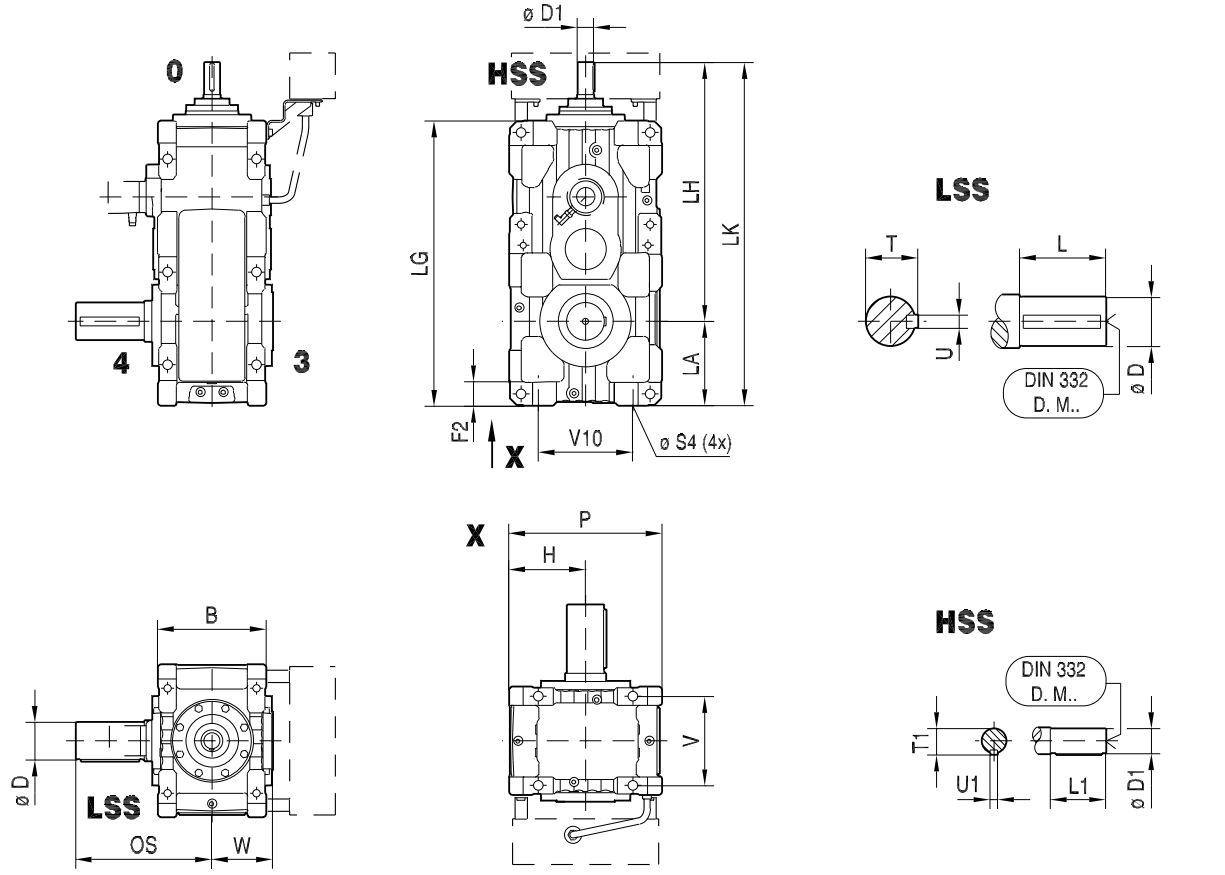
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	533	387.5	597	M30x90-8.8	2810
X230	210^{H7}	211^{H9}	484	533	387.5	597	M30x90-8.8	2950
X240	230^{H7}	231^{H9}	558	609	438	692	M36x110-8.8	3835
X250	240^{H7}	241^{H9}	558	609	438	692	M36x110-8.8	3815

30593506/EN – 07/2023

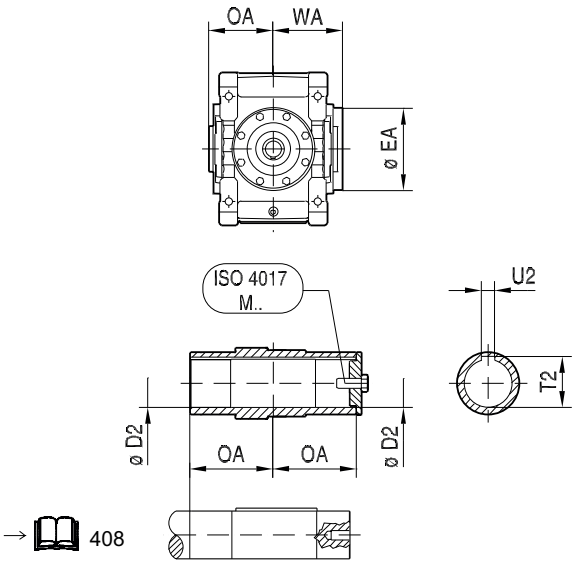
12.2.3 X3K100 - 210

48 041 02 09

X3KS..

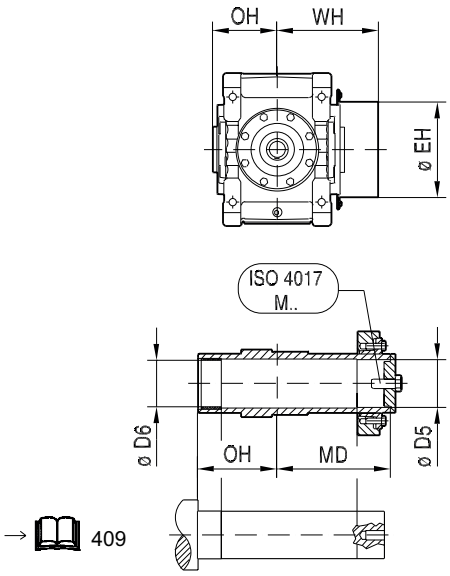


X3KA..



→ 408

X3KH..



→ 409

30593506/EN – 07/2023

X.K..													
X3K..	**B**	**F2**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X100	260	62	$190_{-0.5}$	$190_{-0.5}$	658	632	822	380	24	250	210	153	240
X110	260	62	$190_{-0.5}$	$215_{-0.5}$	703	652	867	380	24	250	210	153	260
X120	300	68	$225_{-0.5}$	$215_{-0.5}$	767	745	960	450	28	300	245	174	365
X130	300	68	$225_{-0.5}$	$250_{-0.5}$	838	781	1031	450	28	300	245	174	415
X140	360	86	$265_{-0.5}$	$250_{-0.5}$	903	879	1129	530	35	335	290	202	610
X150	360	86	$265_{-0.5}$	$295_{-0.5}$	990	921	1216	530	35	335	290	202	650
X160	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	1036	1391	630	42	400	340	240	1000
X170	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	1087	1442	630	42	400	340	240	1145
X180	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	1135	1505	670	42	415	390	277	1415
X190	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	1167	1537	670	42	415	390	277	1525
X200	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	1286	1706	750	48	455	420	298	2040
X210	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	1322	1742	750	48	455	420	298	2140

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	230
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	250
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	345
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	390
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	575
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	930
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1065
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1315
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1425
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1955
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	2025

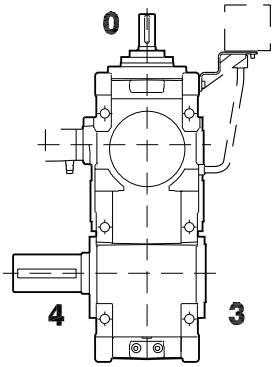
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	240
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	260
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	355
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	405
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	600
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	960
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1120
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1365
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1475
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	2025
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2110

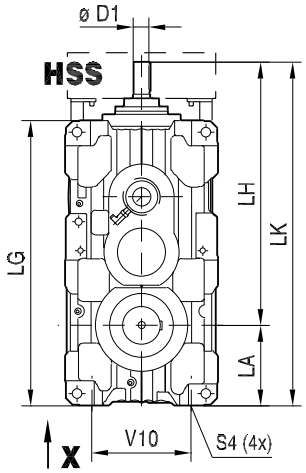
30593506/EN – 07/2023

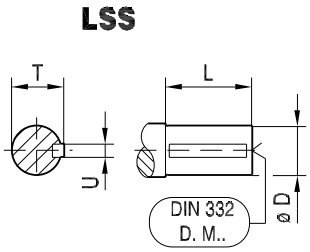
12.2.4 X3K220 - 320

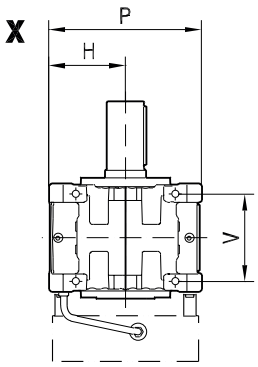
48 042 03 09

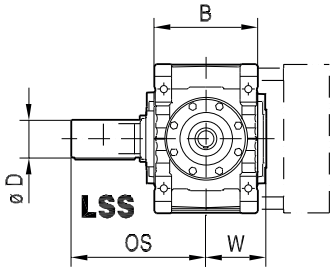
X3KS..

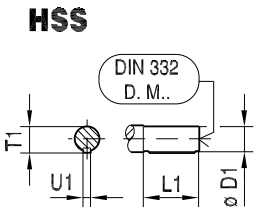




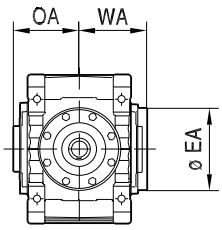


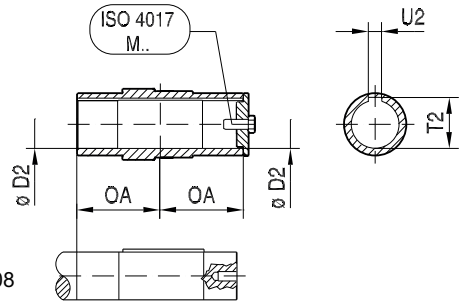






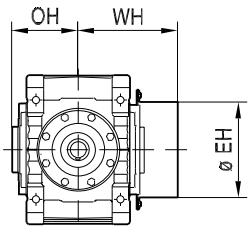
X3KA..

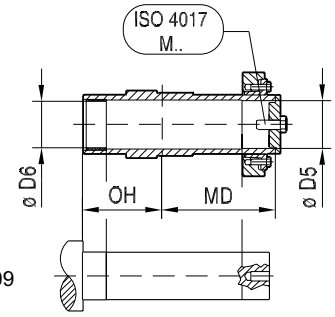




→ 408

X3KH..





→ 409

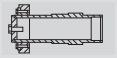
30593506/EN – 07/2023

X.K..												
X3K..	**B**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X220	540	$425_{-0.5}$	$465_{-0.5}$	1584	1430	1895	850	M42x63	610	440	331	2925
X230	540	$425_{-0.5}$	$465_{-0.5}$	1624	1470	1935	850	M42x63	610	440	331	3095
X240	625	$450_{-0.5}$	$495_{-0.5}$	1721	1597	2092	900	M48x72	600	510	377	3945
X250	625	$450_{-0.5}$	$495_{-0.5}$	1744	1620	2115	900	M48x72	600	510	377	4075
X260	705	$500_{-0.5}$	$545_{-0.5}$	1900	1767	2312	1017	M48x72	710	590	417	4870
X270	705	$500_{-0.5}$	$545_{-0.5}$	1935	1802	2347	1017	M48x72	710	590	419	5370
X280	705	$555_{-0.5}$	$610_{-0.5}$	2052	1854	2464	1127	M48x72	710	590	419	5870
X290	785	$580_{-0.5}$	$620_{-0.5}$	2187	2021	2641	1177	M48x72	765	655	465	7020
X300	785	$580_{-0.5}$	$620_{-0.5}$	2216	2050	2670	1177	M48x72	765	655	465	7720
X310	850	$630_{-0.5}$	$680_{-0.5}$	2410	2135	2815	1277	M48x72	860	720	499	8570
X320	850	$630_{-0.5}$	$680_{-0.5}$	2444	2169	2849	1277	M48x72	860	720	499	9470

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**	**i**
X220	85_{m6}	170	90	22_{h9}	M20	-
X230	85_{m6}	170	90	22_{h9}	M20	-
X240	100_{m6}	210	106	28_{h9}	M24	-
X250	100_{m6}	210	106	28_{h9}	M24	-
X260	110_{m6}	210	116	28_{h9}	M24	-
X270	110_{m6}	210	116	28_{h9}	M24	-
X280	110_{m6}	210	116	28_{h9}	M24	-
X290	120_{m6}	210	127	32_{h9}	M24	-
X300	120_{m6}	210	127	32_{h9}	M24	-
X310	130_{m6}	250	137	32_{h9}	M24	i = 12.5 ... 35.5*
	130_{m6}	210	137	32_{h9}	M24	i = 40 ... 71**
X320	130_{m6}	250	137	32_{h9}	M24	i = 14 ... 40*
	130_{m6}	210	137	32_{h9}	M24	i = 45 ... 80**

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2745
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2875
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3660
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3770
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4420
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5320
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6970
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7720
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8420

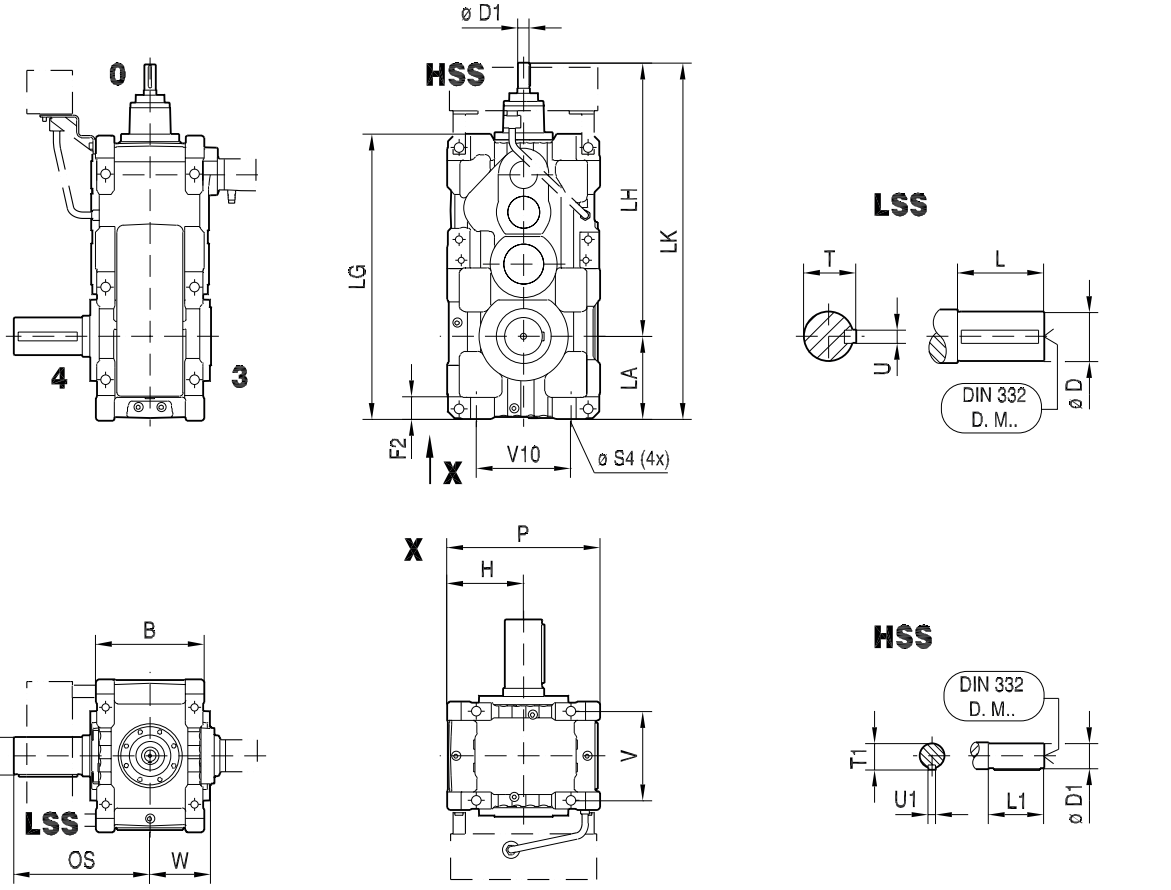
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2850
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2985
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3825
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3930
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4570
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5570
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6420
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7220
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8070
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8770

30593506/EN – 07/2023

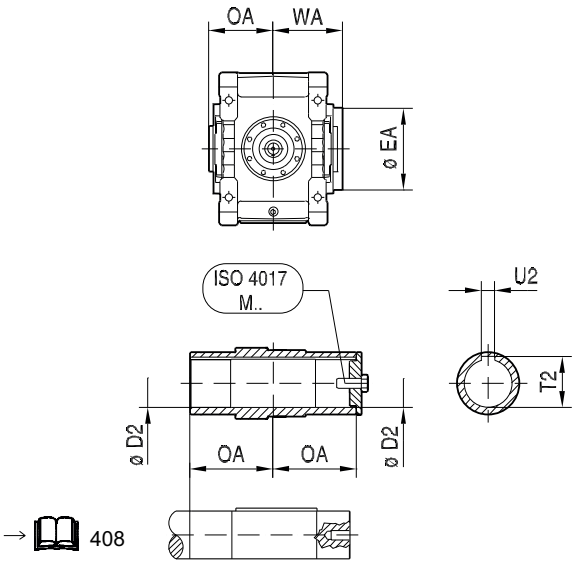
12.2.5 X4K120 - 210

48 043 02 09

X4KS..

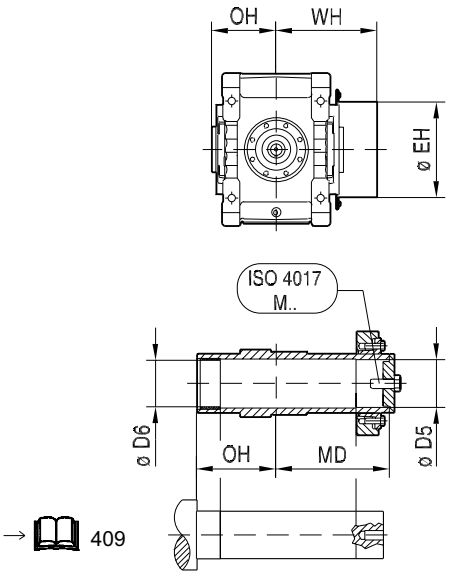


X4KA..



→ 408

X4KH..



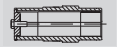
→ 409

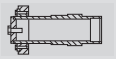
30593506/EN – 07/2023

X.K..													
X4K..	**B**	**F2**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X120	300	68	$225_{-0.5}$	$215_{-0.5}$	767	710	925	450	28	300	245	174	345
X130	300	68	$225_{-0.5}$	$250_{-0.5}$	838	746	996	450	28	300	245	174	385
X140	360	86	$265_{-0.5}$	$250_{-0.5}$	903	856	1106	530	35	335	290	202	565
X150	360	86	$265_{-0.5}$	$295_{-0.5}$	990	898	1193	530	35	335	290	202	635
X160	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	1029	1384	630	42	400	340	240	975
X170	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	1080	1435	630	42	400	340	240	1135
X180	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	1198	1568	670	42	415	390	277	1425
X190	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	1230	1600	670	42	415	390	277	1435
X200	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	1285	1705	750	48	455	420	298	1870
X210	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	1321	1741	750	48	455	420	298	1920

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X120	28_{k6}	60	31	8_{h9}	M10
X130	28_{k6}	60	31	8_{h9}	M10
X140	32_{k6}	80	35	10_{h9}	M12
X150	32_{k6}	80	35	10_{h9}	M12
X160	38_{k6}	100	41	10_{h9}	M12
X170	38_{k6}	100	41	10_{h9}	M12
X180	50_{k6}	110	53.5	14_{h9}	M16
X190	50_{k6}	110	53.5	14_{h9}	M16
X200	50_{k6}	110	53.5	14_{h9}	M16
X210	50_{k6}	110	53.5	14_{h9}	M16

X.KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	325
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	360
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	530
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	585
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	905
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1055
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1325
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1335
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1785
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1805

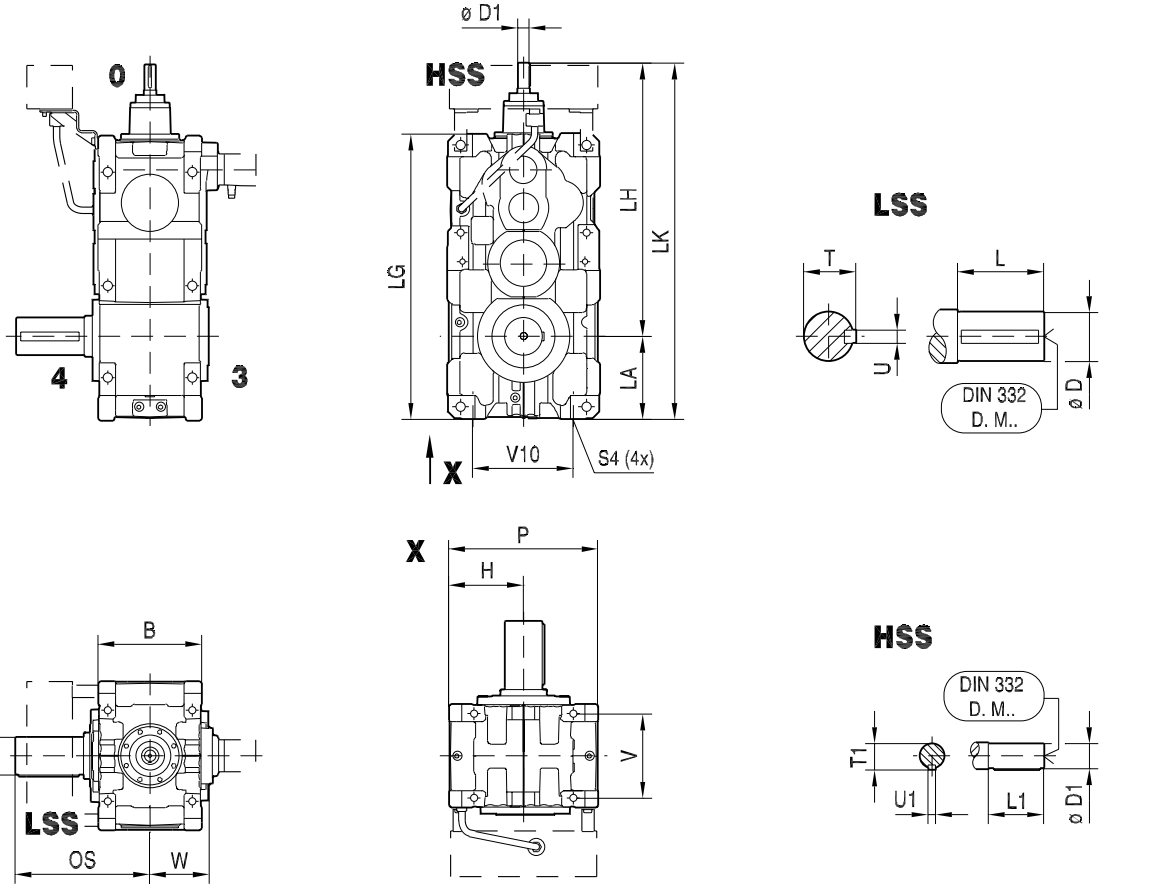
X.KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	335
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	375
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	555
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	615
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	935
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1110
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1375
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1385
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1855
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1890

30593506/EN – 07/2023

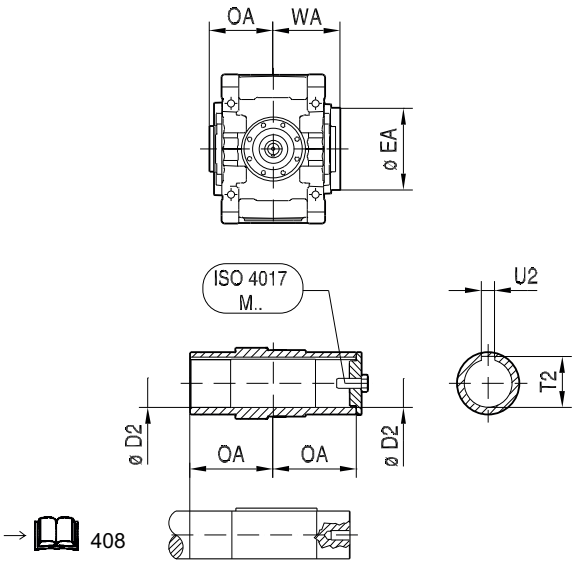
12.2.6 X4K220 - 320

48 044 03 09

X4KS..

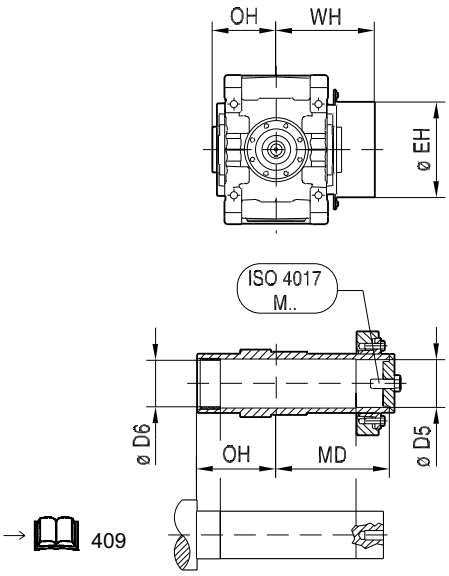


X4KA..



→ 408

X4KH..



→ 409

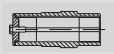
30593506/EN – 07/2023

X.K..												
X4K..	**B**	**H**	**LA**	**LG**	**LH**	**LK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X220	540	$425_{-0.5}$	$465_{-0.5}$	1584	1456	1921	850	M42x63	610	440	331	2735
X230	540	$425_{-0.5}$	$465_{-0.5}$	1624	1498	1963	850	M42x63	610	440	331	2975
X240	625	$450_{-0.5}$	$495_{-0.5}$	1721	1595	2090	900	M48x72	600	510	377	3815
X250	625	$450_{-0.5}$	$495_{-0.5}$	1744	1618	2113	900	M48x72	600	510	377	4045
X260	705	$500_{-0.5}$	$545_{-0.5}$	1900	1785	2330	1000	M48x72	710	590	417	4620
X270	705	$500_{-0.5}$	$545_{-0.5}$	1935	1820	2365	1000	M48x72	710	590	419	5120
X280	705	$555_{-0.5}$	$610_{-0.5}$	2052	1872	2482	1110	M48x72	710	590	419	5670
X290	785	$580_{-0.5}$	$620_{-0.5}$	2187	2015	2635	1160	M48x72	765	655	465	7070
X300	785	$580_{-0.5}$	$620_{-0.5}$	2216	2044	2664	1160	M48x72	765	655	465	7820
X310	850	$630_{-0.5}$	$680_{-0.5}$	2410	2256	2936	1260	M48x72	860	720	499	8670
X320	850	$630_{-0.5}$	$680_{-0.5}$	2444	2290	2970	1260	M48x72	860	720	499	9620

LSS 	Ø D	L	OS	T	U	DIN 332 DR.M..
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

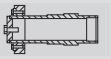
HSS 	Ø D1	L1	T1	U1	DIN 332 DR.M..
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20
X260	80_{m6}	170	85	22_{h9}	M20
X270	80_{m6}	170	85	22_{h9}	M20
X280	80_{m6}	170	85	22_{h9}	M20
X290	85_{m6}	170	90	22_{h9}	M20
X300	85_{m6}	170	90	22_{h9}	M20
X310	100_{m6}	210	106	28_{h9}	M24
X320	100_{m6}	210	106	28_{h9}	M24

X.KA..



LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2555
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2755
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3530
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3740
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4170
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4620
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5120
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	7070
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7820
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8470

X.KH..



LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2660
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2865
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3695
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3900
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4320
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	4870
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5370
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6620
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7320
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8170
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8820

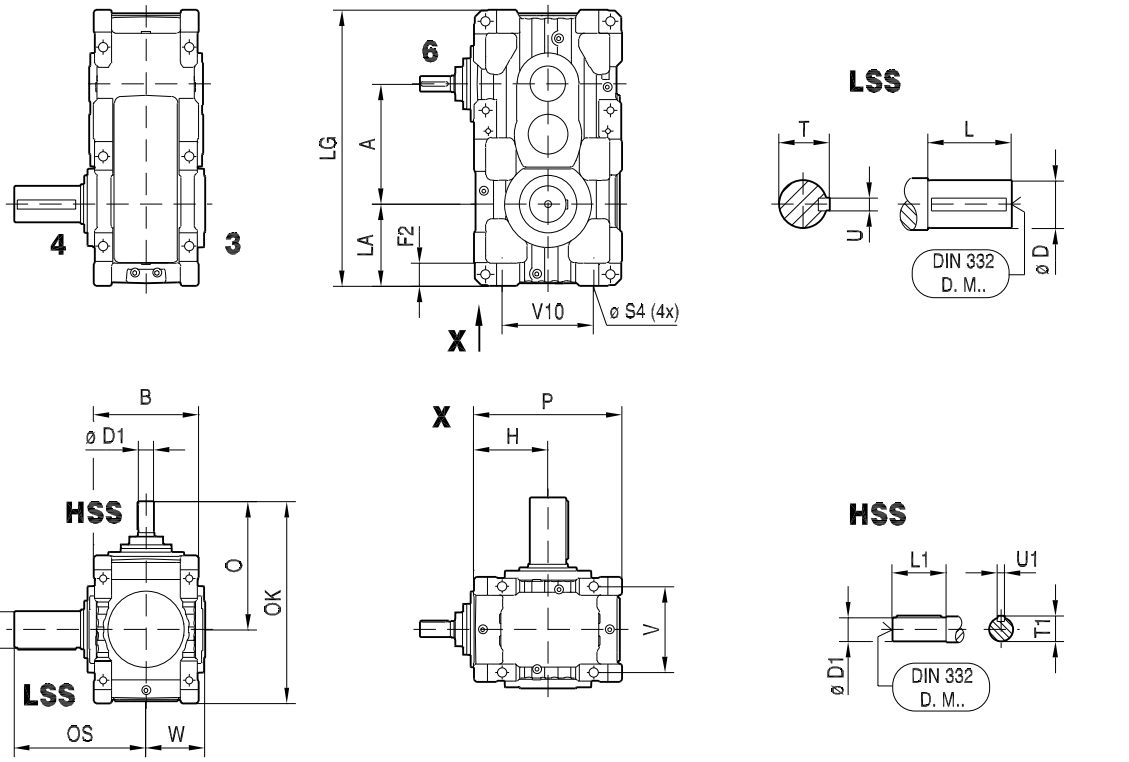
30593506/EN – 07/2023

12.3 X.T.. bevel-helical gear units, mounting position M4 (trolley drive) [mm]

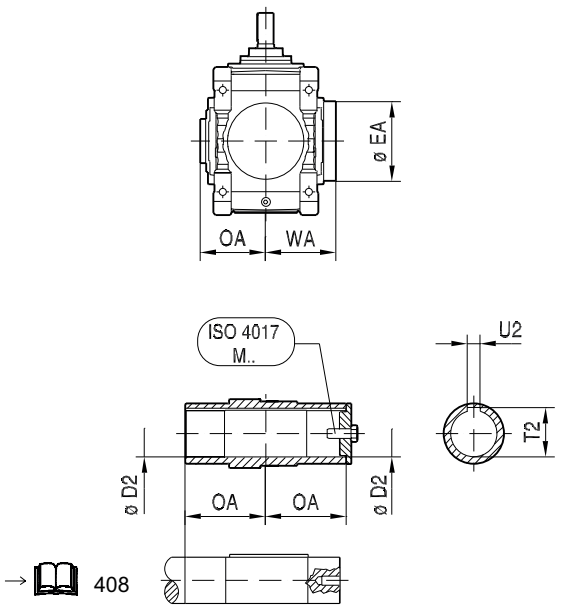
12.3.1 X3T100 - 210

48 045 02 09

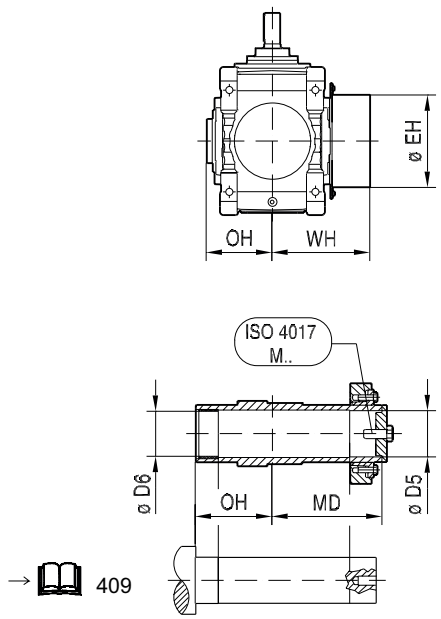
X3TS..



X3TA..



X3TH..

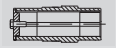


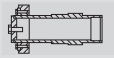
30593506/EN – 07/2023

	X.T..													
X3T..	**A**	**B**	**F2**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X100	278	260	62	$190_{-0.5}$	$190_{-0.5}$	658	354	544	380	24	250	210	153	245
X110	298	260	62	$190_{-0.5}$	$215_{-0.5}$	703	354	544	380	24	250	210	153	265
X120	327	300	68	$225_{-0.5}$	$215_{-0.5}$	767	418	643	450	28	300	245	174	375
X130	363	300	68	$225_{-0.5}$	$250_{-0.5}$	838	418	643	450	28	300	245	174	425
X140	388	360	86	$265_{-0.5}$	$250_{-0.5}$	903	491	756	530	35	335	290	202	620
X150	430	360	86	$265_{-0.5}$	$295_{-0.5}$	990	491	756	530	35	335	290	202	660
X160	474	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	562	877	630	42	400	340	240	1020
X170	525	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	562	877	630	42	400	340	240	1165
X180	544	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	591	926	670	42	415	390	277	1340
X190	576	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	591	926	670	42	415	390	277	1415
X200	614	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	672	1047	750	48	455	420	298	1890
X210	650	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	672	1047	750	48	455	420	298	1935

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X100	32_{k6}	80	35	10_{h9}	M12
X110	32_{k6}	80	35	10_{h9}	M12
X120	38_{k6}	100	41	10_{h9}	M12
X130	38_{k6}	100	41	10_{h9}	M12
X140	50_{k6}	110	53.5	14_{h9}	M16
X150	50_{k6}	110	53.5	14_{h9}	M16
X160	60_{m6}	140	64	18_{h9}	M20
X170	60_{m6}	140	64	18_{h9}	M20
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20

X.TA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X100	75^{H8}	158	173	79.9	20^{JS9}	207	M20x60-8.8	235
X110	85^{H8}	170	176	90.4	22^{JS9}	209	M24x70-8.8	255
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	355
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	400
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	585
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	610
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	950
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1085
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1240
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1315
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1805
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1820

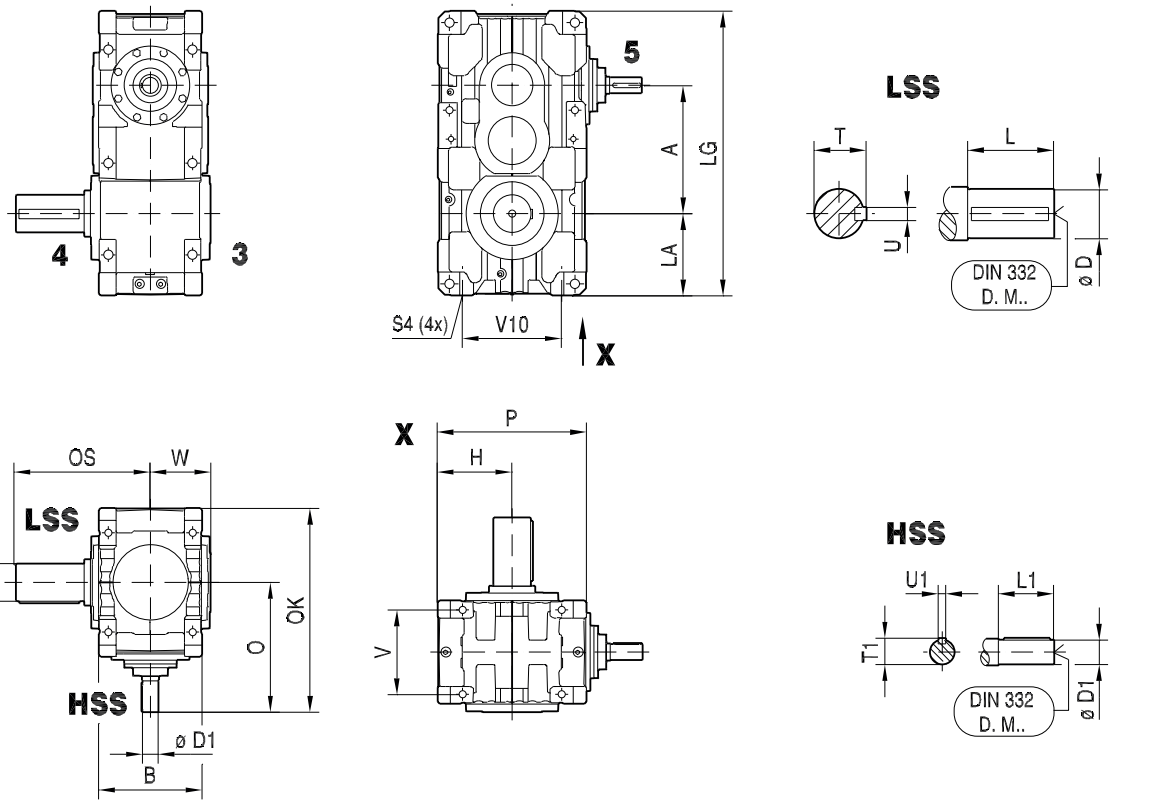
X.TH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X100	80^{H7}	81^{H9}	220	261	173	294	M24x70-8.8	245
X110	90^{H7}	91^{H9}	225	265	176	298	M24x70-8.8	265
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	365
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	415
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	610
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	640
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	980
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1140
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1290
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1365
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1875
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1905

30593506/EN – 07/2023

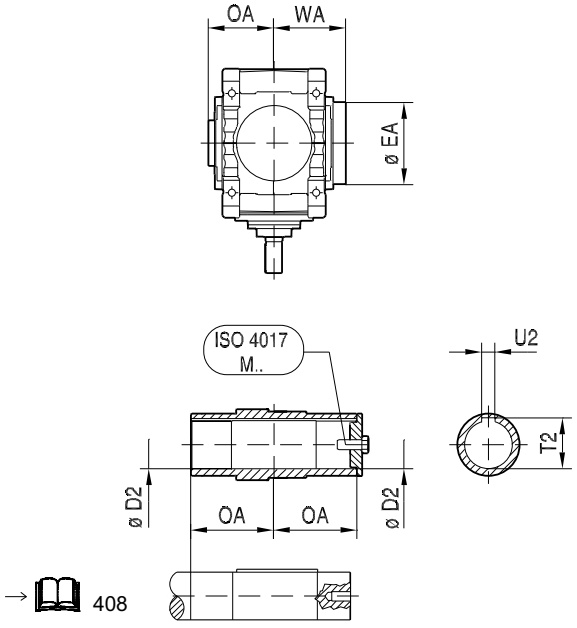
12.3.2 X3T220 - 250

X3TS..

48 046 03 09

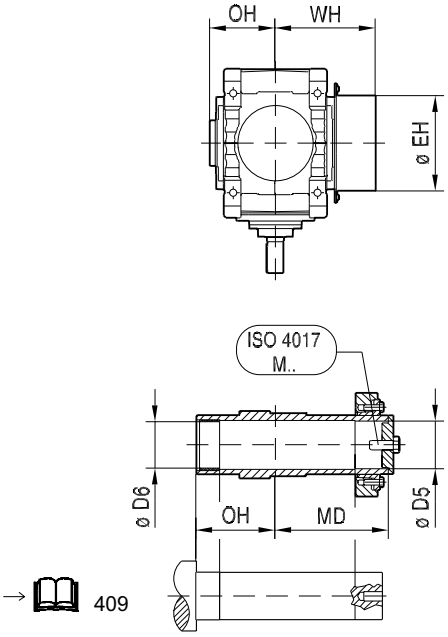


X3TA..



→ 408

X3TH..



→ 409

30593506/EN – 07/2023

X.T..													
X3T..	**A**	**B**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X220	694	540	$425_{-0.5}$	$465_{-0.5}$	1584	736	1161	850	M42x63	610	440	331	2655
X230	734	540	$425_{-0.5}$	$465_{-0.5}$	1624	736	1161	850	M42x63	610	440	331	2845
X240	776	625	$450_{-0.5}$	$495_{-0.5}$	1721	821	1271	900	M48x72	600	510	377	3645
X250	799	625	$450_{-0.5}$	$495_{-0.5}$	1744	821	1271	900	M48x72	600	510	377	3775

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

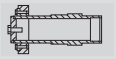
HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X220	85_{m6}	170	90	22_{h9}	M20
X230	85_{m6}	170	90	22_{h9}	M20
X240	100_{m6}	210	106	28_{h9}	M24
X250	100_{m6}	210	106	28_{h9}	M24

X.TA..



LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2475
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2625
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3645
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3470

X.TH..



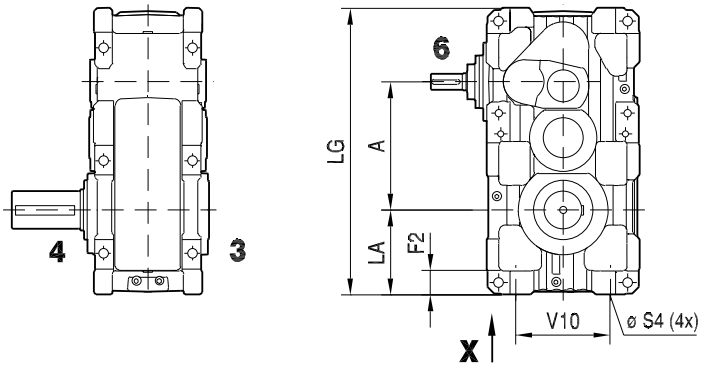
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2580
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2735
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3525
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3630

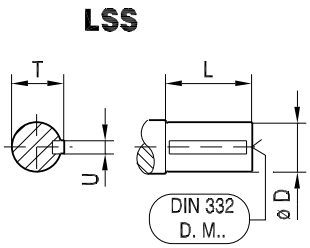
30593506/EN – 07/2023

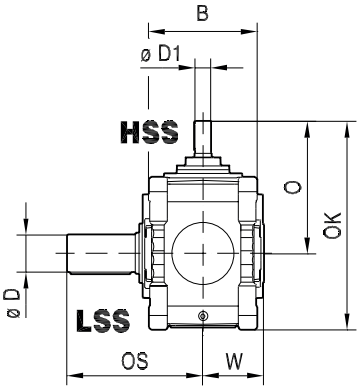
12.3.3 X4T120 - 210

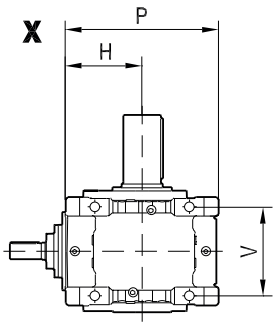
X4TS..

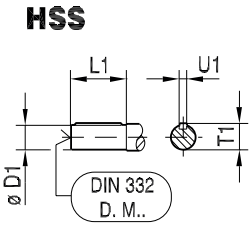
48 047 02 09



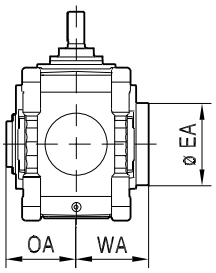


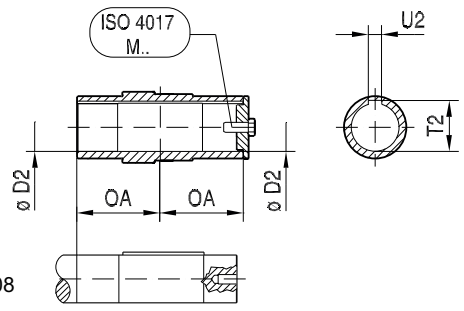






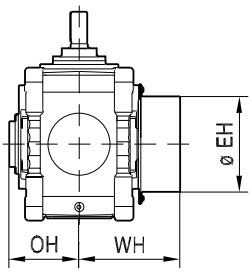
X4TA..

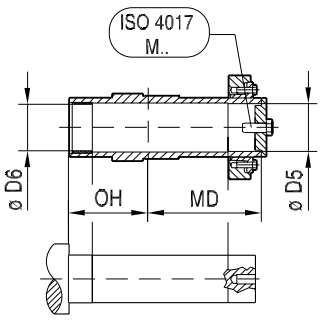




→ 408

X4TH..





→ 409

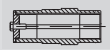
30593506/EN – 07/2023

X.T..														
X3T..	**A**	**B**	**F2**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X120	337	300	68	$225_{-0.5}$	$215_{-0.5}$	767	383	608	450	28	300	245	174	360
X130	373	300	68	$225_{-0.5}$	$250_{-0.5}$	838	383	608	450	28	300	245	174	400
X140	403	360	86	$265_{-0.5}$	$250_{-0.5}$	903	467	732	530	35	335	290	202	580
X150	445	360	86	$265_{-0.5}$	$295_{-0.5}$	990	467	732	530	35	335	290	202	650
X160	490	425	105	$315_{-0.5}$	$355_{-0.5}$	1144	554	869	630	42	400	340	240	1000
X170	541	425	105	$315_{-0.5}$	$355_{-0.5}$	1195	554	869	630	42	400	340	240	1160
X180	562	475	107	$335_{-0.5}$	$370_{-0.5}$	1249	653	988	670	42	415	390	277	1375
X190	594	475	107	$335_{-0.5}$	$370_{-0.5}$	1281	653	988	670	42	415	390	277	1440
X200	627	515	128	$375_{-0.5}$	$420_{-0.5}$	1409	671	1046	750	48	455	420	298	1920
X210	663	515	128	$375_{-0.5}$	$420_{-0.5}$	1445	671	1046	750	48	455	420	298	1970

LSS 	Ø D	L	OS	T	U	DIN 332 DR.M..
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30

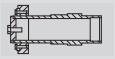
HSS 	Ø D1	L1	T1	U1	DIN 332 DR.M..
X120	28_{k6}	60	31	8_{h9}	M10
X130	28_{k6}	60	31	8_{h9}	M10
X140	32_{k6}	80	35	10_{h9}	M12
X150	32_{k6}	80	35	10_{h9}	M12
X160	38_{k6}	100	41	10_{h9}	M12
X170	38_{k6}	100	41	10_{h9}	M12
X180	50_{k6}	110	53.5	14_{h9}	M16
X190	50_{k6}	110	53.5	14_{h9}	M16
X200	50_{k6}	110	53.5	14_{h9}	M16
X210	50_{k6}	110	53.5	14_{h9}	M16

X.TA..



LSS	Ø D2	Ø EA	OA	T2	U2	WA	ISO 4017 M..	kg
X120	95^{H8}	202	190.5	100.4	25^{JS9}	223	M24x70-8.8	340
X130	105^{H8}	222	194	111.4	28^{JS9}	225	M24x70-8.8	375
X140	115^{H8}	222	222	122.4	32^{JS9}	253	M24x70-8.8	545
X150	125^{H8}	250	224.5	132.4	32^{JS9}	255	M24x70-8.8	600
X160	135^{H8}	270	256	143.4	36^{JS9}	319	M30x90-8.8	930
X170	150^{H8}	270	256	158.4	36^{JS9}	319	M30x90-8.8	1080
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1275
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1335
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1835
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	1855

X.TH..



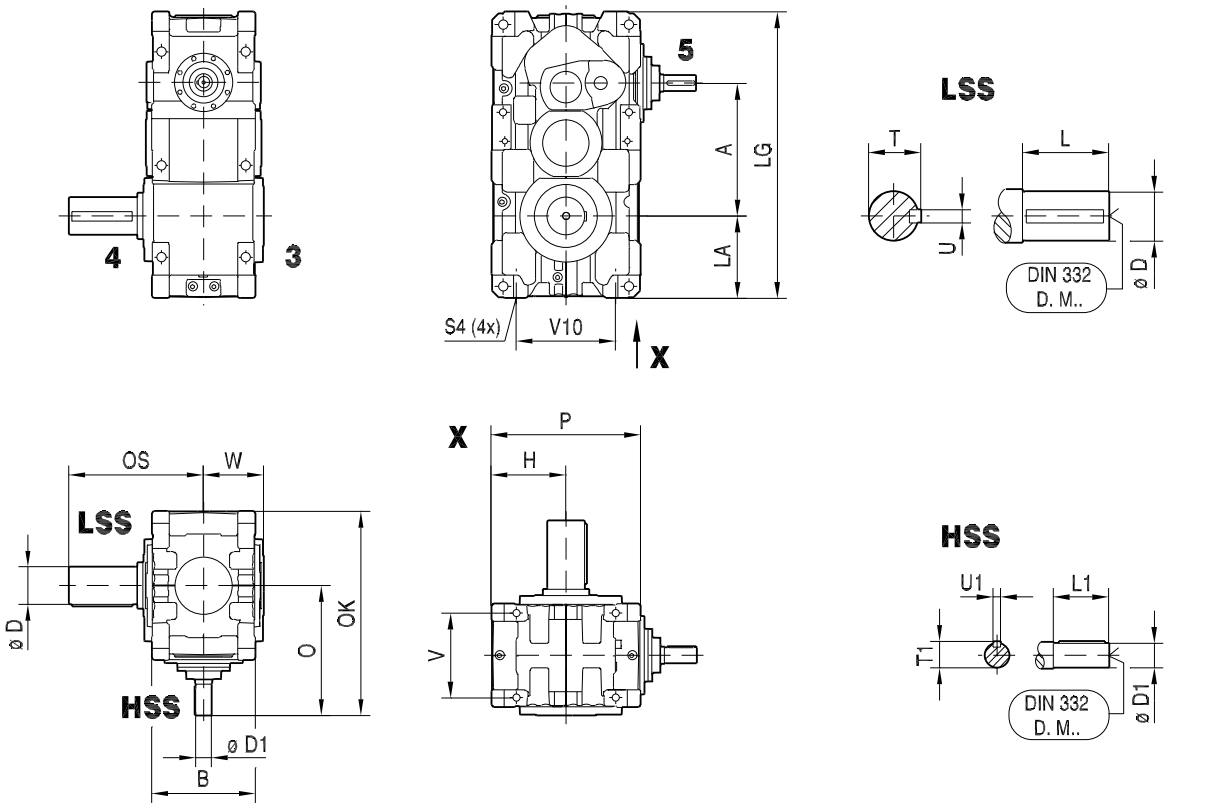
LSS	Ø D5	Ø D6	Ø EH	MD	OH	WH	ISO 4017 M..	kg
X120	100^{H7}	101^{H9}	272	286.5	190.5	319	M24x70-8.8	350
X130	110^{H7}	111^{H9}	292	297	194	328	M24x70-8.8	390
X140	120^{H7}	121^{H9}	304	329	222	356	M24x70-8.8	570
X150	130^{H7}	131^{H9}	322	337.5	224.5	368	M24x70-8.8	630
X160	140^{H7}	141^{H9}	368	375	256	427	M30x90-8.8	960
X170	150^{H7}	153^{H9}	368	364	256	427	M30x90-8.8	1135
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1325
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1385
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	1905
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	1940

30593506/EN – 07/2023

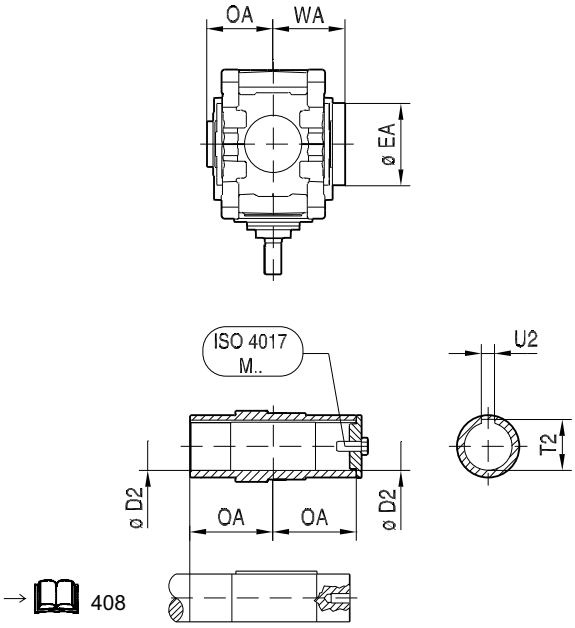
12.3.4 X4T220 - 250

X4TS..

48 048 03 09

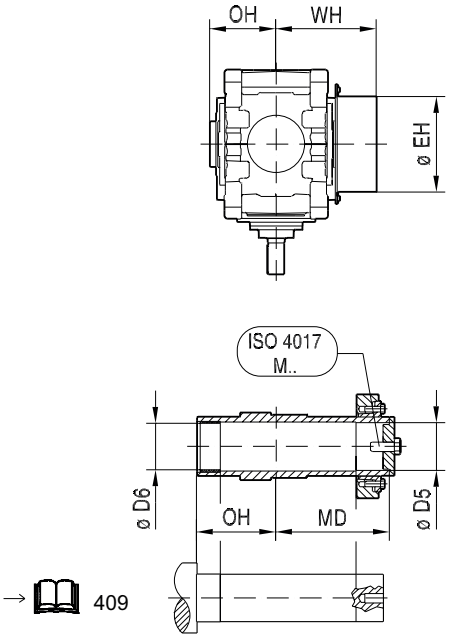


X4TA..



→ 408

X4TH..



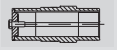
→ 409

30593506/EN – 07/2023

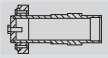
X.T..													
X4T..	**A**	**B**	**H**	**LA**	**LG**	**O**	**OK**	**P**	**Ø S4 (4x)**	**V10**	**V14**	**W**	**kg**
X220	718	540	$425_{-0.5}$	$465_{-0.5}$	1584	761	1186	850	M42x63	610	440	331	2700
X230	758	540	$425_{-0.5}$	$465_{-0.5}$	1624	761	1186	850	M42x63	610	440	331	2880
X240	806	625	$450_{-0.5}$	$495_{-0.5}$	1721	817	1267	900	M48x72	600	510	377	3680
X250	829	625	$450_{-0.5}$	$495_{-0.5}$	1744	817	1267	900	M48x72	600	510	377	3835

LSS 	**Ø D**	**L**	**OS**	**T**	**U**	**DIN 332 DR.M..**
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36

HSS 	**Ø D1**	**L1**	**T1**	**U1**	**DIN 332 DR.M..**
X220	60_{m6}	140	64	18_{h9}	M20
X230	60_{m6}	140	64	18_{h9}	M20
X240	70_{m6}	140	74.5	20_{h9}	M20
X250	70_{m6}	140	74.5	20_{h9}	M20

X.TA.. 

LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2520
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2660
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3395
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3530

X.TH.. 

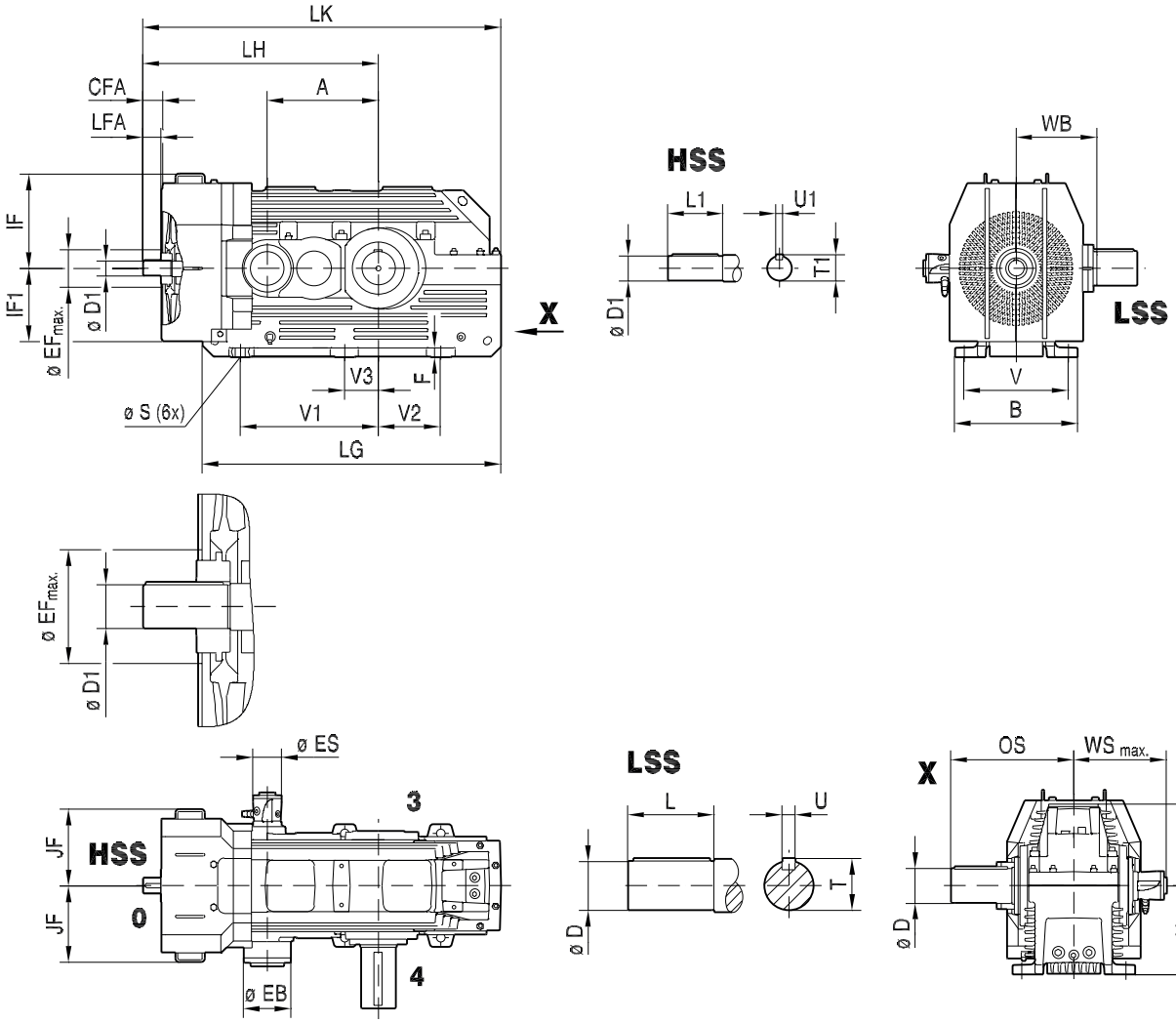
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2625
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2770
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3560
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3690

30593506/EN – 07/2023

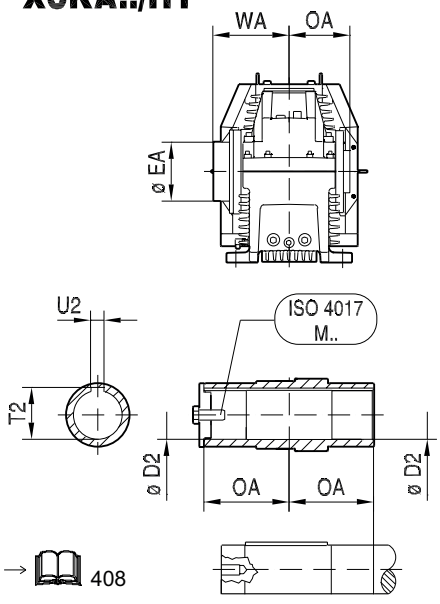
13 Dimension sheets: Thermal housing /HT

48 075 01 20

X3KS../HT

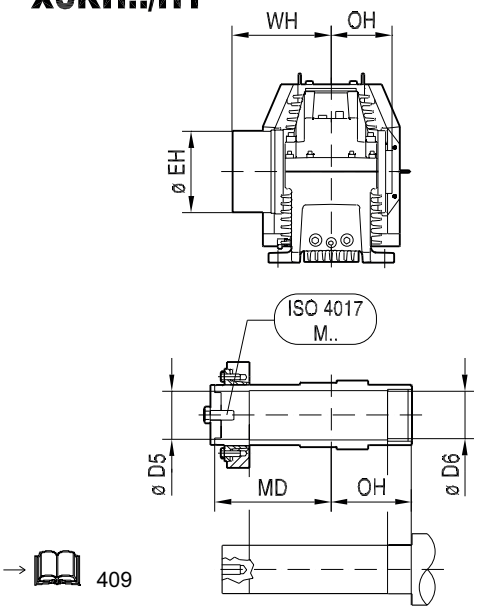


X3KA../HT



→ 408

X3KH../HT



→ 409

30593506/EN – 07/2023

X.K..												
X3K..	**A**	**B**	**F**	**H**	**LG**	**LH**	**LK**	**P**	**Ø S**	**WB**	**WSmax**	**kg**
X180	544	600	46	$435_{-0.5}$	1460	1135	1735	862	42	360	468	1705
X190	576	600	46	$435_{-0.5}$	1460	1167	1735	862	42	360	468	1790
X200	614	630	55	$485_{-0.5}$	1642	1286	1962	930	48	394	503.5	2350
X210	650	630	55	$485_{-0.5}$	1642	1322	1962	930	48	394	503.5	2415
X220	694	710	65	$550_{-0.5}$	1835	1430	2170	1056	48	428	538.5	3340
X230	734	710	65	$550_{-0.5}$	1835	1470	2170	1056	48	428	538.5	3465
X240	776	840	68	$600_{-0.5}$	1972	1597	2363	1143	56	472	583.5	4400
X250	799	840	68	$600_{-0.5}$	1972	1620	2363	1143	56	472	583.5	4500
X260	855	920	80	$720_{-0.5}$	2181	1767	2620	1308	56	563	598.5	5915
X270	890	920	80	$720_{-0.5}$	2181	1802	2620	1308	56	563	598.5	6315
X280	942	920	80	$800_{-0.5}$	2260	1854	2701	1433	56	563	598.5	6965
X290	987	1000	80	$850_{-0.5}$	2484	2021	2967	1533	65	610	639.5	8390
X300	1016	1000	80	$850_{-0.5}$	2484	2050	2967	1533	65	610	639.5	9035
X310	1100	1120	85	$950_{-0.5}$	2751	2135	3225	1693	65	688	672	10785
X320	1134	1120	85	$950_{-0.5}$	2751	2169	3225	1693	65	688	672	11610

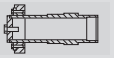
X.K..													
X3K..	**V**	**V1**	**V2**	**V3**	**CFA**	**LFA Axia**	**LFA Radial**	**Ø EF**	**Ø EB**	**Ø ES**	**IF**	**IF1**	**JF**
X180	510	675	305	165	51	85	85	190	210	140	453	357	379
X190	510	707	273	197	51	85	85	190	210	140	453	357	379
X200	540	759	481	74	76	113	110	215	245	140	499	402	424
X210	540	795	445	110	76	113	110	215	245	140	499	402	424
X220	590	885	525	180	71	102	105	245	290	140	560	467	467
X230	590	925	485	220	71	102	145	245	290	140	560	467	467
X240	720	987	578	282	111	130	145	245	290	140	595	509	507
X250	720	1010	555	305	111	130	145	245	290	140	595	509	507
X260	800	1095	645	345	113	122	145	245	322	140	640	620	554
X270	800	1130	610	380	113	122	145	245	322	140	640	620	554
X280	800	1190	610	380	113	122	145	245	322	140	685	685	554
X290	880	1311	689	311	113	122	145	270	412	140	735	747	604
X300	880	1340	660	340	113	122	145	270	412	140	735	747	604
X310	980	1371	784	371	113	171	185	305	420	140	795	827	659
X320	980	1405	750	405	113	171	185	305	420	140	795	827	659

30593506/EN – 07/2023

LSS 	Ø D	L	OS	T	U	DIN 332 DR. M..
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30
X220	210_{m6}	350	703	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M30
X240	230_{m6}	410	811	241	50_{g}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M36
X320	340_{m6}	550	1079	355	80_{h9}	M42

HSS 	Ø D1	L1	T1	U1	DIN 332 DR. M..
X180	70_{m6}	140	74.5	20_{h9}	M20
X190	70_{m6}	140	74.5	20_{h9}	M20
X200	80_{m6}	170	85	22_{h9}	M20
X210	80_{m6}	170	85	22_{h9}	M20
X220	85_{m6}	170	90	22_{h9}	M20
X230	85_{m6}	170	90	22_{h9}	M20
X240	100_{m6}	210	106	28_{g}	M24
X250	100_{m6}	210	106	28_{h9}	M24
X260	110_{m6}	210	116	28_{h9}	M24
X270	110_{m6}	210	116	28_{h9}	M24
X280	110_{m6}	210	116	28_{h9}	M24
X290	120_{m6}	210	127	32_{h9}	M24
X300	120_{m6}	210	127	32_{h9}	M24
X310	130_{m6}	250	137	32_{h9}	M24
X320	130_{m6}	250	137	32_{h9}	M24

X3KA.. 								
LSS	**Ø D2**	**Ø EA**	**OA**	**T2**	**U2**	**WA**	**ISO 4017 M..**	**kg**
X180	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1300
X190	165^{H8}	278	292	174.4	40^{JS9}	356	M30x90-8.8	1410
X200	180^{H8}	332	319.5	190.4	45^{JS9}	383	M30x90-8.8	1935
X210	190^{H8}	332	319.5	200.4	45^{JS9}	383	M30x90-8.8	2005
X220	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2710
X230	210^{H8}	360	352.5	221.4	50^{JS9}	417	M30x90-8.8	2840
X240	230^{H8}	420	400.5	241.4	50^{JS9}	469	M36x110-8.8	3625
X250	240^{H8}	420	400.5	252.4	56^{JS9}	469	M36x110-8.8	3735
X260	240^{H8}	420	437	252.4	56^{JS9}	509	M36x110-8.8	4420
X270	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	4870
X280	275^{H8}	460	450	287.4	63^{JS9}	523	M36x110-8.8	5320
X290	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6370
X300	290^{H8}	486	492	302.4	63^{JS9}	565	M36x110-8.8	6970
X310	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	7720
X320	320^{H8}	544	528.5	334.4	70^{JS9}	612	M42x130-8.8	8420

X3KH.. 								
LSS	**Ø D5**	**Ø D6**	**Ø EH**	**MD**	**OH**	**WH**	**ISO 4017 M..**	**kg**
X180	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1350
X190	165^{H7}	166^{H9}	382	400	292	463	M30x90-8.8	1460
X200	180^{H7}	181^{H9}	446	450.5	319.5	517	M30x90-8.8	2005
X210	190^{H7}	191^{H9}	446	453.5	319.5	517	M30x90-8.8	2090
X220	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2815
X230	210^{H7}	211^{H9}	484	497.5	352.5	562	M30x90-8.8	2950
X240	230^{H7}	231^{H9}	558	571.5	400.5	654	M36x110-8.8	3790
X250	240^{H7}	241^{H9}	558	571.5	400.5	654	M36x110-8.8	3895
X260	250^{H7}	255^{H9}	558	608	437	694	M36x110-8.8	4570
X270	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5120
X280	280^{H7}	285^{H9}	602	630	450	706	M36x110-8.8	5570
X290	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	6420
X300	300^{H7}	305^{H9}	634	679	492	753	M36x110-8.8	7220
X310	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8070
X320	320^{H7}	325^{H9}	692	740.5	528.5	825	M42x130-8.8	8770

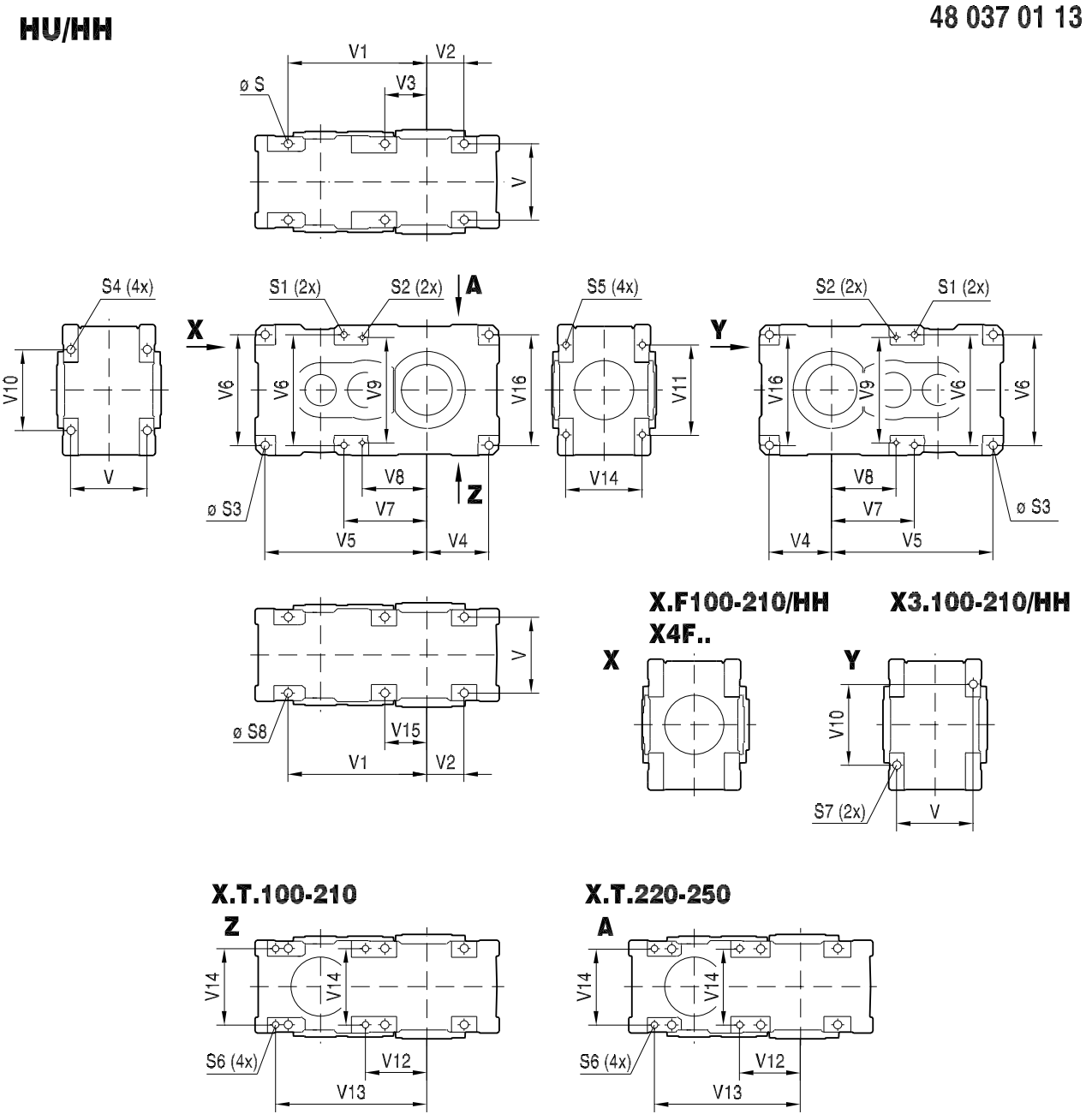
30593506/EN – 07/2023

SEW EURODRIVE

14 Dimension sheets: Options

14.1 Housing bores [mm]

14.1.1 Universal and horizontal housing X100 – 320 HU/HH



30593506/EN – 07/2023

Universal housing X100 – 320 /HU

INFORMATION

The dimension **V5** is identical for all gear unit designs except for X2K..

	Ø S	S1 (2x)	S2 (2x)	Ø S3	S4 (4x)	S5 (4x)	S7 (2x)	Ø S8	V	V1	V2	V3	V4	V5
X100	24 (4x)	M20	-	24 (4x)	ø 24	M20	-	24 (4x)	210	370	90	-	160	441
X110	24 (4x)	M20	-	24 (4x)	ø 24	M20	-	24 (4x)	210	390	115	-	185	461
X120	28(4x)	M24	-	28 (4x)	ø 28	M24	-	28(4x)	245	440	105	-	184	521
X130	28 (4x)	M24	-	28 (4x)	ø 28	M24	-	28 (4x)	245	475	140	-	219	557
X140	35 (4x)	M30	-	35 (4x)	ø 35	M30	-	35 (4x)	290	510	110	-	210	613
X150	35 (4x)	M30	M20	35 (4x)	ø 35	M30	-	35 (4x)	290	555	155	-	255	655
X160	42 (4x)	M36	M24	42 (4x)	ø 42	M36	-	42 (4x)	340	620	185	-	303	737
X170	42 (4x)	M36	M24	42 (4x)	ø 42	M36	-	42 (4x)	340	670	185	-	303	788
X180	42 (6x)	M36	M30	42 (4x)	ø 42	M36	-	42 (6x)	390	710	190	215	318	827
X190	42 (6x)	M36	M30	42 (4x)	ø 42	M36	-	42 (6x)	390	740	190	215	318	859
X200	48 (6x)	M42	M30	48 (4x)	ø 48	M42	-	48 (6x)	420	780	205	230	360	930
X210	48 (6x)	M42	M30	48 (4x)	ø 48	M42	-	48 (6x)	420	815	205	230	360	966
X220	48 (6x)	M42	M36	48 (4x)	M42x63	M42	-	48 (6x)	440	910	250	280	403	1057
X230	48 (6x)	M42	M36	48 (4x)	M42x63	M42	-	48 (6x)	440	950	250	280	403	1097
X240	56 (6x)	M48	M36	56(4x)	M48x72	M48	-	56 (6x)	510	990	250	305	425	1155
X250	56 (6x)	M48	M36	56 (4x)	M48x72	M48	-	56 (6x)	510	1010	250	305	425	1178
X260	56 (6x)	M48	M48	56 (4x)	M48x72	M48	-	56 (6x)	590	1110	300	350	475	1285
X270	56 (6x)	M48	M48	56 (4x)	M48x72	M48	-	56 (6x)	590	1110	300	350	475	1320
X280	56 (6x)	M48	-	56 (4x)	M48x72	M48	-	56 (6x)	590	1190	360	380	540	1372
X290	65 (6x)	M48	-	65 (4x)	M48x72	M48	-	65 (6x)	655	1280	330	355	539	1486
X300	65 (6x)	M48	-	65 (4x)	M48x72	M48	-	65 (6x)	655	1280	330	355	539	1515
X310	65 (6x)	M48	-	65 (4x)	M48x72	M48	-	65 (6x)	720	1435	385	455	598	1647
X320	65 (6x)	M48	-	65 (4x)	M48x72	M48	-	65 (6x)	720	1435	385	455	598	1681

	V6	V7	V8	V9	V10	V11[1)]	V11[2)]	V12[3)]	V13[3)]	V12[3)]	V13[3)]	V14	V15	V16
X100	315	197	-	-	250	-	250	153	403	-	-	210	-	315
X110	315	217	-	-	250	-	250	173	423	-	-	210	-	315
X120	380	233	-	-	300	300	310	172	482	187	487	245	-	380
X130	380	269	-	-	300	300	310	208	518	223	523	245		380
X140	445	277	-	-	335	350	350	213	563	228	578	290	-	445
X150	445	319	250	430	335	350	350	255	605	270	620	290	-	445
X160	525	348	265	500	400	390	415	266.5	681.5	294.5	584.5	345	-	525
X170	525	399	265	500	400	390	415	317.5	732.5	345.5	735.5	345	-	525
X180	565	424	333	546	415	425	460	314	774	349.5	774.5	390	215	565
X190	565	456	333	546	415	425	460	346	806	381.5	806.5	390	215	565
X200	630	478	350	610	455	490	510	359	869	382.5	872.5	420	230	630
X210	630	514	350	610	455	490	510	395	905	418.5	908.5	420	230	630
X220	725	531	415	680	610	540	600	394	994	448.5	988.5	440	280	725
X230	725	571	415	680	610	540	600	434	1034	488.5	1028.5	440	280	725
X240	760	625	450	740	600	550	600	476	1076	532	1081	510	305	760
X250	760	648	450	740	600	550	600	499	1099	554	1104	510	305	760
X260	860	683	500	860	710	710	710	-	-	-	-	590	350	860
X270	860	718	500	860	710	710	710	-	-	-	-	590	350	860
X280	970	569	-	970	710	710	710	-	-	-	-	590	380	970
X290	995	558	-	995	765	830	830	-	-	-	-	655	355	995
X300	995	587	-	995	765	830	830	-	-	-	-	655	355	995
X310	1095	621	-	1095	860	860	860	-	-	-	-	720	455	1095
X320	1095	655	-	1095	860	860	860	-	-	-	-	720	455	1095

1) X3F, X4K
2) X2F, X3K
3) X2T, X3T

30593506/EN – 07/2023

Horizontal housing X100 – 210 /HH

	Ø S	S1 (2x)[1]	S1 (2x)[2]	S2 (2x)	Ø S3	S4 (4x)	S5 (4x)	Ø S7 (2x)	Ø S8	V	V1	V2	V3
X100	24 (4x)	M20	-	-	24 (2x)	-	M20	24	24 (4x)	210	370	90	-
X110	24 (4x)	M20	-	-	24 (2x)	-	M20	24	24 (4x)	210	390	115	-
X120	28 (4x)	M24	-	-	28 (2x)	-	M24	28	28 (4x)	245	440	105	-
X130	28(4x)	M24	-	-	28 (2x)	-	M24	28	28 (4x)	245	475	140	-
X140	35 (4x)	M30	-	-	35 (2x)	-	M30	35	35 (4x)	290	510	110	-
X150	35 (4x)	M30	-	-	35 (2x)	-	M30	35	35 (4x)	290	555	155	-
X160	42 (4x)	M36	-	-	42 (2x)	-	M36	42	42 (4x)	340	620	185	-
X170	42 (4x)	M36	-	-	42 (2x)	-	M36	42	42 (4x)	340	670	185	-
X180	42 (6x)	M36	-	-	42 (2x)	-	M36	42	42 (4x)	390	710	190	215
X190	42 (6x)	M36	-	-	42 (2x)	-	M36	42	42 (4x)	390	740	190	215
X200	48 (6x)	M42	-	-	48 (2x)	-	M42	48	48 (4x)	420	780	205	230
X210	4 8(6x)	M42	-	-	48 (2x)	-	M42	48	48 (4x)	420	815	205	230

1) X3F
2) X3K

	V4	V5	V6	V7	V8	V9	V10	V11[1]	V11[2]	V14	V15
X100	-	441	315	197	-	-	250	-	250	210	-
X110	-	461	315	217	-	-	250	-	250	210	-
X120	-	521	380	233	-	-	300	-	310	245	-
X130	-	557	380	269	-	-	300	-	310	245	-
X140	-	613	445	277	-	-	335	-	350	290	-
X150	-	655	445	319	-	-	335	-	350	290	-
X160	-	737	525	348	-	-	400	-	415	345	-
X170	-	788	525	399	-	-	400	-	415	345	-
X180	-	827	565	424	-	-	415	-	460	390	-
X190	-	859	565	456	-	-	415	-	460	390	-
X200	-	930	630	478	-	-	455	-	510	420	-
X210	-	966	630	514	-	-	455	-	510	420	-

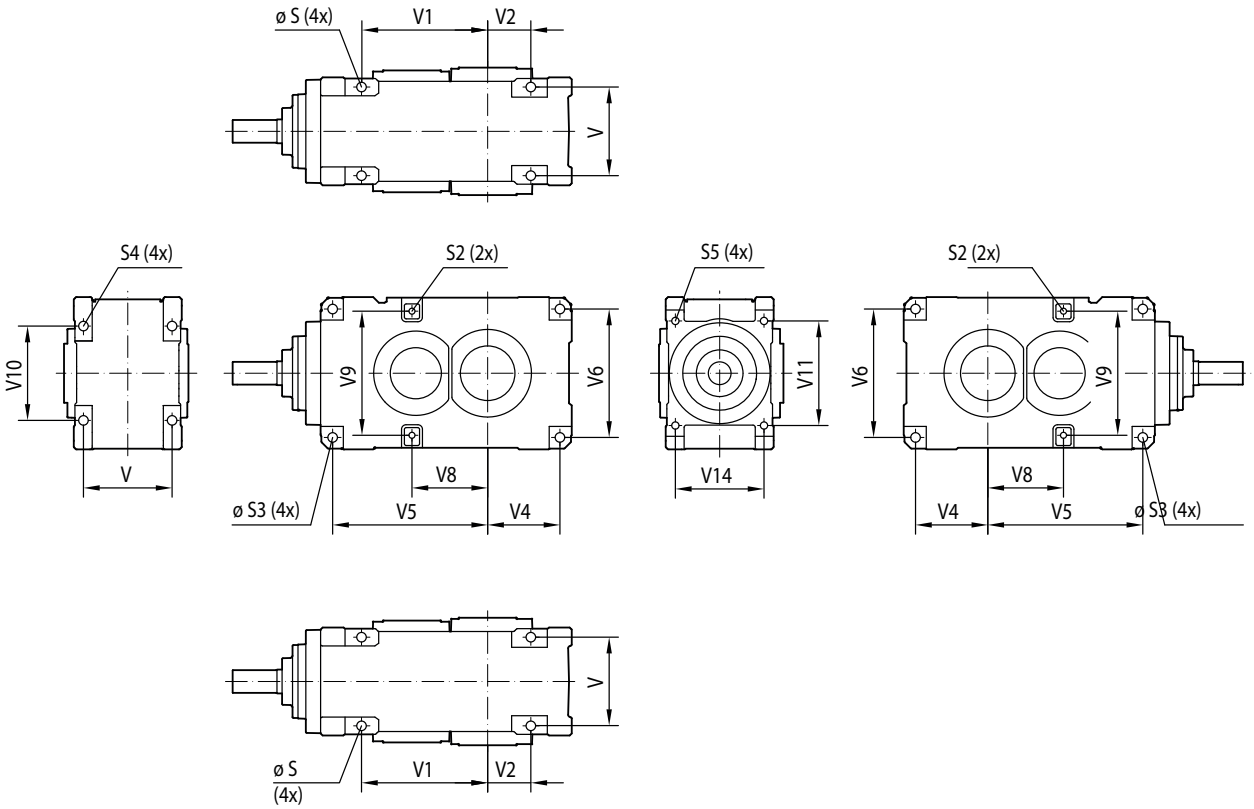
1) X3F
2) X3K

30593506/EN – 07/2023

Universal housing X2K100 – 250 /HU

48 002 03 10

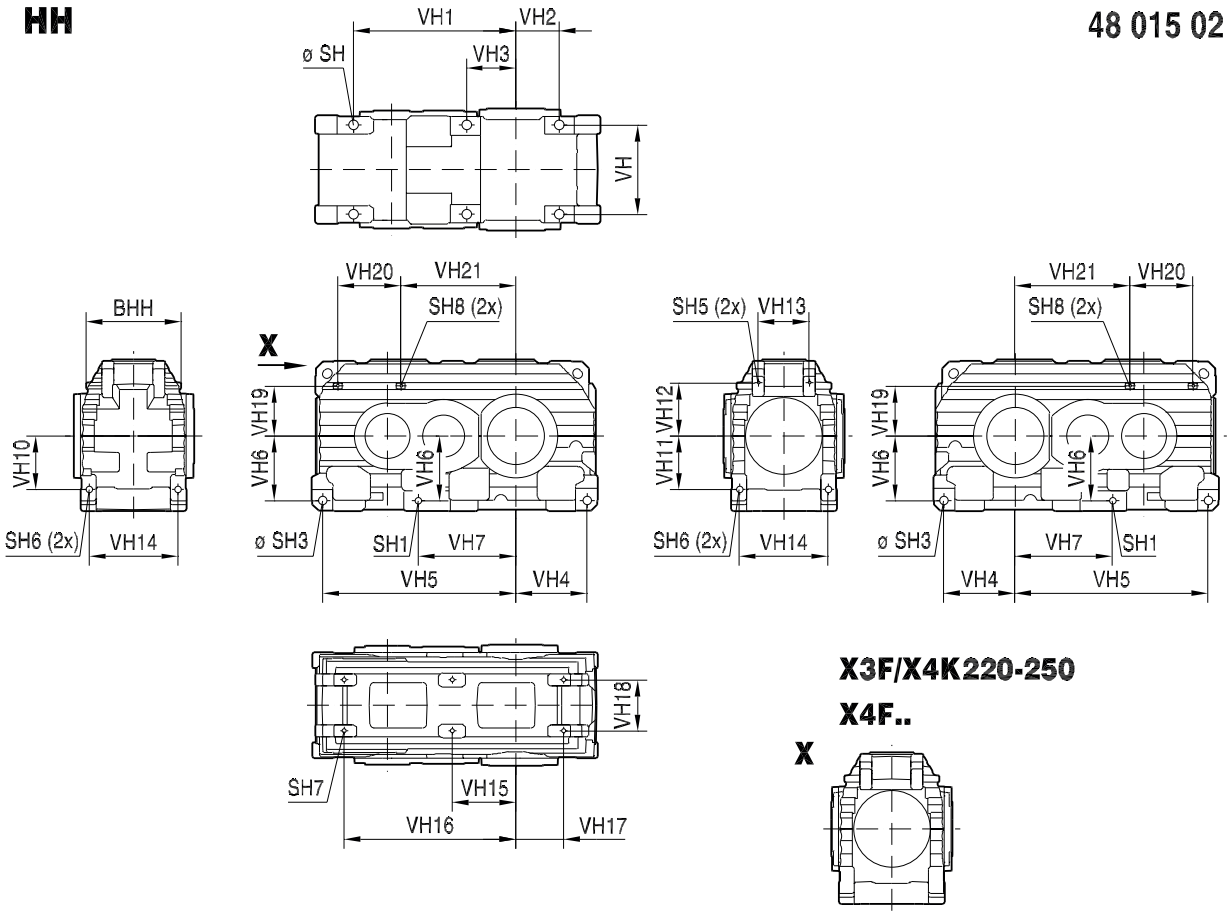
HU



	Ø S (4x)	S2 (2x)	Ø S3 (4x)	S4 (4x)	S5 (4x)	V	V1	V2	V4	V5	V6	V8	V9	V10	V11	V14
X2K.100	24	M20	24	ø 24	M20	210	315	90	160	384	315	197	315	250	250	210
X2K.110	24	M20	24	ø 24	M20	210	335	115	185	404	315	217	315	250	250	210
X2K.120	28	M24	28	ø 28	M24	245	370	105	184	451	380	233	380	300	310	245
X2K.130	28	M24	28	ø 28	M24	245	405	140	219	487	380	269	380	300	310	245
X2K.140	35	M30	35	ø 35	M30	290	390	110	210	494	445	277	445	335	350	290
X2K.150	35	M20	35	ø 35	M30	290	435	155	255	536	445	250	430	335	350	290
X2K.160	42	M24	42	ø 42	M36	340	495	185	303	617	525	265	500	400	415	345
X2K.170	42	M24	42	ø 42	M36	340	545	185	303	668	525	265	500	400	415	345
X2K.180	42	M30	42	ø 42	M36	390	555	190	318	682	565	333	546	415	460	390
X2K.190	42	M30	42	ø 42	M36	390	585	190	318	714	565	333	546	415	460	390
X2K.200	48	M30	48	ø 48	M42	420	605	205	360	760	630	350	610	455	510	420
X2K.210	48	M30	48	ø 48	M42	420	640	205	360	795	630	350	610	455	510	420
X2K.220	48	M36	48	M42x63	M42	510	730	250	403	887	725	415	680	610	600	510
X2K.230	48	M36	48	M42x63	M42	510	770	250	403	927	725	415	680	610	600	510
X2K.240	56	M36	56	M48x72	M48	585	780	250	425	965	760	450	740	600	600	585
X2K.250	56	M36	56	M48x72	M48	585	805	250	425	988	760	450	740	600	600	585

30593506/EN – 07/2023

14.1.2 Horizontal housing X220 – 320 /HH



	VH	VH1	VH2	VH3	VH4	VH5	VH6	VH7	VH10	VH11	VH12	VH13	VH14	VH15	VH16	VH17	VH18
X220	440	910	250	440	-	1057	362.5	531	305	300	274	245	440	-	980	300	245
X230	440	950	250	440	-	1097	362.5	571	305	300	274	245	440	-	1080	300	-
X240	510	990	250	510	-	1155	380	625	300	300	280	314	510	-	1097	320	-
X250	510	1010	250	510	-	1178	380	648	300	300	280	314	510	-	1120	320	-
X260	590	1110	300	350	475	1285	430	683	355	355	355	340	590	422	1142	318	340
X270	590	1110	300	350	475	1320	430	718	355	355	355	340	590	457	1177	283	340
X280	590	1190	360	380	540	1372	485	569	355	355	355	340	590	435	1235	365	340
X290	655	1280	330	355	539	1486	497.5	558	382.5	415	415	360	655	495	1325	345	360
X300	655	1280	330	355	539	1515	497.5	587	382.5	415	415	360	655	525	1355	315	360
X310	720	1435	385	455	598	1647	547.5	621	430	430	430	400	720	400	1470	390	550
X320	720	1435	385	455	598	1681	547.5	655	430	430	430	400	720	400	1504	356	584

	VH19	VH20	VH21	Ø SH (6x)	SH1	Ø SH3	SH5 (2x)	SH6 (2x)	SH7	SH8 (2x)	BHH
X220	269	316	636	48	M42	48 (1x)	M16	M42	M24 (4x)	M16	488
X230	269	316	676	48	M42	48 (1x)	M16	M42	M24 (4x)	M16	488
X240	277	350	715	56	M48	56 (1x)	M16	M48	M30 (4x)	M16	568
X250	277	350	738	56	M48	56 (1x)	M16	M48	M30 (4x)	M16	568
X260	334	420	764	56	M48	56 (2x)	M20	M48	M30 (6x)	M20	632
X270	334	420	799	56	M48	56 (2x)	M20	M48	M30 (6x)	M20	632
X280	377	420	851	56	M48	56 (2x)	M20	M48	M30 (6x)	M20	632
X290	385	471	888	65	M48	65 (2x)	M24	M48	M36 (6x)	M24	700
X300	385	471	917	65	M48	65 (2x)	M24	M48	M36 (6x)	M24	700
X310	420	559	975	65	M48	65 (2x)	M24	M48	M36 (6x)	M24	756
X320	420	559	1009	65	M48	65 (2x)	M24	M48	M36 (6x)	M24	756

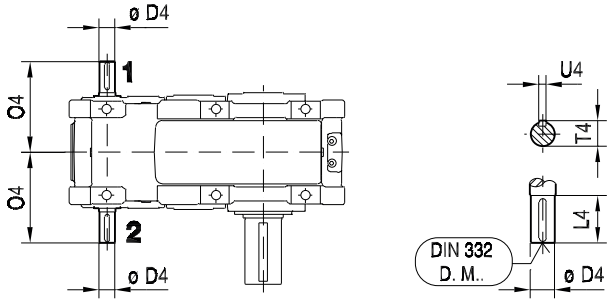
30593506/EN – 07/2023

14.2 Input shaft /HSST [mm]

14.2.1 X2F..

HSST

48 061 01 09



→ 65

X2F..	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X100**	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X110***	42_{k6}	110	274	45	12_{h9}	M16	32_{k6}	80	244	35	10_{h9}	M12
X120*	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X130***	55_{m6}	110	290	59	16_{h9}	M20	42_{k6}	110	290	45	12_{h9}	M16
X140*	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X150***	70_{m6}	140	348	74.5	20_{h9}	M20	55_{m6}	110	318	59	16_{h9}	M20
X160*	70_{m6}	140	382	74.5	20_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20
X170***	70_{m6}	140	382	74.5	20_{h9}	M20	70_{m6}	140	382	74.5	20_{h9}	M20

X2F..	i = 6.3 ... 11.2* / i = 7.1 ... 12.5**						i = 12.5 ... 18* / i = 14 ... 20**					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X180*	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X190**	90_{m6}	170	445	95	25_{h9}	M24	75_{m6}	140	415	79.5	20_{h9}	M20
X200*	90_{m6}	170	464	95	25_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24
X210**	90_{m6}	170	464	95	25_{h9}	M24	90_{m6}	170	464	95	25_{h9}	M24
X220*	100_{m6}	210	538	106	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X230**	100_{m6}	210	538	106	28_{h9}	M24	100_{m6}	210	538	106	28_{h9}	M24
X240*	110_{m6}	210	583	116	28_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24
X250**	110_{m6}	210	583	116	28_{h9}	M24	110_{m6}	210	583	116	28_{h9}	M24

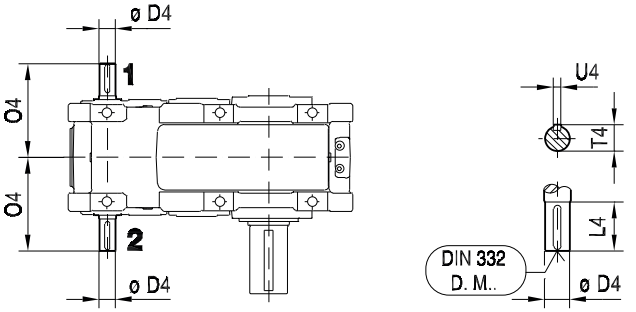
X2F..	i = 6.3 ... 11.2* / i = 7.1 ... 12.5** / i = 8 ... 14***						i = 12.5 ... 18* / i = 14 ... 20** / i = 16 ... 22.4***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X260*	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X270**	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X280***	130_{m6}	250	673	137	32_{h9}	M24	120_{m6}	210	633	127	32_{h9}	M24
X290*	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X300**	150_{m6}	250	713	158	36_{h9}	M30	150_{m6}	250	713	158	36_{h9}	M30
X310*	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30
X320**	170_{m6}	300	795	179	40_{h9}	M30	170_{m6}	300	795	179	40_{h9}	M30

30593506/EN – 07/2023

14.2.2 X3F..

HSST

48 061 01 09



→ 65

X3F..	i = 20 ... 56* / i = 22.4 ... 63** / i = 25 ... 71***						i = 63 ... 90* / i = 71 ... 100** / i = 80 ... 112***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X100**	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X110***	32_{k6}	80	244	35	10_{h9}	M12	32_{k6}	80	244	35	10_{h9}	M12
X120*	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X130***	38_{k6}	80	258	41	10_{h9}	M12	38_{k6}	80	258	41	10_{h9}	M12
X140*	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X150***	45_{k6}	110	318	48.5	14_{h9}	M16	45_{k6}	110	318	48.5	14_{h9}	M16
X160*	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16
X170***	60_{m6}	140	381	64	18_{h9}	M20	50_{k6}	110	351	53.5	14_{h9}	M16

X3F..	i = 20 ... 56* / i = 22.4 ... 63**						i = 63 ... 90* / i = 71 ... 100**					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X180*	60_{m6}	140	411	64	18_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X190**	60_{m6}	140	411	64	18_{h9}	M20	55_{m6}	110	381	59	16_{h9}	M20
X200*	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20
X210**	75_{m6}	140	430	79.5	20_{h9}	M20	60_{m6}	140	430	64	18_{h9}	M20
X220*	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X230**	80_{m6}	170	487	85	22_{h9}	M20	70_{m6}	140	457	74.5	20_{h9}	M20
X240*	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20
X250**	90_{m6}	170	532	95	25_{h9}	M24	75_{m6}	140	502	79.5	20_{h9}	M20

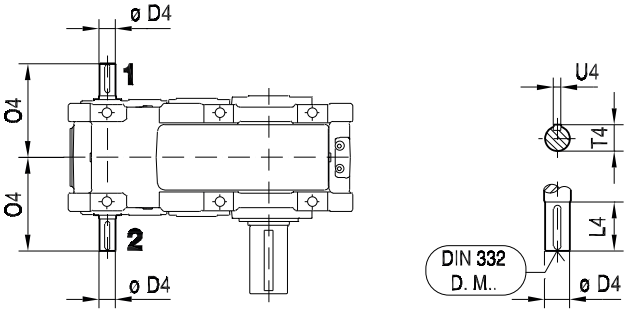
X3F..	i = 20 ... 50* / i = 22.4 ... 56** / i = 25 ... 63***						i = 56 ... 90* / i = 63 ... 100** / i = 71 ... 112***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X260*	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X270**	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X280***	100_{m6}	210	613	106	28_{h9}	M24	80_{m6}	170	573	85	22_{h9}	M20
X290*	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X300**	100_{m6}	210	661	106	28_{h9}	M24	100_{m6}	210	661	106	28_{h9}	M24
X310*	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24
X320**	110_{m6}	210	694	116	28_{h9}	M24	110_{m6}	210	694	116	28_{h9}	M24

30593506/EN – 07/2023

14.2.3 X4F..

HSST

48 061 01 09



→ 65

X4F..	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X120*	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X130***	28_{k6}	60	238	31	8_{h9}	M10	28_{k6}	60	238	31	8_{h9}	M10
X140*	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X150***	32_{k6}	80	288	35	10_{h9}	M12	32_{k6}	80	288	35	10_{h9}	M12
X160*	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12
X170***	38_{k6}	80	320	41	10_{h9}	M12	38_{k6}	80	320	41	10_{h9}	M12

X4F..	i = 100 ... 180* / i = 112 ... 200**						i = 200 ... 355* / i = 224 ... 400**					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X180*	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X190**	50_{k6}	110	381	53.5	14_{h9}	M16	38_{k6}	80	351	41	10_{h9}	M12
X200*	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16
X210**	55_{m6}	110	400	59	16_{h9}	M20	42_{k6}	110	400	45	12_{h9}	M16
X220*	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X230**	60_{m6}	140	457	64	18_{h9}	M20	50_{k6}	110	427	53.5	14_{h9}	M16
X240*	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20
X250**	70_{m6}	140	502	74.5	20_{h9}	M20	55_{m6}	110	472	59	16_{h9}	M20

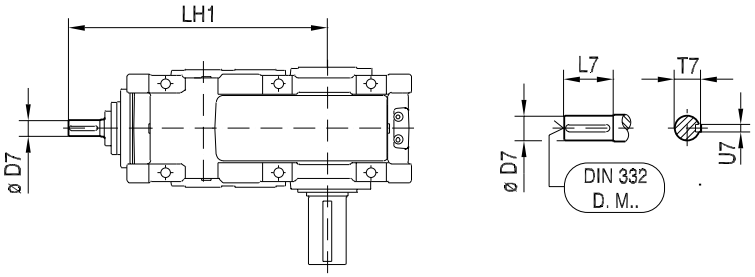
X4F..	i = 100 ... 180* / i = 112 ... 200** / i = 125 ... 224***						i = 200 ... 355* / i = 224 ... 400** / i = 250 ... 450***					
	Ø D4	L4	O4	T4	U4	DIN 332 D. M..	Ø D4	L4	O4	T4	U4	DIN 332 D. M..
X260*	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X270**	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X280***	75_{m6}	140	543	79.5	20_{h9}	M20	60_{m6}	140	543	64	18_{h9}	M20
X290*	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X300**	80_{m6}	170	614	85	22_{h9}	M20	80_{m6}	170	614	85	22_{h9}	M20
X310*	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24
X320**	90_{m6}	170	645	95	25_{h9}	M24	90_{m6}	170	645	95	25_{h9}	M24

30593506/EN – 07/2023

14.3 Optional input shaft ends X2K.., X3K.. and X4K.. /HSS [mm]

HSS

48 018 00 18



X2K..	Ø D7	L7	LH1	T7	U7	DIN 332 D.M..
X100	50_{k6}	140	685	53.5	14_{h9}	M16
X110	50_{k6}	140	705	53.5	14_{h9}	M16
X120	60_{m6}	180	792	64	18_{h9}	M20
X130	60_{m6}	180	828	64	18_{h9}	M20
X140	70_{m6}	200	876	74.5	20_{h9}	M20
X150	70_{m6}	200	918	74.5	20_{h9}	M20
X160	85_{m6}	210	1050	90	22_{h9}	M20
X170	85_{m6}	210	1101	90	22_{h9}	M20
X180	100_{m6}	250	1177	106	28_{h9}	M24
X190	100_{m6}	250	1209	106	28_{h9}	M24
X200	110_{m6}	300	1358	116	28_{h9}	M24
X210	110_{m6}	300	1394	116	28_{h9}	M24
X220	120_{m6}	320	1546	127	32_{h9}	M24
X230	120_{m6}	320	1586	127	32_{h9}	M24
X240	130_{m6}	340	1606	137	32_{h9}	M24
X250	130_{m6}	340	1629	137	32_{h9}	M24

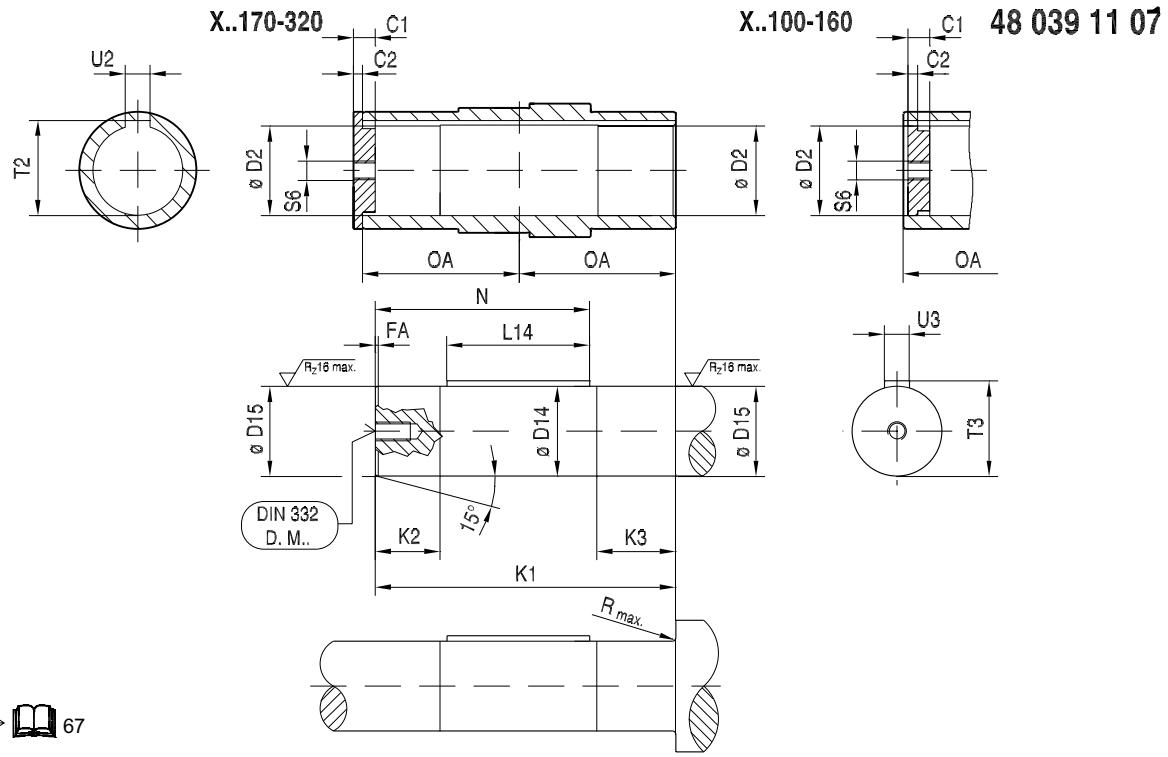
X3K..	Ø D7	L7	LH1	T7	U7	DIN 332 D.M..
X100	32_{k6}	100	652	35	10_{h9}	M12
X110	32_{k6}	100	672	35	10_{h9}	M12
X120	38_{m6}	130	775	41	10_{h9}	M12
X130	38_{m6}	130	811	41	10_{h9}	M12
X140	50_{k6}	140	909	53.5	14_{h9}	M16
X150	50_{k6}	140	951	53.5	14_{h9}	M16
X160	60_{m6}	180	1076	64	18_{h9}	M20
X170	60_{m6}	180	1127	64	18_{h9}	M20
X180	70_{m6}	200	1195	74.5	20_{h9}	M20
X190	70_{m6}	200	1227	74.5	20_{h9}	M20
X200	80_{m6}	200	1316	85	22_{h9}	M20
X210	80_{m6}	200	1352	85	22_{h9}	M20
X220	85_{m6}	210	1470	90	22_{h9}	M20
X230	85_{m6}	210	1510	90	22_{h9}	M20
X240	100_{m6}	250	1637	106	28_{h9}	M24
X250	100_{m6}	250	1660	106	28_{h9}	M24
X260	110_{m6}	300	1857	116	28_{h9}	M24
X270	110_{m6}	300	1892	116	28_{h9}	M24
X280	110_{m6}	300	1944	116	28_{h9}	M24
X290	120_{m6}	320	2131	127	32_{h9}	M24
X300	120_{m6}	320	2160	127	32_{h9}	M24
X310	130_{m6}	340	2265	137	32_{h9}	M24
X320	130_{m6}	340	2299	137	32_{h9}	M24

30593506/EN – 07/2023

X4K..	Ø D7	L7	LH1	T7	U7	DIN 332 D.M..
X240	100_{m6}	200	1655	106	28_{h9}	M24
X250	100_{m6}	200	1678	106	28_{h9}	M24
X260	110_{m6}	200	1815	116	28_{h9}	M24
X270	110_{m6}	200	1850	116	28_{h9}	M24
X280	110_{m6}	200	1902	116	28_{h9}	M24
X290	120_{m6}	210	2055	127	32_{h9}	M24
X300	120_{m6}	210	2084	127	32_{h9}	M24
X310	130_{m6}	250	2296	137	32_{h9}	M24
X320	130_{m6}	250	2330	137	32_{h9}	M24

30593506/EN – 07/2023

14.4 Hollow shaft with keyway /..A [mm]



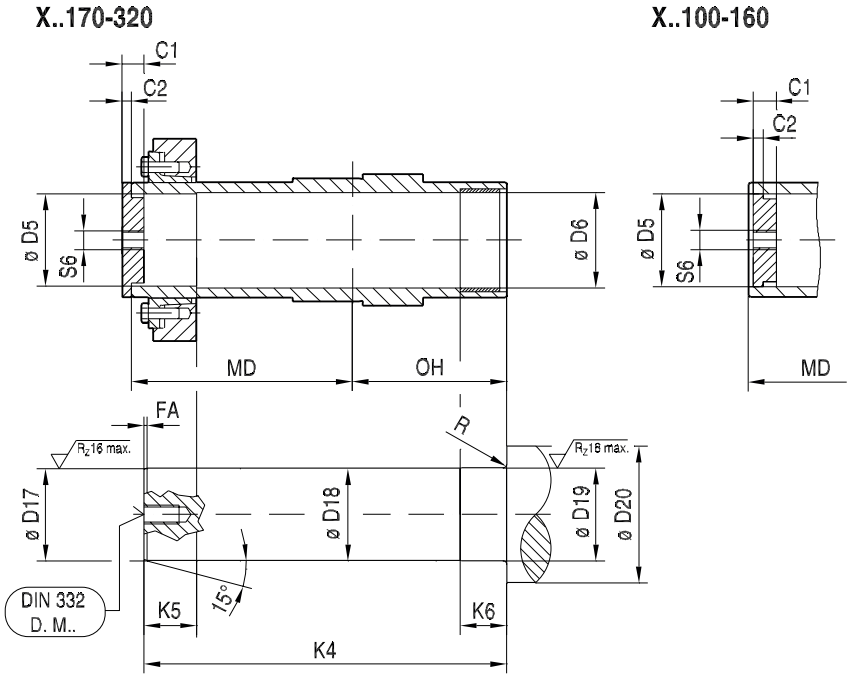
→ 📖 67

	C1	C2	ØD2	ØD14	ØD15	FA	K1	K2	K3	L14	N	OA	$R_{max.}$	S6	T2	T3	U2	U3	DIN 332 D.M..
X100	25	12	75^{H8}	75_{h11}	75_{js7}	2	312	47.5	81	120	220	173	1.6	M24	79.9	79.5	20^{JS9}	20_{h9}	M20
X110	30	14	85^{H8}	85_{h11}	85_{js7}	2	312.5	45	84	100	210	176	1.6	M30	90.4	90	22^{JS9}	22_{h9}	M24
X120	30	14	95^{H8}	95_{h11}	95_{js7}	2	342	53	92	140	244.5	190.5	1.6	M30	100.4	100	25^{JS9}	25_{h9}	M24
X130	30	14	105^{H8}	105_{h11}	105_{js7}	2	347	68	109	160	258	194	1.6	M30	111.4	111	28^{JS9}	28_{h9}	M24
X140	30	14	115^{H8}	115_{h11}	115_{js7}	2	403	61	102	200	306	222	1.6	M30	122.4	122	32^{JS9}	32_{h9}	M24
X150	30	14	125^{H8}	125_{h11}	125_{js7}	3	408	76	117	200	308.5	224.5	1.6	M30	132.4	132	32^{JS9}	32_{h9}	M24
X160	36	16	135^{H8}	135_{h11}	135_{js7}	3	465	80	127	250	361	256	1.6	M36	143.4	143	36^{JS9}	36_{h9}	M30
X170	36	17	150^{H8}	150_{h11}	150_{js7}	3	493	96	115	280	377	256	1.6	M36	158.4	158	36^{JS9}	36_{h9}	M30
X180	36	17	165^{H8}	165_{h11}	165_{js7}	3	565	109	128	300	423	292	2	M36	174.4	174	40^{JS9}	40_{h9}	M30
X190	36	17	165^{H8}	165_{h11}	165_{js7}	3	565	109	128	300	423	292	2	M36	174.4	174	40^{JS9}	40_{h9}	M30
X200	36	17	180^{H8}	180_{h11}	180_{js7}	3	620	130	149	320	460.5	319.5	2	M36	190.4	190	45^{JS9}	45_{h9}	M30
X210	36	17	190^{H8}	190_{h11}	190_{js7}	3	620	130	149	320	460.5	319.5	2	M36	200.4	200	45^{JS9}	45_{h9}	M30
X220	36	17	210^{H8}	210_{h11}	210_{js7}	3	686	133	152	370	518.5	352.5	2.5	M36	221.4	221	50^{JS9}	50_{h9}	M30
X2KA220	36	17	210^{H8}	210_{h11}	210_{js7}	3	756	133	152	370	554	387.5	2.5	M36	221.4	221	50^{JS9}	50_{h9}	M30
X230	36	17	210^{H8}	210_{h11}	210_{js7}	3	686	133	152	370	518.5	352.5	2.5	M36	221.4	221	50^{JS9}	50_{h9}	M30
X2KA230	36	17	210^{H8}	210_{h11}	210_{js7}	3	756	133	152	370	554	387.5	2.5	M36	221.4	221	50^{JS9}	50_{h9}	M30
X240	45	22	230^{H8}	230_{h11}	230_{js7}	3	778	147	170	370	562.5	400.5	2.5	M42	241.4	241	50^{JS9}	50_{h9}	M36
X2KA240	45	22	230^{H8}	230_{h11}	230_{js7}	3	853	147	170	370	600	438	2.5	M42	241.4	241	50^{JS9}	50_{h9}	M36
X250	45	22	240^{H8}	240_{h11}	240_{js7}	3	778	147	170	370	562.5	400.5	2.5	M42	252.4	252	56^{JS9}	56_{h9}	M36
X2KA250	45	22	240^{H8}	240_{h11}	240_{js7}	3	853	147	170	370	600	438	2.5	M42	252.4	252	56^{JS9}	56_{h9}	M36
X260	45	22	240^{H8}	240_{h11}	240_{js7}	3	851	143	166	450	639	437	2.5	M42	252.4	252	56^{JS9}	56_{h9}	M36
X270	45	22	275^{H8}	275_{h11}	275_{js7}	4	877	158	181	450	652	450	5	M42	287.4	287	63^{JS9}	63_{h9}	M36
X280	45	22	275^{H8}	275_{h11}	275_{js7}	4	877	158	181	500	677	450	5	M42	287.4	287	63^{JS9}	63_{h9}	M36
X290	45	22	290^{H8}	290_{h11}	290_{js7}	4	961	160	183	500	719	492	5	M42	302.4	302	63^{JS9}	63_{h9}	M36
X300	45	22	290^{H8}	290_{h11}	290_{js7}	4	961	160	183	500	719	492	5	M42	302.4	302	63^{JS9}	63_{h9}	M36
X310	55	28	320^{H8}	320_{h11}	320_{js7}	4	1030	170	197	560	781.5	528.5	5	M48	334.4	334	70^{JS9}	70_{h9}	M42
X320	55	28	320^{H8}	320_{h11}	320_{js7}	4	1030	170	197	560	781.5	528.5	5	M48	334.4	334	70^{JS9}	70_{h9}	M42

30593506/EN – 07/2023

14.5 Hollow shaft with shrink disk /..H [mm]

48 040 05 07

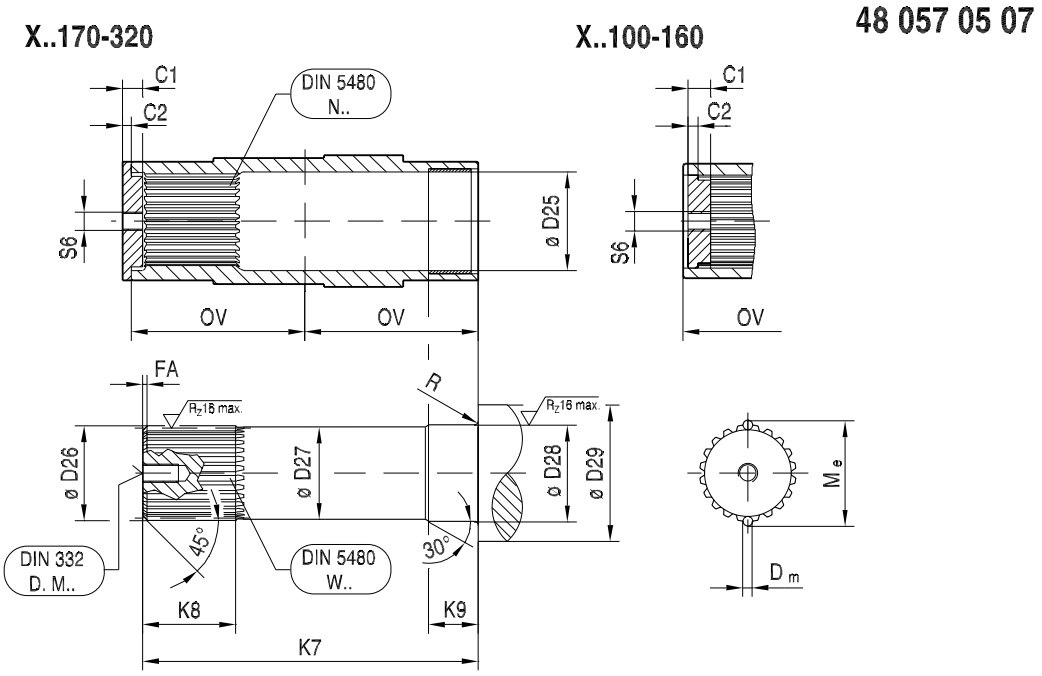


→ 68

	C1	C2	Ø D5	Ø D6	Ø D17	Ø D18	Ø D19	Ø D20	FA	K4	K5	K6	MD	OH	R	S6	DIN 332 D.M..
X100	30	14	80^{H7}	81^{H9}	80_{h6}	80_{h11}	81_{m6}	95	2	394.5_{-1}	46	42_{-1}	261	173	3	M30	M24
X110	30	14	90^{H7}	91^{H9}	90_{h6}	90_{h11}	91_{m6}	105	2	400.5_{-1}	46	42_{-1}	265	176	3	M30	M24
X120	30	14	100^{H7}	101^{H9}	100_{h6}	100_{h11}	101_{m6}	115	2	437_{-1}	51	52_{-1}	286.5	190.5	3	M30	M24
X130	30	14	110^{H7}	111^{H9}	110_{h6}	110_{h11}	111_{m6}	125	2	449_{-1}	55	52_{-1}	297	194	3	M30	M24
X140	30	14	120^{H7}	121^{H9}	120_{h6}	120_{h11}	121_{m6}	135	2	509_{-1}	59	62_{-1}	329	222	3	M30	M24
X150	30	14	130^{H7}	131^{H9}	130_{h6}	130_{h11}	131_{m6}	145	3	520_{-1}	66	62_{-1}	337.5	224.5	3	M30	M24
X160	36	16	140^{H7}	141^{H9}	140_{h6}	140_{h11}	141_{m6}	155	3	583_{-1}	66	73_{-1}	375	256	4	M36	M30
X170	36	17	150^{H7}	151^{H9}	150_{h6}	150_{h11}	151_{m6}	165	3	600_{-1}	83	73_{-1}	364	256	4	M36	M30
X180	36	17	165^{H7}	166^{H9}	165_{g6}	165_{h11}	166_{m6}	180	3	672_{-1}	83	83_{-1}	400	292	4	M36	M30
X190	36	17	165^{H7}	166^{H9}	165_{g6}	165_{h11}	166_{m6}	180	3	672_{-1}	83	83_{-1}	400	292	4	M36	M30
X200	36	17	180^{H7}	181^{H9}	180_{g6}	180_{h11}	181_{m6}	195	3	750_{-1}	101	83_{-1}	450.5	319.5	4	M36	M30
X210	36	17	190^{H7}	191^{H9}	190_{g6}	190_{h11}	191_{m6}	205	3	753_{-1}	106	83_{-1}	453.5	319.5	4	M36	M30
X220	36	17	210^{H7}	211^{H9}	210_{g6}	210_{h11}	211_{m6}	230	3	830_{-1}	118	108_{-1}	497.5	352.5	5	M36	M30
X2KH220	36	17	210^{H7}	211^{H9}	210_{g6}	210_{h11}	211_{m6}	230	3	900_{-1}	118	108_{-1}	532.5	387.5	5	M36	M30
X230	36	17	210^{H7}	211^{H9}	210_{g6}	210_{h11}	211_{m6}	230	3	830_{-1}	118	108_{-1}	497.5	352.5	5	M36	M30
X2KH230	36	17	210^{H7}	211^{H9}	210_{g6}	210_{h11}	211_{m6}	230	3	900_{-1}	118	108_{-1}	532.5	387.5	5	M36	M30
X240	45	22	230^{H7}	231^{H9}	230_{g6}	230_{h11}	231_{m6}	250	3	948_{-1}	140	108_{-1}	571.5	400.5	5	M42	M36
X2KH240	45	22	230^{H7}	231^{H9}	230_{g6}	230_{h11}	231_{m6}	250	3	1023_{-1}	140	108_{-1}	609	438	5	M42	M36
X250	45	22	240^{H7}	241^{H9}	240_{g6}	240_{h11}	241_{m6}	260	3	948_{-1}	140	108_{-1}	571.5	400.5	5	M42	M36
X2KH250	45	22	240^{H7}	241^{H9}	240_{g6}	240_{h11}	241_{m6}	260	3	1023_{-1}	140	108_{-1}	609	438	5	M42	M36
X260	45	22	250^{H7}	255^{H9}	250_{g6}	250_{h11}	255_{m6}	280	4	1021_{-1}	140	108_{-1}	608	437	5	M42	M36
X270	45	22	280^{H7}	285^{H9}	280_{g6}	280_{h11}	285_{m6}	310	4	1056_{-1}	146	143_{-1}	630	450	5	M42	M36
X280	45	22	280^{H7}	285^{H9}	280_{g6}	280_{h11}	285_{m6}	310	4	1056_{-1}	146	143_{-1}	630	450	5	M42	M36
X290	45	22	300^{H7}	305^{H9}	300_{g6}	300_{h11}	305_{m6}	330	4	1147_{-1}	152	143_{-1}	679	492	5	M42	M36
X300	45	22	300^{H7}	305^{H9}	300_{g6}	300_{h11}	305_{m6}	330	4	1147_{-1}	152	143_{-1}	679	492	5	M42	M36
X310	55	28	320^{H7}	325^{H9}	320_{g6}	320_{h11}	325_{m6}	350	4	1241_{-1}	165	143_{-1}	740.5	528.5	5	M48	M42
X320	55	28	320^{H7}	325^{H9}	320_{g6}	320_{h11}	325_{m6}	350	4	1241_{-1}	165	143_{-1}	740.5	528.5	5	M48	M42

30593506/EN – 07/2023

14.6 Splined hollow shaft /..V [mm]



	Ø D25	Ø D26	Ø D27	Ø D28	Ø D29	FA	K7	K8	K9
X100	81^{H9}	74.4_{h10}	73	81_{m6}	95	3	306_{-1}	81	42_{-1}
X110	91^{H9}	84.4_{h10}	83	91_{m6}	105	3	311.5_{-1}	81	42_{-1}
X120	101^{H9}	94.4_{h10}	93	101_{m6}	115	3	341_{-1}	91	52_{-1}
X130	111^{H9}	109.4_{h10}	108	111_{m6}	125	3	346_{-1}	86	52_{-1}
X140	121^{H9}	119.4_{h10}	118	121_{m6}	135	3	402_{-1}	101	62_{-1}
X150	131^{H9}	129.4_{h10}	128	131_{m6}	145	3	407_{-1}	101	62_{-1}
X160	141^{H9}	139.4_{h10}	138	141_{m6}	155	3	464_{-1}	111	73_{-1}
X170	151^{H9}	149.4_{h10}	148	151_{m6}	165	3	492_{-1}	121	73_{-1}
X180	166^{H9}	159_{h10}	158	166_{m6}	180	5	564_{-1}	166	83_{-1}
X190	166^{H9}	159_{h10}	158	166_{m6}	180	5	564_{-1}	166	83_{-1}
X200	191^{H9}	179_{h10}	178	191_{m6}	205	5	619_{-1}	176	83_{-1}
X210	191^{H9}	179_{h10}	178	191_{m6}	205	5	619_{-1}	176	83_{-1}
X220	211^{H9}	199_{h10}	198	211_{m6}	230	5	685_{-1}	201	108_{-1}
X2KV220	211^{H9}	199_{h10}	198	211_{m6}	230	5	755_{-1}	201	108_{-1}
X230	211^{H9}	199_{h10}	198	211_{m6}	230	5	685_{-1}	201	108_{-1}
X2KV230	211^{H9}	199_{h10}	198	211_{m6}	230	5	755_{-1}	201	108_{-1}
X240	231^{H9}	219_{h10}	218	231_{m6}	250	5	777_{-1}	216	108_{-1}
X2KV240	231^{H9}	219_{h10}	218	231_{m6}	250	5	852_{-1}	216	108_{-1}
X250	241^{H9}	219_{h10}	218	241_{m6}	260	5	777_{-1}	216	108_{-1}
X2KV250	241^{H9}	219_{h10}	218	241_{m6}	260	5	852_{-1}	216	108_{-1}
X260	255^{H9}	239_{h10}	238	255_{m6}	275	5	850_{-1}	216	108_{-1}
X270	285^{H9}	258.4_{h10}	258	285_{m6}	305	8	876_{-1}	248	143_{-1}
X280	285^{H9}	258.4_{h10}	258	285_{m6}	305	8	876_{-1}	248	143_{-1}
X290	305^{H9}	278.4_{h10}	278	305_{m6}	325	8	960_{-1}	268	143_{-1}
X300	305^{H9}	278.4_{h10}	278	305_{m6}	325	8	960_{-1}	268	143_{-1}
X310	325^{H9}	298.4_{h10}	298	325_{m6}	345	8	1029_{-1}	318	143_{-1}
X320	325^{H9}	298.4_{h10}	298	325_{m6}	345	8	1029_{-1}	318	143_{-1}

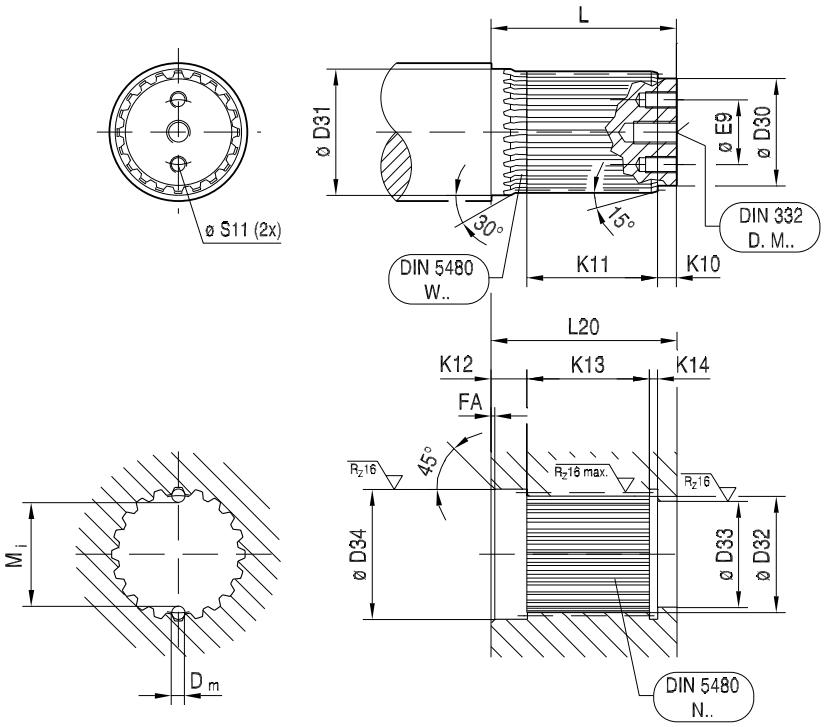
30593506/EN – 07/2023

	Dm	M e	OV	R	C1	C2	S6	DIN 332 D.M..	DIN 5480
X100	6	$81.326^{-0.069}_{-0.125}$	173	3	30	14	M30	M24	W 75x3x30x24x8f N 75x3x30x24x9H
X110	6	$91.092^{-0.068}_{-0.123}$	176	3	30	14	M30	M24	W 85x3x30x27x8f N 85x3x30x27x9H
X120	6	$101.141^{-0.068}_{-0.122}$	190.5	3	30	14	M30	M24	W 95x3x30x30x8f N 95x3x30x30x9H
X130	6	$116.076^{-0.078}_{-0.139}$	194	3	30	14	M30	M24	W 110x3x30x35x8f N 110x3x30x35x9H
X140	6	$126.095^{-0.078}_{-0.138}$	222	3	30	14	M30	M24	W 120x3x30x38x8f N 120x3x30x38x9H
X150	6	$136.329^{-0.081}_{-0.144}$	224.5	3	30	14	M30	M24	W 130x3x30x42x8f N 130x3x30x42x9H
X160	6	$146.167^{-0.080}_{-0.143}$	256	4	36	16	M36	M30	W 140x3x30x45x8f N 140x3x30x45x9H
X170	6	$156.172^{-0.079}_{-0.141}$	256	4	36	17	M36	M30	W 150x3x30x48x8f N 150x3x30x48x9H
X180	10	$170.009^{-0.086}_{-0.152}$	292	4	36	17	M36	M30	W 160x5x30x30x8f N 160x5x30x30x9H
X190	10	$170.009^{-0.086}_{-0.152}$	292	4	36	17	M36	M30	W 160x5x30x30x8f N 160x5x30x30x9H
X200	10	$190.090^{-0.087}_{-0.155}$	319.5	4	36	17	M36	M30	W 180x5x30x34x8f N 180x5x30x34x9H
X210	10	$190.090^{-0.087}_{-0.155}$	319.5	4	36	17	M36	M30	W 180x5x30x34x8f N 180x5x30x34x9H
X220	10	$210.158^{-0.088}_{-0.157}$	352.5	5	36	17	M36	M30	W 200x5x30x38x8f N 200x5x30x38x9H
X2KV220	10	$210.158^{-0.088}_{-0.157}$	387.5	5	36	17	M36	M30	W 200x5x30x38x8f N 200x5x30x38x9H
X230	10	$210.158^{-0.088}_{-0.157}$	352.5	5	36	17	M36	M30	W 200x5x30x38x8f N 200x5x30x38x9H
X2KV230	10	$210.158^{-0.088}_{-0.157}$	387.5	5	36	17	M36	M30	W 200x5x30x38x8f N 200x5x30x38x9H
X240	10	$230.215^{-0.102}_{-0.179}$	400.5	5	45	22	M42	M36	W 220x5x30x42x8f N 220x5x30x42x9H
X2KV240	10	$230.215^{-0.102}_{-0.179}$	438	5	45	22	M42	M36	W 220x5x30x42x8f N 220x5x30x42x9H
X250	10	$230.215^{-0.102}_{-0.179}$	400.5	5	45	22	M42	M36	W 220x5x30x42x8f N 220x5x30x42x9H
X2KV250	10	$230.215^{-0.102}_{-0.179}$	438	5	45	22	M42	M36	W 220x5x30x42x8f N 220x5x30x42x9H
X260	10	$250.264^{-0.102}_{-0.180}$	437	5	45	22	M42	M36	W 240x5x30x46x8f N 240x5x30x46x9H
X270	16	$276.230^{-0.101}_{-0.177}$	450	5	45	22	M42	M36	W 260x8x30x31x8f N 260x8x30x31x9H
X280	16	$276.230^{-0.101}_{-0.177}$	450	5	45	22	M42	M36	W 260x8x30x31x8f N 260x8x30x31x9H
X290	16	$297.014^{-0.105}_{-0.184}$	492	5	45	22	M42	M36	W 280x8x30x34x8f N 280x8x30x34x9H
X300	16	$297.014^{-0.105}_{-0.184}$	492	5	45	22	M42	M36	W 280x8x30x34x8f N 280x8x30x34x9H
X310	16	$316.655^{-0.102}_{-0.180}$	528.5	5	55	28	M48	M42	W 300x8x30x36x8f N 300x8x30x36x9H
X320	16	$316.655^{-0.102}_{-0.180}$	528.5	5	55	28	M48	M42	W 300x8x30x36x8f N 300x8x30x36x9H

30593506/EN – 07/2023

14.7 Splined solid shaft /..L [mm]

48 084 05 07



	Ø D30	Ø D31	Ø D32	Ø D33	Ø D34	Ø E9	FA	K10	K11	K12	K13	K14
X100	60_{k6}	80_{k6}	69^{H10}	60^{H7}	80^{H7}	-	2	12	71	28	65	10
X110	70_{k6}	90_{k6}	79^{H10}	70^{H7}	90^{H7}	-	2	12	71	28	65	10
X120	85_{k6}	105_{k6}	94^{H10}	85^{H7}	105^{H7}	-	2	15	76	31	70	10
X130	95_{k6}	115_{k6}	104^{H10}	95^{H7}	115^{H7}	-	2	15	81	31	75	10
X140	100_{k6}	125_{k6}	110^{H10}	100^{H7}	125^{H7}	-	2	20	103	38	95	12
X150	110_{k6}	135_{k6}	120^{H10}	110^{H7}	135^{H7}	-	2	20	108	38	100	12
X160	120^{k6}	145_{k6}	130^{H10}	120^{H7}	145^{H7}	-	2	25	118	43	110	12
X170	130_{k6}	155_{k6}	140^{H10}	130^{H7}	155^{H7}	-	2	25	128	43	120	12
X180	140_{k6}	165_{k6}	150^{H10}	140^{H7}	165^{H7}	80	3	25	163	48	155	12
X190	140_{k6}	165_{k6}	150^{H10}	140^{H7}	165^{H7}	80	3	25	163	48	155	12
X200	155_{k6}	185_{k6}	170^{H10}	155^{H7}	185^{H7}	95	3	25	173	48	165	12
X210	155_{k6}	185_{k6}	170^{H10}	155^{H7}	185^{H7}	95	3	25	173	48	165	12
X220	195_{k6}	225_{k6}	210^{H10}	195^{H7}	225^{H7}	125	3	30	163	53	155	12
X230	195_{k6}	225_{k6}	210^{H10}	195^{H7}	225^{H7}	125	3	30	163	53	155	12
X240	225_{k6}	255_{k6}	240^{H10}	225^{H7}	25^{H7}	140	3	35	168	58	160	12
X250	225_{k6}	255_{k6}	240^{H10}	225^{H7}	255^{H7}	140	3	35	168	58	160	12
X260	230_{k6}	265_{k6}	244^{H10}	230^{H7}	265^{H7}	160	3	35	193	64	183	12
X270	250_{k6}	285_{k6}	264^{H10}	250^{H7}	285^{H7}	160	3	35	203	64	193	12
X280	250_{k6}	285_{k6}	264^{H10}	250^{H7}	285^{H7}	160	3	35	203	64	193	12
X290	270_{k6}	305_{k6}	284^{H10}	270^{H7}	305^{H7}	190	3	40	233	69	223	12
X300	270_{k6}	305_{k6}	284^{H10}	270^{H7}	305^{H7}	190	3	40	233	69	223	12
X310	310_{k6}	345_{k6}	324^{H10}	310^{H7}	345^{H7}	220	3	40	243	69	233	12
X320	310_{k6}	345_{k6}	324^{H10}	310^{H7}	345^{H7}	220	3	40	243	69	233	12

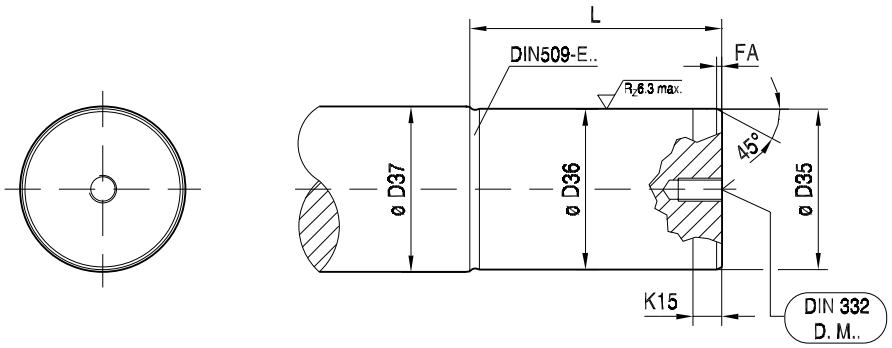
30593506/EN – 07/2023

	L	L20	Dm	M i	Ø S11 (2x)	DIN 332 D.M..	DIN 5480
X100	110	111^{+1}	5.25	$63.932^{0.160}_{0.060}$	-	M20	W 75x3x30x24x8m N 75x3x30x24x9H
X110	110	111^{+1}	5.25	$73.922^{0.148}_{0.056}$	-	M20	W 85x3x30x27x8m N 85x3x30x27x9H
X120	121	122^{+1}	5.25	$89.066^{0.146}_{0.055}$	-	M20	W 100x3x30x32x8m N 100x3x30x32x9H
X130	126	127^{+1}	5.25	$99.001^{0.158}_{0.060}$	-	M24	W 110x3x30x35x8m N 110x3x30x35x9H
X140	160	161^{+1}	9	$101.103^{0.173}_{0.064}$	-	M24	W 120x5x30x22x8m N 120x5x30x22x9H
X150	165	166^{+1}	9	$111.103^{0.173}_{0.064}$	-	M24	W 130x5x30x24x8m N 130x5x30x24x9H
X160	185	186^{+1}	9	$121.003^{0.173}_{0.064}$	-	M24	W 140x5x30x26x8m N 140x5x30x26x9H
X170	195	196^{+1}	9	$131.103^{0.173}_{0.064}$	-	M24	W 150x5x30x28x8m N 150x5x30x28x9H
X180	230	231^{+1}	9	$141.103^{0.173}_{0.064}$	M24x30	M30	W 160x5x30x30x8m N 160x5x30x30x9H
X190	230	231^{+1}	9	$141.103^{0.173}_{0.064}$	M24x30	M30	W 160x5x30x30x8m N 160x5x30x30x9H
X200	240	241^{+1}	9	$161.103^{0.173}_{0.064}$	M24x30	M30	W 180x5x30x34x8m N 180x5x30x34x9H
X210	240	241^{+1}	9	$161.103^{0.173}_{0.064}$	M24x30	M30	W 180x5x30x34x8m N 180x5x30x34x9H
X220	240	241^{+1}	9	$201.103^{0.194}_{0.071}$	M24x30	M30	W 220x5x30x42x8m N 220x5x30x42x9H
X230	240	241^{+1}	9	$201.103^{0.194}_{0.071}$	M24x30	M30	W 220x5x30x42x8m N 220x5x30x42x9H
X240	255	256^{+1}	9	$231.103^{0.194}_{0.071}$	M30x36	M36	W 250x5x30x48x8m N 250x5x30x48x9H
X250	255	256^{+1}	9	$231.103^{0.194}_{0.071}$	M30x36	M36	W 250x5x30x48x8m N 250x5x30x48x9H
X260	283	284^{+1}	14	$230.592^{0.202}_{0.074}$	M30x36	M36	W 260x8x30x31x8m N 260x8x30x31x9H
X270	293	294^{+1}	14	$250.650^{0.213}_{0.078}$	M30x36	M36	W 280x8x30x34x8m N 280x8x30x34x9H
X280	293	294^{+1}	14	$250.650^{0.213}_{0.078}$	M30x36	M36	W 280x8x30x34x8m N 280x8x30x34x9H
X290	333	334^{+1}	14	$270.915^{0.200}_{0.073}$	M30x36	M36	W 300x8x30x36x8m N 300x8x30x36x9H
X300	333	334^{+1}	14	$270.915^{0.200}_{0.073}$	M30x36	M36	W 300x8x30x36x8m N 300x8x30x36x9H
X310	343	344^{+1}	14	$310.683^{0.199}_{0.073}$	M30x36	M36	W 340x8x30x41x8m N 340x8x30x41x9H
X320	343	344^{+1}	14	$310.683^{0.199}_{0.073}$	M30x36	M36	W 340x8x30x41x8m N 340x8x30x41x9H

30593506/EN – 07/2023

14.8 Solid shaft, smooth design /..R [mm]

48 016 02 08



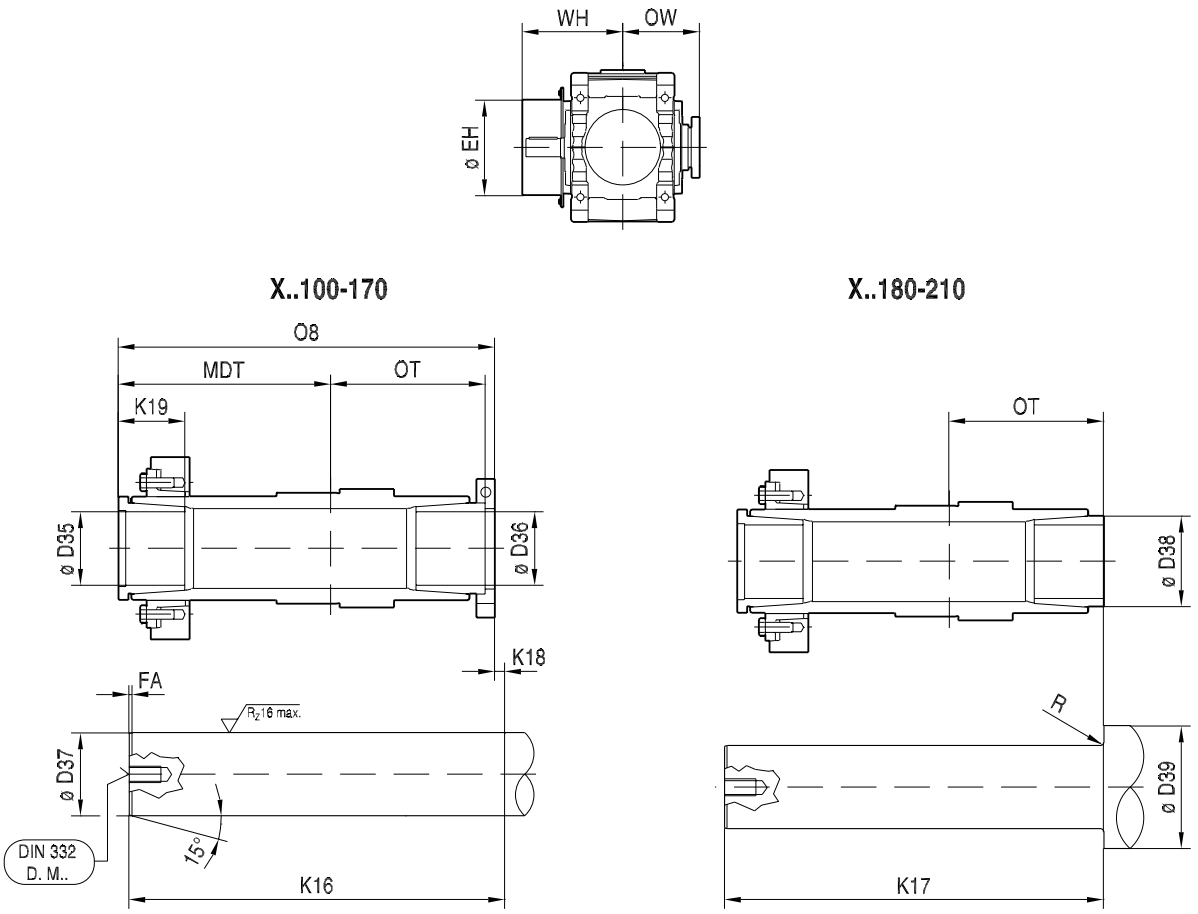
→ 66

	Ø D35	Ø D36	Ø D37	FA	K15	L	DIN 332 D.M..	DIN 509
X100	85_{h9}	85_{v6}	90	2	9	131	M20	E2.5x0.4
X110	85_{h9}	85_{v6}	100	2	9	131	M20	E2.5x0.4
X120	115_{h9}	115_{v6}	120	2	9	165	M24	E2.5x0.4
X130	115_{h9}	115_{v6}	130	2	9	165	M24	E2.5x0.4
X140	135_{h9}	135_{v6}	140	3	11	202	M30	E2.5x0.4
X150	135_{h9}	135_{v6}	160	3	11	202	M30	E2.5x0.4
X160	165_{h9}	165_{v6}	170	3	11	222	M30	E2.5x0.4
X170	165_{h9}	165_{v6}	170	3	11	222	M30	E2.5x0.4
X180	175_{h9}	175_{v6}	180	3	14	253	M30	E2.5x0.4
X190	175_{h9}	175_{v6}	180	3	14	253	M30	E2.5x0.4
X200	195_{h9}	195_{v6}	200	3	14	283	M30	E2.5x0.4
X210	195_{h9}	195_{v6}	200	3	14	283	M30	E2.5x0.4
X220	235_{h9}	235_{v6}	240	3	14	298	M36	E2.5x0.4
X230	235_{h9}	235_{v6}	240	3	14	298	M36	E2.5x0.4
X240	275_{h9}	275_{v6}	280	4	14	318	M36	E2.5x0.4
X250	275_{h9}	275_{v6}	280	4	14	318	M36	E2.5x0.4
X260	275_{h9}	275_{v6}	280	4	14	318	M36	E2.5x0.4
X270	295_{h9}	295_{v6}	300	4	19	343	M36	E2.5x0.4
X280	295_{h9}	295_{v6}	300	4	19	343	M36	E2.5x0.4
X290	315_{h9}	315_{v6}	320	4	19	373	M36	E2.5x0.4
X300	315_{h9}	315_{v6}	320	4	19	373	M36	E2.5x0.4
X310	355_{h9}	355_{v6}	360	4	19	413	M42	E2.5x0.4
X320	355_{h9}	355_{v6}	360	4	19	413	M42	E2.5x0.4

30593506/EN – 07/2023

14.9 TorqLOC® hollow shaft mounting system[mm]

48 019 00 18



30593506/EN – 07/2023

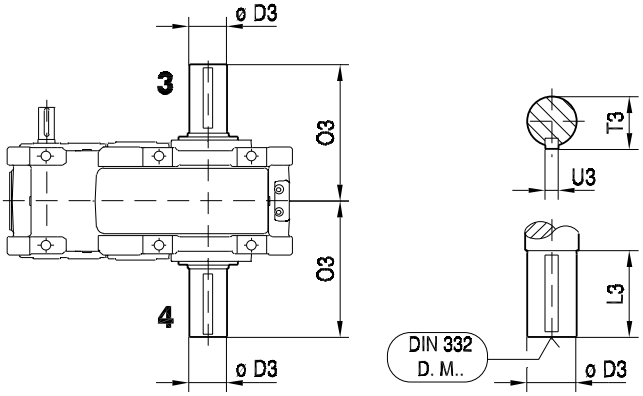
	Ø EH	WH	OW	O8	MT	OT	K19	Ø D35	Ø D36	Ø D37	Ø D38	Ø D39
X100	220	294	202	448	246	192	70	75	75	75_{h11}	91	90
X110	225	298	205	457	252	198	75	80	80	80_{h11}	101	95
	225	298	205	457	252	198	75	85	85	85_{h11}	101	100
X120	272	319	227	504	277	215	81	90	90	90_{h11}	114,5	105
	272	319	227	504	277	215	81	95	95	95_{h11}	114,5	110
X130	292	328	230	506	276	217	90	100	100	100_{h11}	123	115
	292	328	230	506	276	217	90	105	105	105_{h11}	123	120
X140	304	356	258	573	315	241	95	110	110	110_{h11}	134	125
	304	356	258	573	315	241	95	115	115	115_{h11}	134	130
X150	322	368	267	594	327	253	100	115	115	115_{h11}	146	130
	322	368	267	594	327	253	100	120	120	120_{h11}	146	135
	322	368	267	594	327	253	100	125	125	125_{h11}	146	140
X160	368	427	299	654	355	274	100	125	125	125_{h11}	156	140
	368	427	299	654	355	274	100	130	130	130_{h11}	156	145
	368	427	299	654	355	274	100	135	135	135_{h11}	156	150
X170	368	427	303	691	388	283	125	130	130	130_{h11}	168	145
	368	427	303	691	388	283	125	135	135	135_{h11}	168	150
	368	427	303	691	388	283	125	140	140	140_{h11}	168	155
	368	427	303	691	388	283	125	145	145	145_{h11}	168	160
X180	382	463	334	757	423	314	132	140	140	140_{h11}	184	155
	382	463	334	757	423	314	132	145	145	145_{h11}	184	160
	382	463	334	757	423	314	132	150	150	150_{h11}	184	165
	382	463	334	757	423	314	132	155	155	155_{h11}	184	170
	382	463	334	757	423	314	132	160	160	160_{h11}	184	175
X190	382	463	334	-	423	314	132	150	150	150_{h11}	184	165
	382	463	334	-	423	314	132	155	155	155_{h11}	184	170
	382	463	334	-	423	314	132	160	160	160_{h11}	184	175
X200	446	517	-	-	485	353	128	155	155	155_{h11}	205	170
	446	517	-	-	485	353	128	160	160	160_{h11}	205	175
	446	517	-	-	485	353	128	165	165	165_{h11}	205	180
	446	517	-	-	485	353	128	170	170	170_{h11}	205	185
	446	517	-	-	485	353	128	175	175	175_{h11}	205	190
X210	446	517	-	-	491	356	128	165	165	165_{h11}	215	180
	446	517	-	-	491	356	128	170	170	170_{h11}	215	185
	446	517	-	-	491	356	128	175	175	175_{h11}	215	190
	446	517	-	-	491	356	128	180	180	180_{h11}	215	195
	446	517	-	-	491	356	128	185	185	185_{h11}	215	200

30593506/EN – 07/2023

14.10 Output shaft /LSST [mm]

LSST

48 060 01 09



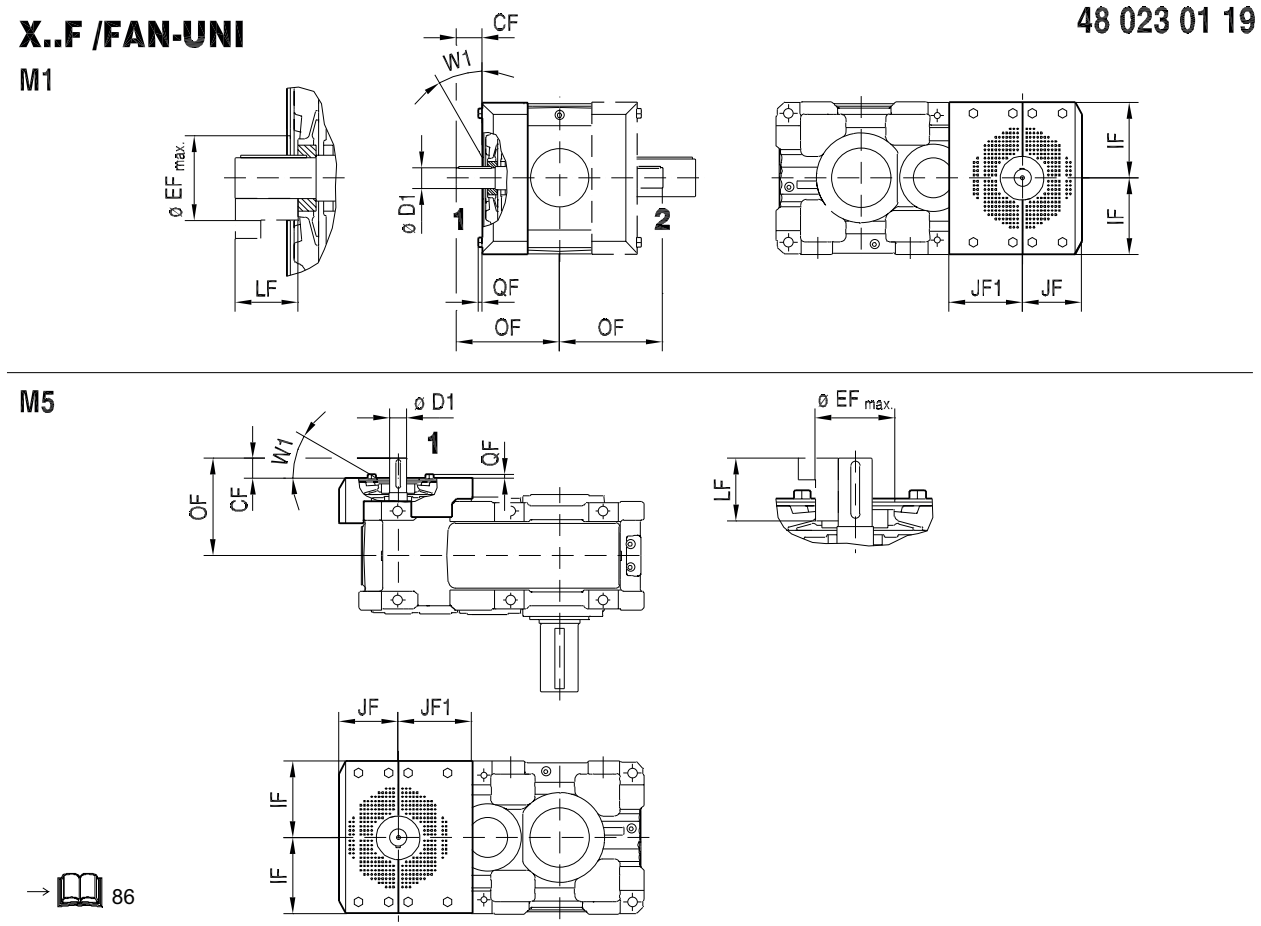
→ 66

	Ø D3	L3	O3	T3	U3	DIN 332 D.M..
X100	80_{m6}	170	343	85	22_{h9}	M20
X110	90_{m6}	170	346	95	25_{h9}	M24
X120	100_{m6}	210	401	106	28_{h9}	M24
X130	110_{m6}	210	404	116	28_{h9}	M24
X140	120_{m6}	210	432	127	32_{h9}	M24
X150	130_{m6}	250	475	137	32_{h9}	M24
X160	140_{m6}	250	506	148	36_{h9}	M30
X170	160_{m6}	300	556	169	40_{h9}	M30
X180	170_{m6}	300	592	179	40_{h9}	M30
X190	170_{m6}	300	592	179	40_{h9}	M30
X200	180_{m6}	300	612	190	45_{h9}	M30
X210	190_{m6}	350	662	200	45_{h9}	M30
X220	210_{m6}	350	703	221	50_{h9}	M30
X2KS220	210_{m6}	350	738	221	50_{h9}	M30
X230	230_{m6}	410	763	241	50_{h9}	M36
X2KS230	230_{m6}	410	798	241	50_{h9}	M36
X240	230_{m6}	410	811	241	50_{h9}	M36
X2KS240	230_{m6}	410	848	241	50_{h9}	M36
X250	240_{m6}	410	811	252	56_{h9}	M36
X2KS250	240_{m6}	410	848	252	56_{h9}	M36
X260	250_{m6}	410	847	262	56_{h9}	M36
X270	270_{m6}	470	920	282	63_{h9}	M36
X280	290_{m6}	470	920	302	63_{h9}	M36
X290	290_{m6}	470	962	302	63_{h9}	M36
X300	300_{m6}	470	962	314	70_{h9}	M36
X310	320_{m6}	470	999	334	70_{h9}	M42
X320	340_{m6}	550	1079	355	80_{h9}	M42

30593506/EN – 07/2023

14.11 Universal cover with modular fan system /FAN-UNI

14.11.1 X.F..



18014428718631179

W1 = 30° air intake clearance for radial fan

Key:

Ø	= Fan diameter
RAD-S	= Radial fan with small diameter
RAD-M	= Radial fan with medium diameter
RAD-L	= Radial fan with large diameter

30593506/EN – 07/2023

X2F..

						i = 6.3 ... 11.2* i = 7.1 ... 12.5** i = 8 ... 14***									i = 12.5 ... 18* i = 14 ... 20** i = 16 ... 22.4***								
X2F..	Ø $EF_{max.}$	IF	JF	JF1	QF	CF	Ø D1	RAD-S		RAD-M		RAD-L		OF	CF	Ø D1	RAD-S		RAD-M		RAD-L		OF
								Ø	LF	Ø	LF	Ø	LF				Ø	LF	Ø	LF	Ø	LF	
X.100**	110	185	215	155	9	61	42_{k6}	240	85	280	80	–	–	274	31	32_{k6}	240	55	280	50	–	–	244
X.110***	110	185	215	155	9	61	42_{k6}	240	85	280	80	–	–	274	31	32_{k6}	240	55	280	50	–	–	244
X.120*	130	220	249	186	13	56	55_{m6}	280	80	350	75	–	–	290	56	42_{k6}	280	80	350	75	–	–	290
X.130***	130	220	249	186	13	56	55_{m6}	280	80	350	75	–	–	290	56	42_{k6}	280	80	350	75	–	–	290
X.140*	150	255	295	232	13	76	70_{m6}	350	100	405	100	445[1)]	95	348	46	55_{m6}	350	75	405	70	445[1)]	65	318
X.150***	150	255	295	232	13	76	70_{m6}	350	100	405	100	445[1)]	95	348	46	55_{m6}	350	75	405	70	445[1)]	65	318
X.160*	170	310	355	263	13	101	80_{m6}	405	125	445	125	495[1)]	120	412	71	70_{m6}	405	100	445	90	495[1)]	90	382
X.170***	170	310	355	263	13	101	80_{m6}	405	125	445	125	495[1)]	120	412	71	70_{m6}	405	100	445	90	495[1)]	90	382
X.180*	215	326	375	310	13	90	90_{m6}	405	125	495	120	590[1)]	115	445	60	75_{m6}	405	100	495	90	590[1)]	85	415
X.190**	215	326	375	310	13	90	90_{m6}	405	125	495	120	590[1)]	115	445	60	75_{m6}	405	100	495	90	590[1)]	85	415
X.200*	215	368	420	311	13	131	100_{m6}	445	160	495	160	590[1)]	155	504	91	90_{m6}	445	120	495	120	590[1)]	115	464
X.210**	215	368	420	311	13	131	100_{m6}	445	160	495	160	590[1)]	155	504	91	90_{m6}	445	120	495	120	590[1)]	115	464
X.220*	245	420	475	355	17	125	110_{m6}	495	155	590	155	680[1)]	150	538	125	100_{m6}	495	160	590	155	680[1)]	150	538
X.230**	245	420	475	355	17	125	110_{m6}	495	155	590	155	680[1)]	150	538	125	100_{m6}	495	160	590	155	680[1)]	150	538
X.240*	270	445	510	407	17	120	120_{m6}	590	150	680	150	780[1)]	145	583	120	110_{m6}	590	155	680	150	780[1)]	145	583
X.250**	270	445	510	407	17	120	120_{m6}	590	150	680	150	780[1)]	145	583	120	110_{m6}	590	155	680	150	780[1)]	145	583
X.260*	305	490	585	465	15.5	155	130_{m6}	680	190	780	185	900	185	673	115	120_{m6}	680	150	780	145	900	145	633
X.270**	305	490	585	465	15.5	155	130_{m6}	680	190	780	185	900	185	673	115	120_{m6}	680	150	780	145	900	145	633
X.280***	305	545	585	467	15.5	160	130_{m6}	680	190	780	185	900	185	673	120	120_{m6}	680	150	780	145	900	145	633
X.290*	340	570	670	492	15.5	160	150_{m6}	-	-	780	185	900	185	713	160	150_{m6}	-	-	780	185	900	185	713
X.300**	340	570	67	492	15.5	160	150_{m6}	-	-	780	185	900	185	713	160	150_{m6}	-	-	780	185	900	185	713
X.310*	340	620	725	535	15.5	210	170_{m6}	-	-	780	235	900	235	795	210	170_{m6}	-	-	780	235	900	235	795
X.320**	340	620	725	535	15.5	210	170_{m6}	-	-	780	235	900	235	795	210	170_{m6}	-	-	780	235	900	235	795

1) Der eingesetzte Lüfter "RAD-L" ermöglicht eine optimale Kühlung des Getriebes. Aufgrund seines großen Durchmessers beachten Sie den Zusatz zur Betriebsanleitung „Fußmontage“ 26855119/DE.

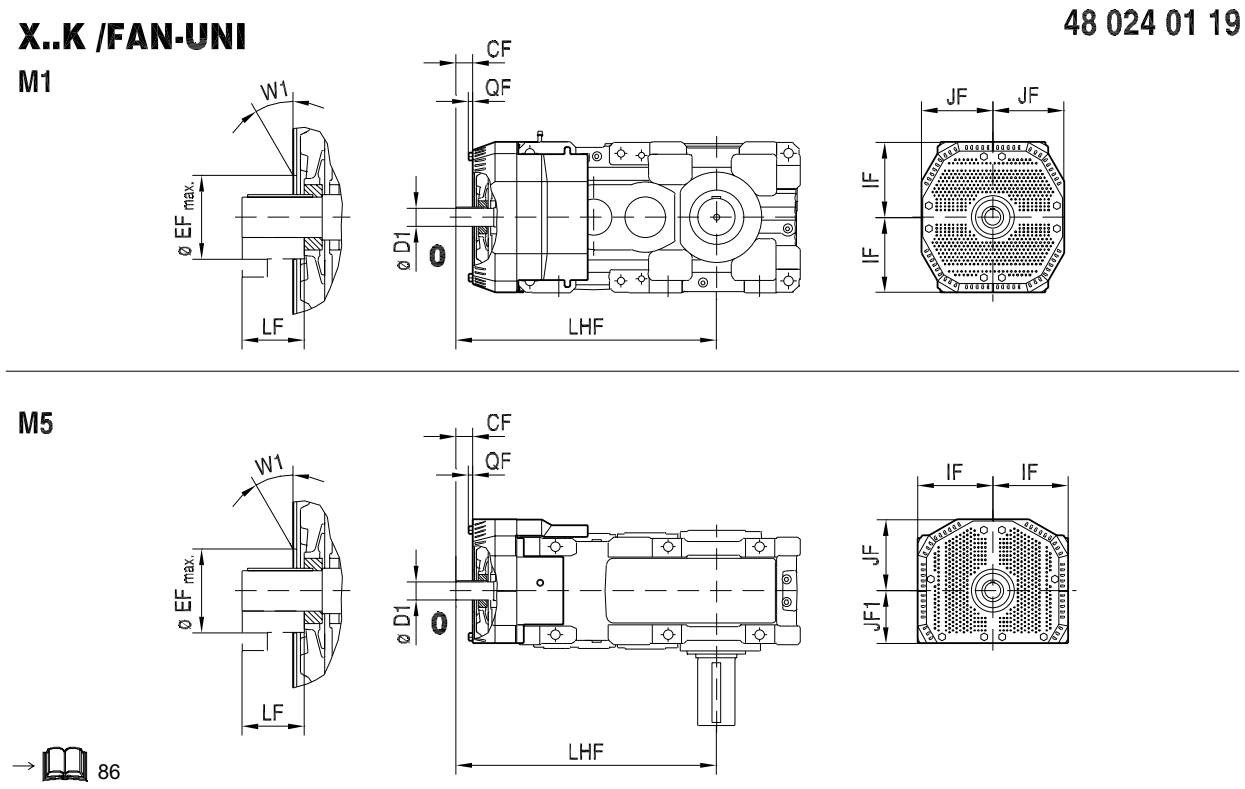
30593506/EN – 07/2023

X3F..

						i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***							i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***						
X3F..	Ø $EF_{max.}$	IF	JF	JF1	QF	CF	Ø D1	RAD-S		RAD-M		OF	CF	Ø D1	RAD-S		RAD-M		OF
								Ø	LF	Ø	LF				Ø	LF	Ø	LF	
X.100*	85	185	145	190	9	31	32_{k6}	210	55	240	55	244	31	32_{k6}	210	55	240	55	244
X.110***	85	185	145	190	9	31	32_{k6}	210	55	240	55	244	31	32_{k6}	210	55	240	55	244
X.120*	95	220	165	225	13	23	38_{k6}	240	55	280	50	258	23	38_{k6}	240	55	280	50	258
X.130***	95	220	165	225	13	23	38_{k6}	240	55	280	50	258	23	38_{k6}	240	55	280	50	258
X.140*	110	255	213	260	13	45	45_{k6}	280	80	350	75	318	45	45_{k6}	280	80	350	75	318
X.150***	100	255	213	260	13	45	45_{k6}	280	80	350	75	318	45	45_{k6}	280	80	350	75	318
X.160*	150	310	235	305	13	70	60_{m6}	350	105	405	100	381	40	50_{k6}	350	75	405	70	351
X.170***	150	310	235	305	13	70	60_{m6}	350	105	405	100	381	40	50_{k6}	350	75	405	70	351
X.180*	190	328	260	325	13	70	70_{m6}	405	100	445	95	411	40	55_{m6}	405	70	445	65	381
X.190**	190	328	260	325	13	70	70_{m6}	405	100	445	95	411	40	55_{m6}	405	70	445	65	381
X.200*	215	368	305	362	13	65	75_{m6}	445	95	495	90	430	65	60_{m6}	445	95	495	90	430
X.210**	215	368	305	362	13	65	75_{m6}	445	95	495	90	430	65	60_{m6}	445	95	495	90	430
X.220*	245	420	311	409	17	95	80_{m6}	445	125	495	120	487	65	70_{m6}	445	95	495	90	457
X.230**	245	420	311	409	17	95	80_{m6}	445	125	495	120	487	65	70_{m6}	445	95	495	90	457
X.240*	245	441	350	433	17	88	90_{m6}	495	120	590	115	532	58	75_{m6}	495	90	590	85	502
X.250**	245	441	350	433	17	88	90_{m6}	495	120	590	115	532	58	75_{m6}	495	90	590	85	502
X.260*	245	490	410	490	15.5	125	100_{m6}	590	155	680	150	613	85	80_{m6}	590	115	680	110	573
X.270**	245	490	410	490	15.5	125	100_{m6}	590	155	680	150	613	85	80_{m6}	590	115	680	110	573
X.280***	245	545	415	690	15.5	125	100_{m6}	590	155	680	150	613	85	80_{m6}	590	115	680	110	573
X.290*	270	570	473	785	15.5	120	100_{m6}	680	150	780	145	661	120	100_{m6}	680	150	780	145	661
X.300**	270	570	473	785	15.5	120	100_{m6}	680	150	780	145	661	120	100_{m6}	680	150	780	145	661
X.310*	305	618	485	878	15.5	120	100_{m6}	680	150	780	145	694	120	110_{m6}	680	150	780	145	694
X.320**	305	618	485	878	15.5	120	100_{m6}	680	150	780	145	694	120	110_{m6}	680	150	780	145	694

30593506/EN – 07/2023

14.11.2 X.K..



18014428718634123

W1 = 30° air intake clearance for radial fan

Key for the following tables

RAD-S	= Radial fan with small diameter
RAD-M	= Radial fan with medium diameter
RAD-L	= Radial fan with large diameter
AX-L	= Axial fan with large diameter
DIA-L	= Diagonal fan with large diameter
Ø	= Fan diameter
LF (S)	= Short input shaft
LF (L)	= Long input shaft

X2K..

X2K..	Ø $EF_{max.}$	RAD-S			RAD-M			RAD-L			AX-L		
		Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)
X.100	110	–	–	–	280	80	110	350	75	105	340	70	100
X.110	110	–	–	–	280	80	110	350	75	105	340	70	100
X.120	135	–	–	–	350	105	145	405	100	140	405	90	130
X.130	135	–	–	–	350	105	145	405	100	140	405	90	130
X.140	155	350	100	160	405	100	160	495	90	150	495	85	145
X.150	155	350	100	160	405	100	160	495	90	150	495	85	145
X.160	170	405	125	165	495	120	160	590	115	155	590	110	150
X.170	170	405	125	165	495	120	160	590	115	155	590	110	150
X.180	190	405	165	205	495	160	200	590	155	195	590	140	180
X.190	190	405	165	205	495	160	200	590	155	195	590	140	180
X.200	215	495	155	245	590	155	245	680	150	240	680	135	225
X.210	215	495	155	245	590	155	245	680	150	240	680	135	225
X.220	245	590	150	260	680	150	260	780	145	255	780	131	241
X.230	245	590	150	260	680	150	260	780	145	255	780	131	241
X.240	270	590	150	280	680	150	280	780	145	275	780	131	261
X.250	270	590	150	280	680	150	280	780	145	275	780	131	261

X2K..	Ø $EF_{max.}$	Ø D1	CF (S)	CF (L)	LHF	IF	JF	JF1
X.100	110	50_{k6}	45	75	655	188	199	130
X.110	110	50_{k6}	45	75	675	188	199	130
X.120	135	60_{m6}	70	110	752	223	227	150
X.130	135	60_{m6}	70	110	788	223	227	150
X.140	155	70_{m6}	60	120	816	262	272	180
X.150	155	70_{m6}	60	120	858	262	272	180
X.160	170	85_{m6}	85	125	1010	313	320	212.5
X.170	170	85_{m6}	85	125	1061	313	320	212.5
X.180	190	100_{m6}	125	165	1137	333	323	237.5
X.190	190	100_{m6}	125	165	1169	333	323	237.5
X.200	215	110_{m6}	120	210	1268	373	367	257.5
X.210	215	110_{m6}	120	210	1304	373	367	257.5
X.220	245	120_{m6}	115	225	1436	420	427	305
X.230	245	120_{m6}	115	225	1476	420	427	305
X.240	270	130_{m6}	115	245	1476	448	472	350
X.250	270	130_{m6}	115	245	1499	448	472	350

30593506/EN – 07/2023

X3K..

X3K..	Ø $EF_{max.}$	RAD-S			RAD-M			RAD-L			DIA-L			AX-L		
		Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)
X.100	110	–	–	–	280	50	70	350	45	65	345	45	65	340	40	60
X.110	110	–	–	–	280	50	70	350	45	65	345	45	65	340	40	60
X.120	135	–	–	–	350	65	95	405	60	90	405	55	85	405	50	80
X.130	135	–	–	–	350	65	95	405	60	90	405	55	85	405	50	80
X.140	155	350	75	105	405	70	100	495	70	100	495	75	105	495	65	95
X.150	155	350	75	105	405	70	100	495	70	100	495	75	105	495	65	95
X.160	170	405	100	140	495	90	130	590	85	125	590	80	120	590	85	125
X.170	170	405	100	140	495	90	130	590	85	125	590	80	120	590	85	125
X.180	190	405	100	160	495	90	150	590	85	145	590	80	140	590	85	145
X.190	190	405	100	160	495	90	150	590	85	145	590	80	140	590	85	145
X.200	215	495	120	150	590	115	145	680	110	140	700	110	140	680	105	135
X.210	215	495	120	150	590	115	145	680	110	140	700	110	140	680	105	135
X.220	245	495	120	160	590	115	155	680	115	155	700	115	155	680	110	150
X.230	245	495	120	160	590	115	155	680	115	155	700	115	155	680	110	150
X.240	245	590	155	195	680	150	190	780	145	185	785	150	190	780	140	180
X.250	245	590	155	195	680	150	190	780	145	185	785	150	190	780	140	180
X.260	245	680	150	240	780	145	235	900	145	235	900	130	220	850	140	230
X.270	245	680	150	240	780	145	235	900	145	235	900	130	220	850	140	230
X.280	245	680	150	240	780	145	235	900	145	235	900	130	220	850	140	230
X.290	270	680	150	260	780	145	255	900	145	255	900	130	240	940	140	250
X.300	270	680	150	260	780	145	255	900	145	255	900	130	240	940	140	250
X.310	305	680	190	280	780	185	275	900	185	275	900	170	260	940	180	270
	305	680	190	320	780	145	275	900	145	275	900	130	260	940	140	270
X.320	305	680	190	280	780	185	275	900	185	275	900	170	260	940	180	270
	305	680	190	320	780	145	275	900	145	275	900	130	260	940	140	270

X3K..	Ø D1	CF (S)	CF (L)	LHF	IF	JF	JF1	i
X.100	32_{k6}	15	35	632	188	199	130	-
X.110	32_{k6}	15	35	652	188	199	130	-
X.120	38_{k6}	30	60	745	223	227	150	-
X.130	38_{k6}	30	60	781	223	227	150	-
X.140	50_{k6}	40	70	879	262	272	180	-
X.150	50_{k6}	40	70	921	262	272	180	-
X.160	60_{m6}	55	95	1036	313	320	212,5	-
X.170	60_{m6}	55	95	1087	313	320	212,5	-
X.180	70_{m6}	55	115	1135	333	323	237,5	-
X.190	70_{m6}	55	115	1167	333	323	237,5	-
X.200	80_{m6}	80	110	1286	373	367	257,5	-
X.210	80_{m6}	80	110	1322	373	367	257,5	-
X.220	85_{m6}	80	120	1430	423	392	270	-
X.230	85_{m6}	80	120	1470	423	392	270	-
X.240	100_{m6}	118	158	1597	447	417	312,5	-
X.250	100_{m6}	118	158	1620	447	417	312,5	-
X.260	110_{m6}	113	203	1767	498	485	352,5	-
X.270	110_{m6}	113	203	1802	498	485	352,5	-
X.280	110_{m6}	115	205	1854	554	495	352,5	-
X.290	120_{m6}	108	218	2021	577	507	380	-
X.300	120_{m6}	105	215	2050	577	507	380	-
X.310	130_{m6}	145	235	2175	628	580	425	i = 12.5 … 35.5
	130_{m6}	105	235	2135	628	580	425	i = 40 … 71
X.320	130_{m6}	145	235	2209	628	580	425	i = 14 … 40
	130_{m6}	105	235	2169	628	580	425	i = 45 … 80

30593506/EN – 07/2023

X4K..

X4K..	Ø $EF_{max.}$	RAD-S			RAD-M			RAD-L			DIA-L			AX-L		
		Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)	Ø	LF (S)	LF (L)
X.240	245	590	85	145	680	85	145	780	85	145	-	-	-	780	80	140
X.250	245	590	85	145	680	85	145	780	85	145	-	-	-	780	80	140
X.260	245	680	110	140	780	105	135	900	105	135	-	-	-	850	100	130
X.270	245	680	110	140	780	105	135	900	105	135	-	-	-	850	100	130
X.280	245	680	110	140	780	105	135	900	105	135	-	-	-	850	100	130
X.290	270	680	115	155	780	105	145	900	105	145	-	-	-	850	100	140
X.300	270	680	115	155	780	105	145	900	105	145	-	-	-	850	100	140
X.310	305	680	150	190	780	145	185	900	145	185	-	-	-	850	140	180
X.320	305	680	150	190	780	145	185	900	145	185	-	-	-	850	1404	180

X4K..	Ø D1	CF (S)	CF (L)	LHF	IF	JF	JF1
X.240	70_{m6}	55	115	1595	447	417	307,5
X.250	70_{m6}	55	115	1618	447	417	307,5
X.260	80_{m6}	70	100	1785	498	485	352,5
X.270	80_{m6}	70	100	1820	498	485	352,5
X.280	80_{m6}	70	100	1872	554	495	352,5
X.290	85_{m6}	65	105	2015	577	507	380
X.300	85_{m6}	65	105	2044	577	507	380
X.310	100_{m6}	105	145	2256	628	580	425
X.320	100_{m6}	105	145	2290	628	580	425

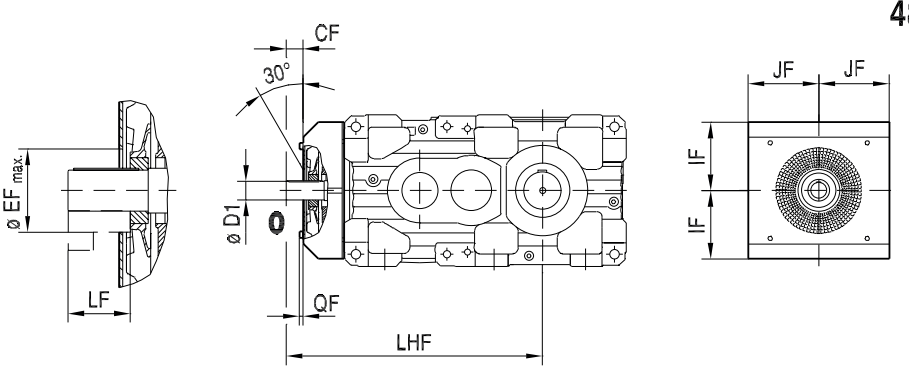
30593506/EN – 07/2023

14.12 X.K.. Radial fan basis [mm]

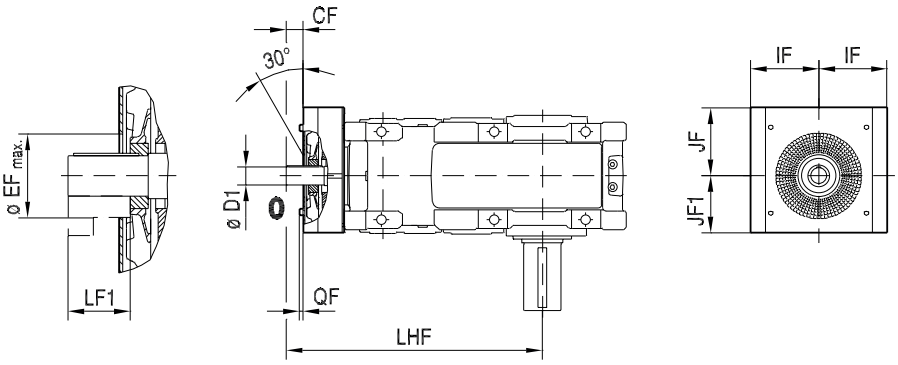
X..K /FAN

48 010 00 18

M1



M5



→ 87

					/FAN					
X2K..	**CF**	**Ø D1**	**Ø $EF_{max.}$**	**IF**	**JF**	**JF1**	**LF**	**LF1**	**LHF**	**QF**
X100	61	50_{k6}	110	185	165	130	80	85	655	11
X110	61	50_{k6}	110	185	165	130	80	85	675	11
X120	86	60_{m6}	130	220	200	150	105	110	752	11
X130	86	60_{m6}	130	220	200	150	105	110	788	11
X140	81	70_{m6}	150	260	233	180	100	105	816	11
X150	81	70_{m6}	150	260	233	180	100	105	858	11
X160	106	85_{m6}	170	310	270	213	125	130	1010	11
X170	106	85_{m6}	170	310	270	213	125	130	1061	11
X180	141	100_{m6}	190	330	303	238	160	160	1137	11
X190	141	100_{m6}	190	330	303	238	160	160	1169	11
X200	136	110_{m6}	215	370	338	258	155	155	1268	11
X210	136	110_{m6}	215	370	338	258	155	155	1304	11
X220	131	120_{m6}	245	420	385	305	150	150	1436	16
X230	131	120_{m6}	245	420	385	305	150	150	1476	16
X240	126	130_{m6}	270	445	435	350	145	150	1476	16
X250	126	130_{m6}	270	445	435	350	145	150	1499	16

30593506/EN – 07/2023

/FAN											
X3K..	**CF**	**Ø D1**	**Ø $EF_{max.}$**	**IF**	**JF**	**JF1**	**LF**	**LF1**	**LHF**	**QF**	**i**
X100	31	32_{k6}	105	185	165	130	50	55	632	11	–
X110	31	32_{k6}	105	185	165	130	50	55	652	11	–
X120	46	38_{k6}	135	220	200	150	65	70	745	11	–
X130	46	38_{k6}	135	220	200	150	65	70	781	11	–
X140	51	50_{k6}	155	260	230	180	70	75	879	11	–
X150	51	50_{k6}	155	260	230	180	70	75	921	11	–
X160	76	60_{m6}	170	310	270	213	95	100	1036	11	–
X170	76	60_{m6}	170	310	270	213	95	100	1087	11	–
X180	71	70_{m6}	190	330	303	238	90	90	1135	11	–
X190	71	70_{m6}	190	330	303	238	90	90	1167	11	–
X200	96	80_{m6}	215	370	338	258	115	120	1286	11	–
X210	96	80_{m6}	215	370	338	258	115	120	1322	11	–
X220	96	85_{m6}	245	420	350	305	115	120	1430	16	–
X230	96	85_{m6}	245	420	350	305	115	120	1470	16	–
X240	131	100_{m6}	245	445	398	350	150	155	1597	14	–
X250	131	100_{m6}	245	445	398	350	150	155	1620	14	–
X260	124	110_{m6}	245	495	438	353	145	150	1767	14	–
X270	124	110_{m6}	245	495	438	353	145	150	1802	14	–
X280	124	110_{m6}	245	495	438	353	145	150	1854	14	–
X290	124	120_{m6}	270	575	483	403	145	150	2021	14	–
X300	124	120_{m6}	270	575	483	403	145	150	2050	14	–
X310	164	130_{m6}	305	625	520	435	185	145	2135	14	i = 12.5 ... 35.5
	124	130_{m6}	305	625	520	435	145	145	2095	14	i = 40 ... 71
X320	164	130_{m6}	305	625	520	435	185	180	2169	14	i = 14 ... 40
	124	130_{m6}	305	625	520	435	145	180	2129	14	i = 45 ... 80

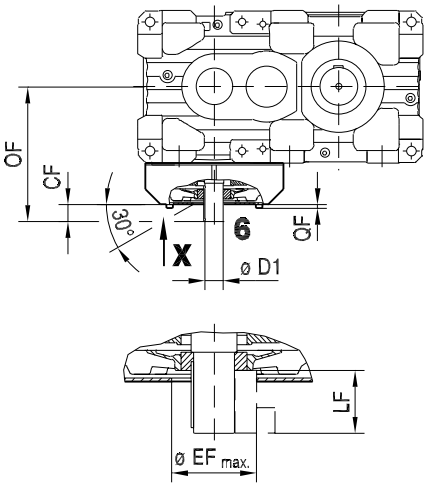
30593506/EN – 07/2023

14.13 X.T.. Radial fan basis [mm]

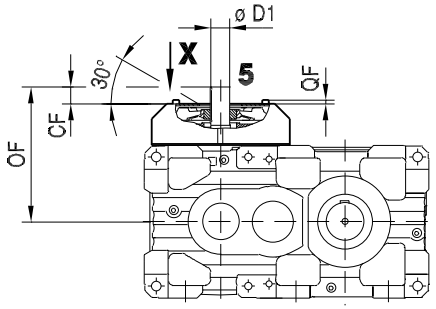
X..T /FAN

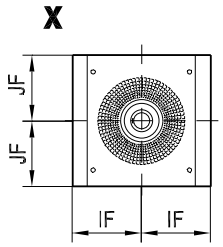
48 023 04 10

X3T.100-210



X3T.220-320





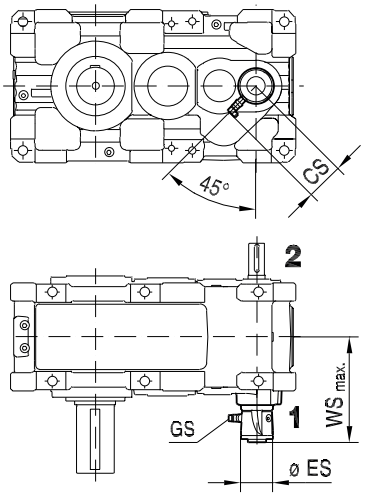
/FAN								
X3T..	**CF**	**Ø D1**	**Ø EFmax.**	**IF**	**JF**	**LF**	**OF**	**QF**
X100	31	32_{k6}	85	185	165	50	354	11
X110	31	32_{k6}	85	185	165	50	354	11
X120	46	38_{k6}	95	220	200	65	418	11
X130	46	38_{k6}	95	220	200	65	418	11
X140	51	50_{k6}	130	260	230	70	491	11
X150	51	50_{k6}	130	260	230	70	491	11
X160	76	60_{m6}	150	310	270	95	562	11
X170	76	60_{m6}	150	310	270	95	562	11
X180	71	70_{m6}	190	330	303	90	591	11
X190	71	70_{m6}	190	330	303	90	591	11
X200	96	80_{m6}	215	370	338	115	672	11
X210	96	80_{m6}	215	370	338	115	672	11
X220	96	85_{m6}	245	420	350	115	736	16
X230	96	85_{m6}	245	420	350	115	736	16
X240	131	100_{m6}	245	445	398	150	821	14
X250	131	100_{m6}	245	445	398	150	821	14

30593506/EN – 07/2023

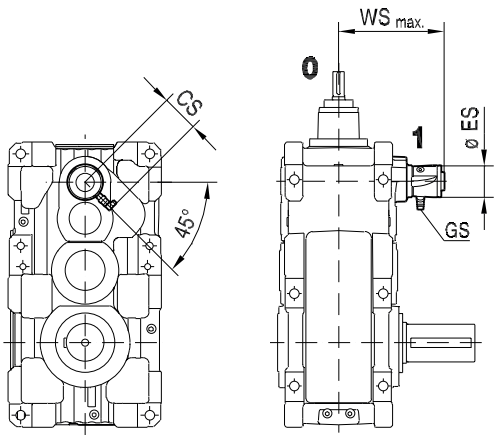
14.14 Shaft end pump /SEP [mm]

SEP
M1

48 017 00 18

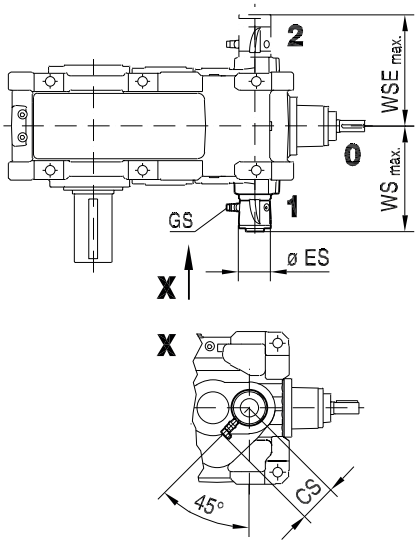


M4



→ 82

M5/M6



	CS	GS	$WS_{max.}$	Ø ES
X160	163	G3/4"	442.5	140
X170	163	G3/4"	442.5	140
X180	163	G3/4"	468	140
X190	163	G3/4"	468	140
X200	163	G3/4"	503.5	140
X210	163	G3/4"	503.5	140
X220	163	G3/4"	538.5	140
X230	163	G3/4"	538.5	140
X240	163	G3/4"	583.5	140
X250	163	G3/4"	583.5	140
X260	163	G3/4"	598.5	140
X270	163	G3/4"	598.5	140
X280	163	G3/4"	598.5	140
X290	163	G3/4"	639.5	140
X300	163	G3/4"	639.5	140
X310	163	G3/4"	672	140
X320	163	G3/4"	672	140

30593506/EN – 07/2023

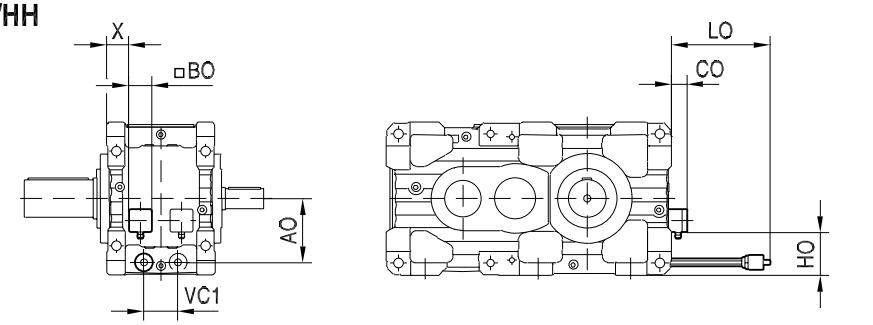
14.15 Oil heater /OH [mm]

48 076 00 20

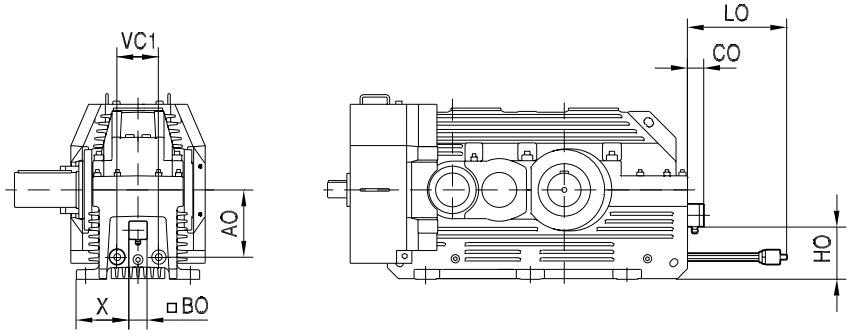
OH

M1

HU/HH

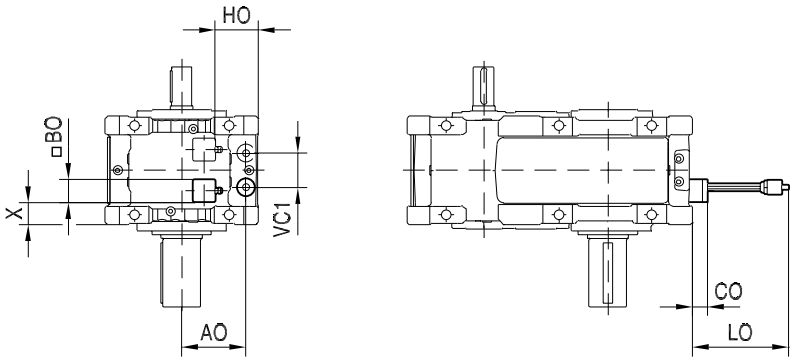


HT



→ 95

M5



	AO	BO	CO	HO	LO X2F	LO X3F	LO X4F	LO X2K	LO X3K	LO X4K	LO	VC1	X	max.
X100	151	100	91	82	490	400	–	490	490	–	490	75	13	2
X110	151	100	91	82	580	400	–	580	580	–	580	75	13	1
X120	175	100	112	75	680	680	400	580	680	680	680	90	35	2
X130	175	100	112	75	680	680	490	680	680	680	680	90	35	1
X140	209	100	85	80	780	780	490	680	780	780	780	100	75	2
X150	209	100	85	85	890	890	580	780	890	890	890	100	75	1
X160	250	100	85	115	1010	1010	680	890	1010	1010	1010	115	90	2
X170	250	100	85	115	1010	1010	680	890	1010	1010	1010	115	90	1
X180	280	100	82	120	960	960	710	960	960	960	960	150	90	2
X190	280	100	82	120	960	960	710	960	960	960	960	150	90	1
X200	320	100	82	130	1110	1110	810	960	1110	1110	1110	150	110	2

30593506/EN – 07/2023

Oil heater /OH [mm]

	AO	BO	CO	HO	LO X2F	LO X3F	LO X4F	LO X2K	LO X3K	LO X4K	LO	VC1	X	max.
X210	320	100	82	130	1110	1110	810	960	1110	1110	1110	150	110	1
X220	362	100	82	140	1310	1310	1310	1110	1310	1310	1310	180	110	2
X230	362	100	82	140	1310	1310	1310	1110	1310	1310	1310	180	110	1
X240	380	100	82	150	1310	1310	1310	1110	1310	1310	1310	200	130	2
X250	380	100	82	150	1510	1510	1510	1310	1510	1510	1510	200	130	1
X260	430	100	77	170	1660	1660	1660	–	1660	1660	1660	280	122.5	2
X270	430	100	77	170	1660	1660	1660	–	1660	1660	1660	280	122.5	1
X280	485	100	77	170	1810	1810	1810	–	1810	1810	1810	280	122.5	1
X290	505	100	76	192.5	1810	1810	1810	–	1810	1810	1810	300	142.5	2
X300	505	100	76	192.5	1810	1810	1810	–	1810	1810	1810	300	142.5	1
X310	545	100	75	190	2110	2110	2110	–	2110	2110	2110	360	142.5	2
X320	545	100	75	190	2110	2110	2110	–	2110	2110	2110	360	142.5	1

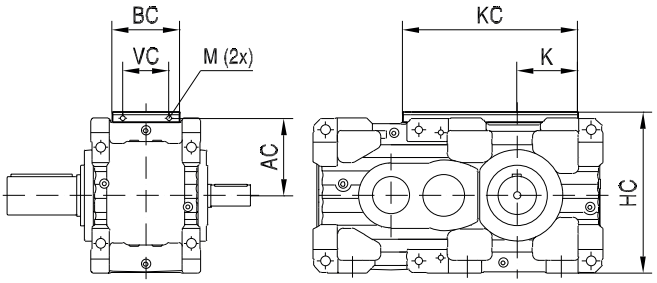
30593506/EN – 07/2023

SEW EURODRIVE

14.16 Water cooling cover /CCV and water cooling cartridge /CCT [mm]

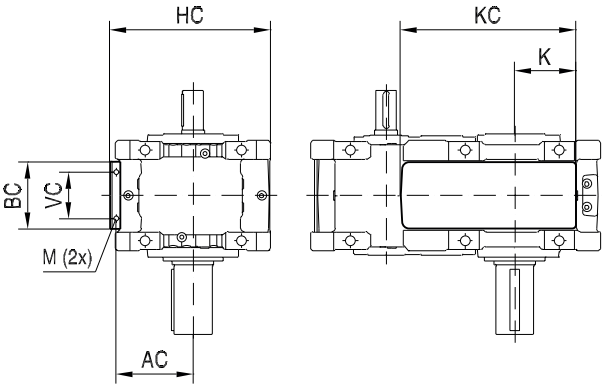
48 016 00 18

CCV
M1

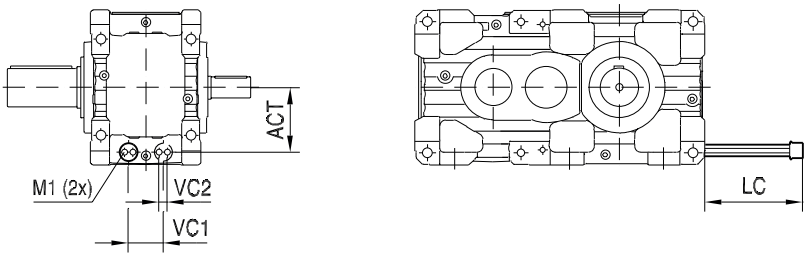


→ 89

M5

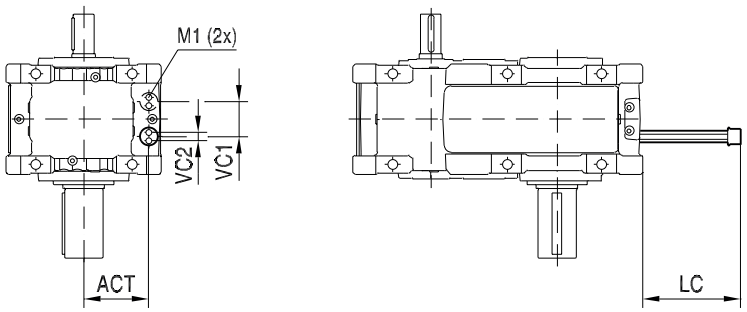


CCT
M1



→ 91

CCT
M5



30593506/EN – 07/2023

14.16.1 Water cooling cover /CCV

	AC	BC	HC	K	KC	M (2x)	VC
X100	191	165	410	128	361	G3/8"	50
X110	191	165	410	153	397	G3/8"	50
X120	226	193	480	147	420	G3/8"	110
X130	229	193	480	182	481	G3/8"	120
X140	270	226	555	164	474	G3/8"	150
X150	270	226	555	210	567	G3/8"	150
X160	318	254	655	249	568	G3/8"	175
X170	318	254	655	249	675	G3/8"	175
X180	332	290	702	262	755	G1/2"	200
X2K.180	332	290	702	262	706	G1/2"	200
X190	332	290	702	262	755	G1/2"	200
X2K.190	332	290	702	262	706	G1/2"	200
X200	372	310	782	297	847	G1/2"	200
X2K.200	372	310	782	297	796	G1/2"	200
X210	372	310	782	297	847	G1/2"	200
X2K.210	372	310	782	297	796	G1/2"	200

14.16.2 Water cooling cartridge /CCT

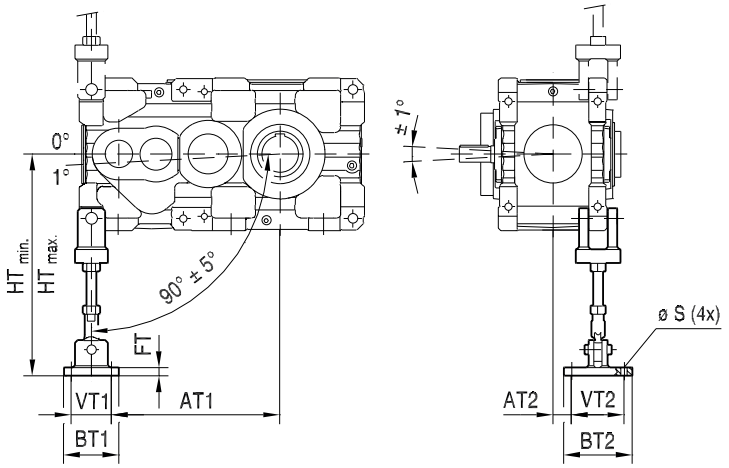
	ACT	LC X2F	LC X3F	LC X4F	LC X2K	LC X3K	LC X4K	M1 (2x)	VC2	VC1	VC
X100	151	490	400	-	490	490	-	G1/4"	22	75	1
X110	151	580	400	-	580	580	-	G1/4"	22	75	1
X120	175	680	680	400	580	580	680	G1/4"	22	90	1
X130	175	680	680	490	680	680	680	G1/4"	22	90	1
X140	209	695	695	465	615	695	695	G1/4"	24	100	2
X150	209	825	825	555	695	825	825	G1/4"	24	100	1
X160	250	945	945	615	825	945	945	G1/4"	24	115	2
X170	250	945	945	695	825	945	945	G1/4"	24	115	1
X180	280	950	950	700	900	950	950	G1/2"	34	150	2
X190	280	1000	950	700	900	1000	950	G1/2"	34	150	1
X200	320	1100	1050	800	1000	1100	1050	G1/2"	34	150	2
X210	320	1150	1100	800	1000	1150	1100	G1/2"	34	150	1
X220	362	1350	1350	1350	1150	1350	1350	G1/2"	34	180	2
X230	362	1350	1350	1350	1200	1350	1350	G1/2"	34	180	1
X240	385	1400	1400	1400	1200	1400	1400	G1/2"	34	200	2
X250	385	1450	1450	1450	1250	1450	1450	G1/2"	34	200	1
X260	430	1600	1600	1600	–	1600	1600	G1/2"	35	280	2
X270	430	1600	1600	1600	–	1600	1600	G1/2"	35	280	1
X280	485	1750	1750	1750	–	1750	1750	G1/2"	35	280	1
X290	505	1750	1750	1750	–	1750	1750	G1/2"	35	300	2
X300	505	1750	1750	1750	–	1750	1750	G1/2"	35	300	1
X310	545	2050	2050	2050	–	2050	2050	G1/2"	35	360	2
X320	545	2050	2050	2050	–	2050	2050	G1/2"	35	360	1

30593506/EN – 07/2023

14.17 Torque arm /T–HU [mm]

T

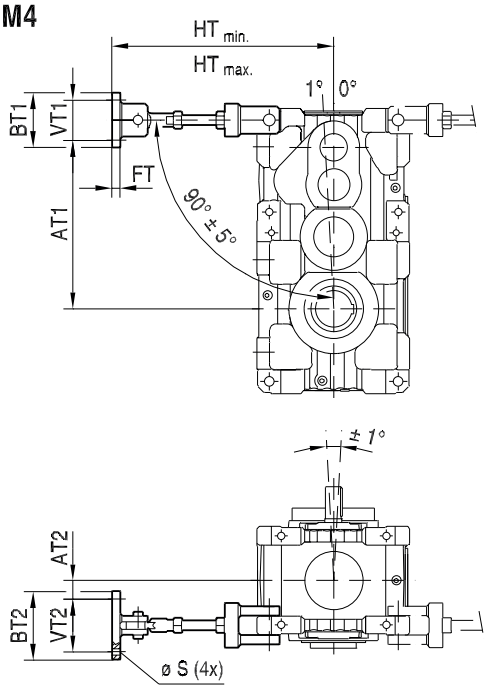
M1



→ 72

48 007 00 18

M4



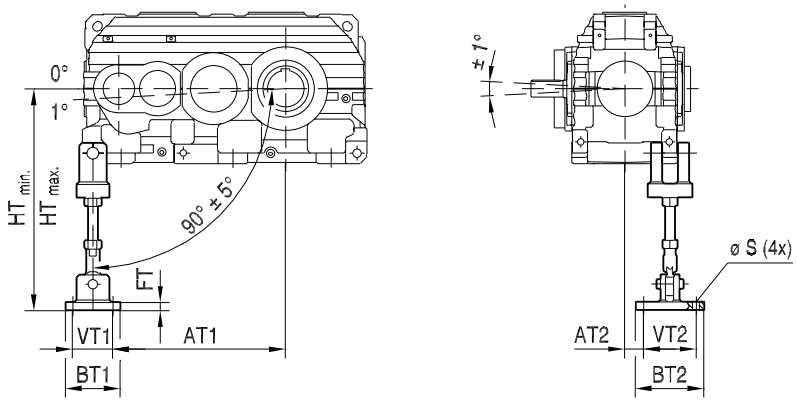
	AT1	AT1 (X2K)	AT2	AT2 (X2K)	BT1	BT2	FT	$HT_{min.}$	$HT_{max.}$	Ø S (4x)	VT1	VT2
X100	406	349	46.5	46.5	120	160	25	435	475	13.5	70	120
X110	426	369	46.5	46.5	120	160	25	435	475	13.5	70	120
X120	486	416	63.5	63.5	120	160	25	509	549	13.5	70	120
X130	522	452	63.5	63.5	120	160	25	509	549	13.5	70	120
X140	578	459	86.5	86.5	120	160	25	547	587	13.5	70	120
X150	620	501	86.5	86.5	120	160	25	547	587	13.5	70	120
X160	672	552	78	78	180	240	30	725	775	22	130	188
X170	723	603	78	78	180	240	30	725	775	22	130	188
X180	762	617	103	103	180	240	30	745	795	22	130	188
X190	794	649	103	103	180	240	30	745	795	22	130	188
X200	865	695	118	118	180	240	30	795	845	22	130	188
X210	901	730	118	118	180	240	30	795	845	22	130	188
X220	992	822	126	161	180	240	30	840	890	22	130	188
X230	1032	862	126	161	180	240	30	840	890	22	130	188
X240	1045	855	150	187.5	300	300	30	920	970	26	220	220
X250	1068	878	150	187.5	300	300	30	920	970	26	220	220
X260	1175	–	190	–	300	300	30	970	1020	26	220	220
X270	1210	–	190	–	300	300	30	970	1020	26	220	220
X280	1262	–	190	–	300	300	30	1025	1075	26	220	220
X290	1376	–	220.5	–	300	300	40	1143	1193	26	220	220
X300	1405	–	220.5	–	300	300	40	1143	1193	26	220	220
X310	1537	–	253	–	300	300	40	1193	1243	26	220	220
X320	1571	–	253	–	300	300	40	1193	1243	26	220	220

30593506/EN – 07/2023

14.18 Torque arm /T–HH [mm]

T-HH

48 059 04 09

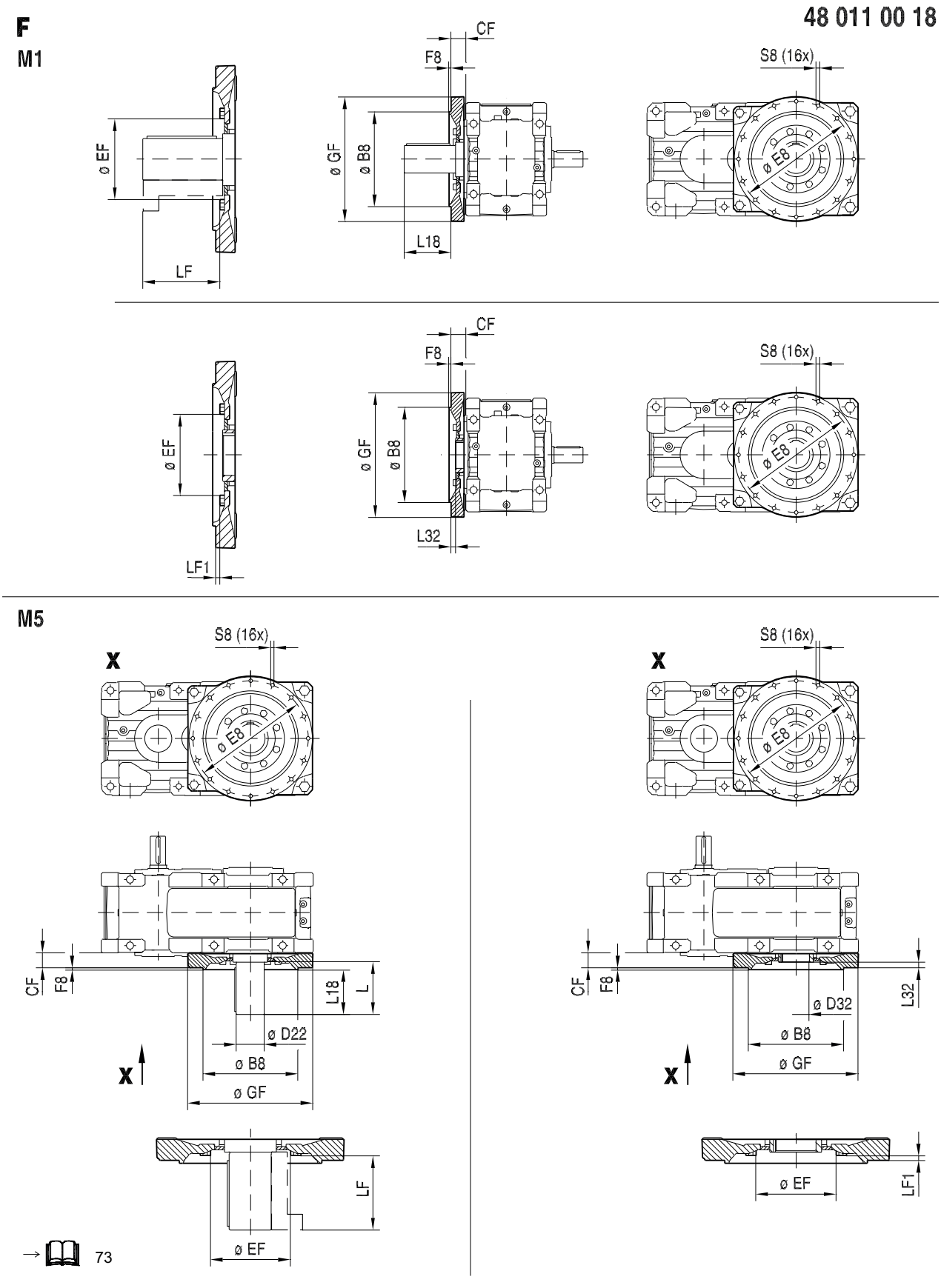


→ 72

	AT1	AT2	BT1	BT2	FT	$HT_{min.}$	$HT_{max.}$	Ø S (4x)	VT1	VT2
X220	992	126	200	250	30	840	890	22	130	188
X230	1032	126	200	250	30	840	890	22	130	188
X240	1045	150	300	300	30	920	970	26	220	220
X250	1068	150	300	300	30	920	970	26	220	220
X260	1175	190	300	300	30	970	1020	26	220	220
X270	1210	190	300	300	30	970	1020	26	220	220
X280	1262	190	300	300	30	1025	1075	26	220	220
X290	1376	220.5	300	300	40	1143	1193	26	220	220
X300	1405	220.5	300	300	40	1143	1193	26	220	220
X310	1537	253	300	300	40	1193	1243	26	220	220
X320	1571	253	300	300	40	1193	1243	26	220	220

30593506/EN – 07/2023

14.19 Mounting flange B14 /F [mm]



→ 73

30593506/EN – 07/2023

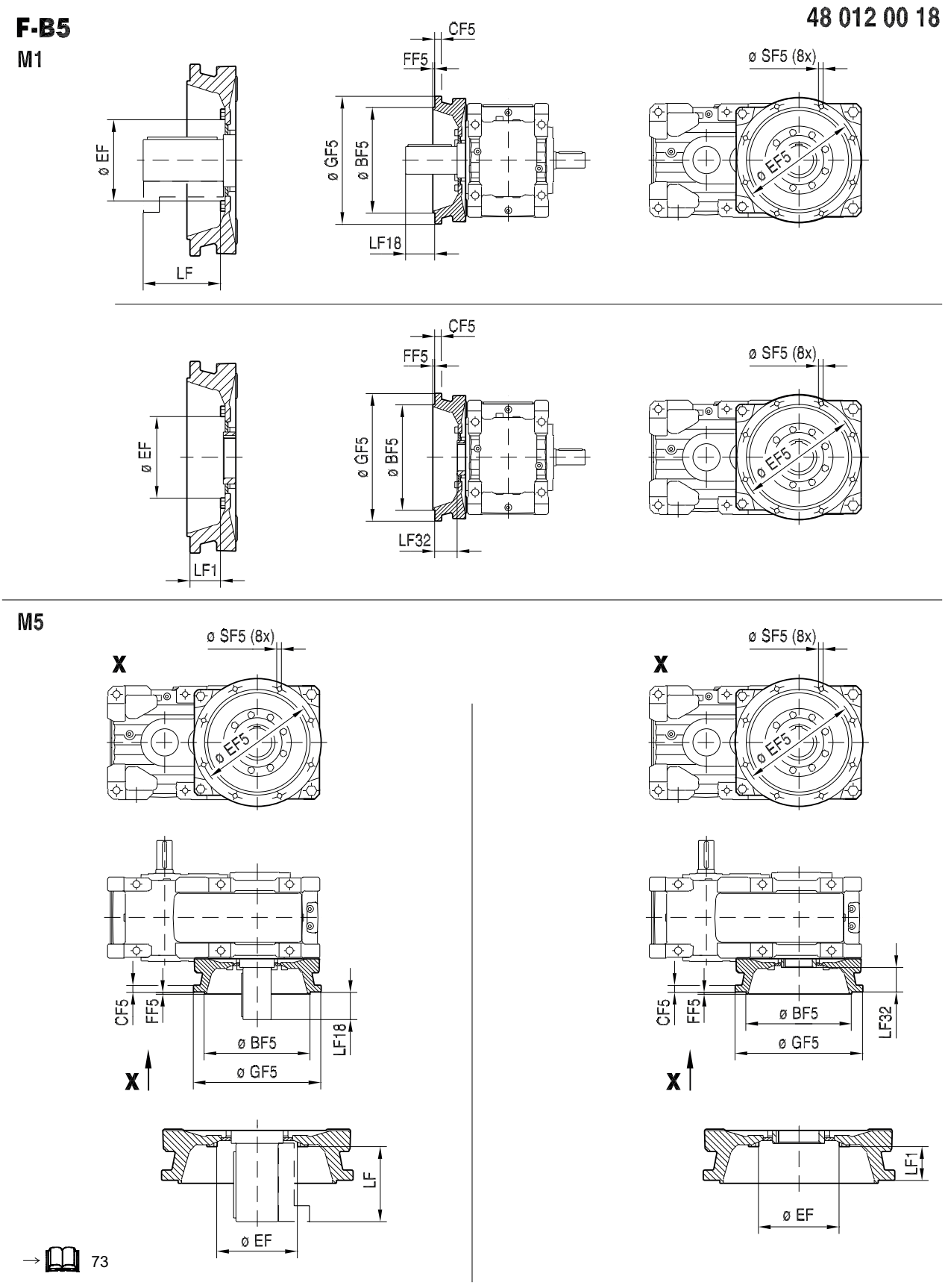
INFORMATION

The diameters for the input shafts can be found in the respective chapters.

	Ø B8	CF	Ø E8	Ø EF	F8	Ø GF	L18	L32	LF	LF1	S8 (16x)	kg
X100	300_{f7}	40	350	167	5	395	172.75	-3	185.5	12.75	M12x22	25
X110	300_{f7}	40	350	177	5	395	175.75	-6	188.5	12.75	M12x22	25
X120	340_{f7}	49	400	212	5	445	201.5	-8.5	222.5	21	M16x28	35
X130	340_{f7}	49	400	232	5	445	205	-5	224	19	M16x28	35
X140	430_{f7}	56	515	232	5	565	196	-14	223	27	M16x28	60
X150	430_{f7}	56	515	262	5	565	239	-11.5	266.5	27.5	M16x28	60
X160	520_{f7}	63	620	286	5	670	230.5	-19.5	259	28.5	M20x32	90
X170	520_{f7}	63	620	286	5	670	280.5	-19.5	309	28.5	M20x32	90
X180	560_{f7}	69	680	296	5	734	285.5	-14.5	306	20.5	M24x38	105
X190	560_{f7}	69	680	296	5	734	285.5	-14.5	306	20.5	M24x38	105
X200	560_{f7}	76	680	356	5	740	278.5	-14	305.5	27	M24x38	115
X210	560_{f7}	76	680	356	5	740	278.5	-14	355.5	27	M24x38	115

30593506/EN – 07/2023

14.20 Mounting flange B5 /F [mm]



→ 73

30593506/EN – 07/2023

INFORMATION

The diameters for the input shafts can be found in the respective chapters.

	Ø BF5	CF5	Ø EF5	Ø EF	FF5	Ø GF5	LF	LF1	LF18	LF32	Ø SF5 (8x)	kg
X130	400_{js7}	24.5	450	232	6	500	224	97.5	126.5	83.5	18	65
X140	450_{js7}	29.5	500	232	6	550	223	110.5	112.5	97.5	22	100
X150	500_{js7}	29.5	550	262	7	600	268	152.5	114	136.5	22	115
X160	550_{js7}	29.5	600	286	7	660	259	110.5	148.5	101.5	22	135
X170	620_{js7}	34.5	680	286	7	730	309	169.5	139.5	160.5	27	160
X180	620_{f7}	35	680	296	7	750	306	121.5	184.5	115.5	27	175
X190	620_{f7}	35	680	296	7	750	306	121.5	184.5	115.5	27	175

30593506/EN – 07/2023

14.21 Backstop X.F.. /BS [mm]

X.F../BS

48 037 03 07

Fig. A
extern

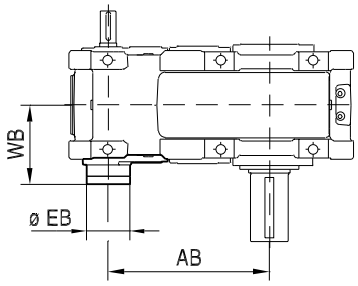
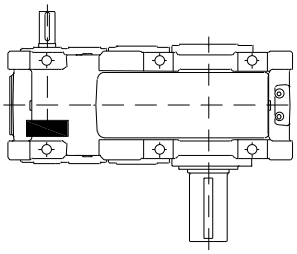


Fig. B
intern



X2F..	i_{ges}	Fig	AB	Ø EB	WB
X100	7.1 – 10	A	278	143	214
	11.2 – 20	A	278	133	213
X110	8 – 11.2	A	298	143	214
	12.5 – 22.4	A	298	133	213
X120	6.3 – 9	A	327	175	251
	10 – 18	A	327	153	235
X130	8 – 11.2	A	363	175	251
	12.5 – 22.4	A	363	153	235
X140	6.3 – 11.2	A	388	190	294
	12.5 – 18	A	388	175	284
X150	8 – 14	A	430	190	294
	16 – 22.4	A	430	175	284
X160	6.3 – 14	A	474	210	321
	16 – 18	A	474	190	320
X170	8 – 18	A	525	210	321
	20 – 22.4	A	525	190	320
X180	6.3 – 8	A	544	245	373
	9 – 18	A	544	210	360
X190	7.1 – 9	A	576	245	373
	10 – 20	A	576	210	360
X200	6.3 – 7.1	A	614	288	401
	8 – 11.2	A	614	245	394
	12.5 – 18	A	614	210	381

30593506/EN – 07/2023

X2F..	i_{ges}	Fig	AB	Ø EB	WB
X210	7.1 – 8	A	650	288	401
	9 – 12.5	A	650	245	394
	14 – 20	A	650	210	381
X220	6.3 – 11.2	A	694	288	428
	12.5 – 18	A	694	245	426
X230	7.1 – 12.5	A	734	288	428
	14 – 20	A	734	245	426
X240	6.3 – 7.1	A	776	322	472
	8 – 18	A	776	288	472
X250	7.1 – 10	A	799	322	472
	11.2 – 20	A	799	288	472
X260	6.3 – 7.1	A	855	412	562
	8 – 11.2	A	855	322	563
	12.5 – 18	A	855	288	534
X270	7.1 – 8	A	890	412	562
	9 – 12.5	A	890	322	563
	14 – 20	A	890	288	534
X280	8 – 9	A	942	412	562
	10 – 14	A	942	322	563
	16 – 22.5	A	942	288	534
X290	6.3 – 7.1	A	987	420	655
	8 – 14	A	987	412	610
	16 – 18	A	987	322	606
X300	7.1 – 8	A	1016	420	655
	9 – 16	A	1016	412	610
	18 – 20	A	1016	322	606
X310	6.3 – 11.2	A	1100	420	688
	12.5 – 18	A	1100	412	643
X320	7.1 – 12.5	A	1134	420	688
	14 – 20	A	1134	412	643

X3F..	i_{ges}	Fig	AB	Ø EB	WB
X100	22.4 – 100	A	360	96	210
X110	25 – 112	A	380	96	210
X120	20 – 28	A	427	133	228
	31.5 – 90	B	–	–	–
X130	25 – 35.5	A	463	133	228
	40 – 112	B	–	–	–
X140	20 – 35.5	A	502	143	257
	40 – 90	B	–	–	–
X150	25 – 45	A	544	143	257
	50 – 112	B	–	–	–
X160	20 – 28	A	611	175	316
	31.5 – 90	B	–	–	–
X170	25 – 35.5	A	662	175	316
	40 – 112	B	–	–	–
X180	20 – 35.5	A	707	190	349
	40 – 90	B	–	–	–
X190	22.4 – 40	A	739	190	349
	45 – 100	B	–	–	–
X200	20 – 35.5	A	794	210	368
	40 – 90	B	–	–	–

30593506/EN – 07/2023

X3F..	i_{ges}	Fig	AB	Ø EB	WB
X210	22.4 – 40	A	830	210	368
	45 – 100	B	–	–	–
X220	20 – 35.5	A	894	210	396
	40 – 56	A	894	190	394
	63 – 90	A	894	175	384
X230	22.4 – 40	A	934	210	396
	45 – 63	A	934	190	394
	71 – 100	A	934	175	384
X240	20 – 22.4	A	1004	245	460
	25 – 56	A	1004	210	447
	63 – 90	A	1004	190	446
X250	22.4 – 25	A	1027	245	460
	28 – 63	A	1027	210	447
	71 – 100	A	1027	190	446
X260	20 – 35.5	A	1113	245	503
	40 – 90	A	1113	210	491
X270	22.4 – 40	A	1148	245	503
	45 – 100	A	1148	210	491
X280	25 – 45	A	1200	245	503
	50 – 112	A	1200	210	491
X290	20 – 35.5	A	1279	288	550
	40 – 50	A	1279	245	548
	56 – 90	A	1279	210	536
X300	22.4 – 40	A	1308	288	550
	45 – 56	A	1308	245	548
	63 – 100	A	1308	210	536
X310	20 – 25	A	1435	322	584
	28 – 50	A	1435	288	585
	56 – 90	A	1435	245	583
X320	22.4 – 28	A	1469	322	584
	31.5 – 56	A	1469	288	585
	63 – 100	A	1469	245	583

X4F..	i_{ges}	Fig	AB	Ø EB	WB
X120	100 – 355	A	427	85	215
X130	125 – 450	A	463	85	215
X140	100 – 355	A	502	96	255
X150	125 – 450	A	544	96	255
X160	100 – 355	B	–	–	–
X170	125 – 450	B	–	–	–
X180	100 – 355	B	–	–	–
X190	112 – 400	B	–	–	–
X200	100 – 355	B	–	–	–
X210	112 – 400	B	–	–	–
X220	100 – 355	B	–	–	–
X230	112 – 400	B	–	–	–
X240	100 – 355	B	–	–	–
X250	112 – 400	B	–	–	–
X260	100 – 355	B	–	–	–
X270	112 – 400	B	–	–	–
X280	125 – 450	B	–	–	–
X290	100 – 355	B	–	–	–
X300	112 – 400	B	–	–	–

30593506/EN – 07/2023

X4F..	i_{ges}	Fig	AB	Ø EB	WB
X310	100 – 355	B	–	–	–
X320	112 – 400	B	–	–	–

14.22 Backstop X.K.. /BS [mm]

X.K../BS

48 038 02 07

Fig. A
extern

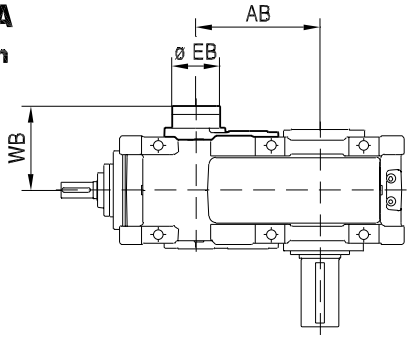
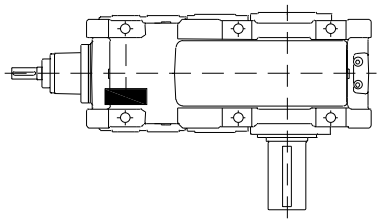


Fig. C
intern



X2KS..	i_{ges}	Fig	AB	Ø EB	WB
X100	7.1 – 12.5	A	164	175	244
X110	8 – 14	A	184	175	244
X120	6.3 – 11.2	A	190	190	268
X130	8 – 14	A	226	190	268
X140	6.3 – 11.2	A	225	210	295
X150	8 – 14	A	267	210	295
X160	6.3 – 11.2	A	274	245	343
X170	8 – 14	A	325	245	343
X180	6.3 – 11.2	A	316	288	386
X190	7.1 – 12.5	A	348	288	386
X200	6.3 – 11.2	A	356	288	403
X210	7.1 – 12.5	A	392	288	403
X220	6.3 – 11.2	A	402	322	495
X230	7.1 – 12.5	A	442	322	495
X240	6.3 – 11.2	A	441	420	598
X250	7.1 – 12.5	A	464	420	598

30593506/EN – 07/2023

X3K..	i_{ges}	Fig	AB	Ø EB	WB
X100	14 – 80	A	278	133	213
X110	16 – 90	A	298	133	213
X120	12.5 –71	A	327	153	235
X130	16 – 90	A	363	153	235
X140	12.5 – 18	A	388	190	294
	20 – 71	A	388	175	284
X150	16 – 22.4	A	430	190	294
	25 – 90	A	430	175	284
X160	12.5 – 22.4	A	474	210	321
	25 – 71	A	474	190	320
X170	16 – 28	A	525	210	321
	31.5 – 90	A	525	190	320
X180	12.5 – 71	A	544	210	360
X190	14 – 80	A	576	210	360
X200	12.5 – 22.4	A	614	245	394
	25 – 71	A	614	210	381
X210	14 – 25	A	650	245	394
	28 – 80	A	650	210	381
X220	12.5 – 22.4	A	694	288	428
	25 – 71	A	694	245	426
X230	14 – 25	A	734	288	428
	28 – 80	A	734	245	426
X240	12.5 – 35.5	A	776	288	472
	40 – 71	A	776	245	470
X250	14 – 80	A	799	288	472
X260	12.5 – 22.4	A	855	322	563
	25 – 71	A	855	288	553
X270	14 – 25	A	890	322	563
	28 – 80	A	890	288	553
X280	16 – 28	A	942	322	563
	31.5 – 90	A	942	288	553
X290	12.5 – 28	A	987	412	610
	31.5 – 71	A	987	322	606
X300	14 – 31.5	A	1016	412	610
	35.5 – 80	A	1016	322	606
X310	12.5 – 22.4	A	1100	420	688
	25 – 71	A	1100	412	643
X320	14 – 25	A	1134	420	688
	28 – 80	A	1134	412	643

X4K..	i_{ges}	Fig	AB	Ø EB	WB
X120	80 – 355	C	–	–	–
X130	100 – 450	C	–	–	–
X140	80 – 355	C	–	–	–
X150	100 – 450	C	–	–	–
X160	80 – 355	C	–	–	–
X170	100 – 450	C	–	–	–
X180	80 – 355	C	–	–	–
X190	90 – 400	C	–	–	–
X200	80 – 355	C	–	–	–
X210	90 – 400	C	–	–	–

30593506/EN – 07/2023

X4K..	i_{ges}	Fig	AB	Ø EB	WB
X220	80 – 90	A	894	190	394
	100 – 355	A	894	175	384
X230	90 – 112	A	934	190	394
	125 – 400	A	934	175	384
X240	80 – 90	A	1004	210	447
	100 – 355	A	1004	190	446
X250	90 – 100	A	1027	210	447
	112 – 400	A	1027	190	446
X260	80 – 355	A	1113	210	491
X270	90 – 400	A	1148	210	491
X280	100 – 450	A	1200	210	491
X290	80	A	1279	245	548
	90 – 355	A	1279	210	536
X300	90 – 100	A	1308	245	548
	112 – 400	A	1308	210	536
X310	80	A	1435	288	585
	90 – 355	A	1435	245	583
X320	90 – 100	A	1469	288	585
	112 – 400	A	1469	245	583

30593506/EN – 07/2023

14.23 Backstop X.T../BS [mm]

X.T../BS

48 003 00 10

Fig. A
extern

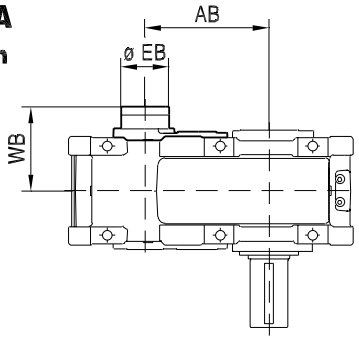
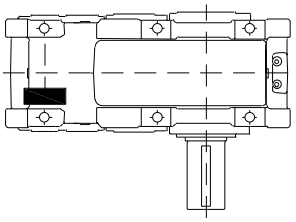


Fig. C
intern



X3T..	i_{ges}	Fig	AB	Ø EB	WB
X100	14 - 80	A	278	133	213
X110	16 - 90	A	298	133	213
X120	12.5 -71	A	327	153	235
X130	16 - 90	A	363	153	235
X140	12.5 - 18	A	388	190	273
	20 - 71	A	388	175	284
X150	16 - 22.4	A	430	190	273
	25 - 90	A	430	175	284
X160	12.5 - 22.4	A	474	210	321
	25 - 71	A	474	190	320
X170	16 - 28	A	525	210	321
	31.5 - 90	A	525	190	320
X180	12.5 -71	A	544	210	360
X190	14 - 80	A	576	210	360
X200	12.5 - 22.4	A	614	245	394
	25 - 71	A	614	210	381
X210	14 - 25	A	650	245	394
	28 - 80	A	650	210	381
X220	12.5 - 22.4	A	694	290	428
	25 - 71	A	694	245	426
X230	14 - 25	A	734	290	428
	28 - 80	A	734	245	426
X240	12.5 - 35.5	A	776	290	472
	40 - 71	A	776	245	470
X250	14 - 80	A	799	290	472

30593506/EN – 07/2023

X4T..	i_{ges}	Fig	AB	Ø EB	WB
X120	80 - 355	C	-	-	-
X130	100 - 450	C	-	-	-
X140	80 - 355	C	-	-	-
X150	100 - 450	C	-	-	-
X160	80 - 355	C	-	-	-
X170	100 - 450	C	-	-	-
X180	80 - 355	C	-	-	-
X190	90 - 400	C	-	-	-
X200	80 - 355	C	-	-	-
X210	90 - 400	C	-	-	-
X220	80 - 90	A	894	190	394
	100 - 355	A	894	175	384
X230	90 - 112	A	934	190	394
	125 - 400	A	934	175	384
X240	80 - 90	A	1004	210	447
	100 - 355	A	1004	190	446
X250	90 - 100	A	1027	210	447
	112 - 400	A	1027	190	446

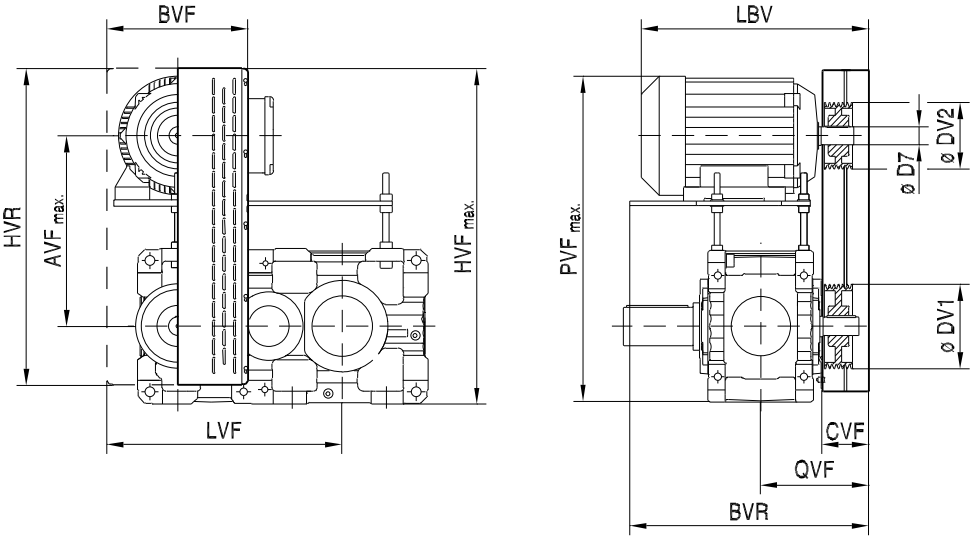
30593506/EN – 07/2023

14.24 V-belt drives /VBD [mm]

14.24.1 X3F.. V-belt drives /VBD [mm]

X3F..

48 002 01 11



X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max.	HVR	LBV	LVF X.100	LVF X.110	PVF max.	QVF	
	112M	4	1.25	468	440	524	132	28	125	100	789	783	519	580	600	837	296	SPZ (2x)
	132S	5.5		474	440	524	132	38	160	125	789	783	569	580	600	843	296	SPZ (2x)
	132M	7.5		473	440	524	132	38	200	160	789	783	571	580	600	891	296	SPZ (2x)
	132L	9.2		473	440	524	132	38	180	140	789	783	596	580	600	891	296	SPZ (3x)
	160M	11		473	440	524	132	42	200	160	789	783	664	580	600	917	296	SPZ (3x)
	160L	15		477	440	524	132	42	250	200	789	783	664	580	600	921	296	SPZ (3x)
	112M	4	1.4	480	440	524	132	28	140	100	789	783	519	580	600	849	296	SPZ (2x)
	132S	5.5		478	440	524	132	38	180	125	789	783	569	580	600	847	296	SPZ (2x)
	132M	7.5		472	440	524	132	38	224	160	789	783	571	580	600	890	296	SPZ (2x)
	132L	9.2		475	440	524	132	38	200	140	789	783	596	580	600	893	296	SPZ (3x)
	160M	11		472	440	524	132	42	224	160	789	783	664	580	600	916	296	SPZ (3x)
X100	160L	15		477	440	524	132	42	280	200	789	783	664	580	600	921	296	SPZ (3x)
X110	112M	4	1.6	476	440	524	132	28	160	100	789	783	519	580	600	845	296	SPZ (2x)
	132S	5.5		474	440	524	132	38	200	125	789	783	569	580	600	843	296	SPZ (2x)
	132M	7.5		469	440	524	132	38	250	160	789	783	571	580	600	887	296	SPZ (2x)
	132L	9.2		481	440	524	132	38	224	140	789	783	596	580	600	899	296	SPZ (3x)
	160M	11		469	440	524	132	42	250	160	789	783	664	580	600	913	296	SPZ (3x)
	160L	15		479	440	524	132	42	250	160	789	783	664	580	600	923	296	SPA (3x)
	112M	4	1.8	477	440	524	132	28	180	100	789	783	519	580	600	846	296	SPZ (2x)
	132S	5.5		479	440	524	132	38	224	125	789	783	569	580	600	848	296	SPZ (2x)
	132M	7.5		475	440	524	132	38	280	160	789	783	571	580	600	893	296	SPZ (2x)
	132L	9.2		471	440	524	132	38	250	140	789	783	596	580	600	889	296	SPZ (3x)
	160M	11		475	440	524	132	42	280	160	789	783	664	580	600	919	296	SPZ (3x)
	160L	15		475	440	524	132	42	280	160	789	783	664	580	600	919	296	SPA (3x)

30593506/EN – 07/2023

X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	ØD7	Ø DV1	Ø DV2	HVF max.	HV R	LB V	LVF X.120	LVF X.130	PVF max.	QVF	
	132S	5.5	1.25	551	500	526	132	38	160	125	917	914	569	677	713	955	310	SPZ (2x)
	132M	7.5		548	500	526	132	38	200	160	917	914	571	677	713	1001	310	SPZ (2x)
	132L	9.2		554	500	526	132	38	180	140	917	914	596	677	713	1007	310	SPZ (3x)
	160M	11		548	500	526	132	42	200	160	917	914	664	677	713	1027	310	SPZ (3x)
	160L	15		552	500	526	132	42	250	200	917	914	664	677	713	1031	310	SPZ (3x)
	180M	18.5		548	500	621	132	48	224	180	917	914	689	677	713	1041	310	SPA (3x)
	180L	22		549	500	621	132	48	250	200	917	914	689	677	713	1042	310	SPA (3x)
	200L	30		552	500	621	132	55	250	200	917	914	781	677	713	1060	310	SPZ (6x)
	132S	5.5	1.4	553	500	526	132	38	180	125	917	914	569	677	713	957	310	SPZ (2x)
	132M	7.5		553	500	526	132	38	224	160	917	914	571	677	713	1006	310	SPZ (2x)
	132L	9.2		551	500	526	132	38	200	140	917	914	596	677	713	1004	310	SPZ (3x)
	160M	11		553	500	526	132	42	224	160	917	914	664	677	713	1032	310	SPZ (3x)
	160L	15		552	500	526	132	42	280	200	917	914	664	677	713	1031	310	SPZ (3x)
	180M	18.5		552	500	621	132	48	250	180	917	914	689	677	713	1045	310	SPA (3x)
	180L	22		550	500	621	132	48	280	200	917	914	689	677	713	1043	310	SPA (3x)
X120	200L	30		552	500	621	132	55	280	200	917	914	781	677	713	1060	310	SPZ (6x)
X130	132S	5.5	1.6	549	500	526	132	38	200	125	917	914	569	677	713	953	310	SPZ (2x)
	132M	7.5		551	500	526	132	38	250	160	917	914	571	677	713	1004	310	SPZ (2x)
	132L	9.2		556	500	526	132	38	224	140	917	914	596	677	713	1009	310	SPZ (3x)
	160M	11		551	500	526	132	42	250	160	917	914	664	677	713	1030	310	SPZ (3x)
	160L	15		551	500	526	132	42	250	160	917	914	664	677	713	1030	310	SPA (3x)
	180M	18.5		552	500	621	132	48	280	180	917	914	689	677	713	1045	310	SPA (3x)
	180L	22		546	500	621	132	48	315	200	917	914	689	677	713	1039	310	SPA (3x)
	200L	30		542	500	621	132	55	335	212	917	914	781	677	713	1050	310	SPB (3x)
	132S	5.5	1.8	549	500	526	132	38	224	125	917	914	569	677	713	953	310	SPZ (2x)
	132M	7.5		544	500	526	132	38	280	160	917	914	571	677	713	997	310	SPZ (2x)
	132L	9.2		547	500	526	132	38	250	140	917	914	596	677	713	1000	310	SPZ (3x)
	160M	11		544	500	526	132	42	280	160	917	914	664	677	713	1023	310	SPZ (3x)
	160L	15		555	500	526	132	42	280	160	917	914	664	677	713	1034	310	SPA (3x)
	180M	18.5		548	500	621	132	48	315	180	917	914	689	677	713	1041	310	SPA (3x)
	180L	22		549	500	621	132	48	355	200	917	914	689	677	713	1042	310	SPA (3x)
	200L	30		558	500	621	132	55	375	212	917	914	781	677	713	1066	310	SPB (3x)

X3F	IEC	P_M	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø V2	HVF max.	HVR	LBV	LVF X.140	LVF X.150	PVF max.	QVF	
	180M	18.5	1.25	661	530	664	154	48	224	180	1082	1043	711	767	809	1194	371	SPA (3x)
	180L	22		662	530	664	154	48	250	200	1082	1043	711	767	809	1195	371	SPA (3x)
	200L	30		665	530	664	154	55	250	200	1082	1043	803	767	809	1213	371	SPZ (6x)
	225S	37		660	530	664	154	60	265	212	1082	1043	771	767	809	1208	371	SPB (4x)
	225M	45		663	530	664	154	60	300	236	1082	1043	771	767	809	1211	371	SPB (4x)
	180M	18.5	1.4	665	530	664	154	48	250	180	1082	1043	711	767	809	1198	371	SPA (3x)
	180L	22		663	530	664	154	48	280	200	1082	1043	711	767	809	1196	371	SPA (3x)
	200L	30		665	530	664	154	55	280	200	1082	1043	803	767	809	1213	371	SPZ (6x)
	225S	37		651	530	664	154	60	300	212	1082	1043	771	767	809	1199	371	SPB (4x)
X140	225M	45		681	530	664	154	60	300	212	1082	1043	771	767	809	1229	371	SPB (4x)
X150	180M	18.5	1.6	662	530	664	154	48	280	180	1082	1043	711	767	809	1195	371	SPA (3x)
	180L	22		659	530	664	154	48	315	200	1082	1043	711	767	809	1192	371	SPA (3x)
	200L	30		667	530	664	154	55	335	212	1082	1043	803	767	809	1215	371	SPB (3x)
	225S	37		670	530	664	154	60	355	224	1082	1043	771	767	809	1218	371	SPA (4x)
	225M	45		652	530	664	154	60	335	212	1082	1043	771	767	809	1200	371	SPB (4x)
	180M	18.5	1.8	661	530	664	154	48	315	180	1082	1043	711	767	809	1194	371	SPA (3x)
	180L	22		675	530	664	154	48	355	200	1082	1043	711	767	809	1208	371	SPA (3x)
	200L	30		679	530	664	154	55	375	212	1082	1043	803	767	809	1227	371	SPB (3x)
	225S	37		680	530	664	154	60	400	224	1082	1043	771	767	809	1228	371	SPA (4x)
	225M	45		659	530	664	154	60	355	200	1082	1043	771	767	809	1207	371	SPB (5x)

30593506/EN – 07/2023

X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max.	HVR	LBV	LVF X.160	LVF X.170	PVF max.	QVF	
	180M	18.5	1.25	661	530	615	154	48	224	180	1132	1043	711	876	927	1244	405	SPA (3x)
	180L	22		662	530	615	154	48	250	200	1132	1043	711	876	927	1245	405	SPA (3x)
	200L	30		665	530	818	154	55	250	200	1132	1043	803	876	927	1263	405	SPZ (6x)
	225S	37		660	530	818	154	60	265	212	1132	1043	771	876	927	1258	405	SPB (4x)
	225M	45		753	580	851	187	60	300	236	1265	1207	804	901	952	1351	438	SPB (4x)
	250M	55		763	580	851	187	65	335	265	1265	1207	939	901	952	1472	438	SPB (4x)
	280S	75		771	580	851	187	75	315	250	1265	1207	939	901	952	1480	438	SPB (6x)
	280M	90		771	580	851	187	75	315	250	1265	1207	1034	901	952	1480	438	SPB (6x)
	180M	18.5	1.4	665	530	615	154	48	250	180	1132	1043	711	876	927	1248	405	SPA (3x)
	180L	22		663	530	615	154	48	280	200	1132	1043	711	876	927	1246	405	SPA (3x)
	200L	30		665	530	818	154	55	280	200	1132	1043	803	876	927	1263	405	SPZ (6x)
	225S	37		651	530	818	154	60	300	212	1132	1043	771	876	927	1249	405	SPB (4x)
	225M	45		742	580	851	187	60	300	212	1265	1207	804	901	952	1340	438	SPB (4x)
	250M	55		780	580	851	187	65	375	265	1265	1207	939	901	952	1489	438	SPB (4x)
	280S	75		738	580	851	187	75	355	250	1265	1207	939	901	952	1447	438	SPB (6x)
X160	280M	90		738	580	851	187	75	355	250	1265	1207	1034	901	952	1447	438	SPB (6x)
X170	180M	18.5	1.6	662	530	615	154	48	280	180	1132	1043	711	876	927	1245	405	SPA (3x)
	180L	22		659	530	615	154	48	315	200	1132	1043	711	876	927	1242	405	SPA (3x)
	200L	30		667	530	818	154	55	335	212	1132	1043	803	876	927	1265	405	SPB (3x)
	225S	37		670	530	818	154	60	355	224	1132	1043	771	876	927	1268	405	SPA (4x)
	225M	45		783	580	851	187	60	335	212	1265	1207	804	901	952	1381	438	SPB (4x)
	250M	55		757	580	851	187	65	355	224	1265	1207	939	901	952	1466	438	SPB (5x)
	280S	75		771	580	851	187	75	400	250	1265	1207	939	901	952	1480	438	SPB (6x)
	280M	90		771	580	851	187	75	400	250	1265	1207	1034	901	952	1480	438	SPB (6x)
	180M	18.5	1.8	661	530	615	154	48	315	180	1132	1043	711	876	927	1244	405	SPA (3x)
	180L	22		675	530	615	154	48	355	200	1132	1043	711	876	927	1258	405	SPA (3x)
	200L	30		679	530	818	154	55	375	212	1132	1043	803	876	927	1277	405	SPB (3x)
	225S	37		680	530	818	154	60	400	224	1132	1043	771	876	927	1278	405	SPA (4x)
	225M	45		775	580	851	187	60	355	200	1265	1207	804	901	952	1373	438	SPB (5x)
	250M	55		760	580	851	187	65	425	236	1265	1207	939	901	952	1469	438	SPB (4x)
	280S	75		728	580	851	187	75	450	250	1265	1207	939	901	952	1437	438	SPB (6x)
	280M	90		728	580	851	187	75	450	250	1265	1207	1034	901	952	1437	438	SPB (6x)

30593506/EN – 07/2023

X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max.	HVR	LBV	LVF X.180	LVF X.190	PVF max.	QVF	
	200L	30	1.25	657	530	663	154	55	224	180	1152	1043	803	972	1004	1275	423	SPB (4x)
	225S	37		800	530	696	187	60	265	212	1327	1223	804	972	1004	1418	456	SPB (4x)
	225M	45		793	530	696	187	60	300	236	1327	1223	804	972	1004	1411	456	SPB (4x)
	250M	55		813	530	949	187	65	335	265	1327	1223	939	972	1004	1542	456	SPB (4x)
	280S	75		916	750	959	197	75	315	250	1524	1523	949	1082	1114	1645	466	SPB (6x)
	280M	90		904	750	959	197	75	375	300	1524	1523	1044	1082	1114	1633	466	SPB (6x)
	315S	110		872	750	959	197	80	400	315	1524	1523	1138	1082	1114	1713	466	SPB (6x)
	315M	132		872	750	959	197	80	400	315	1524	1523	1138	1082	1114	1713	466	SPB (6x)
	200L	30	1.4	666	530	663	154	55	315	224	1152	1043	803	972	1004	1284	423	SPA (4x)
	225S	37		812	530	696	187	60	300	212	1327	1223	804	972	1004	1430	456	SPB (4x)
	225M	45		812	530	696	187	60	300	212	1327	1223	804	972	1004	1430	456	SPB (4x)
	250M	55		780	530	949	187	65	375	265	1327	1223	939	972	1004	1509	456	SPB (4x)
	280S	75		898	750	959	197	75	355	250	1524	1523	949	1082	1114	1627	466	SPB (6x)
	280M	90		899	750	959	197	75	400	280	1524	1523	1044	1082	1114	1628	466	SPB (6x)
	315S	110		932	750	959	197	80	450	315	1524	1523	1138	1082	1114	1773	466	SPB (6x)
X180 **X190**	315M	132		932	750	959	197	80	450	315	1524	1523	1138	1082	1114	1773	466	SPB (6x)
	200L	30	1.6	667	530	663	154	55	335	212	1152	1043	803	972	1004	1285	423	SPB (3x)
	225S	37		793	530	696	187	60	355	224	1327	1223	804	972	1004	1411	456	SPA (4x)
	225M	45		783	530	696	187	60	335	212	1327	1223	804	972	1004	1401	456	SPB (4x)
	250M	55		777	530	949	187	65	355	224	1327	1223	939	972	1004	1506	456	SPB (5x)
	280S	75		912	750	959	197	75	400	250	1524	1523	949	1082	1114	1650	466	SPB (6x)
	280M	90		908	750	959	197	75	450	280	1524	1523	1044	1082	1114	1637	466	SPB (6x)
	315S	110		890	750	959	197	80	500	315	1524	1523	1138	1082	1114	1731	466	SPB (6x)
	315M	132		890	750	959	197	80	500	315	1524	1523	1138	1082	1114	1731	466	SPB (6x)
	200L	30	1.8	679	530	663	154	55	375	212	1152	1043	803	972	1004	1297	423	SPB (3x)
	225S	37		790	530	696	187	60	400	224	1327	1223	804	972	1004	1408	456	SPA (4x)
	225M	45		795	530	696	187	60	355	200	1327	1223	804	972	1004	1413	456	SPB (5x)
	250M	55		790	530	949	187	65	400	224	1327	1223	939	972	1004	1519	456	SPB (5x)
	280S	75		899	750	959	197	75	450	250	1524	1523	949	1082	1114	1628	466	SPB (6x)
	280M	90		916	750	959	197	75	500	280	1524	1523	1044	1082	1114	1645	466	SPB (6x)
	315S	110		924	750	959	197	80	560	315	1524	1523	1138	1082	1114	1765	466	SPB (6x)
	315M	132		924	750	959	197	80	560	315	1524	1523	1138	1082	1114	1765	466	SPB (6x)

30593506/EN – 07/2023

X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF	HVR	LBV	LVF X.200	LVF X.210	PVF max.	QVF	
X200 X210	225S	37	1.25	800	530	729	187	60	265	212	1367	1223	804	1059	1095	1458	474	SPB (4x)
	225M	45		793	530	729	187	60	300	236	1367	1223	804	1059	1095	1451	474	SPB (4x)
	250M	55		888	750	977	197	65	335	265	1564	1523	949	1169	1205	1657	484	SPB (4x)
	280S	75		916	750	977	197	75	315	250	1564	1523	949	1169	1205	1685	484	SPB (6x)
	280M	90		904	750	977	197	75	375	300	1564	1523	1044	1169	1205	1673	484	SPB (6x)
	315S	110		897	750	977	197	80	400	315	1564	1523	1138	1169	1205	1778	484	SPB (8x)
	315M	132		897	750	977	197	80	400	315	1564	1523	1138	1169	1205	1778	484	SPB (8x)
	315L	160		937	750	977	197	80	425	335	1564	1523	1268	1169	1205	1833	484	SPC (6x)
	225S	37	1.4	797	530	729	187	60	280	200	1367	1223	804	1059	1095	1455	474	SPB (4x)
	225M	45		812	530	729	187	60	300	212	1367	1223	804	1059	1095	1470	474	SPB (4x)
	250M	55		910	750	977	197	65	335	236	1564	1523	949	1169	1205	1679	484	SPB (4x)
	280S	75		898	750	977	197	75	355	250	1564	1523	949	1169	1205	1667	484	SPB (6x)
	280M	90		899	750	977	197	75	400	280	1564	1523	1044	1169	1205	1668	484	SPB (6x)
	315S	110		881	750	977	197	80	450	315	1564	1523	1138	1169	1205	1762	484	SPB (8x)
	315M	132		881	750	977	197	80	450	315	1564	1523	1138	1169	1205	1762	484	SPB (8x)
	315L	160		896	750	977	197	80	475	335	1564	1523	1268	1169	1205	1792	484	SPC (6x)
	225S	37	1.6	793	530	729	187	60	355	224	1367	1223	804	1059	1095	1451	474	SPA (4x)
	225M	45		783	530	729	187	60	335	212	1367	1223	804	1059	1095	1441	474	SPB (4x)
	250M	55		903	750	977	197	65	355	224	1564	1523	949	1169	1205	1672	484	SPB (5x)
	280S	75		921	750	977	197	75	400	250	1564	1523	949	1169	1205	1690	484	SPB (6x)
	280M	90		908	750	977	197	75	450	280	1564	1523	1044	1169	1205	1677	484	SPB (6x)
	315S	110		890	750	977	197	80	500	315	1564	1523	1138	1169	1205	1771	484	SPB (8x)
	315M	132		890	750	977	197	80	500	315	1564	1523	1138	1169	1205	1771	484	SPB (8x)
	315L	160		910	750	977	197	80	560	335	1564	1523	1268	1169	1205	1806	484	SPC (6x)
	225S	37	1.8	790	530	729	187	60	400	224	1367	1223	804	1059	1095	1448	474	SPA (4x)
	225M	45		795	530	729	187	60	355	200	1367	1223	804	1059	1095	1453	474	SPB (5x)
	250M	55		911	750	977	197	65	425	236	1564	1523	949	1169	1205	1680	484	SPB (4x)
	280S	75		899	750	977	197	75	450	250	1564	1523	949	1169	1205	1668	484	SPB (6x)
	280M	90		916	750	977	197	75	500	280	1564	1523	1044	1169	1205	1685	484	SPB (6x)
	315S	110		924	750	977	197	80	560	315	1564	1523	1138	1169	1205	1805	484	SPB (8x)
	315M	132		924	750	977	197	80	560	315	1564	1523	1138	1169	1205	1805	484	SPB (8x)

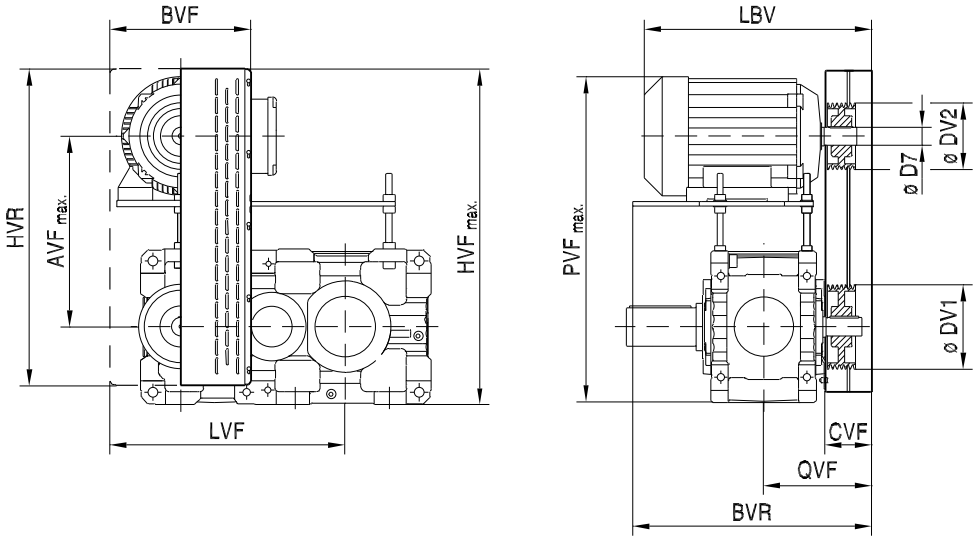
X3F	IEC	P_M kW	i	AVF max.	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.220	LVF X.230	PVF max	QVF	
X220 X230	250M	55	1.25	888	750	973	197	65	335	265	1614	1523	949	1269	1309	1707	508	SPB (4x)
	280S	75		916	750	973	197	75	315	250	1614	1523	949	1269	1309	1735	508	SPB (6x)
	280M	90		904	750	973	197	75	375	300	1614	1523	1044	1269	1309	1723	508	SPB (6x)
	315S	110		897	750	973	197	80	400	315	1614	1523	1138	1269	1309	1828	508	SPB (8x)
	315M	132		897	750	973	197	80	400	315	1614	1523	1138	1269	1309	1828	508	SPB (8x)
	315L	160		937	750	973	197	80	425	335	1614	1523	1268	1269	1309	1883	508	SPC (6x)
	315H	200		937	750	973	197	80	425	335	1614	1523	1268	1269	1309	1883	508	SPC (6x)
	250M	55	1.4	910	750	973	197	65	335	236	1614	1523	949	1269	1309	1729	508	SPB (4x)
	280S	75		898	750	973	197	75	355	250	1614	1523	949	1269	1309	1717	508	SPB (6x)
	280M	90		899	750	973	197	75	400	280	1614	1523	1044	1269	1309	1718	508	SPB (6x)
	315S	110		881	750	973	197	80	450	315	1614	1523	1138	1269	1309	1812	508	SPB (8x)
	315M	132		881	750	973	197	80	450	315	1614	1523	1138	1269	1309	1812	508	SPB (8x)
	315L	160		896	750	973	197	80	475	335	1614	1523	1268	1269	1309	1842	508	SPC (6x)
	315H	200		896	750	973	197	80	475	335	1614	1523	1268	1269	1309	1842	508	SPC (6x)
	250M	55	1.6	903	750	973	197	65	355	224	1614	1523	949	1269	1309	1722	508	SPB (5x)
	280S	75		921	750	973	197	75	400	250	1614	1523	949	1269	1309	1740	508	SPB (6x)
	280M	90		908	750	973	197	75	450	280	1614	1523	1044	1269	1309	1727	508	SPB (6x)
	315S	110		890	750	973	197	80	500	315	1614	1523	1138	1269	1309	1821	508	SPB (8x)
	315M	132		890	750	973	197	80	500	315	1614	1523	1138	1269	1309	1821	508	SPB (8x)
	315L	160		910	750	973	197	80	560	335	1614	1523	1268	1269	1309	1856	508	SPC (6x)
	315H	200		910	750	973	197	80	560	335	1614	1523	1268	1269	1309	1856	508	SPC (6x)
	250M	55	1.8	911	750	973	197	65	425	236	1614	1523	949	1269	1309	1730	508	SPB (4x)
	280S	75		899	750	973	197	75	450	250	1614	1523	949	1269	1309	1718	508	SPB (6x)
	280M	90		916	750	973	197	75	500	280	1614	1523	1044	1269	1309	1735	508	SPB (6x)
	315S	110		924	750	973	197	80	560	315	1614	1523	1138	1269	1309	1855	508	SPB (8x)
	315M	132		924	750	973	197	80	560	315	1614	1523	1138	1269	1309	1855	508	SPB (8x)
	315L	160		950	750	973	197	80	630	335	1614	1523	1268	1269	1309	1896	508	SPC (6x)
	315H	200		950	750	973	197	80	630	335	1614	1523	1268	1269	1309	1896	508	SPC (6x)

30593506/EN – 07/2023

14.24.2 X4F.. V-belt drives /VBD [mm]

X4F..

48 003 01 11



X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.120	LVF X.130	PVF max	QVF	
X120 X130	100LS	2.2	1.25	551	500	526	132	28	160	125	917	914	441	677	713	941.5	310	SPZ (1x)
	100L	3		551	500	526	132	28	160	125	917	914	491	677	713	941.5	310	SPZ (1x)
	112M	4		551	500	526	132	28	160	125	917	914	519	677	713	955	310	SPZ (2x)
	100LS	2.2	1.4	553	500	526	132	28	180	125	917	914	441	677	713	943.5	310	SPZ (1x)
	100L	3		553	500	526	132	28	180	125	917	914	491	677	713	943.5	310	SPZ (1x)
	112M	4		553	500	526	132	28	180	125	917	914	519	677	713	957	310	SPZ (2x)
	100LS	2.2	1.6	549	500	526	132	28	200	125	917	914	441	677	713	939.5	310	SPZ (1x)
	100L	3		549	500	526	132	28	200	125	917	914	491	677	713	939.5	310	SPZ (1x)
	112M	4		549	500	526	132	28	200	125	917	914	519	677	713	953	310	SPZ (2x)
	100LS	2.2	1.8	549	500	526	132	28	224	125	917	914	441	677	713	939.5	310	SPZ (1x)
	100L	3		549	500	526	132	28	224	125	917	914	491	677	713	939.5	310	SPZ (1x)

30593506/EN – 07/2023

X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.140	LVF X.150	PVF max	QVF	
X140 X150	100LS	2.2	1.25	551	500	529	132	28	160	125	957	914	441	752	794	981.5	349	SPZ (1x)
	100L	3		551	500	529	132	28	160	125	957	914	491	752	794	981.5	349	SPZ (1x)
	112M	4		551	500	529	132	28	160	125	957	914	519	752	794	995	349	SPZ (2x)
	132S	5.5		551	500	529	132	38	160	125	957	914	569	752	794	995	349	SPZ (2x)
	132M	7.5		548	500	529	132	38	200	160	957	914	571	752	794	1041	349	SPZ (2x)
	132L	9.2		554	500	529	132	38	180	140	957	914	596	752	794	1047	349	SPZ (3x)
	160M	11		548	500	529	132	42	200	160	957	914	664	752	794	1067	349	SPZ (3x)
	160L	15		552	500	529	132	42	250	200	957	914	664	752	794	1071	349	SPZ (3x)
	100LS	2.2	1.4	553	500	529	132	28	180	125	957	914	441	752	794	983.5	349	SPZ (1x)
	100L	3		553	500	529	132	28	180	125	957	914	491	752	794	983.5	349	SPZ (1x)
	112M	4		553	500	529	132	28	180	125	957	914	519	752	794	997	349	SPZ (2x)
	132S	5.5		553	500	529	132	38	180	125	957	914	569	752	794	997	349	SPZ (2x)
	132M	7.5		553	500	529	132	38	224	160	957	914	571	752	794	1046	349	SPZ (2x)
	132L	9.2		551	500	529	132	38	200	140	957	914	596	752	794	1044	349	SPZ (3x)
	160M	11		553	500	529	132	42	224	160	957	914	664	752	794	1072	349	SPZ (3x)
	160L	15		552	500	529	132	42	280	200	957	914	664	752	794	1071	349	SPZ (3x)
	100LS	2.2	1.6	549	500	529	132	28	200	125	957	914	441	752	794	979.5	349	SPZ (1x)
	100L	3		549	500	529	132	28	200	125	957	914	491	752	794	979.5	349	SPZ (1x)
	112M	4		549	500	529	132	28	200	125	957	914	519	752	794	993	349	SPZ (2x)
	132S	5.5		549	500	529	132	38	200	125	957	914	569	752	794	993	349	SPZ (2x)
	132M	7.5		551	500	529	132	38	250	160	957	914	571	752	794	1044	349	SPZ (2x)
	132L	9.2		556	500	529	132	38	224	140	957	914	596	752	794	1049	349	SPZ (3x)
	160M	11		551	500	529	132	42	250	160	957	914	664	752	794	1070	349	SPZ (3x)
	160L	15		551	500	529	132	42	250	160	957	914	664	752	794	1070	349	SPZ (3x)
	100LS	2.2	1.8	549	500	529	132	28	224	125	957	914	441	752	794	979.5	349	SPZ (1x)
	100L	3		549	500	529	132	28	224	125	957	914	491	752	794	979.5	349	SPZ (1x)
	112M	4		549	500	529	132	28	224	125	957	914	519	752	794	993	349	SPZ (2x)
	132S	5.5		549	500	529	132	38	224	125	957	914	569	752	794	993	349	SPZ (2x)
	132M	7.5		544	500	529	132	38	280	160	957	914	571	752	794	1037	349	SPZ (2x)
	132L	9.2		547	500	529	132	38	250	140	957	914	596	752	794	1040	349	SPZ (3x)
	160M	11		544	500	529	132	42	280	160	957	914	664	752	794	1063	349	SPZ (3x)

X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.160	LVF X.170	PVF max	QVF	
X160 X170	112M	4	1.25	551	500	593	132	28	160	125	1007	914	519	861	912	1045	383	SPZ (2x)
	132S	5.5		667	530	615	154	38	180	140	1132	1043	591	876	927	1161	405	SPZ (2x)
	132M	7.5		667	530	615	154	38	200	160	1132	1043	593	876	927	1210	405	SPZ (2x)
	132L	9.2		667	530	615	154	38	200	160	1132	1043	618	876	927	1210	405	SPZ (3x)
	160M	11		667	530	615	154	42	200	160	1132	1043	686	876	927	1236	405	SPZ (3x)
	160L	15		665	530	615	154	42	250	200	1132	1043	686	876	927	1236	405	SPZ (3x)
	112M	4	1.4	553	500	593	132	28	180	125	1007	914	519	861	912	1047	383	SPZ (2x)
	132S	5.5		663	530	615	154	38	200	140	1132	1043	591	876	927	1157	405	SPZ (2x)
	132M	7.5		666	530	615	154	38	224	160	1132	1043	593	876	927	1209	405	SPZ (2x)
	132L	9.2		666	530	615	154	38	224	160	1132	1043	618	876	927	1209	405	SPZ (3x)
	160M	11		666	530	615	154	42	224	160	1132	1043	686	876	927	1235	405	SPZ (3x)
	160L	15		665	530	615	154	42	280	200	1132	1043	686	876	927	1234	405	SPZ (3x)
	112M	4	1.6	549	500	593	132	28	200	125	1007	914	519	861	912	1043	383	SPZ (2x)
	132S	5.5		663	530	615	154	38	224	140	1132	1043	591	876	927	1157	405	SPZ (2x)
	132M	7.5		670	530	615	154	38	250	160	1132	1043	593	876	927	1213	405	SPZ (2x)
	132L	9.2		670	530	615	154	38	250	160	1132	1043	618	876	927	1213	405	SPZ (3x)
	160M	11		670	530	615	154	42	250	160	1132	1043	686	876	927	1239	405	SPZ (3x)
	160L	15		667	530	615	154	42	250	160	1132	1043	686	876	927	1236	405	SPA (3x)
	112M	4	1.8	549	500	593	132	28	224	125	1007	914	519	861	912	1043	383	SPZ (2x)
	132S	5.5		666	530	615	154	38	250	140	1132	1043	591	876	927	1160	405	SPZ (2x)
	132M	7.5		670	530	615	154	38	280	160	1132	1043	593	876	927	1213	405	SPZ (2x)
	132L	9.2		670	530	615	154	38	280	160	1132	1043	618	876	927	1213	405	SPZ (3x)
	160M	11		670	530	615	154	42	280	160	1132	1043	686	876	927	1239	405	SPZ (3x)
	160L	15		668	530	615	154	42	280	160	1132	1043	686	876	927	1237	405	SPA (3x)

30593506/EN – 07/2023

X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.180	LVF X.190	PVF max	QVF	
X180 X190	132M	7.5	1.25	667	530	663	154	38	200	160	1152	1043	593	972	1004	1230	423	SPZ (2x)
	132L	9.2		657	530	663	154	38	224	180	1152	1043	618	972	1004	1220	423	SPZ (2x)
	160M	11		667	530	663	154	42	200	160	1152	1043	703	972	1004	1256	423	SPZ (3x)
	160L	15		665	530	663	154	42	250	200	1152	1043	703	972	1004	1254	423	SPZ (3x)
	180M	18.5		661	530	663	154	48	224	180	1152	1043	711	972	1004	1264	423	SPA (3x)
	180L	22		662	530	663	154	48	250	200	1152	1043	711	972	1004	1265	423	SPA (3x)
	132M	7.5	1.4	666	530	663	154	38	224	160	1152	1043	593	972	1004	1229	423	SPZ (2x)
	132L	9.2		655	530	663	154	38	250	180	1152	1043	618	972	1004	1218	423	SPZ (2x)
	160M	11		666	530	663	154	42	224	160	1152	1043	703	972	1004	1255	423	SPZ (3x)
	160L	15		665	530	663	154	42	280	200	1152	1043	703	972	1004	1254	423	SPZ (3x)
	180M	18.5		665	530	663	154	48	250	180	1152	1043	711	972	1004	1268	423	SPA (3x)
	180L	22		663	530	663	154	48	280	200	1152	1043	711	972	1004	1266	423	SPA (3x)
	132M	7.5	1.6	670	530	663	154	38	250	160	1152	1043	593	972	1004	1233	423	SPZ (2x)
	132L	9.2		662	530	663	154	38	280	180	1152	1043	618	972	1004	1225	423	SPZ (2x)
	160M	11		670	530	663	154	42	250	160	1152	1043	703	972	1004	1259	423	SPZ (3x)
	160L	15		667	530	663	154	42	250	160	1152	1043	703	972	1004	1256	423	SPA (3x)
	180M	18.5		662	530	663	154	48	280	180	1152	1043	711	972	1004	1265	423	SPA (3x)
	180L	22		659	530	663	154	48	315	200	1152	1043	711	972	1004	1262	423	SPA (3x)
	132M	7.5	1.8	670	530	663	154	38	280	160	1152	1043	593	972	1004	1233	423	SPZ (2x)
	132L	9.2		651	530	663	154	38	315	180	1152	1043	618	972	1004	1214	423	SPZ (2x)
	160M	11		670	530	663	154	42	280	160	1152	1043	703	972	1004	1259	423	SPZ (3x)
	160L	15		668	530	663	154	42	280	160	1152	1043	703	972	1004	1257	423	SPA (3x)
	180M	18.5		661	530	663	154	48	315	180	1152	1043	711	972	1004	1264	423	SPA (3x)

X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.200	LVF X.210	PVF max	QVF	
X200 X210	160M	11	1.25	767	530	729	187	42	224	180	1367	1223	736	1059	1095	1396	474	SPZ (2x)
	160L	15		770	530	729	187	42	200	160	1367	1223	736	1059	1095	1399	474	SPZ (3x)
	180M	18.5		773	530	729	187	48	224	180	1367	1223	744	1059	1095	1416	474	SPZ (3x)
	180L	22		797	530	729	187	48	250	200	1367	1223	744	1059	1095	1440	474	SPZ (3x)
	200L	30		801	530	729	187	55	250	200	1367	1223	836	1059	1095	1459	474	SPA (6x)
	225S	37		800	530	729	187	60	265	212	1367	1223	804	1059	1095	1458	474	SPA (4x)
	225M	45		793	530	729	187	60	300	236	1367	1223	804	1059	1095	1451	474	SPZ (4x)
	160M	11	1.4	777	530	729	187	42	250	180	1367	1223	736	1059	1095	1406	474	SPZ (2x)
	160L	15		800	530	729	187	42	280	200	1367	1223	736	1059	1095	1429	474	SPZ (3x)
	180M	18.5		790	530	729	187	48	250	180	1367	1223	744	1059	1095	1433	474	SPZ (3x)
	180L	22		798	530	729	187	48	280	200	1367	1223	744	1059	1095	1441	474	SPZ (3x)
	200L	30		800	530	729	187	55	280	200	1367	1223	836	1059	1095	1458	474	SPA (6x)
	225S	37		797	530	729	187	60	280	200	1367	1223	804	1059	1095	1455	474	SPA (4x)
	225M	45		812	530	729	187	60	300	212	1367	1223	804	1059	1095	1470	474	SPZ (4x)
	160M	11	1.6	766	530	729	187	42	280	180	1367	1223	736	1059	1095	1395	474	SPZ (2x)
	160L	15		793	530	729	187	42	250	160	1367	1223	736	1059	1095	1422	474	SPZ (3x)
	180M	18.5		782	530	729	187	48	280	180	1367	1223	744	1059	1095	1425	474	SPZ (3x)
	180L	22		794	530	729	187	48	315	200	1367	1223	744	1059	1095	1437	474	SPZ (3x)
	200L	30		798	530	729	187	55	335	212	1367	1223	836	1059	1095	1456	474	SPA (6x)
	225S	37		793	530	729	187	60	355	224	1367	1223	804	1059	1095	1451	474	SPA (4x)
	225M	45		783	530	729	187	60	335	212	1367	1223	804	1059	1095	1441	474	SPZ (4x)
	160M	11	1.8	797	530	729	187	42	280	160	1367	1223	736	1059	1095	1426	474	SPZ (2x)
	160L	15		781	530	729	187	42	280	160	1367	1223	736	1059	1095	1410	474	SPZ (3x)

30593506/EN – 07/2023

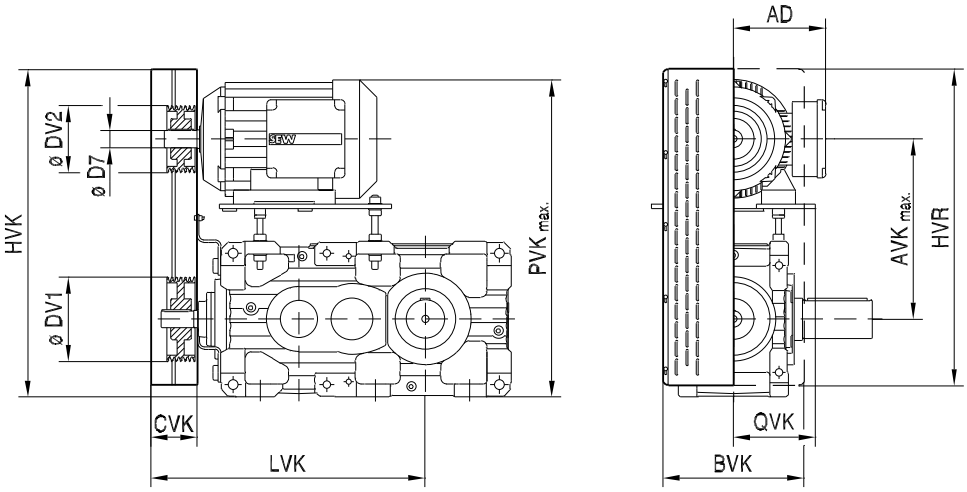
X4F	IEC	P_M kW	i	AVF max	BVF	BVR	CVF	Ø D7	Ø DV1	Ø DV2	HVF max	HVR	LBV	LVF X.220	LVF X.230	PVF max	QVF	
X220 X230	160M	11	1.25	767	530	763	187	42	224	180	1417	1223	736	1159	1199	1446	498	SPA (2x)
	160L	15		770	530	763	187	42	200	160	1417	1223	736	1159	1199	1449	498	SPA (3x)
	180M	18.5		773	530	763	187	48	224	180	1417	1223	744	1159	1199	1466	498	SPA (3x)
	180L	22		782	530	763	187	48	250	200	1417	1223	744	1159	1199	1475	498	SPA (3x)
	200L	30		801	530	763	187	55	250	200	1417	1223	836	1159	1199	1509	498	SPZ (6x)
	225S	37		800	530	763	187	60	265	212	1417	1223	804	1159	1199	1508	498	SPB (4x)
	225M	45		793	530	763	187	60	300	236	1417	1223	804	1159	1199	1501	498	SPB (4x)
	160M	11	1.4	777	530	763	187	42	250	180	1417	1223	736	1159	1199	1456	498	SPA (2x)
	160L	15		800	530	763	187	42	280	200	1417	1223	736	1159	1199	1479	498	SPZ (3x)
	180M	18.5		790	530	763	187	48	250	180	1417	1223	744	1159	1199	1483	498	SPA (3x)
	180L	22		798	530	763	187	48	280	200	1417	1223	744	1159	1199	1491	498	SPA (3x)
	200L	30		800	530	763	187	55	280	200	1417	1223	836	1159	1199	1508	498	SPZ (6x)
	225S	37		797	530	763	187	60	280	200	1417	1223	804	1159	1199	1505	498	SPB (4x)
	225M	45		812	530	763	187	60	300	212	1417	1223	804	1159	1199	1520	498	SPB (4x)
	160M	11	1.6	766	530	763	187	42	280	180	1417	1223	736	1159	1199	1445	498	SPA (2x)
	160L	15		793	530	763	187	42	250	160	1417	1223	736	1159	1199	1472	498	SPA (3x)
	180M	18.5		782	530	763	187	48	280	180	1417	1223	744	1159	1199	1475	498	SPA (3x)
	180L	22		794	530	763	187	48	315	200	1417	1223	744	1159	1199	1487	498	SPA (3x)
	200L	30		798	530	763	187	55	335	212	1417	1223	836	1159	1199	1506	498	SPB (3x)
	225S	37		793	530	763	187	60	355	224	1417	1223	804	1159	1199	1501	498	SPA (4x)
	225M	45		783	530	763	187	60	335	212	1417	1223	804	1159	1199	1491	498	SPB (4x)
	160M	11	1.8	797	530	763	187	42	280	160	1417	1223	736	1159	1199	1476	498	SPZ (3x)
	160L	15		781	530	763	187	42	280	160	1417	1223	736	1159	1199	1460	498	SPA (3x)
	180M	18.5		797	530	763	187	48	315	180	1417	1223	744	1159	1199	1490	498	SPA (3x)
	180L	22		786	530	763	187	48	355	200	1417	1223	744	1159	1199	1479	498	SPA (3x)
	200L	30		820	530	763	187	55	375	212	1417	1223	836	1159	1199	1528	498	SPB (3x)
	225S	37		790	530	763	187	60	400	224	1417	1223	804	1159	1199	1498	498	SPA (4x)

30593506/EN – 07/2023

14.24.3 X3K.. V-belt drives /VBD [mm]

X3K..

48 021 02 08



X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	ØDV1	ØDV2	HVK	HVR	LVK X.100	LVK X.110	PVK max.	QVK	
X100 X110	112M	4	1.25	170	468	440	132	28	125	100	789	783	683	703	837	175	SPZ (2x)
	132S	5.5		228	474	440	132	38	160	125	789	783	683	703	843	175	SPZ (2x)
	132M	7.5		253	473	440	132	38	200	160	789	783	683	703	891	175	SPZ (2x)
	132L	9.2		253	473	440	132	38	180	140	789	783	683	703	891	175	SPZ (3x)
	160M	11		268	473	440	132	42	200	160	789	783	683	703	917	175	SPZ (3x)
	160L	15		268	477	440	132	42	250	200	789	783	683	703	921	175	SPZ (3x)
	180M	18.5		268	471	440	132	48	250	200	789	783	683	703	929	175	SPA (3x)
	112M	4	1.4	170	480	440	132	28	140	100	789	783	683	703	849	175	SPZ (2x)
	132S	5.5		228	478	440	132	38	180	125	789	783	683	703	847	175	SPZ (2x)
	132M	7.5		253	472	440	132	38	224	160	789	783	683	703	890	175	SPZ (2x)
	132L	9.2		253	473	440	132	38	200	140	789	783	683	703	891	175	SPZ (3x)
	160M	11		268	472	440	132	42	224	160	789	783	683	703	916	175	SPZ (3x)
	160L	15		268	477	440	132	42	280	200	789	783	683	703	921	175	SPZ (3x)
	180M	18.5		268	477	440	132	48	250	180	789	783	683	703	935	175	SPA (3x)
	112M	4	1.6	170	476	440	132	28	160	100	789	783	683	703	845	175	SPZ (2x)
	132S	5.5		228	474	440	132	38	200	125	789	783	683	703	843	175	SPZ (2x)
	132M	7.5		253	469	440	132	38	250	160	789	783	683	703	887	175	SPZ (2x)
	132L	9.2		253	481	440	132	38	224	140	789	783	683	703	899	175	SPZ (3x)
	160M	11		268	469	440	132	42	250	160	789	783	683	703	913	175	SPZ (3x)
	160L	15		268	479	440	132	42	250	160	789	783	683	703	923	175	SPA (3x)
	180M	18.5		268	477	440	132	48	280	180	789	783	683	703	935	175	SPA (3x)
	112M	4	1.8	170	477	440	132	28	180	100	789	783	683	703	846	175	SPZ (2x)
	132S	5.5		228	479	440	132	38	224	125	789	783	683	703	848	175	SPZ (2x)
	132M	7.5		253	475	440	132	38	280	160	789	783	683	703	893	175	SPZ (2x)
	132L	9.2		253	471	440	132	38	250	140	789	783	683	703	889	175	SPZ (3x)
	160M	11		268	475	440	132	42	280	160	789	783	683	703	919	175	SPZ (3x)
	160L	15		268	475	440	132	42	280	160	789	783	683	703	919	175	SPA (3x)
	180M	18.5		268	472	440	132	48	315	180	789	783	683	703	930	175	SPA (3x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.120	LVK X.130	PVK max.	QVK	
X120 X130	132S	5.5	1.25	228	551	500	132	38	160	125	917	914	777	813	955	218	SPZ (2x)
	132M	7.5		253	548	500	132	38	200	160	917	914	777	813	1001	218	SPZ (2x)
	132L	9.2		253	554	500	132	38	180	140	917	914	777	813	1007	218	SPZ (3x)
	160M	11		268	548	500	132	42	200	160	917	914	777	813	1027	218	SPZ (3x)
	160L	15		268	552	500	132	42	250	200	917	914	777	813	1031	218	SPZ (3x)
	180M	18.5		268	548	500	132	48	224	180	917	914	777	813	1041	218	SPA (3x)
	180L	22		268	549	500	132	48	250	200	917	914	777	813	1042	218	SPA (3x)
	200L	30		283	552	500	132	55	250	200	917	914	777	813	1060	218	SPZ (6x)
	225S	37		305	550	500	132	60	265	212	917	914	777	813	1058	218	SPB (4x)
	225M	45		305	663	530	154	60	300	236	1042	914	799	835	1171	218	SPB (4x)
	132S	5.5	1.4	228	553	500	132	38	180	125	917	914	777	813	957	218	SPZ (2x)
	132M	7.5		253	553	500	132	38	224	160	917	914	777	813	1006	218	SPZ (2x)
	132L	9.2		253	551	500	132	38	200	140	917	914	777	813	1004	218	SPZ (3x)
	160M	11		268	553	500	132	42	224	160	917	914	777	813	1032	218	SPZ (3x)
	160L	15		268	552	500	132	42	280	200	917	914	777	813	1031	218	SPZ (3x)
	180M	18.5		268	552	500	132	48	250	180	917	914	777	813	1045	218	SPA (3x)
	180L	22		268	550	500	132	48	280	200	917	914	777	813	1043	218	SPA (3x)
	200L	30		283	552	500	132	55	280	200	917	914	777	813	1060	218	SPZ (6x)
	225S	37		305	546	500	132	60	300	212	917	914	777	813	1054	218	SPB (4x)
	225M	45		305	681	530	154	60	300	212	1042	914	799	835	1189	218	SPB (4x)
	132S	5.5	1.6	228	549	500	132	38	200	125	917	914	777	813	953	218	SPZ (2x)
	132M	7.5		253	551	500	132	38	250	160	917	914	777	813	1004	218	SPZ (2x)
	132L	9.2		253	556	500	132	38	224	140	917	914	777	813	1009	218	SPZ (3x)
	160M	11		268	551	500	132	42	250	160	917	914	777	813	1030	218	SPZ (3x)
	160L	15		268	551	500	132	42	250	160	917	914	777	813	1030	218	SPA (3x)
	180M	18.5		268	552	500	132	48	280	180	917	914	777	813	1045	218	SPA (3x)
	180L	22		268	546	500	132	48	315	200	917	914	777	813	1039	218	SPA (3x)
	200L	30		283	542	500	132	55	335	212	917	914	777	813	1050	218	SPB (3x)
	225S	37		305	545	500	132	60	355	224	917	914	777	813	1053	218	SPA (4x)
	225M	45		305	652	530	154	60	335	212	1042	914	799	835	1160	218	SPB (4x)
	132S	5.5	1.8	228	549	500	132	38	224	125	917	914	777	813	953	218	SPZ (2x)
	132M	7.5		253	544	500	132	38	280	160	917	914	777	813	997	218	SPZ (2x)
	132L	9.2		253	547	500	132	38	250	140	917	914	777	813	1000	218	SPZ (3x)
	160M	11		268	544	500	132	42	280	160	917	914	777	813	1023	218	SPZ (3x)
	160L	15		268	555	500	132	42	280	160	917	914	777	813	1034	218	SPA (3x)
	180M	18.5		268	548	500	132	48	315	180	917	914	777	813	1041	218	SPA (3x)
	180L	22		268	549	500	132	48	355	200	917	914	777	813	1042	218	SPA (3x)
	200L	30		283	558	500	132	55	375	212	917	914	777	813	1066	218	SPB (3x)
	225S	37		305	556	500	132	60	400	224	917	0	777	813	1064	218	SPA (4x)
	225M	45		305	659	530	154	60	355	200	1042	0	799	835	1167	218	SPB (5x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.140	LVK X.150	PVK max.	QVK	
	160L	15		268	552	500	132	42	250	200	957	914	902	944	1071	279	SPZ (3x)
	180M	18.5		268	661	530	154	48	224	180	1082	1043	924	966	1194	279	SPA (3x)
	180L	22		268	662	530	154	48	250	200	1082	1043	924	966	1195	279	SPA (3x)
	200L	30		283	665	530	154	55	250	200	1082	1043	924	966	1213	279	SPZ (6x)
	225S	37	1.25	305	660	530	154	60	265	212	1082	1043	924	966	1208	279	SPB (4x)
	225M	45		305	663	530	154	60	300	236	1082	1043	924	966	1211	279	SPB (4x)
	250M	55		394	758	580	187	65	335	265	1215	1207	957	999	1417	279	SPB (4x)
	280S	75		394	771	580	187	75	315	250	1215	1207	957	999	1430	279	SPB (6x)
	280M	90		394	771	580	187	75	315	250	1215	1207	957	999	1430	279	SPB (6x)
	160L	15		268	552	500	132	42	280	200	957	914	902	944	1071	279	SPZ (3x)
	180M	18.5		268	665	530	154	48	250	180	1082	1043	924	966	1198	279	SPA (3x)
	180L	22		268	663	530	154	48	280	200	1082	1043	924	966	1196	279	SPA (3x)
	200L	30		283	665	530	154	55	280	200	1082	1043	924	966	1213	279	SPZ (6x)
	225S	37	1.4	305	651	530	154	60	300	212	1082	1043	924	966	1199	279	SPB (4x)
	225M	45		305	681	530	154	60	300	212	1082	1043	924	966	1229	279	SPB (4x)
	250M	55		394	730	580	187	65	375	265	1215	1207	957	999	1389	279	SPB (4x)
	280S	75		394	738	580	187	75	355	250	1215	1207	957	999	1397	279	SPB (6x)
X140	280M	90		394	738	580	187	75	355	250	1215	1207	957	999	1397	279	SPB (6x)
X150	160L	15		268	551	500	132	42	250	160	957	914	902	944	1070	279	SPA (3x)
	180M	18.5		268	662	530	154	48	280	180	1082	914	924	966	1195	279	SPA (3x)
	180L	22		268	659	530	154	48	315	200	1082	1043	924	966	1192	279	SPA (3x)
	200L	30		283	667	530	154	55	335	212	1082	1043	924	966	1215	279	SPB (3x)
	225S	37	1.6	305	670	530	154	60	355	224	1082	1043	924	966	1218	279	SPA (4x)
	225M	45		305	652	530	154	60	335	212	1082	1043	924	966	1200	279	SPB (4x)
	250M	55		394	757	580	187	65	355	224	1215	1043	957	999	1416	279	SPB (5x)
	280S	75		394	771	580	187	75	400	250	1215	1207	957	999	1430	279	SPB (6x)
	280M	90		394	771	580	187	75	400	250	1215	1207	957	999	1430	279	SPB (6x)
	160L	15		268	555	500	132	42	280	160	957	1207	902	944	1074	279	SPA (3x)
	180M	18.5		268	661	530	154	48	315	180	1082	914	924	966	1194	279	SPA (3x)
	180L	22		268	675	530	154	48	355	200	1082	1043	924	966	1208	279	SPA (3x)
	200L	30		283	679	530	154	55	375	212	1082	1043	924	966	1227	279	SPB (3x)
	225S	37	1.8	305	680	530	154	60	400	224	1082	1043	924	966	1228	279	SPA (4x)
	225M	45		305	659	530	154	60	355	200	1082	1043	924	966	1207	279	SPB (5x)
	250M	55		394	739	580	187	65	400	224	1215	1043	957	999	1398	279	SPB (5x)
	280S	75		394	728	580	187	75	450	250	1215	1207	957	999	1387	279	SPB (6x)
	280M	90		394	728	580	187	75	450	250	1215	1207	957	999	1387	279	SPB (6x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.160	LVK X.170	PVK max.	QVK	
	180L	22		268	662	530	154	48	250	200	1132	1043	1052	1103	1245	320	SPA (3x)
	200L	30		283	665	530	154	55	250	200	1132	1043	1052	1103	1263	320	SPZ (6x)
	225S	37		305	660	530	154	60	265	212	1132	1043	1052	1103	1258	320	SPB (4x)
	225M	45		305	753	580	187	60	300	236	1265	1207	1085	1136	1351	320	SPB (4x)
	250M	55	1.25	394	758	580	187	65	335	265	1265	1207	1085	1136	1467	320	SPB (4x)
	280S	75		394	771	580	187	75	315	250	1265	1207	1085	1136	1480	320	SPB (6x)
	280M	90		394	771	580	187	75	315	250	1265	1207	1085	1136	1480	320	SPB (6x)
	315S	110		506	754	580	187	80	375	300	1265	1207	1085	1136	1575	320	SPB (6x)
	315M	132		506	752	580	187	80	425	335	1265	1207	1085	1136	1573	320	SPB (4x)
	180L	22		268	663	530	154	48	280	200	1132	1043	1052	1103	1246	320	SPA (3x)
	200L	30		283	665	530	154	55	280	200	1132	1043	1052	1103	1263	320	SPZ (6x)
	225S	37		305	651	530	154	60	300	212	1132	1043	1052	1103	1249	320	SPB (4x)
	225M	45		305	742	580	187	60	300	212	1265	1207	1085	1136	1340	320	SPB (4x)
	250M	55	1.4	394	730	580	187	65	375	265	1265	1207	1085	1136	1439	320	SPB (4x)
	280S	75		394	738	580	187	75	355	250	1265	1207	1085	1136	1447	320	SPB (6x)
	280M	90		394	738	580	187	75	355	250	1265	1207	1085	1136	1447	320	SPB (6x)
	315S	110		506	756	580	187	80	450	335	1265	1207	1085	1136	1577	320	SPB (6x)
X160	315M	132		506	746	580	187	80	450	315	1265	1207	1085	1136	1567	320	SPB (4x)
X170	180L	22		268	659	530	154	48	315	200	1132	1043	1132	1103	1242	320	SPA (3x)
	200L	30		283	667	530	154	55	335	212	1132	1043	1132	1103	1265	320	SPB (3x)
	225S	37		305	670	530	154	60	355	224	1132	1043	1132	1103	1268	320	SPA (4x)
	225M	45		305	783	580	187	60	335	212	1265	1207	1265	1136	1381	320	SPB (4x)
	250M	55	1.6	394	757	580	187	65	355	224	1265	1207	1265	1136	1466	320	SPB (5x)
	280S	75		394	771	580	187	75	400	250	1265	1207	1265	1136	1480	320	SPB (6x)
	280M	90		394	771	580	187	75	400	250	1265	1207	1265	1136	1480	320	SPB (6x)
	315S	110		506	756	580	187	80	400	250	1265	1207	1265	1136	1577	320	SPB (6x)
	315M	132		506	761	580	187	80	400	250	1265	1207	1265	1136	1582	320	SPB (6x)
	180L	22		268	675	530	154	48	355	200	1132	1043	1052	1103	1258	320	SPA (3x)
	200L	30		283	679	530	154	55	375	212	1132	1043	1052	1103	1277	320	SPB (3x)
	225S	37		305	680	530	154	60	400	224	1132	1043	1052	1103	1278	320	SPA (4x)
	225M	45		305	775	580	187	60	355	200	1265	1207	1085	1136	1373	320	SPB (5x)
	250M	55	1.8	394	739	580	187	65	400	224	1265	1207	1085	1136	1448	320	SPB (5x)
	280S	75		394	728	580	187	75	450	250	1265	1207	1085	1136	1437	320	SPB (6x)
	280M	90		394	728	580	187	75	450	250	1265	1207	1085	1136	1437	320	SPB (6x)
	315S	110		506	750	580	187	80	425	236	1265	1207	1085	1136	1571	320	SPB (6x)
	315M	132		506	750	580	187	80	425	236	1265	1207	1085	1136	1571	320	SPB (6x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.180	LVK X.190	PVK max.	QVK	
	200L	30		283	657	530	154	55	224	180	1152	1043	1146	1178	1275	319	SPB (4x)
	225S	37		305	800	530	187	60	265	212	1327	1223	1179	1211	1418	319	SPB (4x)
	225M	45		305	793	530	187	60	300	236	1327	1223	1179	1211	1411	319	SPB (4x)
	280S	75	1.25	394	916	750	197	75	315	250	1524	1523	1189	1221	1645	319	SPB (6x)
	280M	90		394	904	750	197	75	375	300	1524	1523	1189	1221	1633	319	SPB (6x)
	315S	110		506	872	750	197	80	400	315	1524	1523	1189	1221	1713	319	SPB (6x)
	315M	132		506	872	750	197	80	400	315	1524	1523	1189	1221	1713	319	SPB (6x)
	200L	30		283	666	530	154	55	315	224	1152	1043	1146	1178	1284	319	SPA (4x)
	225S	37		305	812	530	187	60	300	212	1327	1223	1179	1211	1430	319	SPB (4x)
	225M	45		305	812	530	187	60	300	212	1327	1223	1179	1211	1430	319	SPB (4x)
	280S	75	1.4	394	898	750	197	75	355	250	1524	1523	1189	1221	1627	319	SPB (6x)
	280M	90		394	899	750	197	75	400	280	1524	1523	1189	1221	1628	319	SPB (6x)
	315S	110		506	932	750	197	80	450	315	1524	1523	1189	1221	1773	319	SPB (6x)
X180	315M	132		506	932	750	197	80	450	315	1524	1523	1189	1221	1773	319	SPB (6x)
X190	200L	30		283	667	530	154	55	335	212	1152	1043	1146	1178	1285	319	SPB (3x)
	225S	37		305	793	530	187	60	355	224	1327	1223	1179	1211	1411	319	SPA (4x)
	225M	45		305	783	530	187	60	335	212	1327	1223	1179	1211	1401	319	SPB (4x)
	280S	75	1.6	394	921	750	197	75	400	250	1524	1523	1189	1221	1650	319	SPB (6x)
	280M	90		394	908	750	197	75	450	280	1524	1523	1189	1221	1637	319	SPB (6x)
	315S	110		506	890	750	197	80	500	315	1524	1523	1189	1221	1731	319	SPB (6x)
	315M	132		506	890	750	197	80	500	315	1524	1523	1189	1221	1731	319	SPB (6x)
	200L	30		283	679	530	154	55	375	212	1152	1043	1146	1178	1297	319	SPB (3x)
	225S	37		305	790	530	187	60	400	224	1327	1223	1179	1211	1408	319	SPA (4x)
	225M	45		305	795	530	187	60	355	200	1327	1223	1179	1211	1413	319	SPB (5x)
	280S	75	1.8	394	899	750	197	75	450	250	1524	1523	1189	1221	1628	319	SPB (6x)
	280M	90		394	916	750	197	75	500	280	1524	1523	1189	1221	1645	319	SPB (6x)
	315S	110		506	924	750	197	80	560	315	1524	1523	1189	1221	1765	319	SPB (6x)
	315M	132		506	924	750	197	80	560	315	1524	1523	1189	1221	1765	319	SPB (6x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.200	LVK X.210	PVK max.	QVK	
	200L	30		283	792	530	187	55	280	224	1367	1223	1297	1333	1450	319	SPA (5x)
	225S	37		305	792	530	187	60	280	224	1367	1223	1297	1333	1450	319	SPA (5x)
	225M	45		305	791	530	187	60	315	250	1367	1223	1297	1333	1449	319	SPB (4x)
	280S	75		394	916	750	197	75	315	250	1564	1523	1307	1343	1685	319	SPB (6x)
	280M	90	1.25	394	904	750	197	75	375	300	1564	1523	1307	1343	1673	319	SPB (6x)
	315S	110		506	897	750	197	80	400	315	1564	1523	1307	1343	1778	319	SPB (8x)
	315M	132		506	897	750	197	80	400	315	1564	1523	1307	1343	1778	319	SPB (8x)
	315L	160		506	937	750	197	80	425	335	1564	1523	1307	1343	1883	319	SPC (6x)
	315H	200		506	937	750	197	80	425	335	1564	1523	1307	1343	1883	319	SPC (6x)
	200L	30		283	790	530	187	55	315	224	1367	1223	1297	1333	1448	319	SPB (4x)
	225S	37		305	790	530	187	60	315	224	1367	1223	1297	1333	1448	319	SPB (4x)
	225M	45		305	785	530	187	60	335	236	1367	1223	1297	1333	1443	319	SPB (4x)
	280S	75		394	898	750	197	75	355	250	1564	1523	1307	1343	1667	319	SPB (6x)
	280M	90	1.4	394	899	750	197	75	400	280	1564	1523	1307	1343	1668	319	SPB (6x)
	315S	110		506	881	750	197	80	450	315	1564	1523	1307	1343	1762	319	SPB (8x)
	315M	132		506	881	750	197	80	450	315	1564	1523	1307	1343	1762	319	SPB (8x)
	315L	160		506	896	750	197	80	475	335	1564	1523	1307	1343	1792	319	SPC (6x)
X200	315H	200		506	896	750	197	80	475	335	1564	1523	1307	1343	1792	319	SPC (6x)
X210	200L	30		283	808	530	187	55	315	200	1367	1223	1297	1333	1466	319	SPB (4x)
	225S	37		305	808	530	187	60	315	200	1367	1223	1297	1333	1466	319	SPB (4x)
	225M	45		305	783	530	187	60	335	212	1367	1223	1297	1333	1441	319	SPB (4x)
	280S	75		394	921	750	197	75	400	250	1564	1523	1307	1343	1690	319	SPB (6x)
	280M	90	1.6	394	908	750	197	75	450	280	1564	1523	1307	1343	1677	319	SPB (6x)
	315S	110		506	890	750	197	80	500	315	1564	1523	1307	1343	1771	319	SPB (8x)
	315M	132		506	890	750	197	80	500	315	1564	1523	1307	1343	1771	319	SPB (8x)
	315L	160		506	910	750	197	80	560	335	1564	1523	1307	1343	1806	319	SPC (6x)
	315H	200		506	910	750	197	80	560	335	1564	1523	1307	1343	1806	319	SPC (6x)
	200L	30		283	795	530	187	55	355	200	1367	1223	1297	1333	1453	319	SPB (4x)
	225S	37		305	795	530	187	60	355	200	1367	1223	1297	1333	1453	319	SPB (4x)
	225M	45		305	795	530	187	60	355	200	1367	1223	1297	1333	1453	319	SPB (5x)
	280S	75		394	899	750	197	75	450	250	1564	1523	1307	1343	1668	319	SPB (6x)
	280M	90	1.8	394	916	750	197	75	500	280	1564	1523	1307	1343	1685	319	SPB (6x)
	315S	110		506	924	750	197	80	560	315	1564	1523	1307	1343	1805	319	SPB (8x)
	315M	132		506	924	750	197	80	560	315	1564	1523	1307	1343	1805	319	SPB (8x)
	315L	160		506	950	750	197	80	630	335	1564	1523	1307	1343	1846	319	SPC (6x)
	315H	200		506	950	750	197	80	630	335	1564	1523	1307	1343	1846	319	SPC (6x)

30593506/EN – 07/2023

X3K..	IEC	P_M kW	i	AD	AVK max.	BVK	CVK	Ø D7	Ø DV1	Ø DV2	HVK	HVR	LVK X.220	LVK X.230	PVK max.	QVK	
X220 X230	200L	30	1.25	283	792	530	187	55	280	224	1367	1223	1417	1482	1500	319	SPA (5x)
	225S	37		305	792	530	187	60	280	224	1367	1223	1417	1482	1500	319	SPA (5x)
	225M	45		305	791	530	187	60	315	250	1367	1223	1417	1482	1499	319	SPB (4x)
	280S	75		394	916	750	197	75	315	250	1564	1523	1614	1492	1735	319	SPB (6x)
	280M	90		394	904	750	197	75	375	300	1564	1523	1614	1492	1723	319	SPB (6x)
	315S	110		506	897	750	197	80	400	315	1564	1523	1614	1492	1828	319	SPB (8x)
	315M	132		506	897	750	197	80	400	315	1564	1523	1614	1492	1828	319	SPB (8x)
	315L	160		506	937	750	197	80	425	335	1564	1523	1614	1492	1883	319	SPC (6x)
	315H	200		506	937	750	197	80	425	335	1564	1523	1614	1492	1883	319	SPC (6x)
	200L	30	1.4	283	790	530	187	55	315	224	1367	1223	1417	1482	1498	319	SPB (4x)
	225S	37		305	790	530	187	60	315	224	1367	1223	1417	1482	1498	319	SPB (4x)
	225M	45		305	785	530	187	60	335	236	1367	1223	1417	1482	1493	319	SPB (4x)
	280S	75		394	898	750	197	75	355	250	1564	1523	1614	1492	1717	319	SPB (6x)
	280M	90		394	899	750	197	75	400	280	1564	1523	1614	1492	1718	319	SPB (6x)
	315S	110		506	881	750	197	80	450	315	1564	1523	1614	1492	1812	319	SPB (8x)
	315M	132		506	881	750	197	80	450	315	1564	1523	1614	1492	1812	319	SPB (8x)
	315L	160		506	896	750	197	80	475	335	1564	1523	1614	1492	1842	319	SPC (6x)
	315H	200		506	896	750	197	80	475	335	1564	1523	1614	1492	1842	319	SPC (6x)
	200L	30	1.6	283	808	530	187	55	315	200	1367	1223	1417	1482	1516	319	SPB (4x)
	225S	37		305	808	530	187	60	315	200	1367	1223	1417	1482	1516	319	SPB (4x)
	225M	45		305	783	530	187	60	335	212	1367	1223	1417	1482	1491	319	SPB (4x)
	280S	75		394	921	750	197	75	400	250	1564	1523	1614	1492	1740	319	SPB (6x)
	280M	90		394	908	750	197	75	450	280	1564	1523	1614	1492	1727	319	SPB (6x)
	315S	110		506	890	750	197	80	500	315	1564	1523	1614	1492	1821	319	SPB (8x)
	315M	132		506	890	750	197	80	500	315	1564	1523	1614	1492	1821	319	SPB (8x)
	315L	160		506	910	750	197	80	560	335	1564	1523	1614	1492	1856	319	SPC (6x)
	315H	200		506	910	750	197	80	560	335	1564	1523	1614	1492	1856	319	SPC (6x)
	200L	30	1.8	283	795	530	187	55	355	200	1367	1223	1417	1482	1503	319	SPB (4x)
	225S	37		305	795	530	187	60	355	200	1367	1223	1417	1482	1503	319	SPB (4x)
	225M	45		305	795	530	187	60	355	200	1367	1523	1417	1482	1503	319	SPB (5x)
	280S	75		394	899	750	197	75	450	250	1564	1523	1614	1492	1718	319	SPB (6x)
	280M	90		394	916	750	197	75	500	280	1564	1523	1614	1492	1735	319	SPB (6x)
	315S	110		506	924	750	197	80	560	315	1564	1523	1614	1492	1855	319	SPB (8x)
	315M	132		506	924	750	197	80	560	315	1564	1523	1614	1492	1855	319	SPB (8x)
	315L	160		506	950	750	197	80	630	335	1564	1523	1614	1492	1896	319	SPC (6x)
	315H	200		506	950	750	197	80	630	335	1564	1223	1614	1492	1896	319	SPC (6x)

30593506/EN – 07/2023

14.25 IEC motor adapter /MA [mm]

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter".

With horizontal housings /HH, the motor adapter is available for sizes X3F100 – 210 and X3K100 – 210.

14.25.1 Information for connecting a motor by SEW-EURODRIVE to the IEC motor adapter

SEW-motor on motor adapter	P_M kW	M_{ne} rpm	Motor weight kg	Brakemotor weight kg	Brake	STD braking torque Nm	Motor adapter	IEC flange	Ø shaft end
IEC motor standard IE3									
DRN100L4	3	1456	34	40	BE5	40	IEC100	250	28
DRN112M 4	4	1464	45	52	BE5	55	IEC112	250	28
DRN132S 4	5,5	1461	56	71	BE11	80	IEC132	300	38
DRN132M 4	7,5	1468	73	91	BE11	110	IEC132	300	38
DRN132L 4	9,2	1470	81	110	BE20	150	IEC132	300	38
DRN160M 4	11	1473	115	145	BE20	150	IEC160	350	42
DRN160L 4	15	1474	130	165	BE20	200	IEC160	350	42
DRN180M 4	18,5	1478	155	195	BE30	300	IEC180	350	48
DRN180L 4	22	1477	170	210	BE30	300	IEC180	350	48
DRN200L 4	30	1480	280	335	BE32	400	IEC200	400	55
DRN225S 4	37	1482	310	365	BE32	500	IEC225	450	60
DRN225M 4	45	1482	310	365	BE32	600	IEC225	450	60
DRN250M 4	55	1482	460	550	BE62	800	IEC250	550	65
DRN280S 4	75	1482	520	600	BE62	1000	IEC280	550	75
DRN280M 4	90	1481	630	720	BE62	1200	IEC280	550	75
DRN315S 4	110	1488	870	1000	BE122	1600	IEC315S–L	660	80
DRN315L 4	160	1486	1020	1150	BE122	2000	IEC315S–L	660	80
DRN315H 4	200	1489	1140	1270	BE122	2000	IEC315S–L	660	80

30593506/EN – 07/2023

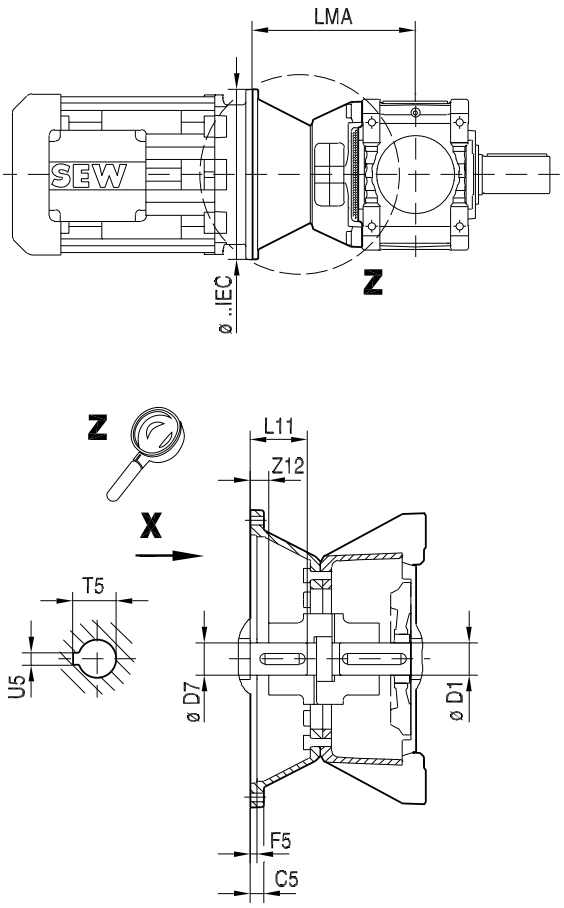
14.25.2 IEC motor adapter X2F100 – 250

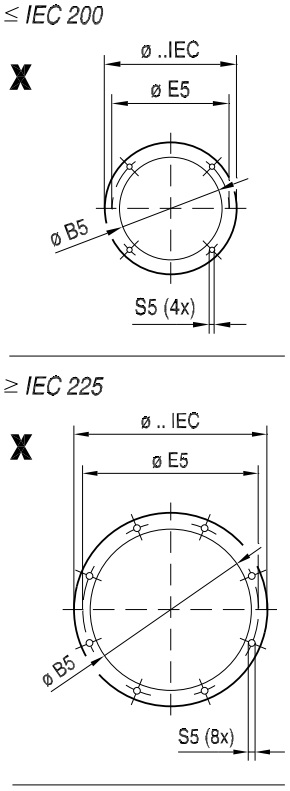
INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X2F..

48 016 03 07





→ 🕮 102

30593506/EN – 07/2023

												i = 6.3 ... 11.2* i = 7.1 ... 12.5** i = 8 ... 14***			i = 12.5 ... 18* i = 14 ... 20** i = 16 ... 22.4***			kg
X2F..	**IEC**	**Ø IEC**	**Ø B5**	**C5**	**Ø D7**	**Ø E5**	**F5**	**L11**	**S5**	**T5**	**U5**	**Ø D1**	**LMA**	**Z12**	**Ø D1**	**LMA**	**Z12**	
X100**	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	–	–	–	32	379	66	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	–	–	–	32	379	47.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	42	391	53	32	391	58	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	42	421	72	32	421	72	55
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	42	451	64	32	451	77	75
X110***	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	–	–	–	32	379	66	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	–	–	–	32	379	47.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	42	391	53	32	391	58	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	42	421	72	32	421	72	55
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	42	451	64	32	451	77	75
X120*	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	55	403	13	42	403	54	60
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	55	433	17	42	433	17	75
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	55	463	44.5	42	463	37.5	90
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	55	463	47	42	463	47	90
X130***	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	55	403	13	42	403	54	60
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	55	433	17	42	433	17	75
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	55	463	44.5	42	463	37.5	90
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	55	463	47	42	463	47	90
X140*	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	520.5	53.5	55	520.5	60.5	110
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	520.5	48.5	55	520.5	62.5	110
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	520.5	31	55	520.5	31	135
X150***	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	520.5	53.5	55	520.5	60.5	110
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	520.5	48.5	55	520.5	62.5	110
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	520.5	31	55	520.5	31	135
X160*	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	–	–	–	70	550.5	42	135
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	–	–	–	70	550.5	50	135
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	589.5	47.5	70	589.5	62	165
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	625.5	46	70	625.5	72	210
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	665.5	88	–	–	–	235
X170***	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	–	–	–	70	550.5	42	135
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	–	–	–	70	550.5	50	135
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	589.5	47.5	70	589.5	62	165
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	625.5	46	70	625.5	72	210
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	665.5	88	–	–	–	235
X180*	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	90	621.5	39	75	621.5	62	170
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	90	657.5	38	75	657.5	73	215
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	90	697.5	83	75	697.5	88	240
X190**	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	90	621.5	39	75	621.5	62	170
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	90	657.5	38	75	657.5	73	215
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	90	697.5	83	75	697.5	88	240
X200*	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	676.5	18	90	676.5	33	240
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	716.5	56	90	716.5	78	240
X210**	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	676.5	18	90	676.5	33	240
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	716.5	56	90	716.5	78	240
X220*	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	711	18	100	711	18	245
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	751	56	100	751	56	275
X230**	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	711	18	100	711	18	245
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	751	56	100	751	56	275
X240*	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	795.5	38	110	795.5	56	295
X250**	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	795.5	38	110	795.5	56	295

30593506/EN – 07/2023

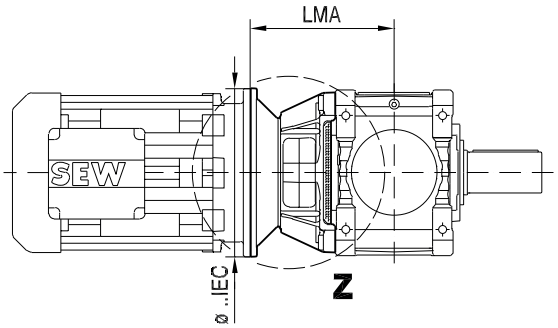
14.25.3 IEC motor adapter X3F100 – 270

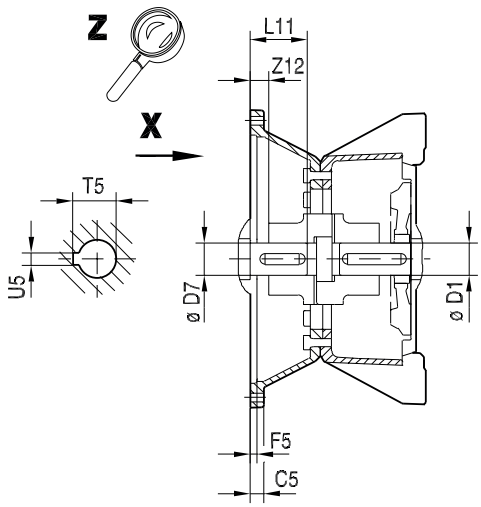
INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X3F..

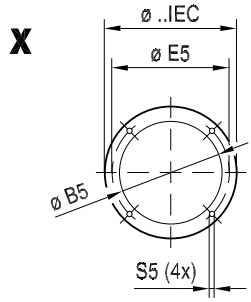
48 017 03 07



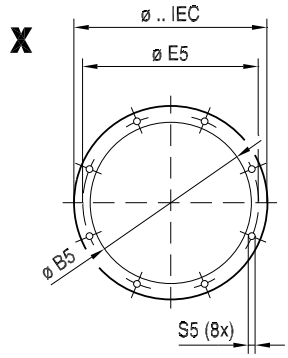


→ 📖 102

≤ *IEC 200*



≥ *IEC 225*



30593506/EN – 07/2023

												i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***			i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***			kg
X3F..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X100**	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	351	30.5	32	351	30.5	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	379	66	32	379	66	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	379	47.5	32	379	47.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	391	58	32	391	58	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	421	72	32	421	72	55
X110***	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	351	30.5	32	351	30.5	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	379	66	32	379	66	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	379	47.5	32	379	47.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	391	58	32	391	58	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	421	72	32	421	72	55
X120*	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	363	36	38	363	36	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	391	64	38	391	64	50
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	391	48	38	391	48	50
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	403	56	38	403	56	60
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	433	70	38	433	70	65
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	463	49	38	463	49	90
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	463	50	38	463	50	90
X130***	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	363	36	38	363	36	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	391	64	38	391	64	50
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	391	48	38	391	48	50
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	403	56	38	403	56	60
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	433	70	38	433	70	65
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	463	49	38	463	49	90
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	463	50	38	463	50	90
X140*	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	45	448.5	62	45	448.5	62	70
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	45	448.5	48	45	448.5	48	70
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	45	460.5	59	45	460.5	59	80
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	45	490.5	42.5	45	490.5	42.5	95
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	45	520.5	73	45	520.5	73	110
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	45	520.5	64	45	520.5	64	110
X150***	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	45	448.5	62	45	448.5	62	70
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	45	448.5	48	45	448.5	48	70
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	45	460.5	59	45	460.5	59	80
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	45	490.5	42.5	45	490.5	42.5	95
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	45	520.5	73	45	520.5	73	110
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	45	520.5	64	45	520.5	64	110
X160*	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	–	–	–	50	483.5	51.5	105
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	–	–	–	50	483.5	48.5	105
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	510.5	37	50	510.5	61	120
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	540.5	42	50	540.5	53	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	550.5	46	50	550.5	63	140
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	550.5	46	50	550.5	63	140
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	589.5	67	60	589.5	69	165
X170***	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	–	–	–	50	483.5	51.5	105
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	–	–	–	50	483.5	48.5	105
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	510.5	37	50	510.5	61	120
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	540.5	42	50	540.5	53	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	550.5	46	50	550.5	63	140
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	550.5	46	50	550.5	63	140
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	589.5	67	60	589.5	69	165
X180*	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	543	37	55	543	68	125
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	572.5	37	55	573	67	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	582.5	52	55	583	62	145
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	582.5	52	55	583	62	145
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	621.5	66	70	621.5	66	175
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	657.5	77	70	657.5	87	215
X190**	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	543	37	55	542.5	68	125
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	572.5	37	55	572.5	67	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	582.5	52	55	582.5	62	145
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	582.5	52	55	582.5	62	145
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	621.5	66	70	621.5	66	175
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	657.5	77	70	657.5	87	215
X200*	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	75	591.5	56	60	591.5	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	75	601.5	52	60	601.5	52	175
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	75	601.5	52	60	601.5	57	175
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	75	640.5	61	60	640.5	61	200
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	75	676.5	62	60	676.5	62	245
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	75	716.5	87	60	716.5	112	270

												i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***			i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***			kg
X3F..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X210**	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	75	591.5	56	60	591.5	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	75	601.5	52	60	601.5	52	175
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	75	601.5	52	60	601.5	57	175
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	75	640.5	61	60	640.5	61	200
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	75	676.5	62	60	676.5	62	245
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	75	716.5	87	60	716.5	112	270
X220*	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	636	29	70	636	54	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	636	24	70	636	59	190
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	675	48	70	675	63	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	711	59	70	711	79	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	751	89	70	751	94	275
X230**	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	636	29	70	636	54	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	636	24	70	636	59	190
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	675	48	70	675	63	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	711	59	70	711	79	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	751	89	70	751	94	275
X240*	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	90	680.5	4	75	680.5	49	200
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	90	680.5	4	75	680.5	54	200
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	90	719.5	53	75	719.5	58	230
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	90	755.5	44	75	755.5	74	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	90	795.5	89	75	795.5	84	295
X250**	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	90	681	4	75	681	49	200
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	90	681	4	75	681	54	200
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	90	720	53	75	720	58	230
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	90	756	44	75	756	74	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	90	796	89	75	796	84	295

												i = 20 ... 50* i = 22.4 ... 56**			i = 56 ... 90* i = 63 ... 100**			kg
X3F..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X260*	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	785.5	33	80	785.5	73	260
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	821.5	39	80	821.5	59	300
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	861.5	56	80	861.5	109	325
X270**	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	785.5	33	80	785.5	73	260
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	821.5	39	80	821.5	59	300
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	861.5	56	80	861.5	109	325

30593506/EN – 07/2023

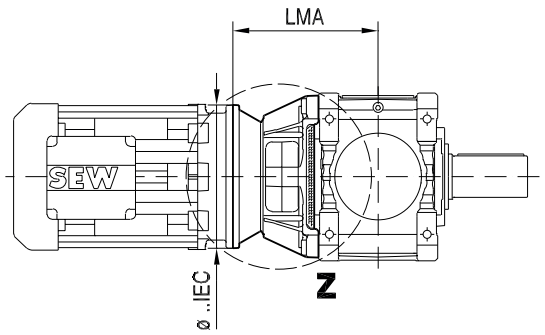
14.25.4 IEC motor adapter X4F120 – 270

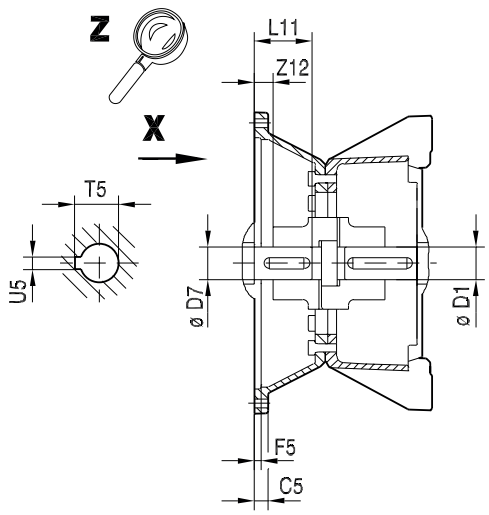
INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X4F..

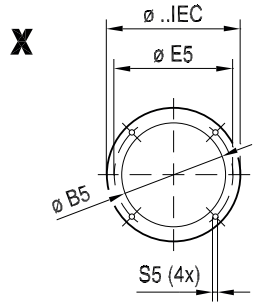
48 018 03 07



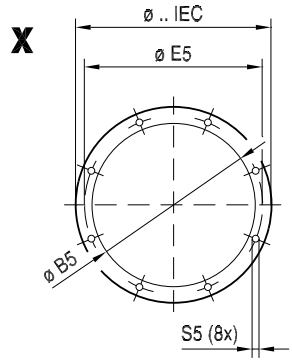


→ 📖 102

≤ *IEC 200*



≥ *IEC 225*



30593506/EN – 07/2023

IEC motor adapter /MA [mm]

												i = 100 ... 180* i = 112 ... 200** i = 125 ... 224***			i = 200 ... 355* i = 224 ... 400** i = 250 ... 450***			kg
X4F..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X120*	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	353	31	28	353	31	45
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	353	31	28	353	31	45
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	363	41	28	363	41	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	391	74	28	391	74	50
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	391	59	28	391	59	50
X130***	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	353	31	28	353	31	45
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	353	31	28	353	31	45
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	363	41	28	363	41	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	391	74	28	391	74	50
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	391	59	28	391	59	50
X140*	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	410.5	39	32	410.5	39	65
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	410.5	39	32	410.5	39	65
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	420.5	49	32	420.5	49	70
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	448.5	77	32	448.5	77	75
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	448.5	72	32	448.5	72	75
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	32	460.5	69	32	460.5	69	80
X150***	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	410.5	39	32	410.5	39	65
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	410.5	39	32	410.5	39	65
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	420.5	49	32	420.5	49	70
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	448.5	77	32	448.5	77	75
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	448.5	72	32	448.5	72	75
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	32	460.5	69	32	460.5	69	80
X160*	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	450.5	47	38	450.5	47	47
	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	483.5	80	38	483.5	80	80
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	483.5	65	38	483.5	65	65
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	510.5	71	38	510.5	71	71
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	540.5	75.5	38	540.5	75.5	75.5
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	550.5	76	38	550.5	76	76
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	550.5	86	38	550.5	86	86
X170***	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	450.5	47	38	450.5	47	47
	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	483.5	80	38	483.5	80	80
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	483.5	65	38	483.5	65	65
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	510.5	71	38	510.5	71	71
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	540.5	75.5	38	540.5	75.5	75.5
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	550.5	76	38	550.5	76	76
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	550.5	86	38	550.5	86	86
X180*	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	515.5	53	38	515.5	66	115
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	515.5	53	38	515.5	63	115
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	542.5	55	38	542.5	67	120
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	572.5	82	38	572.5	97	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	582.5	75	38	582.5	92	145
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	582.5	65	38	582.5	87	145
X190**	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	515.5	53	38	515.5	66	115
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	515.5	53	38	515.5	63	115
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	542.5	55	38	542.5	67	120
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	572.5	82	38	572.5	97	130
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	582.5	75	38	582.5	92	145
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	582.5	65	38	582.5	87	145
X200*	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	55	534.5	53	42	534.5	66	140
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	55	534.5	53	42	534.5	53	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	55	561.5	68	42	561.5	68	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	55	591.5	77	42	591.5	80	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	55	601.5	75	42	601.5	75	175
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	55	601.5	65	42	601.5	65	175
X210**	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	55	534.5	27	42	534.5	66	140
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	55	534.5	17	42	534.5	53	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	55	561.5	68	42	561.5	68	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	55	591.5	77	42	591.5	80	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	55	601.5	75	42	601.5	75	175
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	55	601.5	65	42	601.5	65	175
X220*	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	569	27	50	569	57	150
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	569	17	50	569	57	150
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	596	55	50	596	55	160
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	626	75	50	626	69	165
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	636	64	50	636	69	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	636	64	50	636	65	180
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	675	80	50	675	100	210

30593506/EN – 07/2023

SEW EURODRIVE

												i = 100 ... 180* i = 112 ... 200** i = 125 ... 224***			i = 200 ... 355* i = 224 ... 400** i = 250 ... 450***			kg
X4F..	**IEC**	**Ø IEC**	**Ø B5**	**C5**	**Ø D7**	**Ø E5**	**F5**	**L11**	**S5**	**T5**	**U5**	**Ø D1**	**LMA**	**Z12**	**Ø D1**	**LMA**	**Z12**	
X230**	160	350	250^{H7}	22	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	569	27	50	569	57	150
	180	350	250^{H7}	22	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	569	17	50	569	57	150
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	596	55	50	596	55	160
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	626	75	50	626	69	165
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	636	64	50	636	69	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	636	64	50	636	65	180
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	675	80	50	675	100	210
X240*	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	640.5	44	55	640.5	70	180
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	670.5	74.5	55	670.5	74	185
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	680.5	54	55	680.5	74	200
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	680.5	54	55	680.5	65	200
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	719.5	73	55	719.5	103	230
X250**	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	640.5	44	55	640.5	70	180
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	670.5	74.5	55	670.5	74	185
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	680.5	54	55	680.5	74	200
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	680.5	54	55	680.5	65	200
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	719.5	73	55	719.5	103	230
X260*	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	75	706.5	44	60	706.5	70	210
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	75	736.5	64	60	736.5	69	215
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	75	746.5	69	60	746.5	69	230
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	75	746.5	69	60	746.5	65	230
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	75	785.5	78	60	785.5	90	260
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	75	821.5	82	60	821.5	82	300
X270*	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	75	706.5	44	60	706.5	70	210
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	75	736.5	64	60	736.5	69	215
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	75	746.5	69	60	746.5	69	230
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	75	746.5	69	60	746.5	65	230
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	75	785.5	78	60	785.5	90	260
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	75	821.5	82	60	821.5	82	300

30593506/EN – 07/2023

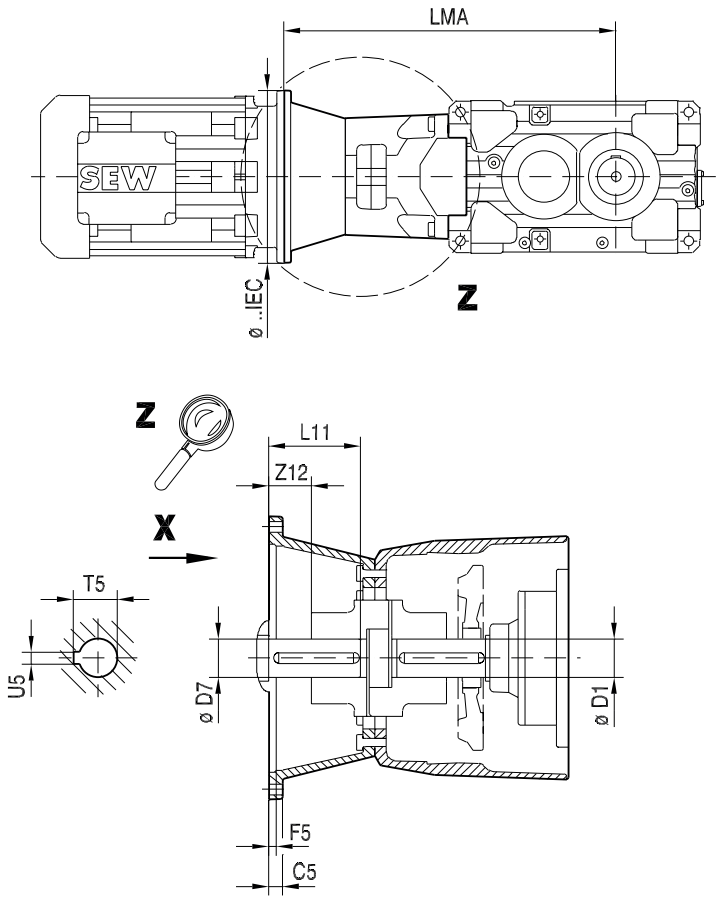
14.25.5 IEC motor adapter X2K100 – 230

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

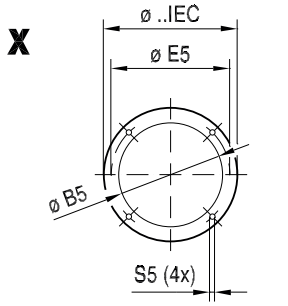
X2K..

48 013 03 07

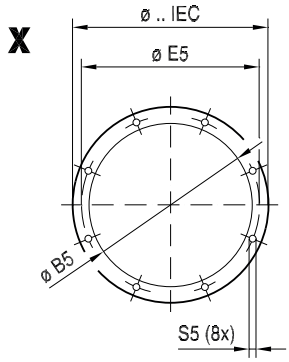


→ 📖 102

≤ IEC 200



≥ IEC 225



30593506/EN – 07/2023

X2K..	IEC	Ø IEC	Ø IB5	C5	Ø D7	Ø IE5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X100	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	768	38	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	798	66	55
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	828	73	73
X110	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	788	38	50
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	818	66	55
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	848	73	73
X120	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	60	895	36	70
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	925	48	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	925	47	85
X130	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	60	931	36	70
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	961	48	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	961	47	85
X140	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	989	54	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	989	49	100
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	989	32.5	130
X150	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	1031	54	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	1031	49	100
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1031	32.5	130
X160	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	1183	43	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	1219	46	190
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1259	84	220
X170	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	1234	43	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	1270	46	190
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1310	84	220
X180	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	1310	34	170
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1346	40	215
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1386	80	240
X190	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	1342	34	170
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1378	40	215
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1418	80	240
X200	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	1441	18	230
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	1481	42.5	260
X210	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	1477	18	230
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	1517	42.5	260
X220	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	120	1649	38	300
X230	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	120	1689	38	300

30593506/EN – 07/2023

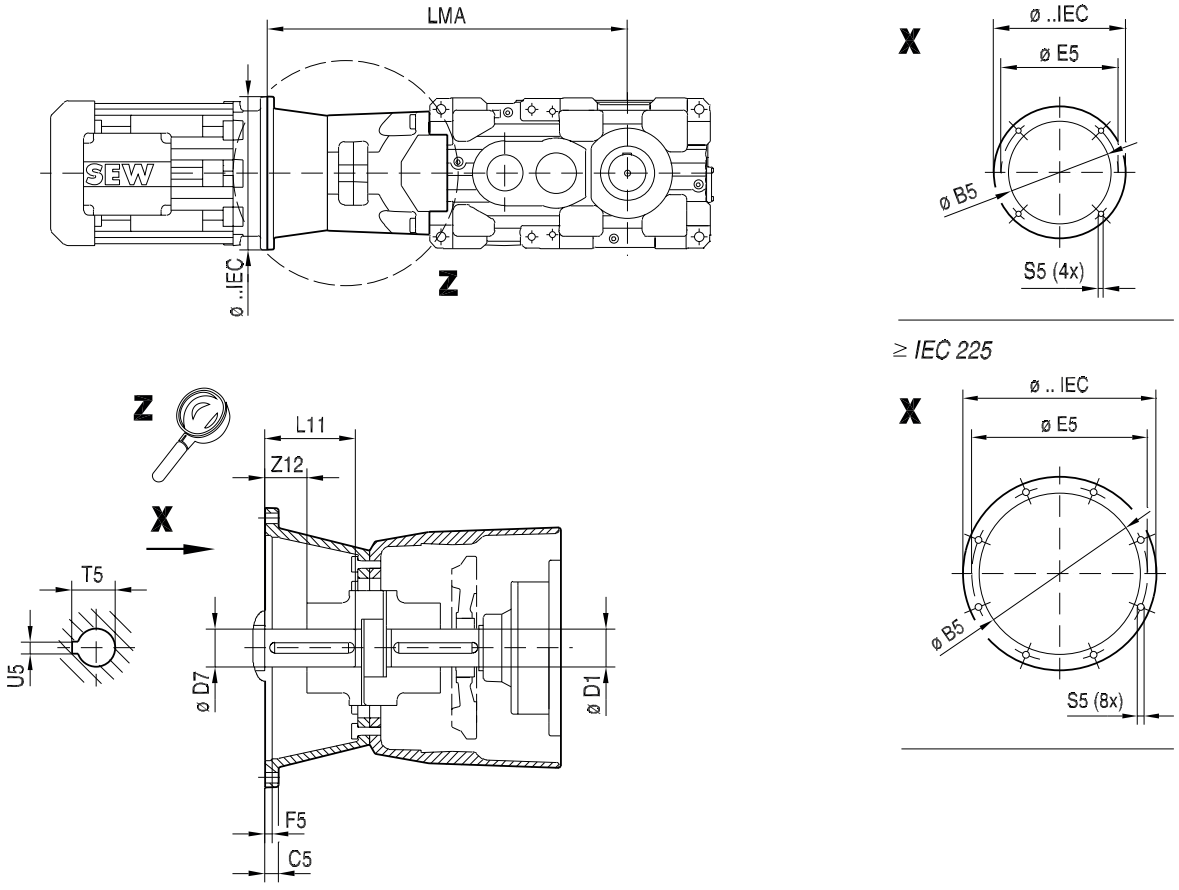
14.25.6 IEC motor adapter X3K100 – 270

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X3K..

48 014 03 07



→ 📖 102

30593506/EN – 07/2023

X3K..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X100	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	735	31	30
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	763	62	40
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	763	46	40
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	775	54	45
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	805	68	50
X110	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	755	31	30
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	783	62	40
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	783	46	40
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	795	54	45
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	825	68	50
X120	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	848	34	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	876	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	876	46.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	888	59	55
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	918	79	60
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	948	68	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	948	68	85
X130	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	884	34	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	912	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	912	46.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	924	59	55
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	954	79	60
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	984	68	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	984	68	85
X140	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	50	1010	51.5	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	50	1010	51	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	1022	42.5	70
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	1052	43	85
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1082	57	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1082	64	100
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	1082	38	125
X150	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	50	1052	51.5	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	50	1052	51	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	1064	42.5	70
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	1094	43	85
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1124	57	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1124	64	100
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	1124	38	125
X160	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	1166	42	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	1196	44	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	1206	46	120
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	1206	50	120
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	1245	69	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	60	1281	80	190
X170	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	1217	42	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	1247	44	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	1257	46	120
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	1257	50	120
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	1296	69	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	60	1332	80	190
X180	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	1297	71	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	1307	52	130
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	1307	52	130
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1346	66	160
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1382	75	200
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	70	1422	92	225
X190	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	1329	71	115
	250	550	350^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	1339	52	130
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	1339	52	130
	315S–L	660	450^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1378	66	160
	315	800	550^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1414	75	200
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	70	1454	92	225
X200	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	1454	50	150
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	1454	50	150
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	1493	62	180
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	1529	73	220
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	1569	110	250
X210	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	1490	50	150
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	1490	50	150
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	1529	62	180
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	1565	73	220
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	1605	110	250

30593506/EN – 07/2023

IEC motor adapter /MA [mm]

X3K..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X220	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	85	1600	50	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	85	1600	50	180
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	1639	64.5	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	1675	60	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1715	100	275
X230	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	85	1640	50	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	85	1640	50	180
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	1679	64.5	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	1715	60	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1755	100	275
X240	315S–L	660	680^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	1770	32.5	225
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1806	39	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1846	74	295
X250	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	1793	32.5	225
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1829	39	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1869	74	295
X260	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	110	1940	33	265
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	1976	54	305
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	2016	89	330
X270	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	110	1975	33	265
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	110	2011	54	305
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	110	2051	89	330

30593506/EN – 07/2023

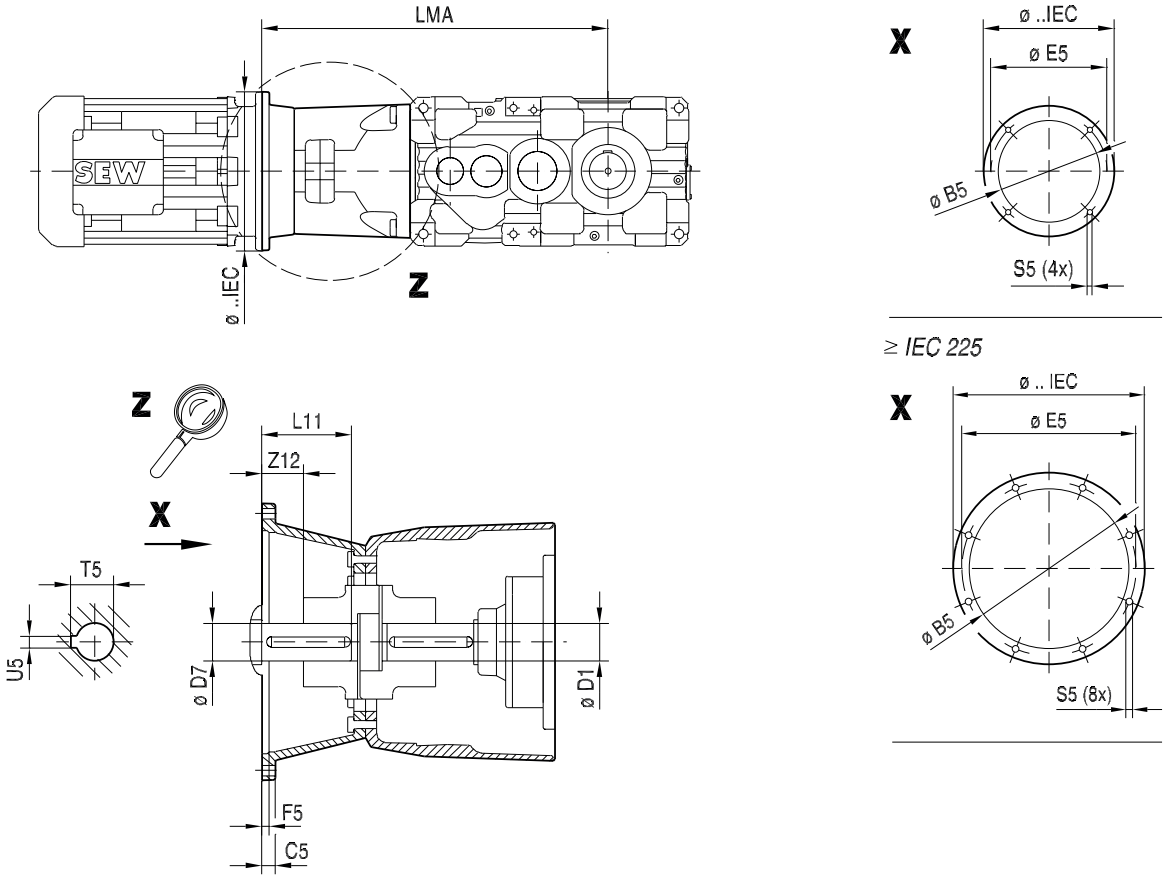
14.25.7 IEC motor adapter X4K120 - 280

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X4K..

48 015 03 07



→ 📖 102

30593506/EN – 07/2023

IEC motor adapter /MA [mm]

X4K..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X120	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	803	19	35
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	803	19	35
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	813	28	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	841	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	841	48	45
X130	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	839	19	35
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	839	19	35
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	849	28	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	877	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	877	48	45
X140	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	949	21	50
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	949	21	50
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	959	31	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	987	62	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	987	47	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	999	54	65
X150	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	991	21	50
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	991	21	50
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	1001	31	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	1029	62	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	1029	47	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	1041	54	65
X160	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	1121	28	80
	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	1154	44.5	85
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	1154	48.5	85
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	1181	68	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	1211	62	110
X170	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	1172	28	80
	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	1205	44.5	85
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	1205	48.5	85
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	1232	68	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	1262	62	110
X180	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	1329	50.5	95
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	1329	42	95
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	1356	55	105
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	1386	80	110
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1396	73	125
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1396	65	125
X190	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	1361	50.5	95
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	1361	42	95
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	1388	55	105
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	1418	80	110
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1428	73	125
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1428	65	125
X200	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	1416	50.5	125
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	1416	50.5	125
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	1443	53	135
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	1473	80	140
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1483	63	155
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1483	63	155
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	1522	90.5	185
X210	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	1452	50.5	125
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	1452	50.5	125
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	1479	53	135
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	1509	80	140
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	1519	63	155
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	1519	63	155
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	1558	90.5	185
X220	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	1587	50.5	140
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	1587	50.5	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	1614	64	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	1644	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	1654	63	170
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	1654	63	170
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	1693	90	200
X230	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	1627	50.5	140
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	1627	50.5	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	1654	64	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	1684	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	1694	63	170
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	1694	63	170
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	1733	90	200

30593506/EN – 07/2023

SEW EURODRIVE

X4K..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X240	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	1727	41	170
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	1757	71	180
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	1767	51	190
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	1767	51	190
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1806	69.5	220
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1842	74	260
X250	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	1750	41	170
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	1780	71	180
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	1790	51	190
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	1790	51	190
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1829	69.5	220
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1865	74	260
X260	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	80	1917	12	240
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	80	1947	42	245
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	1957	42	250
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	1957	49	250
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	1996	66	280
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	2032	57	320
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	2072	107	345
X270	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	80	1952	12	240
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	80	1982	42	245
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	1992	42	250
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	1992	49	250
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	2031	66	280
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	2067	57	320
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	2107	107	345
X280	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	80	2004	12	240
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	80	2034	42	245
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	2044	42	250
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	2044	49	250
	315S–L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	2083	66	280
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	2119	57	320
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	2159	107	345

30593506/EN – 07/2023

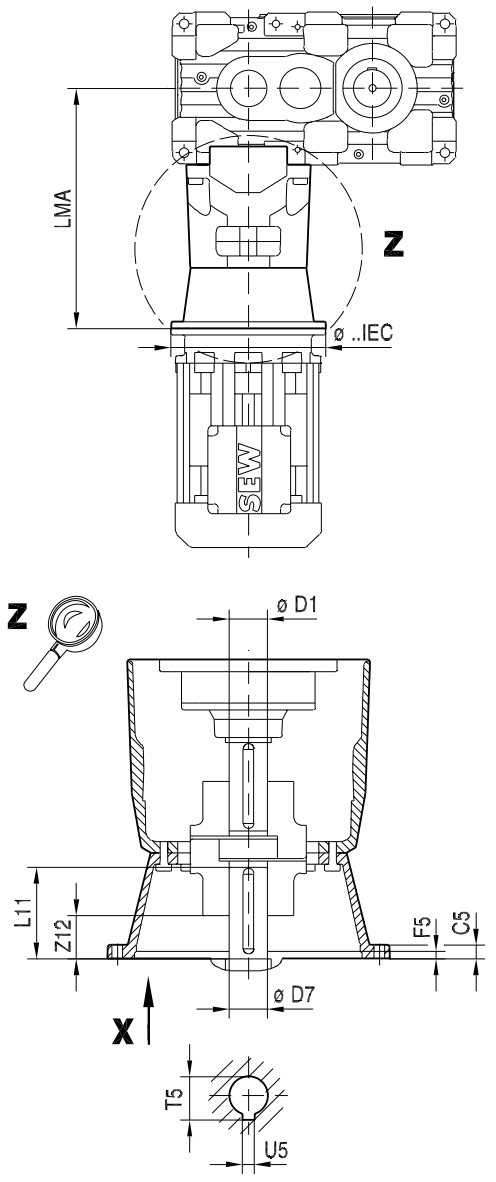
14.25.8 IEC motor adapter X3T100 – 210

INFORMATION

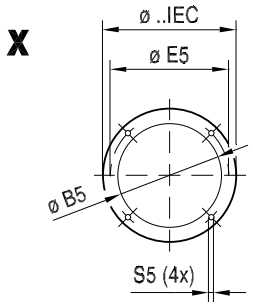
During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X3T..

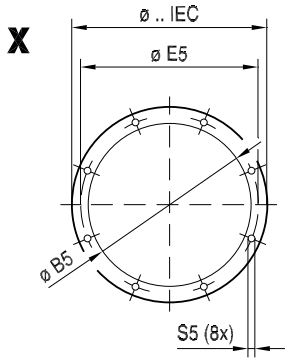
48 004 02 10



≤ IEC 200



≥ IEC 225



30593506/EN – 07/2023

X3T..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X100	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	457	31	30
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	485	62	40
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	485	46	40
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	497	54	45
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	527	68	50
X110	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	457	31	30
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	485	62	40
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	485	46	40
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	497	54	45
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	32	527	68	50
X120	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	521	34	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	549	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	549	46.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	561	59	55
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	591	79	60
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	621	68	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	621	68	85
X130	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	521	34	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	38	549	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	38	549	46.5	45
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	38	561	59	55
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	38	591	79	60
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	38	621	68	85
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	38	621	68	85
X140	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	50	622	51.5	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	50	622	51	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	634	42.5	70
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	664	43	85
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	694	57	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	694	64	100
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	694	38	125
X150	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	50	622	51.5	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	50	622	51	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	50	634	42.5	70
	225	450	350^{H7}	20	60^{H7}	400	7	140	M16 (8x)	64.4	18^{JS9}	50	664	43	85
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	694	57	100
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	694	64	100
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	694	38	125
X160	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	692	42	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	722	44	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	732	46	120
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	732	50	120
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	771	69	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	60	807	80	190
X170	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	692	42	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	722	44	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	732	46	120
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	732	50	120
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	771	69	150
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	60	807	80	190
X180	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	753	71	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	763	52	130
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	763	52	130
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	802	66	160
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	838	75	200
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	70	878	92	225
X190	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	753	71	115
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	763	52	130
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	763	52	130
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	802	66	160
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	838	75	200
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	70	878	92	225
X200	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	840	50	150
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	840	50	150
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	879	62	180
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	915	73	220
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	955	110	250
X210	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	80	840	50	150
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	80	840	50	150
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	80	879	62	180
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	80	915	73	220
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	80	955	110	250

30593506/EN – 07/2023

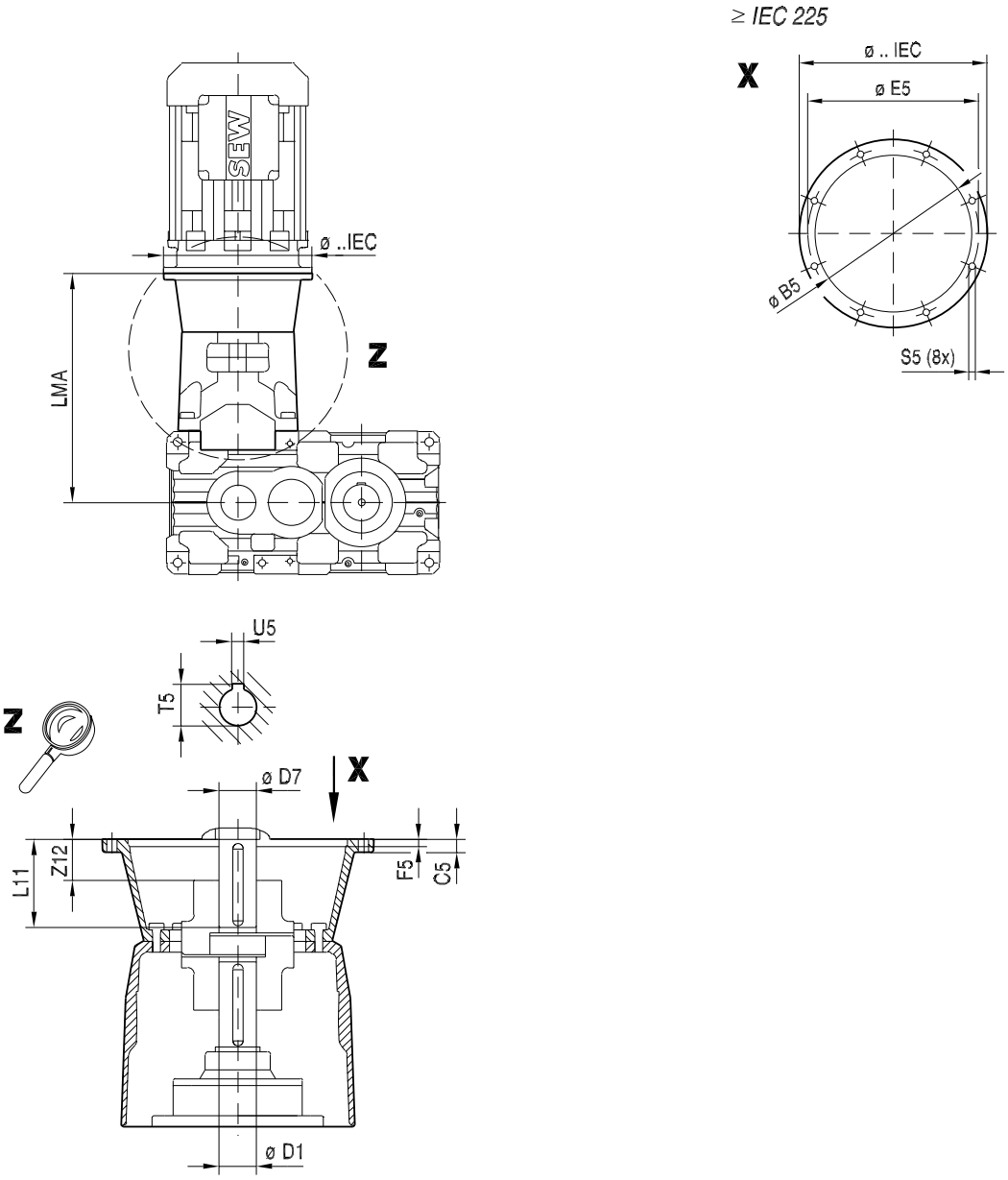
14.25.9 IEC motor adapter X3T220 – 250

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X3T..

48 005 02 10



X3T..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X220	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	85	906	50	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	85	906	50	180
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	945	64.5	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	981	60	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1021	100	275
X230	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	85	906	50	180
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	85	906	50	180
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	85	945	64.5	210
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	85	981	60	250
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	85	1021	100	275
X240	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	994	32.5	225
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1030	39	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1070	74	295
X250	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	100	994	32.5	225
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	100	1030	39	270
	355	800	680^{H7}	25	100^{H7}	740	7	210	M20 (8x)	106.4	28^{JS9}	100	1070	74	295

30593506/EN – 07/2023

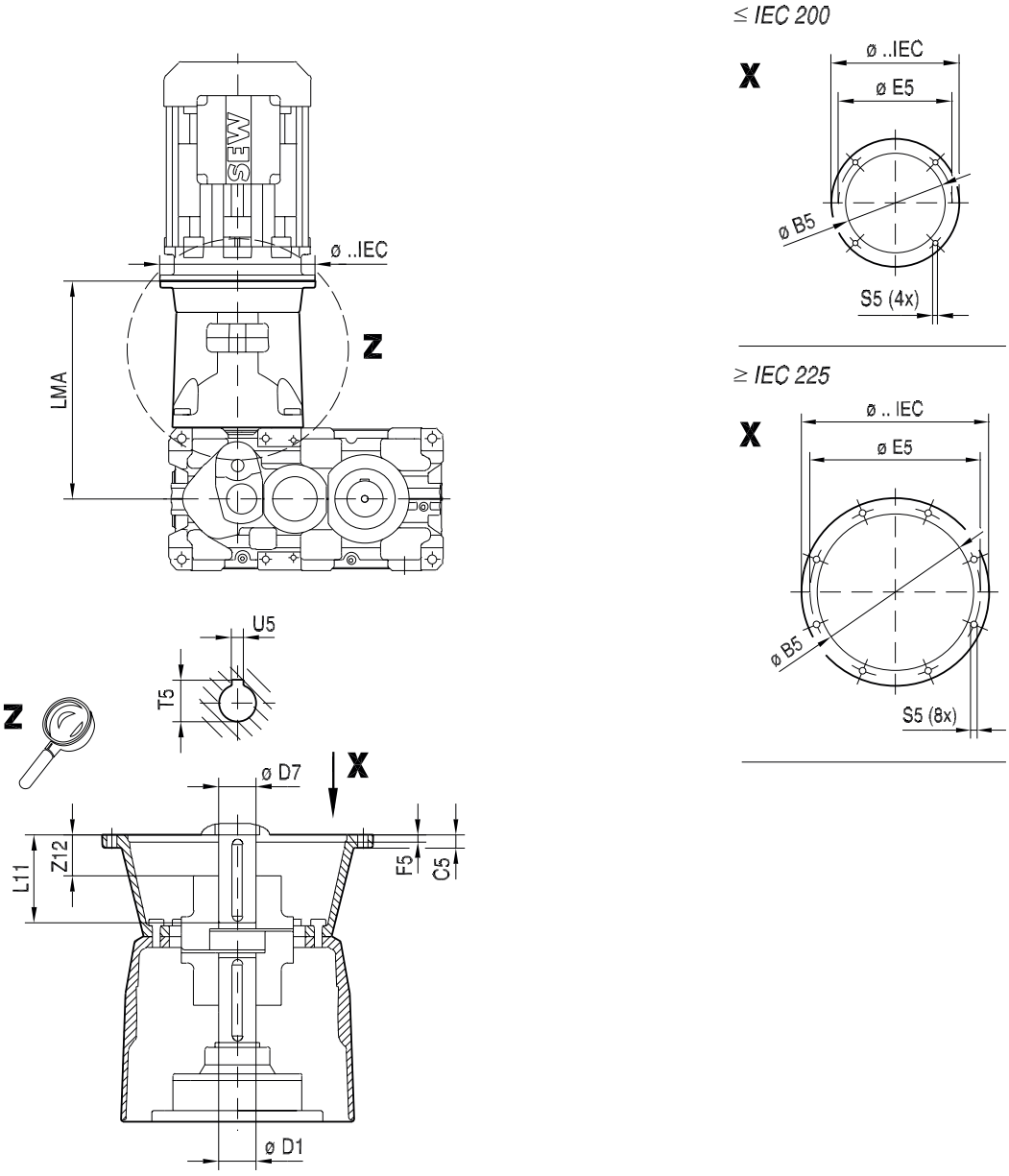
14.25.10 IEC motor adapter X4T120 – 210

INFORMATION

During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X4T..

48 007 02 10



X4T..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X120	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	476	19	35
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	476	19	35
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	486	28	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	514	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	514	48	45

30593506/EN – 07/2023

X4T..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X130	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	476	19	35
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	28	476	19	35
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	28	486	28	40
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	28	514	62	45
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	28	514	48	45
X140	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	561	21	50
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	561	21	50
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	571	31	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	599	62	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	599	47	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	611	54	65
X150	100	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	561	21	50
	112	250	180^{H7}	30	28^{H7}	215	4.5	60	M12 (4x)	31.3	8^{JS9}	32	561	21	50
	132	300	230^{H7}	16	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	32	571	31	50
	160	350	250^{H7}	16	42^{H7}	300	6	110	M16 (4x)	45.3	12^{JS9}	32	599	62	60
	180	350	250^{H7}	16	48^{H7}	300	6	110	M16 (4x)	51.8	14^{JS9}	32	599	47	60
	200	400	300^{H7}	20	55^{H7}	350	7	110	M16 (4x)	59.3	16^{JS9}	32	611	54	65
X160	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	647	28	80
	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	680	44.5	85
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	680	48.5	85
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	707	68	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	737	62	110
X170	132	300	230^{H7}	15	38^{H7}	265	5	80	M12 (4x)	41.3	10^{JS9}	38	647	28	80
	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	38	680	44.5	85
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	38	680	48.5	85
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	38	707	68	95
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	38	737	62	110
X180	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	785	50.5	95
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	785	42	95
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	812	55	105
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	842	80	110
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	852	73	125
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	852	65	125
X190	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	785	50.5	95
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	785	42	95
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	812	55	105
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	842	80	110
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	852	73	125
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	852	65	125
X200	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	802	50.5	125
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	802	50.5	125
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	829	53	135
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	859	80	140
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	869	63	155
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	869	63	155
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	908	90.5	185
X210	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	50	802	50.5	125
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	50	802	50.5	125
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	50	829	53	135
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	50	859	80	140
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	50	869	63	155
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	50	869	63	155
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	50	908	90.5	185

30593506/EN – 07/2023

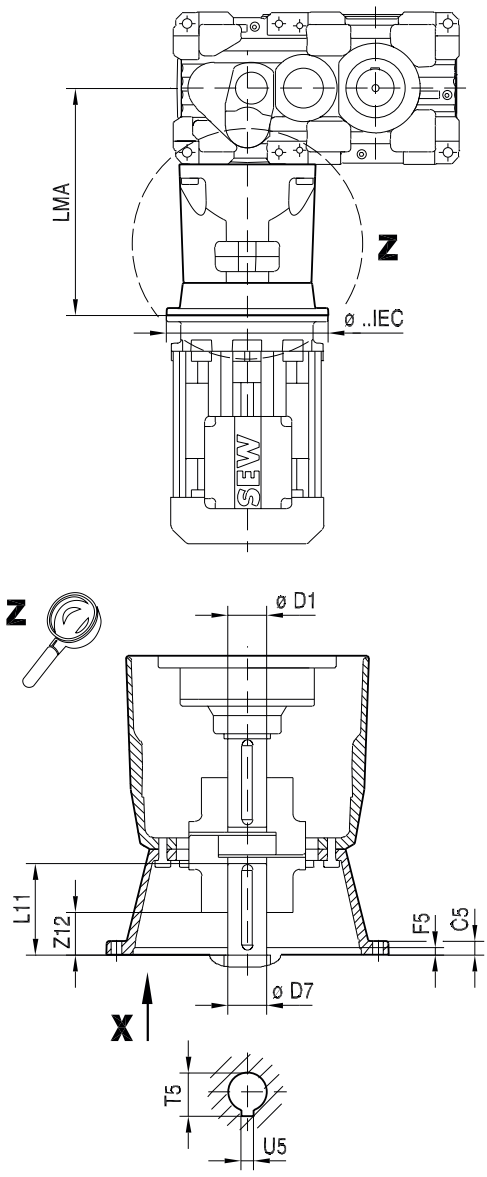
14.25.11 IEC motor adapter X4T220 – 250

INFORMATION

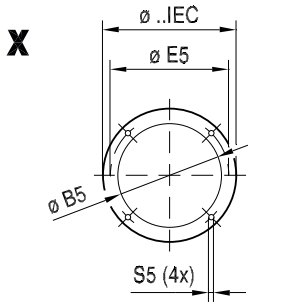
During the installation of motors by SEW-EURODRIVE, observe the "Information for connecting a SEW motor to the IEC motor adapter" (→ 🗎 463).

X4T..

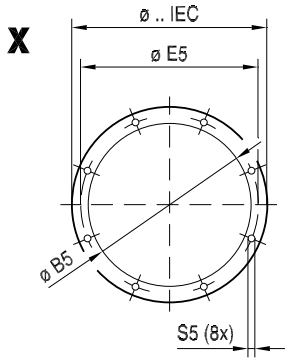
48 006 02 10



≤ IEC 200



≥ IEC 225



30593506/EN – 07/2023

X4T..	IEC	Ø IEC	Ø B5	C5	Ø D7	Ø E5	F5	L11	S5	T5	U5	Ø D1	LMA	Z12	kg
X220	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	893	50.5	140
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	893	50.5	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	920	64	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	950	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	960	63	170
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	960	63	170
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	999	90	200
X230	160	350	250^{H7}	45	42^{H7}	300	5	110	M16 (4x)	45.3	12^{JS9}	60	893	50.5	140
	180	350	250^{H7}	45	48^{H7}	300	5	110	M16 (4x)	51.8	14^{JS9}	60	893	50.5	140
	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	60	920	64	150
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	60	950	71	160
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	60	960	63	170
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	60	960	63	170
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	60	999	90	200
X240	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	951	41	170
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	981	71	180
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	991	51	190
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	991	51	190
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1030	69.5	220
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1066	74	260
X250	200	400	300^{H7}	20	55^{H7}	350	6	110	M16 (4x)	59.3	16^{JS9}	70	951	41	170
	225	450	350^{H7}	20	60^{H7}	400	6	140	M16 (8x)	64.4	18^{JS9}	70	981	71	180
	250	550	450^{H7}	25	65^{H7}	500	7	140	M16 (8x)	69.4	18^{JS9}	70	991	51	190
	280	550	450^{H7}	25	75^{H7}	500	7	140	M16 (8x)	79.9	20^{JS9}	70	991	51	190
	315S-L	660	550^{H7}	25	80^{H7}	600	7	170	M20 (8x)	85.4	22^{JS9}	70	1030	69.5	220
	315	800	680^{H7}	25	85^{H7}	740	7	170	M20 (8x)	90.4	22^{JS9}	70	1066	74	260

30593506/EN – 07/2023

14.26 NEMA motor adapter /MA [inch]

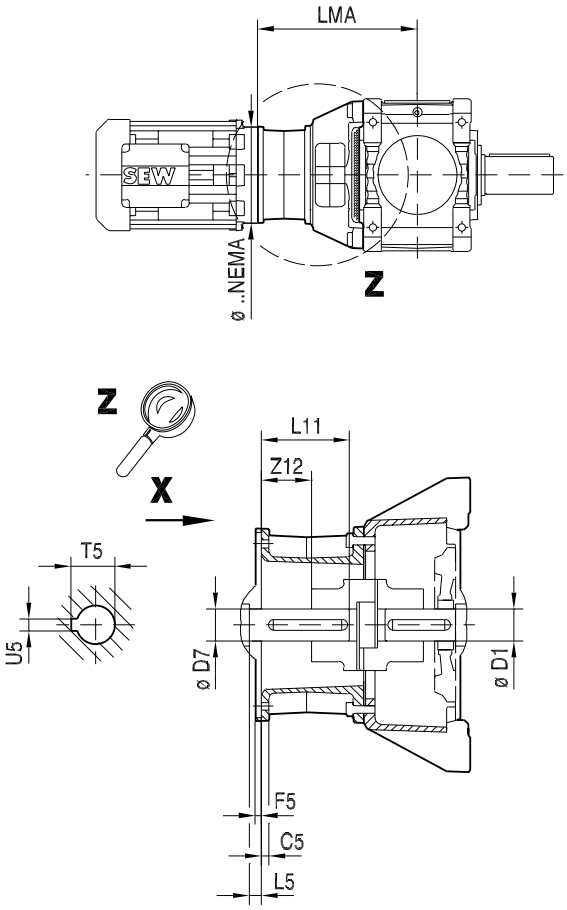
INFORMATION

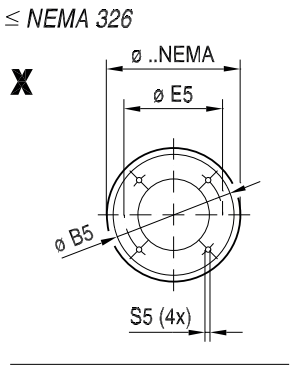
The NEMA motor adapters can only be ordered with gear units with universal housing /HU.

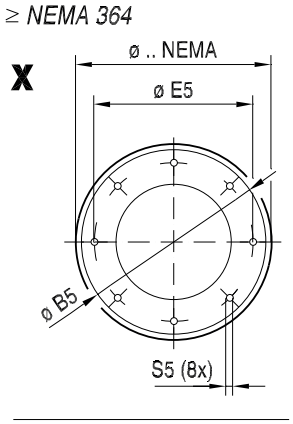
14.26.1 NEMA motor adapter X2F100 – 230

X2F..

48 054 04 07







→ 102

30593506/EN – 07/2023

inch												
X2F..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5
X100**	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
X110***	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
X120*	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X130***	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X140*	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X150***	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X160*	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X170***	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X180*	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X190**	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X200*	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X210**	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X220*	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X230**	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$

inch							kg
	i = 6.3 ... 11.2* i = 7.1 ... 12.5** i = 8 ... 14***			i = 12.5 ... 18* i = 14 ... 20** i = 16 ... 22.4***			
X2F..	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X100**	–	–	–	1.26	13.66	0.69	40
	–	–	–	1.26	15.39	2.43	40
	1.65	16.38	2.66	1.26	16.38	3.27	50
	1.65	17.24	2.51	1.26	17.24	2.51	55
X110***	–	–	–	1.26	13.66	0.69	40
	–	–	–	1.26	15.39	2.43	40
	1.65	16.38	2.66	1.26	16.38	3.27	50
	1.65	17.24	2.51	1.26	17.24	2.51	55
X120*	2.17	16.85	1.49	1.65	16.85	2.33	60
	2.17	17.72	1.37	1.65	17.72	1.37	70
	2.17	20.00	3.65	1.65	20.00	3.65	75

30593506/EN – 07/2023

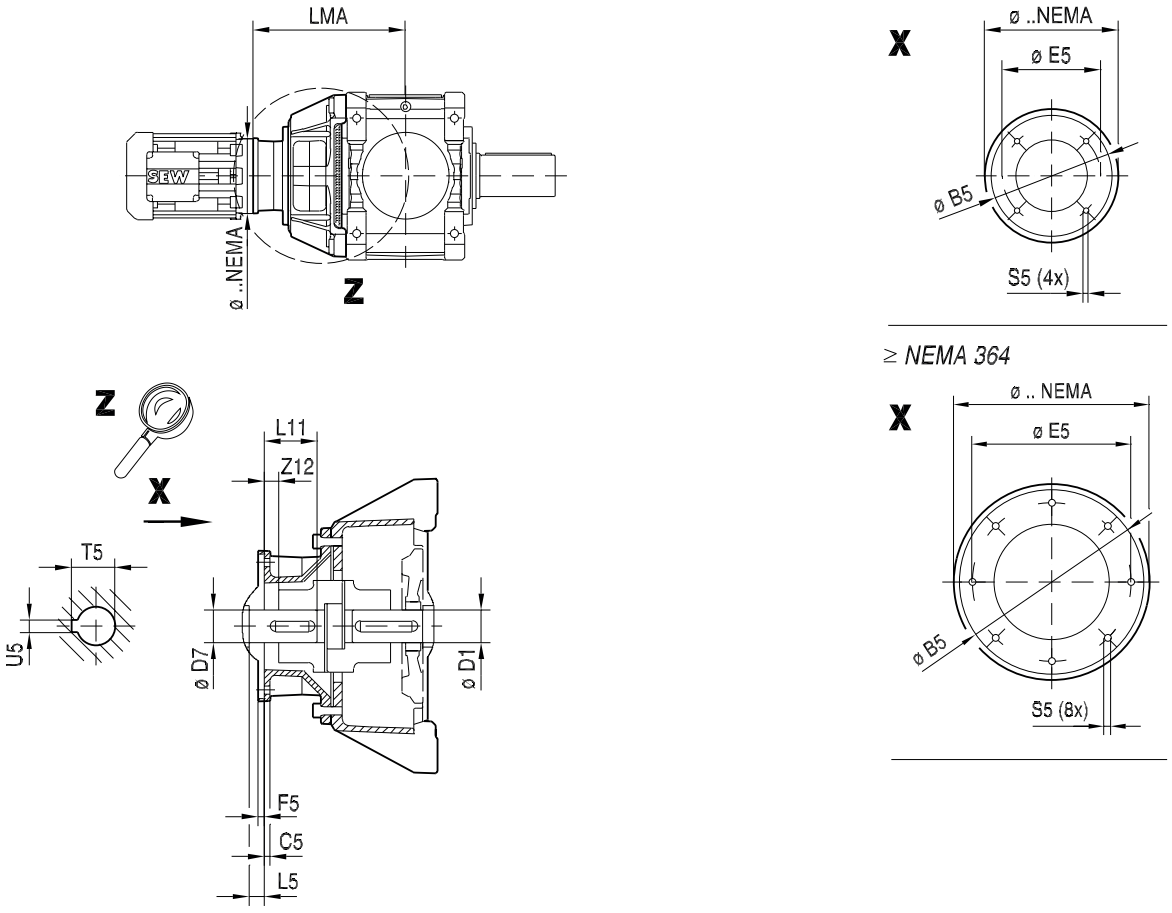
inch							kg
	i = 6.3 ... 11.2* i = 7.1 ... 12.5** i = 8 ... 14***			i = 12.5 ... 18* i = 14 ... 20** i = 16 ... 22.4***			
X2F..	**Ø D1**	**LMA**	**Z12**	**Ø D1**	**LMA**	**Z12**	
X130***	2.17	16.85	1.49	1.65	16.85	2.71	60
	2.17	17.72	1.37	1.65	17.72	1.37	70
	2.17	20.00	3.65	1.65	20.00	3.65	75
X140*	2.76	19.98	1.35	2.17	19.98	3.05	85
	2.76	22.26	3.87	2.17	22.26	4.11	95
	2.76	23.44	4.14	2.17	23.44	4.37	115
X150***	2.76	19.98	1.35	2.17	19.98	3.05	85
	2.76	22.26	3.87	2.17	22.26	4.11	95
	2.76	23.44	4.14	2.17	23.44	4.37	115
X160*	–	–	–	2.76	20.81	1.01	125
	–	–	–	2.76	23.17	3.57	130
	3.15	26.20	4.57	2.76	26.20	4.54	160
	3.15	26.20	4.04	2.76	26.20	3.96	170
X170***	–	–	–	2.76	20.81	1.01	125
	–	–	–	2.76	23.17	3.57	130
	3.15	26.20	4.57	2.76	26.20	4.54	160
	3.15	26.20	4.04	2.76	26.20	3.96	170
X180*	3.54	27.46	4.35	2.95	27.46	4.31	165
	3.54	27.46	3.84	2.95	27.46	4.31	180
X190**	3.54	27.46	4.35	2.95	27.46	4.31	165
	3.54	27.46	3.84	2.95	27.46	4.31	180
X200*	3.94	28.21	2.30	3.54	28.21	3.84	205
X210**	3.94	28.21	2.30	3.54	28.21	3.84	205
X220*	3.94	29.57	2.07	3.94	29.57	2.07	210
X230**	3.94	29.57	2.07	3.94	29.57	2.07	210

30593506/EN – 07/2023

14.26.2 NEMA motor adapter X3F100 - 270

X3F..

48 055 04 07



→ 📖 102

30593506/EN – 07/2023

inch												
X3F..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5
X100**	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
X110***	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	10 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
X120*	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X130***	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X140*	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X150***	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X160*	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X170***	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X180*	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X190**	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$

30593506/EN – 07/2023

inch												
X3F..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5
X200*	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X210**	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X220*	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X230**	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X240*	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X250**	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X260*	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X270**	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$

inch							kg
	i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***			i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***			
X3F..	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X100**	1.26	13.66	1.33	1.26	13.66	1.33	35
	1.26	13.66	0.69	1.26	13.66	0.69	40
	1.26	15.39	2.42	1.26	15.39	2.42	45
	1.26	16.38	3.26	1.26	16.38	3.26	50
X110***	1.26	13.66	1.33	1.26	13.66	1.33	35
	1.26	13.66	0.69	1.26	13.66	0.69	40
	1.26	15.39	2.42	1.26	15.39	2.42	45
	1.26	16.38	3.26	1.26	16.38	3.26	50
X120*	1.50	14.13	1.29	1.50	14.13	1.55	45
	1.50	14.13	0.62	1.50	14.13	0.64	45
	1.50	15.87	2.23	1.50	15.87	2.24	50
	1.50	16.85	3.18	1.50	16.85	3.18	60
	1.50	17.72	1.45	1.50	17.72	1.45	70
	1.50	20.00	3.73	1.50	20.00	3.73	75
X130***	1.50	14.13	1.29	1.50	14.13	1.29	45
	1.50	14.13	0.62	1.50	14.13	0.62	45
	1.50	15.87	2.23	1.50	15.87	2.23	50
	1.50	16.85	3.18	1.50	16.85	3.18	60
	1.50	17.72	1.45	1.50	17.72	1.45	70
	1.50	20.00	3.73	1.50	20.00	3.73	75

30593506/EN – 07/2023

inch							kg
	i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***			i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***			
X3F..	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X140*	1.77	16.40	0.78	1.77	16.40	0.78	65
	1.77	18.13	2.36	1.77	18.13	2.36	70
	1.77	19.11	3.11	1.77	19.11	3.11	75
	1.77	19.98	3.03	1.77	19.98	3.02	85
	1.77	22.26	4.08	1.77	22.26	4.08	95
X150***	1.77	16.40	0.78	1.77	16.40	0.78	65
	1.77	18.13	2.36	1.77	18.13	2.36	70
	1.77	19.11	3.11	1.77	19.11	3.11	75
	1.77	19.98	3.03	1.77	19.98	3.02	85
	1.77	22.26	4.08	1.77	22.26	4.08	95
X160*	–	–	–	1.97	18.01	1.07	105
	–	–	–	1.97	19.07	2.15	110
	2.36	20.81	2.28	1.97	20.81	3.31	125
	2.36	20.81	1.53	1.97	20.81	1.81	125
	2.36	23.17	3.66	2.36	23.17	4.04	130
	2.36	26.20	4.98	2.36	26.20	6.08	160
X170***	–	–	–	1.97	18.01	1.07	105
	–	–	–	1.97	19.07	2.15	110
	2.36	20.81	2.28	1.97	20.81	3.31	125
	2.36	20.81	1.53	1.97	20.81	1.81	125
	2.36	23.17	3.66	2.36	23.17	4.04	130
	2.36	26.20	4.98	2.36	26.20	6.08	160
X180*	2.76	22.07	1.57	2.17	22.07	3.39	120
	2.76	22.07	1.33	2.17	22.07	1.57	130
	2.76	24.43	3.54	2.17	24.43	3.93	140
	2.76	27.46	4.58	2.17	27.46	4.58	165
	2.76	27.46	4.58	2.17	27.46	5.37	180
X190**	2.76	22.07	1.57	2.17	22.07	3.39	120
	2.76	22.07	1.33	2.17	22.07	1.57	130
	2.76	24.43	3.54	2.17	24.43	3.93	140
	2.76	27.46	4.58	2.17	27.46	4.58	165
	2.76	27.46	4.58	2.17	27.46	5.37	180
X200*	2.95	22.81	1.18	2.36	22.81	1.37	160
	2.95	25.18	3.54	2.36	25.18	3.54	165
	2.95	28.21	4.39	2.36	28.21	4.39	195
	2.95	28.21	4.39	2.36	28.21	4.39	205
X210**	2.95	22.81	1.18	2.36	22.81	1.37	160
	2.95	25.18	3.54	2.36	25.18	3.54	165
	2.95	28.21	4.39	2.36	28.21	4.39	195
	2.95	28.21	4.39	2.36	28.21	4.39	205
X220*	–	–	–	2.76	24.17	1.45	165
	3.15	26.54	1.64	2.76	26.54	3.62	185
	3.15	29.57	4.69	2.76	29.57	4.47	200
	3.15	29.57	4.10	2.76	29.57	4.66	210
X230**	–	–	–	2.76	24.17	1.45	165
	3.15	26.54	1.64	2.76	26.54	3.62	185
	3.15	29.57	4.69	2.76	29.57	4.47	200
	3.15	29.57	4.10	2.76	29.57	4.66	210
X240*	3.54	28.29	1.64	2.95	28.29	3.81	195
	3.54	31.32	4.83	2.95	31.32	4.47	220
	3.54	31.32	4.47	2.95	31.32	4.47	235

30593506/EN – 07/2023

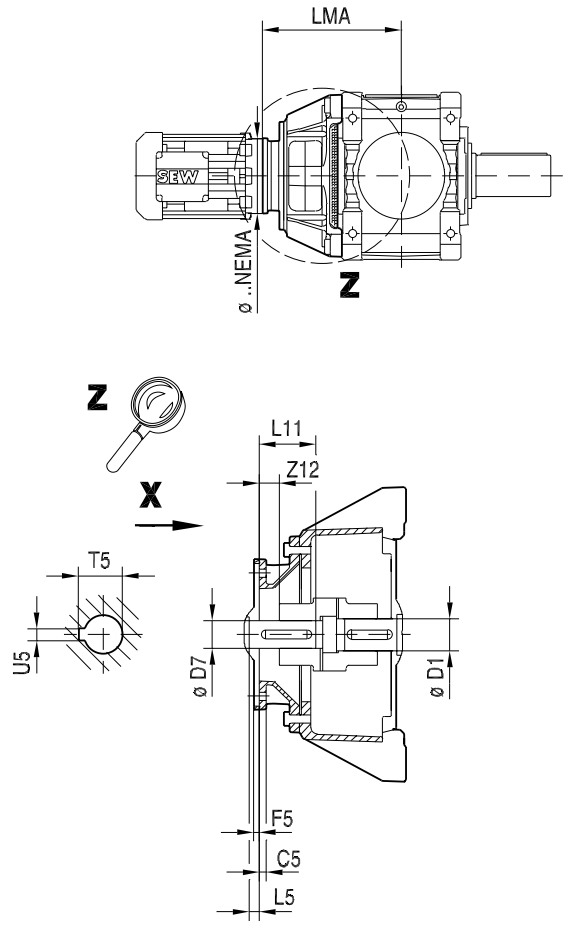
inch							kg
	i = 20 ... 56* i = 22.4 ... 63** i = 25 ... 71***			i = 63 ... 90* i = 71 ... 100** i = 80 ... 112***			
X3F..	**Ø D1**	**LMA**	**Z12**	**Ø D1**	**LMA**	**Z12**	
X250**	3.54	28.29	1.64	2.95	28.29	3.81	195
	3.54	31.32	4.83	2.95	31.32	4.47	220
	3.54	31.32	4.47	2.95	31.32	4.47	235
X260*	3.94	33.92	4.27	3.15	33.92	4.82	250
	3.94	33.92	3.68	3.15	33.92	4.47	265
X270**	3.94	33.92	4.27	3.15	33.92	4.82	250
	3.94	33.92	3.68	3.15	33.92	4.47	265

30593506/EN – 07/2023

14.26.3 NEMA motor adapter X4F120 – 270

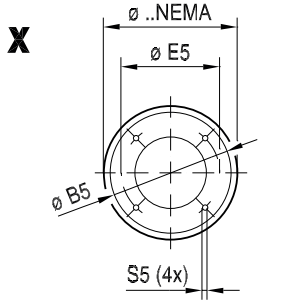
X4F..

48 056 04 07

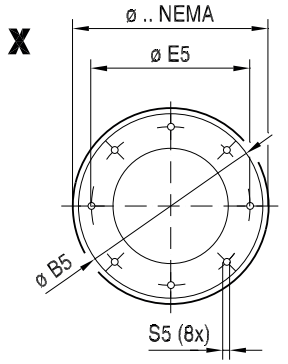


→ 102

≤ *NEMA 326*



≥ *NEMA 364*



30593506/EN – 07/2023

inch												
X4F..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5
X120*	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
X130***	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
X140*	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
X150***	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
X160*	213–215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X170***	213–215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$
	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X180*	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X190**	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X200*	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
X210**	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$

30593506/EN – 07/2023

inch												
X4F..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5
X220*	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X230**	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X240*	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X250**	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X260*	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
X270**	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$

inch								kg
		i = 100 ... 180* i = 112 ... 200** i = 125 ... 224***			i = 200 ... 355* i = 224 ... 400** i = 250 ... 450***			
X4F..	NEMA	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X120*	182–184	1.02	14.13	0.73	1.10	14.13	1.02	45
	213–215	1.68	14.13	1.69	1.10	14.13	1.69	45
	254–256	2.04	14.13	1.62	1.10	14.13	2.03	45
	284–286	2.42	15.87	2.44	1.10	15.87	2.42	50
X130***	182–184	1.02	14.13	0.73	1.10	14.13	1.02	45
	213–215	1.68	14.13	1.69	1.10	14.13	1.69	45
	254–256	2.04	14.13	1.62	1.10	14.13	2.03	45
	284–286	2.42	15.87	2.44	1.10	15.87	2.42	50
X140*	182–184	1.26	16.40	1.10	1.26	16.40	1.14	65
	213–215	1.26	16.40	1.41	1.26	16.40	1.43	65
	254–256	1.26	16.40	2.15	1.26	16.40	2.15	65
	284–286	1.26	18.13	2.70	1.26	18.13	2.70	75
X150***	182–184	1.26	16.40	1.10	1.26	16.40	1.14	65
	213–215	1.26	16.40	1.41	1.26	16.40	1.43	65
	254–256	1.26	16.40	2.15	1.26	16.40	2.15	65
	284–286	1.26	18.13	2.70	1.26	18.13	2.70	75

30593506/EN – 07/2023

inch								kg
		i = 100 ... 180* i = 112 ... 200** i = 125 ... 224***			i = 200 ... 355* i = 224 ... 400** i = 250 ... 450***			
X4F..	NEMA	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X160*	213–215	1.50	18.01	1.69	1.50	18.01	1.69	105
	254–256	1.50	18.01	2.31	1.50	18.01	2.51	105
	284–286	1.50	19.07	2.58	1.50	19.07	2.58	110
	324–326	1.50	20.81	3.50	1.50	20.81	3.50	125
	364–365	1.50	20.81	2.44	1.50	20.81	2.43	125
	404–405	1.50	23.17	4.36	1.50	23.17	4.36	140
X170***	213–215	1.50	18.01	1.69	1.50	18.01	1.69	105
	254–256	1.50	18.01	2.31	1.50	18.01	2.51	105
	284–286	1.50	19.07	2.58	1.50	19.07	2.58	110
	324–326	1.50	20.81	3.50	1.50	20.81	3.50	125
	364–365	1.50	20.81	2.44	1.50	20.81	2.43	125
	404–405	1.50	23.17	4.36	1.50	23.17	4.36	140
X180*	254–256	1.97	19.27	1.13	1.50	19.27	2.35	115
	284–286	1.97	20.33	2.07	1.50	20.33	2.48	115
	324–326	1.97	22.07	3.38	1.50	22.07	3.34	120
	364–365	1.97	22.07	2.554	1.50	22.07	3.14	130
	404–405	1.97	24.43	4.09	1.50	24.43	4.91	140
X190**	254–256	1.97	19.27	1.13	1.50	19.27	2.35	115
	284–286	1.97	20.33	2.10	1.50	20.33	2.48	115
	324–326	1.97	22.07	2.88	1.50	22.07	3.34	120
	364–365	1.97	22.07	2.55	1.50	22.07	3.14	130
	404–405	1.97	24.43	4.09	1.50	24.43	4.91	140
X200*	254–256	2.17	20.02	1.05	1.65	20.02	1.07	140
	284–286	2.17	21.08	2.12	1.65	21.08	2.12	140
	324–326	2.17	22.81	3.38	1.65	22.81	3.38	150
	364–365	2.17	22.81	2.16	1.65	22.81	2.16	160
	404–405	2.17	25.18	4.09	1.65	25.18	4.08	165
X210**	254–256	2.17	20.02	1.05	1.65	20.02	1.07	140
	284–286	2.17	21.08	2.12	1.65	21.08	2.12	140
	324–326	2.17	22.81	3.38	1.65	22.81	3.38	150
	364–365	2.17	22.81	2.16	1.65	22.81	2.16	160
	404–405	2.17	25.18	4.09	1.65	25.18	4.08	165
X220*	254–256	–	–	–	1.97	21.38	1.37	150
	284–286	2.36	22.44	0.69	1.97	22.44	2.28	150
	324–326	2.36	24.17	2.87	1.97	24.17	3.46	155
	364–365	2.36	24.17	1.84	1.97	24.17	2.44	165
	404–405	2.36	26.54	3.81	1.97	26.54	4.09	175
	444–445	2.36	29.57	4.89	1.97	29.57	5.84	200
X230**	254–256	–	–	–	1.97	21.38	1.37	150
	284–286	2.36	22.44	0.69	1.97	22.44	2.28	150
	324–326	2.36	24.17	2.87	1.97	24.17	3.46	155
	364–365	2.36	24.17	1.84	1.97	24.17	2.44	165
	404–405	2.36	26.54	3.81	1.97	26.54	4.09	175
	444–445	2.36	29.57	4.89	1.97	29.57	5.84	200
X240*	324–326	2.76	25.93	2.44	2.17	25.93	3.46	180
	364–365	2.76	25.93	1.37	2.17	25.93	2.87	190
	404–405	2.76	28.29	3.62	2.17	28.29	4.29	195
	444–445	2.76	31.32	4.83	2.17	31.32	5.84	225

30593506/EN – 07/2023

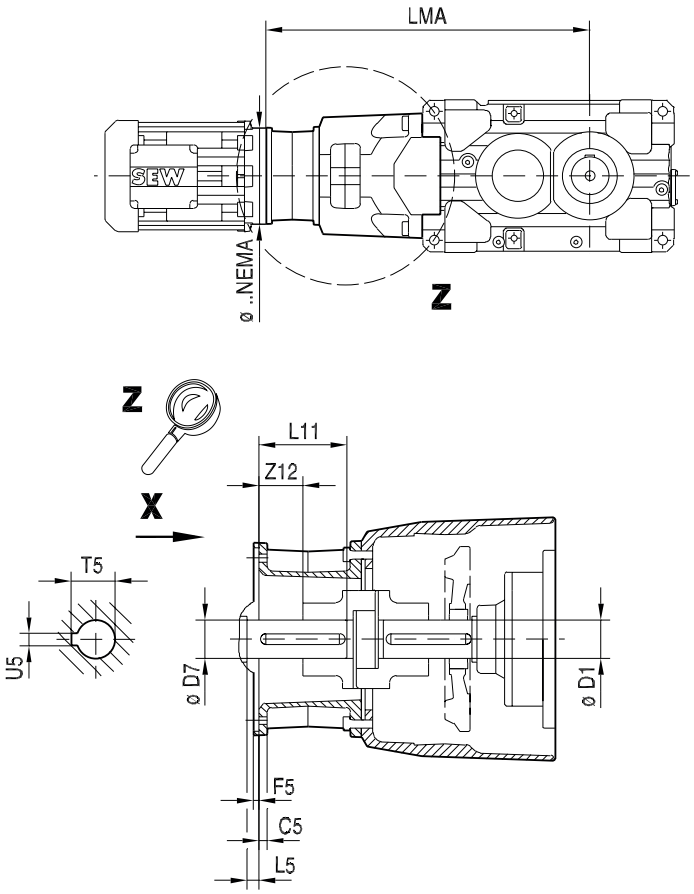
inch								kg
		i = 100 ... 180* i = 112 ... 200** i = 125 ... 224***			i = 200 ... 355* i = 224 ... 400** i = 250 ... 450***			
X4F..	NEMA	Ø D1	LMA	Z12	Ø D1	LMA	Z12	
X250**	324–326	2.76	25.93	2.44	2.17	25.93	3.46	180
	364–365	2.76	25.93	1.37	2.17	25.93	2.87	190
	404–405	2.76	28.29	3.62	2.17	28.29	4.29	195
	444–445	2.76	31.32	4.83	2.17	31.32	5.48	225
X260*	324–326	2.95	28.52	2.44	2.36	28.52	3.46	210
	364–365	2.95	28.52	2.24	2.36	28.52	2.24	215
	404–405	2.95	30.89	4.21	2.36	30.89	3.81	225
	444–445	2.95	33.92	4.87	2.36	33.92	5.06	250
	447–449	2.95	33.92	4.87	2.36	33.92	4.86	265
X270**	324–326	2.95	28.52	2.44	2.36	28.52	3.46	210
	364–365	2.95	28.52	2.24	2.36	28.52	2.24	215
	404–405	2.95	30.89	4.21	2.36	30.89	3.81	225
	444–445	2.95	33.92	4.87	2.36	33.92	5.06	250
	447–449	2.95	33.92	4.87	2.36	33.92	4.86	265

30593506/EN – 07/2023

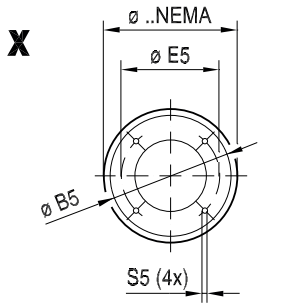
14.26.4 NEMA motor adapter X2K100 – 210

X2K..

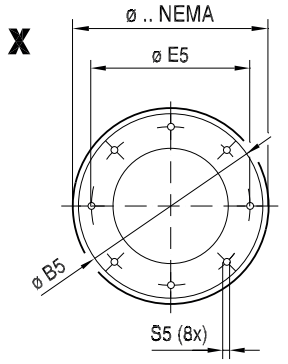
48 051 04 07



≤ NEMA 326



≥ NEMA 364



→ 102

30593506/EN – 07/2023

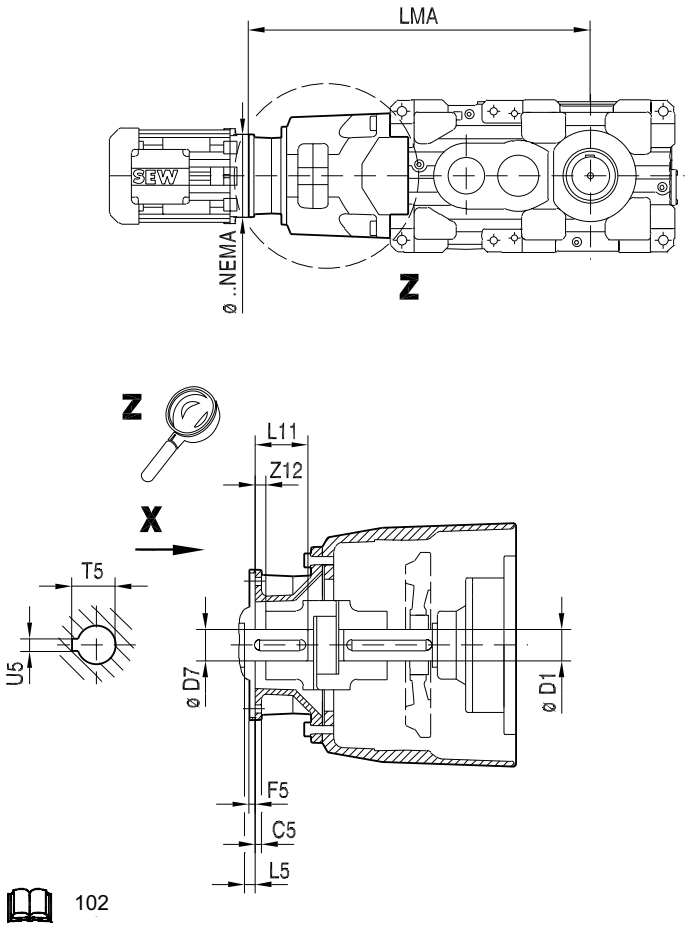
inch																kg
X2K..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X100	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	31.22	2.36	45
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	32.09	1.37	60
X110	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	32.01	2.36	45
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	32.87	1.37	60
X120	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	35.91	2.56	60
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	38.19	3.65	70
X130	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	37.32	2.56	60
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	39.61	3.65	70
X140	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	40.71	3.77	90
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	41.89	4.16	110
X150	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	42.36	3.77	90
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	43.54	4.16	110
X160	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	49.57	4.32	145
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	49.57	3.68	155
X170	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	51.57	4.32	145
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	51.57	3.68	155
X180	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	54.57	4.15	160
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	54.57	3.68	180
X190	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	55.83	4.15	160
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	55.83	3.68	180
X200	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	58.31	2.07	195
X210	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	59.72	2.07	195

30593506/EN – 07/2023

14.26.5 NEMA motor adapter X3K100 – 270

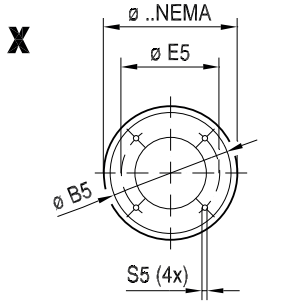
X3K..

48 052 04 07

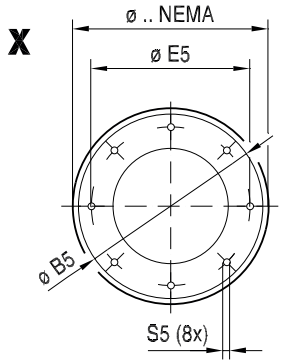


→ 102

≤ *NEMA 326*



≥ *NEMA 364*



30593506/EN – 07/2023

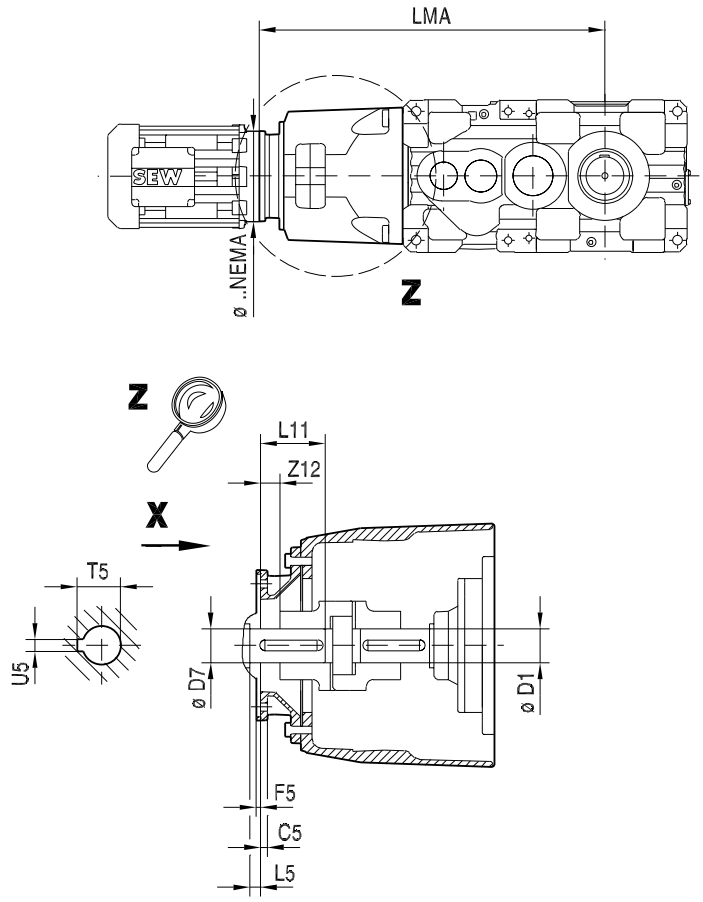
inch																kg
X3K..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X100	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	28.78	1.35	30
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	28.78	0.54	30
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	30.51	2.27	35
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.26	31.50	3.11	45
X110	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	29.57	1.35	30
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	29.57	0.54	30
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	31.30	2.27	35
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.26	32.28	3.11	45
X120	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	33.23	1.37	35
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	33.23	0.97	40
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	34.96	2.40	45
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	35.95	2.90	50
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.50	36.81	3.16	60
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.50	39.09	4.44	70
X130	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	34.65	1.37	35
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	34.65	0.97	40
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	36.38	2.40	45
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	37.36	2.90	50
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.50	38.23	3.16	60
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.50	40.51	4.44	70
X140	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.97	38.50	0.78	55
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	40.24	2.49	60
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	41.22	2.78	65
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	42.09	2.93	75
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	44.37	4.01	85
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	45.55	4.30	105
X150	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.97	40.16	0.78	55
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	41.89	2.49	60
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	42.87	2.78	65
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	43.74	2.93	75
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	46.02	4.01	85
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	47.21	4.30	105
X160	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	46.61	1.42	105
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	46.61	1.59	105
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	48.98	3.66	115
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	52.01	5.09	140
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	52.01	4.73	155
X170	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	48.62	1.42	105
	364–365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	48.62	1.59	105
	404–405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	50.98	3.66	115
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	54.02	5.09	140
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	54.02	4.73	155
X180	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	50.59	1.18	115
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	52.95	3.54	120
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	55.98	4.59	150
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	55.98	4.59	165
X190	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	51.85	1.18	115
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	54.21	3.54	120
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	57.24	4.59	150
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	57.24	4.59	165
X200	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	58.74	3.46	145
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	61.77	4.83	175
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	61.77	4.43	185
X210	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	60.16	3.46	145
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	63.19	4.82	175
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	63.19	4.31	185
X220	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.35	64.49	3.46	175
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	67.52	4.90	200
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	67.52	4.51	215
X230	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.35	66.06	3.46	175
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	69.09	4.90	200
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	69.09	4.51	215
X240	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	72.68	4.30	220
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	72.68	3.71	230
X250	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	73.58	4.30	220
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	73.58	3.71	230
X260	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	79.37	4.30	255
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	79.37	3.71	265
X270	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	80.75	4.30	255
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	4.33	80.75	3.71	265

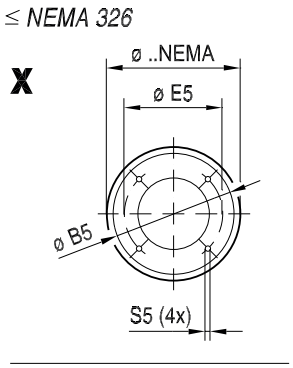
30593506/EN – 07/2023

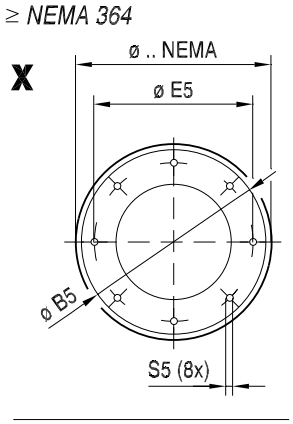
14.26.6 NEMA motor adapter X4K120 – 280

X4K..

48 053 04 07







→ 102

30593506/EN – 07/2023

inch																kg
X4K..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X120	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	31.85	1.02	35
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	31.85	1.27	35
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.10	31.85	0.74	40
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.10	33.58	2.11	45
X130	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	33.27	1.02	35
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	33.27	1.27	35
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.10	33.27	0.74	40
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.10	35.00	2.11	45
X140	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	37.60	1.10	50
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	37.60	0.84	50
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	37.60	1.05	50
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	39.33	2.07	55
X150	182–184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	39.25	1.10	50
	213–215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	39.25	0.84	50
	254–256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	39.25	1.05	50
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	40.98	2.07	55
X160	213–215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	44.41	1.31	80
	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	44.41	1.52	85
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	45.47	2.16	85
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	47.21	2.79	90
X170	213–215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	46.42	1.31	80
	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	46.42	1.52	85
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	47.48	2.16	85
	324–326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	49.21	2.79	90
X180	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	51.30	0.97	95
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	52.36	2.04	95
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	54.09	3.22	100
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	54.09	2.20	115
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	56.46	4.09	120
X190	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	52.56	0.99	95
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	53.62	2.04	95
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	55.35	3.22	100
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	55.35	2.20	115
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	57.72	4.09	120
X200	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	54.72	0.99	125
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	55.79	2.04	125
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	57.52	3.22	130
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	57.52	2.00	145
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	59.88	3.97	150
	444-445[1)]	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	62.91	4.85	180
X210	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	56.14	0.99	125
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	57.20	2.04	125
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	58.94	3.22	130
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	58.94	2.00	145
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	61.30	3.97	150
	444–445[1)]	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	64.33	4.85	180
X220	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	2.36	61.46	0.89	140
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	2.36	62.52	1.99	140
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	64.25	3.23	150
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	64.25	2.20	160
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	66.61	3.97	165
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	69.65	4.83	195
X230	254–256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	2.36	63.03	0.89	140
	284–286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	2.36	64.09	1.99	140
	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	65.83	3.23	150
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	65.83	2.20	160
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	68.19	3.97	165
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	71.22	4.83	195
X240	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.76	68.70	2.29	170
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	68.70	1.18	180
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	71.06	3.50	185
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	74.09	4.61	215
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	74.09	4.61	225
X250	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.76	69.61	2.29	170
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	69.61	1.18	180
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	71.97	3.50	185
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	75	4.61	215
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	75	4.61	225

30593506/EN – 07/2023

inch																kg
X4K..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X260	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	3.15	76.18	1.18	235
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	3.15	76.18	1.18	235
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	78.54	3.54	245
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	81.58	4.81	270
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	81.58	4.61	285
X270	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	3.15	77.56	1.18	235
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	3.15	77.56	1.18	235
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	79.92	3.54	245
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	82.95	4.81	270
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	82.95	4.61	285
X280	324–326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	3.15	79.60	1.18	235
	364–365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	3.15	79.69	1.18	235
	404–405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	81.96	3.54	245
	444–445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	84.99	4.81	270
	447–449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	84.99	4.61	285

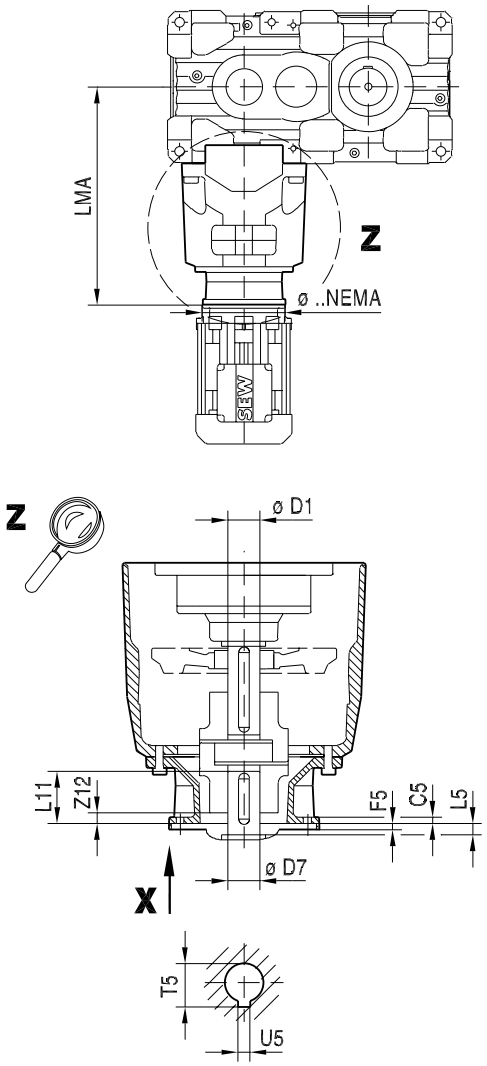
1) Contact SEW-EURODRIVE

30593506/EN – 07/2023

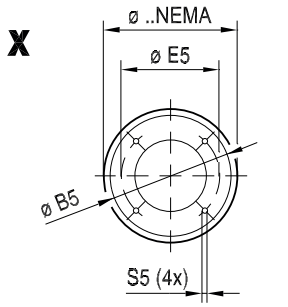
14.26.7 NEMA motor adapter X3T100 – 210

X3T..

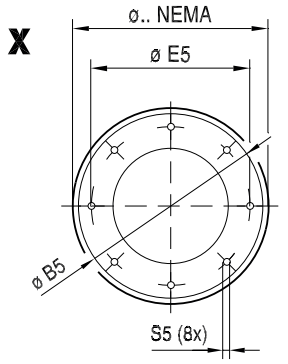
48 008 03 10



≤ *NEMA 326*



≥ *NEMA 364*



30593506/EN – 07/2023

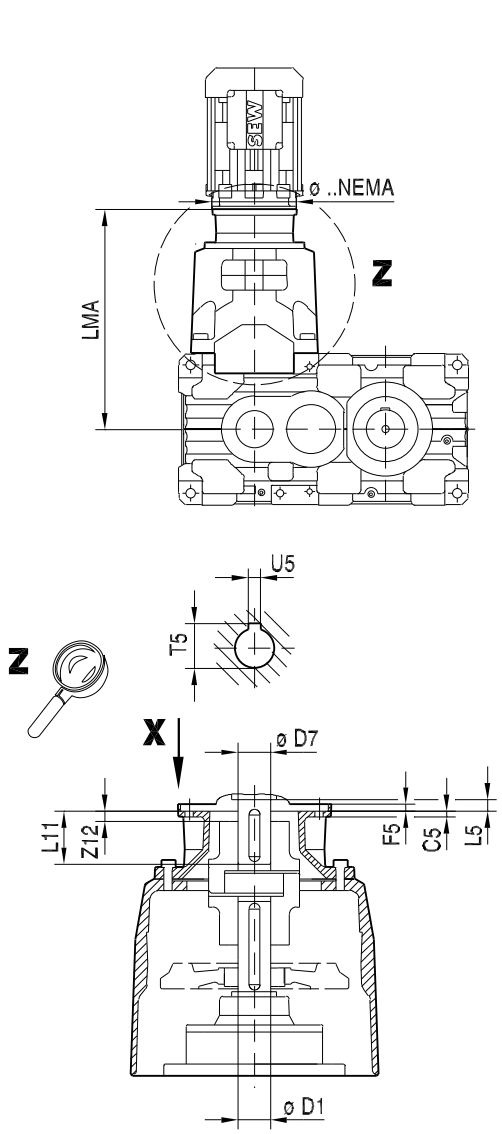
inch																kg
X3T..	NEMA	Ø NEMA	Ø B5	C5	Ø D7		F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X100	213-215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	17.83	1.37	30
	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	17.83	0.54	30
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	19.57	2.27	35
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.26	20.55	3.11	45
X110	213-215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	17.83	1.37	30
	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	17.83	0.54	30
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	19.57	2.27	35
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.26	20.55	3.11	45
X120	213-215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	20.35	1.27	35
	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	20.35	0.97	40
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	22.09	2.38	45
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	23.07	3.30	50
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.50	23.94	3.14	60
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.50	26.22	4.44	70
X130	213-215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	20.35	1.27	35
	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	20.35	0.97	40
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	22.09	2.38	45
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	23.07	3.30	50
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.50	23.94	3.14	60
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.50	26.22	4.44	70
X140	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.97	23.23	0.78	55
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	24.96	2.50	60
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	25.95	3.11	65
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	26.81	2.93	75
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	29.09	4.01	85
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	30.28	4.27	105
X150	254-256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.97	23.23	0.78	55
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	24.96	2.50	60
	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	25.95	3.11	65
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	26.81	2.93	75
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	29.09	4.01	85
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	30.28	4.27	105
X160	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	27.95	2.28	105
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	27.95	1.59	105
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	30.32	3.66	115
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	33.35	5.06	140
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	33.35	4.71	155
X170	324-326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	27.95	2.28	105
	364-365	13	12 1/2^{H7}	0.71	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	27.95	1.59	105
	404-405	13	12 1/2^{H7}	0.79	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	30.32	3.66	115
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	33.35	5.06	140
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	33.35	4.71	155
X180	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	29.17	1.18	115
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	31.54	3.54	120
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	34.57	4.59	150
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	34.57	4.59	165
X190	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	29.17	1.18	115
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	31.54	3.54	120
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	34.57	4.59	150
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	34.57	4.59	165
X200	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	34.57	3.46	145
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	37.60	4.85	175
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	37.60	4.46	185
X210	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.15	34.57	3.46	145
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	37.60	4.85	175
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.15	37.60	4.46	185

30593506/EN – 07/2023

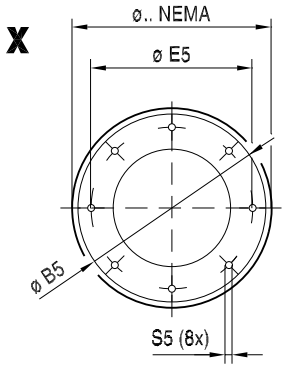
14.26.8 NEMA motor adapter X3T220 – 250

X3T..

48 009 03 10



≥ *NEMA 364*



30593506/EN – 07/2023

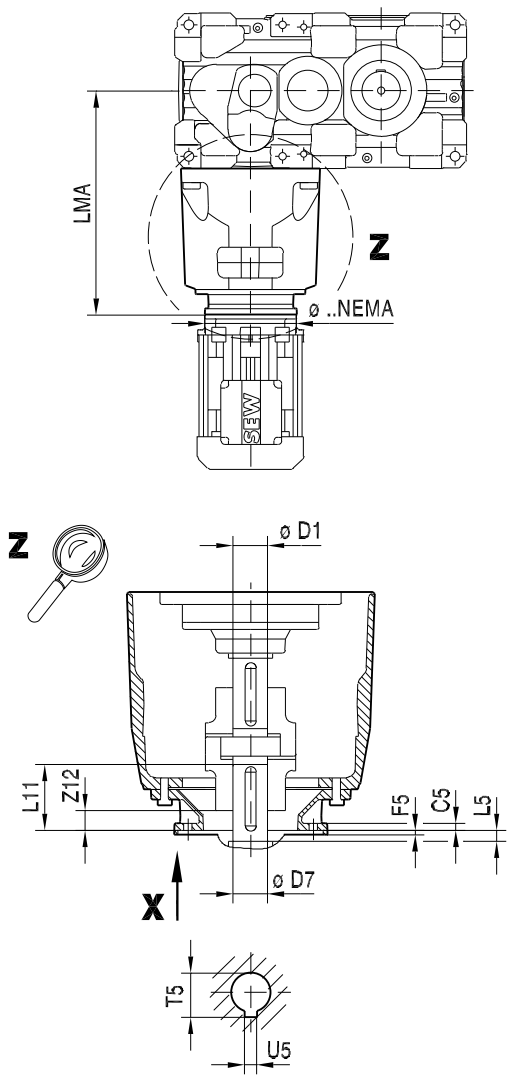
inch																kg
X3T..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X220	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.35	37.17	3.46	175
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	40.20	4.90	200
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	40.20	4.51	215
X230	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	3.35	37.17	3.46	175
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	40.20	4.90	200
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.35	40.20	4.51	215
X240	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	42.13	4.27	220
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	42.13	3.68	230
X250	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	42.13	4.27	220
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	3.94	42.13	3.68	230

30593506/EN – 07/2023

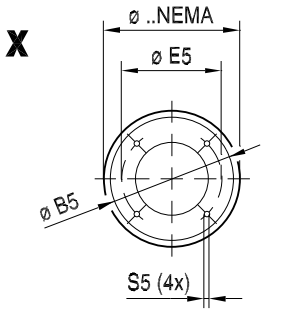
14.26.9 NEMA motor adapter X4T120 – 210

X4T..

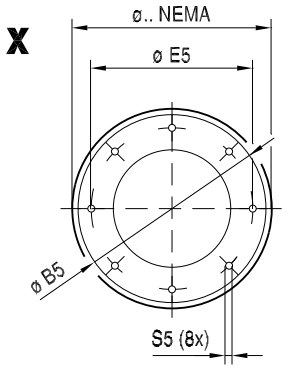
48 010 03 10



≤ *NEMA 326*



≥ *NEMA 364*



30593506/EN – 07/2023

inch																kg
X4T..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X120	182-184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	18.98	1.02	35
	213 to 215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	18.98	1.27	35
	254 to 256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.10	18.98	0.74	40
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.10	20.71	2.11	45
X130	182-184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	18.98	1.02	35
	213 to 215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.10	18.98	1.27	35
	254 to 256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.10	18.98	0.74	40
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.10	20.71	2.11	45
X140	182-184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	22.32	1.10	50
	213 to 215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	22.32	0.84	50
	254 to 256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	22.32	1.05	50
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	24.06	2.07	55
X150	182-184	9	8 1/2^{H7}	0.55	1 1/8$^{+0.0010}$	7 1/4	0.2	1/4	2 5/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	22.32	1.10	50
	213 to 215	9	8 1/2^{H7}	0.55	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.26	22.32	0.84	50
	254 to 256	9	8 1/2^{H7}	0.55	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.26	22.32	1.05	50
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.26	24.06	2.07	55
X160	213-215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	25.75	1.31	80
	254 to 256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	25.75	1.52	85
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	26.81	2.16	85
	324 to 326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	28.54	2.79	90
X170	213-215	9	8 1/2^{H7}	0.47	1 3/8$^{+0.0010}$	7 1/4	0.2	1/4	3 1/8	0.59 (4x)	1.524	3/8$^{+0.00197}$	1.50	25.75	1.31	80
	254 to 256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.794	3/8$^{+0.00197}$	1.50	25.75	1.52	85
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.50	26.81	2.16	85
	324 to 326	13	12 1/2^{H7}	0.71	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.50	28.54	2.79	90
X180	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	29.88	0.99	95
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	30.95	2.04	95
	324 to 326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	32.68	3.22	100
	364 to 365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	32.68	2.20	115
	404 to 405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	35.04	4.09	120
X190	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	29.88	0.99	95
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	30.95	2.04	95
	324 to 326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	32.68	3.22	100
	364 to 365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	32.68	2.20	115
	404 to 405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	35.04	4.09	120
X200	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	30.55	0.97	125
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	31.61	2.03	125
	324 to 326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	33.35	3.22	130
	364 to 365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	33.35	2.00	145
	404 to 405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	35.71	3.97	150
	444-445[1)]	16.6	16H7	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	38.74	4.85	180
X210	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	1.97	30.55	0.99	125
	284 to 286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	1.97	31.61	2.03	125
	324 to 326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	1.97	33.35	3.22	130
	364 to 365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	1.97	33.35	2.00	145
	404 to 405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	1.97	35.71	3.97	150
	444 to 445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	1.97	38.74	4.85	180

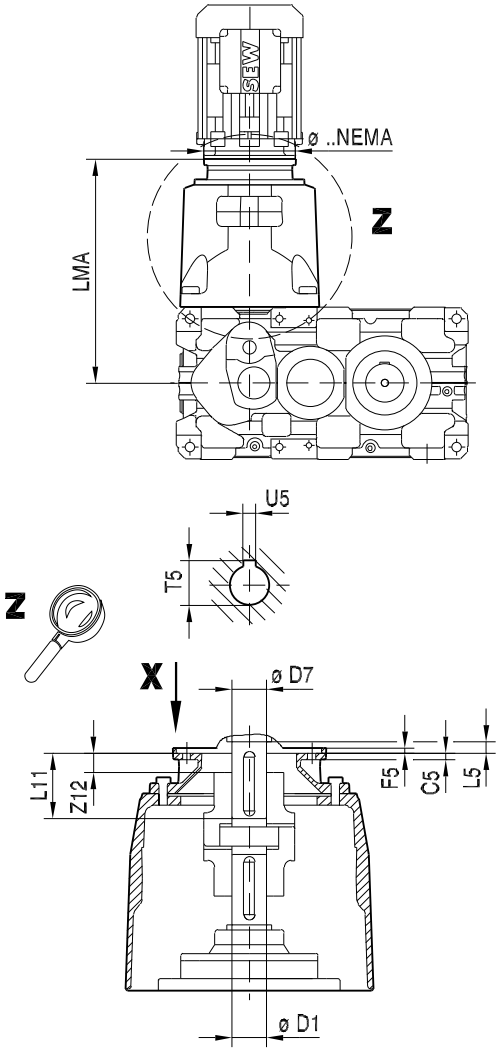
1) Consult SEW-EURODRIVE

30593506/EN – 07/2023

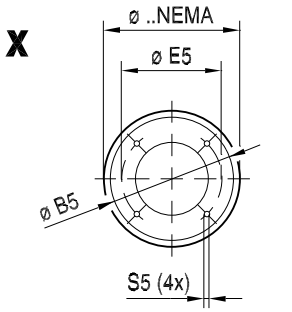
14.26.10 NEMA motor adapter X4T220 – 250

X4T..

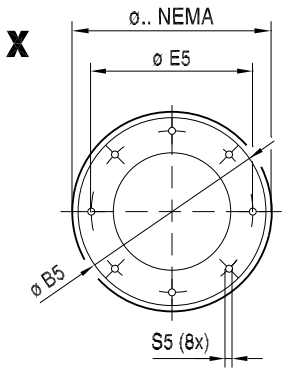
48 011 03 10



≤ *NEMA 326*



≥ *NEMA 364*



30593506/EN – 07/2023

inch																kg
X4T..	NEMA	Ø NEMA	Ø B5	C5	Ø D7	Ø E5	F5	L5	L11	S5	T5	U5	Ø D1	LMA	Z12	
X220	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	2.36	34.13	0.89	140
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	2.36	35.20	2.02	140
	324-326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	36.93	3.23	150
	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	36.93	2.20	160
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	39.29	3.97	165
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	42.32	4.85	195
X230	254-256	9	8 1/2^{H7}	0.47	1 5/8$^{+0.0010}$	7 1/4	0.2	1/4	3 3/4	0.59 (4x)	1.803	3/8$^{+0.00197}$	2.36	34.13	0.89	140
	284-286	11 1/4	10 1/2^{H7}	0.59	1 7/8$^{+0.0010}$	9	0.2	1/4	4 3/8	0.59 (4x)	2.106	1/2$^{+0.00197}$	2.36	35.20	2.02	140
	324-326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.36	36.93	3.23	150
	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.36	36.93	2.20	160
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.36	39.29	3.97	165
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.36	42.32	4.85	195
X240	324-326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.76	38.15	2.29	170
	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	38.15	1.18	180
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	40.51	3.50	185
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	43.54	4.59	215
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	43.54	4.59	225
X250	324-326	13	12 1/2^{H7}	0.67	2 1/8$^{+0.0015}$	11	0.2	1/4	5	0.69 (4x)	2.362	1/2$^{+0.00197}$	2.76	38.15	2.29	170
	364-365	13	12 1/2^{H7}	0.67	2 3/8$^{+0.0015}$	11	0.2	1/4	5 5/8	0.69 (8x)	2.661	5/8$^{+0.00197}$	2.76	38.15	1.18	180
	404-405	13	12 1/2^{H7}	0.67	2 7/8$^{+0.0015}$	11	0.2	1/4	7	0.69 (8x)	3.213	3/4$^{+0.00197}$	2.76	40.51	3.50	185
	444-445	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	43.54	4.59	215
	447-449	16.6	16^{H7}	0.79	3 3/8$^{+0.0015}$	14	0.2	1/4	8 1/4	0.69 (8x)	3.772	7/8$^{+0.00197}$	2.76	43.54	4.59	225

30593506/EN – 07/2023

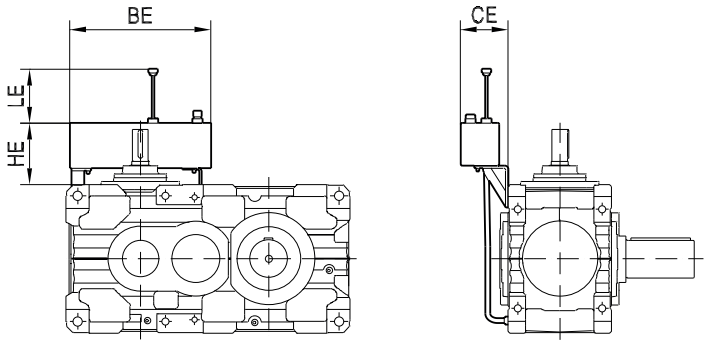
14.27 Oil expansion tank /ET for mounting position M1/M3 [mm]

INFORMATION

The dimensions of the oil expansion tanks are provided for information purposes only. Final dimensions are specified order-specifically by SEW-EURODRIVE. For further information, refer to chapter "Oil expansion tank /ET" (→ 🗎 81).

ET

48 013 02 10



X3T	Mounting position	BE	CE	HE	LE
X100	M3	380	200	194	193
X110	M3	380	200	194	193
X120	M3	380	215	197	193
X130	M3	380	215	197	193
X140	M3	530	285	223	202
X150	M3	530	285	223	202
X160	M3	580	344	263	260
X170	M3	580	344	263	260
X180	M3	580	290	268	260
X190	M3	580	290	268	260
X200	M3	690	336	293	290
X210	M3	690	336	293	290
X220	M1	820	355	328	312
X230	M1	820	355	328	312
X240	M1	820	360	345	312
X250	M1	820	360	345	312

X4T	Mounting position	BE	CE	HE	LE
X120	M3	380	215	197	193
X130	M3	380	215	197	193
X140	M3	530	220	253	202
X150	M3	530	220	253	202
X160	M3	580	285	313	260
X170	M3	580	285	313	260
X180	M3	580	283	365	260
X190	M3	580	283	365	260
X200	M3	690	313	374	290
X210	M3	690	313	374	290
X220	M1	820	333	417	312
X230	M1	820	333	417	312
X240	M1	820	340	425	312
X250	M1	820	340	425	312

30593506/EN – 07/2023

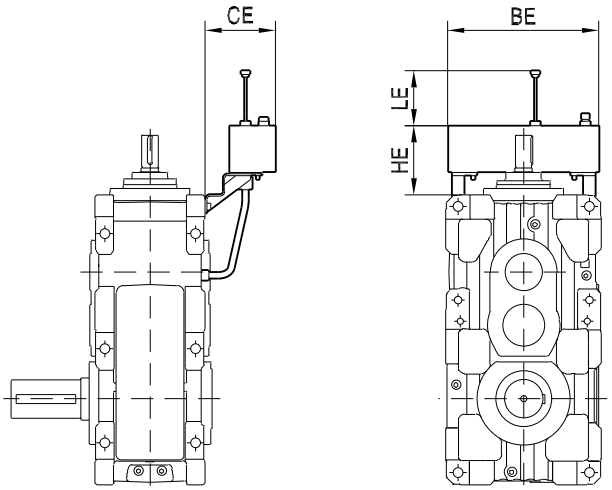
14.28 Oil expansion tank /ET for mounting position M4 [mm]

INFORMATION

The dimensions of the oil expansion tanks are provided for information purposes only. Final dimensions are specified order-specifically by SEW-EURODRIVE. For further information, refer to chapter "Oil expansion tank /ET" (→ 🗎 81).

ET

48 012 03 10



X2K	Mounting position	BE	CE	HE	LE
X100	M4	380	176	231	193
X110	M4	380	176	231	193
X120	M4	380	175	224	193
X130	M4	380	175	224	193
X140	M4	530	220	255	202
X150	M4	530	220	255	202
X160	M4	580	285	314	260
X170	M4	580	285	314	260
X180	M4	580	290	327	260
X190	M4	580	290	327	260
X200	M4	690	335	394	290
X210	M4	690	335	394	290
X220	M4	820	350	449	312
X230	M4	820	350	449	312
X240	M4	820	360	401	312
X250	M4	820	360	401	312

X3K	Mounting position	BE	CE	HE	LE
X100	M4	380	200	190	193
X110	M4	380	200	190	193
X120	M4	380	215	201	193
X130	M4	380	215	201	193
X140	M4	530	170	225	202
X150	M4	530	170	225	202
X160	M4	580	240	272	260
X170	M4	580	240	272	260
X180	M4	580	290	268	260

30593506/EN – 07/2023

Oil expansion tank /ET for mounting position M4 [mm]

X3K	Mounting position	BE	CE	HE	LE
X190	M4	580	290	268	260
X200	M4	690	336	294	290
X210	M4	690	336	294	290
X220	M4	820	355	328	312
X230	M4	820	355	328	312
X240	M4	820	360	344	312
X250	M4	820	360	344	312

X4K	Mounting position	BE	CE	HE	LE
X120	M4	380	215	201	193
X130	M4	380	215	201	193
X140	M4	530	220	255	202
X150	M4	530	220	255	202
X160	M4	580	285	314	260
X170	M4	580	285	314	260
X180	M4	580	283	365	260
X190	M4	580	283	365	260
X200	M4	690	313	375	290
X210	M4	690	313	375	290
X220	M4	820	333	417	312
X230	M4	820	333	417	312
X240	M4	820	285	424	312
X250	M4	820	285	424	312

30593506/EN – 07/2023

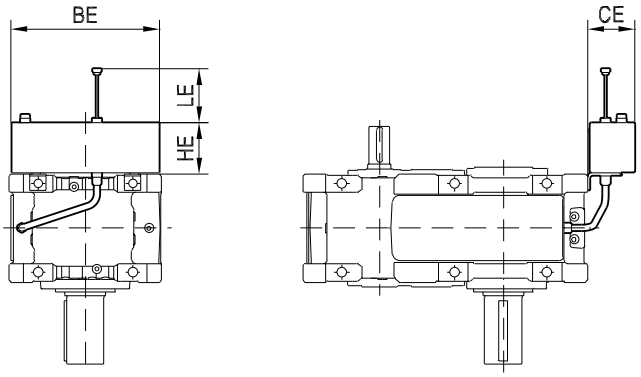
14.29 Oil expansion tank /ET for mounting position M5/M6 [mm]

INFORMATION

The dimensions of the oil expansion tanks are provided for information purposes only. Final dimensions are specified order-specifically by SEW-EURODRIVE. For further information, refer to chapter "Oil expansion tank /ET" (→ 🗎 81).

ET

48 058 05 09



	Mounting position	BE	CE	HE	LE
X100	M5/M6	380	165	170	193
X110	M5/M6	380	165	170	193
X120	M5/M6	380	165	167	193
X130	M5/M6	380	165	167	193
X140	M5/M6	530	175	180	202
X150	M5/M6	530	175	180	202
X160	M5/M6	580	225	228	260
X170	M5/M6	580	225	228	260
X180	M5/M6	580	225	228	260
X190	M5/M6	580	225	228	260
X200	M5/M6	690	240	253	290
X210	M5/M6	690	240	253	290
X220	M5/M6	820	275	280	312
X230	M5/M6	820	275	280	312
X240	M5/M6	820	275	273	312
X250	M5/M6	820	275	273	312

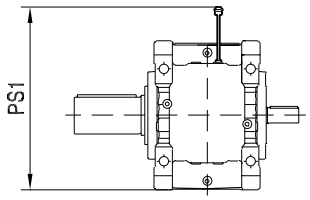
30593506/EN – 07/2023

14.30 Oil dipstick /OD, oil level glass /OLG and breather /BPG [mm]

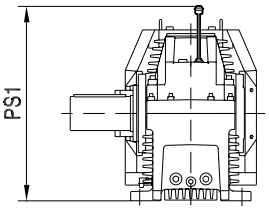
48 077 00 20

OD

M1 **HU/HH**

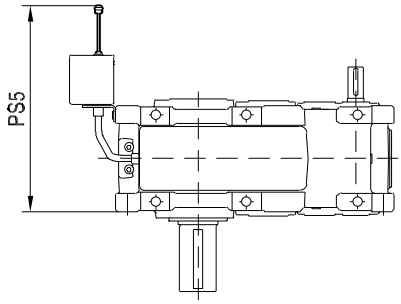


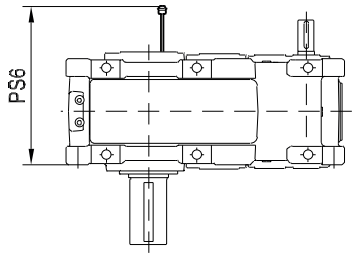
HT



OD

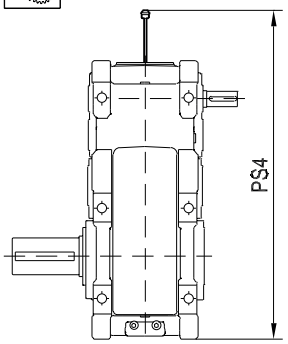
M5



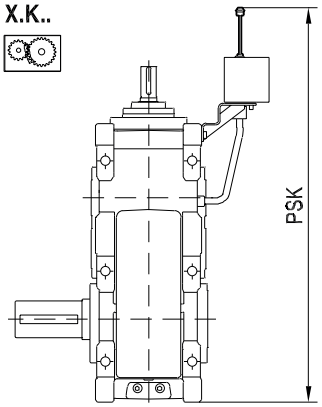


OD

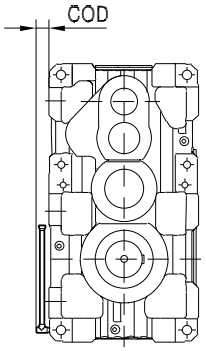
M4 **X.F.. / X.T..**



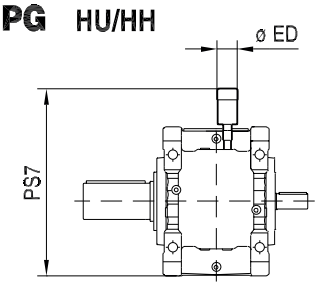
X.K..



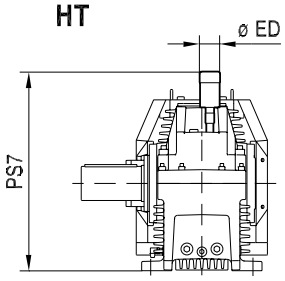
X.F.. / X.K.. / X.T..



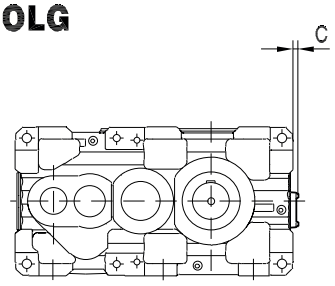
BPG **HU/HH**



HT



OLG



30593506/EN – 07/2023

14.30.1 Oil dipstick /OD

	M1	M5		M4		
	PS1	PS5	PS6	PS4	PSK	COD
X100	520	620	420	790	1060	-
X110	520	620	420	830	1100	-
X120	620	660	480	880	1270	54
X130	620	660	480	950	1240	54
X140	710	750	560	1040	1370	41
X150	710	750	560	1120	1450	41
X160	830	810	660	1300	1620	49
X170	830	810	660	1350	1670	49
X180	890	970	750	1470	1830	51
X190	890	970	750	1500	1865	51
X200	980	1010	800	1640	1985	48
X210	980	1010	800	1680	2020	48
X220	1120	1100	1000	1940	2220	90
X230	1120	1100	1000	1980	2260	90
X240	1150	1170	1150	2110	2380	92
X250	1150	1170	1150	2130	2400	92
X260	1300	-	1180	2270	-	89
X270	1300	-	1180	2300	-	89
X280	1470	-	1180	2420	-	89
X290	1510	-	1320	2610	-	89
X300	1510	-	1320	2640	-	89
X310	1680	-	1430	2880	-	71
X320	1680	-	1430	2920	-	71

30593506/EN – 07/2023

14.30.2 Breather /BPG

	BPG	ø ED	PS7	Housing design
X100 – 110	DC HG-8	104	633^{+5}	HU/HH
	DC2	102	542^{+5}	HU/HH
	DC3	102	593^{+5}	HU/HH
	DC4	102	644^{+5}	HU/HH
	PI	118	480^{+5}	HU/HH
	NIRO	62	453^{+5}	HU/HH
X120 – 130	DC HG-8	104	693^{+5}	HU/HH
	DC2	102	602^{+5}	HU/HH
	DC3	102	653^{+5}	HU/HH
	DC4	102	704^{+5}	HU/HH
	PI	118	540 $^{+5}$	HU/HH
	NIRO	62	513^{+5}	HU/HH
X140 – 150	DC HG-8	104	758^{+5}	HU/HH
	DC2	102	667^{+5}	HU/HH
	DC3	102	718^{+5}	HU/HH
	DC4	102	769^{+5}	HU/HH
	PI	118	605^{+5}	HU/HH
	NIRO	62	578^{+5}	HU/HH
X160 – 170	DC HG-8	104	882^{+5}	HU/HH
	DC2	102	791^{+5}	HU/HH
	DC3	102	842^{+5}	HU/HH
	DC4	102	893^{+5}	HU/HH
	PI	118	729^{+5}	HU/HH
	NIRO	71	689^{+5}	HU/HH
X180 – 190	DC HG-8	104	922^{+5}	HU/HH
	DC2	102	831^{+5}	HU/HH
	DC3	102	882^{+5}	HU/HH
	DC4	102	933^{+5}	HU/HH
	PI	118	769^{+5}	HU/HH
	NIRO	71	729^{+5}	HU/HH
X200 – 210	DC HG-8	104	987^{+5}	HU/HH
	DC2	102	896^{+5}	HU/HH
	DC3	102	947^{+5}	HU/HH
	DC4	102	998^{+5}	HU/HH
	PI	118	834^{+5}	HU/HH
	NIRO	71	662^{+5}	HU/HH
X3T.200 – 210	NIRO	71	794^{+5}	HU/HH
X220 – 230	DC HG-8	104	1072^{+5}	HU/HH
	DC2	102	981^{+5}	HU/HH
	DC3	102	1032^{+5}	HU/HH
	DC4	102	1083^{+5}	HU/HH
	PI	118	919^{+5}	HU/HH
	NIRO	71	747^{+5}	HU/HH
X3T.220 – 230	NIRO	71	879^{+5}	HU/HH
X240 – 250	DC HG-8	104	1066^{+5}	HU/HH
	DC2	102	975^{+5}	HU/HH
	DC3	102	1024^{+5}	HU/HH
	DC4	102	1077^{+5}	HU/HH
	PI	118	911^{+5}	HU/HH
	NIRO	71	779^{+5}	HU/HH
X3T.240 – 250	NIRO	71	911^{+5}	HU/HH

30593506/EN – 07/2023

	BPG	ø ED	PS7	Housing design
X260 – 270	DC HG-8	104	1204^{+5}	HH
	DC HG-8	104	1166^{+5}	HU
	DC2	102	1113^{+5}	HH
	DC2	102	1075^{+5}	HU
	DC3	102	1164^{+5}	HH
	DC3	102	1124^{+5}	HU
	DC4	102	1215^{+5}	HH
	DC4	102	1177^{+5}	HU
	PI	118	1051^{+5}	HH
	PI	118	1011^{+5}	HU
	NIRO	71	879^{+5}	HU/HH
X280 – 290	DC HG-8	104	1314^{+5}	HH
	DC HG-8	104	1276^{+5}	HU
	DC2	102	1223^{+5}	HH
	DC2	102	1185^{+5}	HU
	DC3	102	1274^{+5}	HH
	DC3	102	1234^{+5}	HU
	DC4	102	1325^{+5}	HH
	DC4	102	1287^{+5}	HU
	PI	118	1161^{+5}	HH
	PI	118	1211^{+5}	HU
	NIRO	71	989^{+5}	HU/HH
X300 – 310	DC HG-8	104	1342^{+5}	HH
	DC HG-8	104	1304^{+5}	HU
	DC2	102	1251^{+5}	HH
	DC2	102	1213^{+5}	HU
	DC3	102	1302^{+5}	HH
	DC3	102	1262^{+5}	HU
	DC4	102	1353^{+5}	HH
	DC4	102	1315^{+5}	HU
	PI	118	1189^{+5}	HH
	PI	118	1149^{+5}	HU
	NIRO	71	1017^{+5}	HU/HH
X320	DC HG-8	104	1444^{+5}	HH
	DC HG-8	104	1406^{+5}	HU
	DC2	102	1353^{+5}	HH
	DC2	102	1315^{+5}	HU
	DC3	102	1404^{+5}	HH
	DC3	102	1364^{+5}	HU
	DC4	102	1455^{+5}	HH
	DC4	102	1417^{+5}	HU
	PI	118	1291^{+5}	HH
	PI	118	1251^{+5}	HU
	NIRO	71	1119^{+5}	HU/HH

30593506/EN – 07/2023

14.30.3 Oil level glass /OLG

	C
X100	28^{+2}
X110	28^{+2}
X120	28^{+2}
X130	28^{+2}
X140	23^{+2}
X150	23^{+2}
X160	23^{+2}
X170	23^{+2}
X180	25^{+2}
X190	25^{+2}
X200	25^{+2}
X210	25^{+2}
X220	24^{+2}
X230	24^{+2}
X240	24^{+2}
X250	24^{+2}
X260	21^{+2}
X270	21^{+2}
X280	21^{+2}
X290	19^{+2}
X300	19^{+2}
X310	19^{+2}
X320	19^{+2}

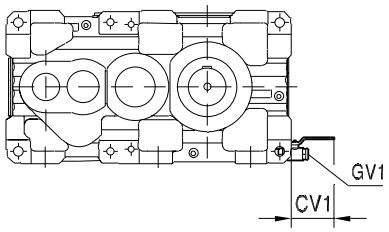
30593506/EN – 07/2023

14.31 Oil drain valve /ODV [mm]

ODV

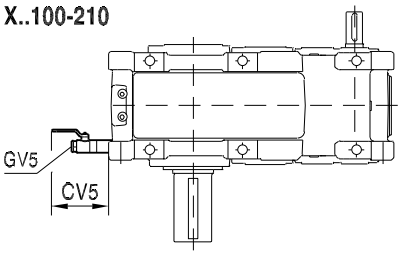
48 015 00 18

M1

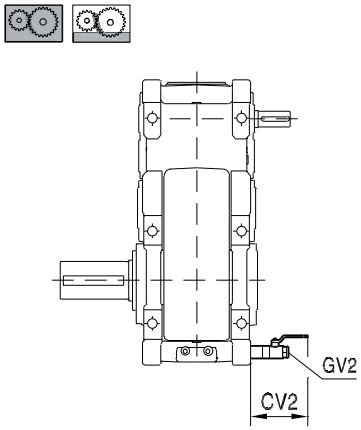


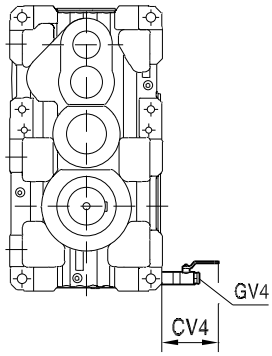
M5

X..100-210

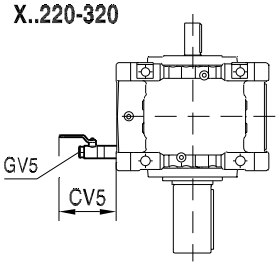


M4





X..220-320



	Mounting position M1		Mounting position M4				Mounting position M5	
	CV1	GV1	CV2	GV2	CV4	GV4	CV5	GV5
X100	89	G1/2"	89	G1/2"	-	-	143	G1/2"
X110	89	G1/2"	89	G1/2"	-	-	143	G1/2"
X120	83	G1/2"	83	G1/2"	-	-	142	G1/2"
X130	83	G1/2"	83	G1/2"	-	-	142	G1/2"
X140	66	G1/2"	66	G1/2"	-	-	136	G1/2"
X150	66	G1/2"	66	G1/2"	-	-	136	G1/2"
X160	91	G1"	91	G1"	-	-	182	G1"
X170	91	G1"	91	G1"	-	-	182	G1"
X180	92	G1"	92	G1"	-	-	179	G1"
X190	92	G1"	92	G1"	-	-	179	G1"
X200	75	G1"	75	G1"	-	-	178	G1"
X210	75	G1"	75	G1"	-	-	178	G1"
X220	107	G1 1/4"	107	G1 1/4"	-	-	214	G1 1/4"
X230	107	G1 1/4"	107	G1 1/4"	288	G1"	214	G1 1/4"
X240	86	G1 1/4"	86	G1 1/4"	288	G1"	211	G1 1/4"
X250	86	G1 1/4"	86	G1 1/4"	288	G1"	211	G1 1/4"
X260	85	G1 1/4"	85	G1 1/4"	288	G1"	213	G1 1/4"
X270	85	G1 1/4"	85	G1 1/4"	288	G1"	213	G1 1/4"
X280	85	G1 1/4"	85	G1 1/4"	288	G1"	213	G1 1/4"
X290	70	G1 1/4"	70	G1 1/4"	268	G1"	208	G1 1/4"
X300	70	G1 1/4"	70	G1 1/4"	268	G1"	208	G1 1/4"
X310	66	G1 1/4"	66	G1 1/4"	270	G1"	212	G1 1/4"
X320	66	G1 1/4"	66	G1 1/4"	270	G1"	212	G1 1/4"

30593506/EN – 07/2023

15 Lubricant fill quantities

INFORMATION

- The specified lubricant fill quantities are guide values. The exact values vary depending on the number of gear stages and gear ratio.
- The mark on the oil dipstick or the oil level glass is the decisive indicator of the correct oil quantity.
- For pivoted mounting positions, the lubricant fill quantity on the nameplate may vary from the standard. The fill quantity specified on the nameplate is a guide value. The mark on the oil dipstick or the oil level glass is the decisive indicator of the correct oil quantity.

30593506/EN – 07/2023

15.1 Horizontal housing /HH and universal housing /HU

15.1.1 Mounting position M1

XF..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2F100	14	–
X2F110	15	–
X2F120	22	–
X2F130	24	–
X2F140	37	–
X2F150	39	–
X2F160	63	63
X2F170	63	63
X2F180	80	80
X2F190	82	82
X2F200	110	110
X2F210	110	110
X2F220	145	145
X2F230	145	145
X2F240	180	180
X2F250	180	180
X2F260	284	284
X2F270	285	285
X2F280	335	335
X2F290	410	410
X2F300	410	410
X2F310	555	555
X2F320	555	555
X3F100	15	–
X3F110	16	–
X3F120	22	–
X3F130	25	–
X3F140	36	–
X3F150	38	–
X3F160	61	61
X3F170	61	61
X3F180	78	78
X3F190	80	80
X3F200	110	110
X3F210	110	110
X3F220	145	145
X3F230	145	145
X3F240	180	180
X3F250	182	182

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X3F260	287	287
X3F270	288	288
X3F280	350	350
X3F290	415	415
X3F300	418	418
X3F310	545	545
X3F320	545	545
X4F120	19	–
X4F130	19	–
X4F140	33	–
X4F150	33	–
X4F160	57	57
X4F170	57	57
X4F180	77	77
X4F190	80	80
X4F200	97	97
X4F210	97	97
X4F220	150	150
X4F230	150	150
X4F240	165	165
X4F250	172	172
X4F260	290	290
X4F270	295	295
X4F280	325	325
X4F290	415	415
X4F300	425	425
X4F310	537	537
X4F320	537	537

XK..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2K100	12	–
X2K110	29	29
X2K120	17	–
X2K130	47	47
X2K140	26	–
X2K150	93	93
X2K160	47	47
X2K170	119	119
X2K180	64	64
X2K190	66	66
X2K200	87	87
X2K210	87	87

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2K220	135	135
X2K230	135	135
X2K240	170	170
X2K250	170	170
X3K100	12	–
X3K110	14	–
X3K120	20	–
X3K130	22	–
X3K140	34	–
X3K150	34	–
X3K160	59	59
X3K170	59	59
X3K180	74	74
X3K190	77	77
X3K200	105	105
X3K210	105	105
X3K220	135	135
X3K230	139	139
X3K240	175	175
X3K250	175	175
X3K260	279	279
X3K270	279	279
X3K280	330	330
X3K290	432	432
X3K300	432	432
X3K310	540	540
X3K320	540	540
X4K120	25	–
X4K130	23	–
X4K140	35	–
X4K150	39	–
X4K160	61	61
X4K170	61	61
X4K180	81	81
X4K190	84	84
X4K200	107	107
X4K210	109	109
X4K220	145	145
X4K230	145	145
X4K240	181	181
X4K250	181	181
X4K260	275	275
X4K270	275	275
X4K280	335	335

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X4K290	425	425
X4K300	425	425
X4K310	545	545
X4K320	545	545

XT..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for bath lubrication
X3T100	14	–	–
X3T110	15	–	–
X3T120	20	–	–
X3T130	22	–	–
X3T140	32	–	–
X3T150	32	–	–
X3T160	53	53	–
X3T170	53	53	–
X3T180	67	67	–
X3T190	67	67	–
X3T200	87	87	–
X3T210	87	87	–
X3T220	–	140	305
X3T230	–	140	305
X3T240	–	170	400
X3T250	–	170	400
X4T120	20	–	–
X4T130	22	–	–
X4T140	31	–	–
X4T150	34	–	–
X4T160	56	56	–
X4T170	56	56	–
X4T180	77	77	–
X4T190	77	77	–
X4T200	97	97	–
X4T210	97	97	–
X4T220	–	210	310
X4T230	–	210	310
X4T240	–	265	405
X4T250	–	265	405

30593506/EN – 07/2023

15.1.2 Mounting position M3

XF..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2F100	14	–
X2F110	15	–
X2F120	20	–
X2F130	22	–
X2F140	37	–
X2F150	37	–
X2F160	62	62
X2F170	62	62
X2F180	77	77
X2F190	80	80
X2F200	105	105
X2F210	105	105
X2F220	135	135
X2F230	135	135
X2F240	175	175
X2F250	175	175
X2F260	280	280
X2F270	280	280
X2F280	335	335
X2F290	410	410
X2F300	410	410
X2F310	555	555
X2F320	555	555
X3F100	14	–
X3F110	16	–
X3F120	20	–
X3F130	23	–
X3F140	38	–
X3F150	38	–
X3F160	64	64
X3F170	64	64
X3F180	78	78
X3F190	82	82
X3F200	110	110
X3F210	110	110
X3F220	145	145
X3F230	145	145
X3F240	180	180
X3F250	180	180
X3F260	275	275
X3F270	275	275

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X3F280	340	340
X3F290	405	405
X3F300	405	405
X3F310	545	545
X3F320	545	545
X4F120	24	–
X4F130	26	–
X4F140	42	–
X4F150	42	–
X4F160	82	82
X4F170	82	82
X4F180	108	108
X4F190	105	105
X4F200	140	140
X4F210	140	140
X4F220	185	185
X4F230	185	185
X4F240	231	231
X4F250	227	227
X4F260	360	360
X4F270	360	360
X4F280	425	425
X4F290	520	520
X4F300	520	520
X4F310	690	690
X4F320	690	690

XK..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2K100	12	–
X2K110	29	29
X2K120	16	–
X2K130	47	47
X2K140	25	–
X2K150	93	93
X2K160	46	46
X2K170	119	119
X2K180	62	62
X2K190	64	64
X2K200	82	82
X2K210	82	82
X2K220	140	135
X2K230	140	140

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X2K240	175	175
X2K250	175	175
X3K100	17	–
X3K110	15	–
X3K120	20	–
X3K130	23	–
X3K140	34	–
X3K150	35	–
X3K160	59	59
X3K170	59	59
X3K180	77	77
X3K190	80	80
X3K200	100	100
X3K210	108	108
X3K220	130	130
X3K230	130	130
X3K240	170	170
X3K250	170	170
X3K260	260	260
X3K270	260	260
X3K280	330	330
X3K290	405	405
X3K300	405	405
X3K310	540	540
X3K320	540	540
X4K120	20	–
X4K130	23	–
X4K140	36	–
X4K150	38	–
X4K160	60	60
X4K170	60	60
X4K180	77	77
X4K190	78	78
X4K200	110	110
X4K210	110	110
X4K220	145	145
X4K230	145	145
X4K240	180	180
X4K250	180	180
X4K260	275	275
X4K270	275	275
X4K280	335	335
X4K290	415	415
X4K300	415	415

30593506/EN – 07/2023

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X4K310	545	545
X4K320	545	545

XT..

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for bath lubrication
X3T100	–	–	36
X3T110	–	–	36
X3T120	–	–	46
X3T130	–	–	47
X3T140	–	–	79
X3T150	–	–	81
X3T160	–	61	139
X3T170	–	61	139
X3T180	–	72	175
X3T190	–	72	175
X3T200	–	92	235
X3T210	–	92	235
X3T220	120	120	–
X3T230	120	120	–
X3T240	155	155	–
X3T250	155	155	–
X4T120	–	–	50
X4T130	–	–	53
X4T140	–	–	79
X4T150	–	–	81
X4T160	–	75	143
X4T170	–	75	143
X4T180	–	119	180
X4T190	–	119	180
X4T200	–	155	240
X4T210	–	155	230
X4T220	145	145	–
X4T230	145	145	–
X4T240	180	180	–
X4T250	180	180	–

15.1.3 Mounting position M5

Observe the information on the nameplate.

For the "Universal housing with EBD" version, you must add the additional oil quantity specified in the table, see chapter "Additional oil quantity for universal housing HU with extended bearing distance (EBD)" (→ 🗎 543).

30593506/EN – 07/2023

XF..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2F100	33	–	–
X2F110	34	–	–
X2F120	48	17	12
X2F130	55	20	13
X2F140	79	36	22
X2F150	84	38	22
X2F160	157	60	39
X2F170	157	60	39
X2F180	185	74	51
X2F190	190	77	56
X2F200	255	110	77
X2F210	255	110	77
X2F220	340	130	97
X2F230	340	130	97
X2F240	415	160	105
X2F250	415	160	105
X2F260	655	225	197
X2F270	655	225	197
X2F280	785	270	239
X2F290	955	305	289
X2F300	955	305	289
X2F310	1290	421	421
X2F320	1290	421	421
X3F100	33	–	–
X3F110	34	–	–
X3F120	47	17	12
X3F130	48	20	15
X3F140	77	38	22
X3F150	85	36	24
X3F160	151	58	38
X3F170	151	58	38
X3F180	184	71	54
X3F190	190	73	56
X3F200	245	110	71
X3F210	245	110	72
X3F220	317	125	95
X3F230	317	125	95
X3F240	405	150	113
X3F250	405	150	113
X3F260	630	215	188
X3F270	630	215	188
X3F280	775	265	235

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X3F290	925	300	280
X3F300	925	300	280
X3F310	1245	404	404
X3F320	1245	404	404
X4F120	43	17	13
X4F130	48	18	13
X4F140	74	25	20
X4F150	78	26	20
X4F160	142	44	38
X4F170	142	44	38
X4F180	174	66	51
X4F190	180	68	53
X4F200	235	105	70
X4F210	236	105	70
X4F220	320	155	95
X4F230	320	155	95
X4F240	415	190	115
X4F250	415	190	115
X4F260	645	255	191
X4F270	645	255	191
X4F280	770	310	235
X4F290	940	395	278
X4F300	940	395	278
X4F310	1225	520	398
X4F320	1225	520	398

XK..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2K100	30	–	–
X2K110	29	–	–
X2K120	41	17	11
X2K130	43	17	13
X2K140	61	26	19
X2K150	64	27	19
X2K160	129	50	34
X2K170	129	50	34
X2K180	155	62	41
X2K190	155	62	41
X2K200	210	87	62
X2K210	210	87	62
X2K220	335	135	137
X2K230	335	135	137

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2K240	410	160	145
X2K250	410	160	145
X3K100	34	–	–
X3K110	34	–	–
X3K120	46	17	11
X3K130	50	18	14
X3K140	80	34	20
X3K150	81	36	20
X3K160	143	55	38
X3K170	143	55	38
X3K180	177	72	55
X3K190	180	74	55
X3K200	242	97	76
X3K210	245	105	81
X3K220	320	120	91
X3K230	320	120	91
X3K240	405	150	99
X3K250	405	150	99
X3K260	615	215	190
X3K270	615	215	190
X3K280	750	270	241
X3K290	930	305	287
X3K300	930	305	287
X3K310	1250	416	416
X3K320	1250	416	416
X4K120	46	20	12
X4K130	48	23	13
X4K140	77	37	20
X4K150	83	38	20
X4K160	147	61	38
X4K170	147	61	38
X4K180	179	80	55
X4K190	188	87	55
X4K200	241	115	76
X4K210	244	115	76
X4K220	318	155	95
X4K230	318	155	95
X4K240	415	177	116
X4K250	415	177	116
X4K260	630	280	190
X4K270	630	280	190
X4K280	775	350	236
X4K290	965	420	281

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X4K300	965	420	281
X4K310	1260	560	413
X4K320	1260	560	413

XT..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X3T100	36	–	–
X3T110	36	–	–
X3T120	46	17	13
X3T130	47	18	14
X3T140	79	32	20
X3T150	81	33	20
X3T160	139	53	34
X3T170	139	53	34
X3T180	175	72	52
X3T190	175	72	52
X3T200	235	97	70
X3T210	235	97	70
X3T220	305	120	91
X3T230	305	120	91
X3T240	400	150	112
X3T250	400	150	112
X4T120	50	18	13
X4T130	53	22	14
X4T140	79	32	20
X4T150	81	33	20
X4T160	143	55	34
X4T170	143	55	34
X4T180	180	82	52
X4T190	180	82	52
X4T200	240	110	68
X4T210	240	110	68
X4T220	310	150	94
X4T230	310	150	94
X4T240	405	190	112
X4T250	405	190	112

15.1.4 Mounting position M6

Observe the information on the nameplate.

For the "Universal housing with EBD" version, you must add the additional oil quantity specified in the table, see chapter "Additional oil quantity for universal housing HU with extended bearing distance (EBD)" (→ 🗎 543).

30593506/EN – 07/2023

XF..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2F100	33	–	–
X2F110	34	–	–
X2F120	48	17	12
X2F130	55	20	13
X2F140	79	36	22
X2F150	84	38	22
X2F160	157	60	39
X2F170	157	60	39
X2F180	185	74	51
X2F190	190	77	56
X2F200	255	110	77
X2F210	255	110	77
X2F220	340	130	97
X2F230	340	130	97
X2F240	415	160	105
X2F250	415	160	105
X2F260	655	225	197
X2F270	655	225	197
X2F280	785	270	239
X2F290	955	305	289
X2F300	955	305	289
X2F310	1290	421	421
X2F320	1290	421	421
X3F100	33	–	–
X3F110	34	–	–
X3F120	47	17	12
X3F130	48	20	15
X3F140	77	38	22
X3F150	85	36	24
X3F160	151	58	38
X3F170	151	58	38
X3F180	184	71	54
X3F190	190	73	56
X3F200	245	110	71
X3F210	245	110	72
X3F220	317	125	95
X3F230	317	125	95
X3F240	405	150	113
X3F250	405	150	113
X3F260	630	215	188
X3F270	630	215	188
X3F280	775	265	235

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X3F290	925	300	280
X3F300	925	300	280
X3F310	1245	404	404
X3F320	1245	404	404
X4F120	43	17	13
X4F130	48	18	13
X4F140	74	25	20
X4F150	78	26	20
X4F160	142	52	38
X4F170	142	55	38
X4F180	174	66	51
X4F190	180	68	53
X4F200	235	105	70
X4F210	236	105	70
X4F220	320	155	95
X4F230	320	155	95
X4F240	415	190	115
X4F250	415	190	115
X4F260	645	255	191
X4F270	645	255	191
X4F280	770	310	235
X4F290	940	395	278
X4F300	940	395	278
X4F310	1225	520	398
X4F320	1225	520	398

XK..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2K100	30	–	–
X2K110	29	–	–
X2K120	41	17	11
X2K130	43	17	13
X2K140	61	26	19
X2K150	64	27	19
X2K160	129	34	34
X2K170	129	50	34
X2K180	155	62	41
X2K190	155	62	41
X2K200	210	87	62
X2K210	210	87	62
X2K220	335	135	137
X2K230	335	135	137

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X2K240	410	160	145
X2K250	410	160	145
X3K100	34	–	–
X3K110	34	–	–
X3K120	46	17	11
X3K130	50	18	14
X3K140	80	34	20
X3K150	81	36	20
X3K160	143	55	38
X3K170	143	55	38
X3K180	177	72	55
X3K190	180	74	55
X3K200	242	97	76
X3K210	245	105	81
X3K220	320	120	91
X3K230	320	120	91
X3K240	405	150	99
X3K250	405	150	99
X3K260	615	215	190
X3K270	615	215	190
X3K280	750	270	241
X3K290	930	305	287
X3K300	930	305	287
X3K310	1250	416	416
X3K320	1250	416	416
X4K120	46	20	12
X4K130	48	23	13
X4K140	77	37	20
X4K150	83	38	20
X4K160	147	61	38
X4K170	147	61	38
X4K180	179	80	55
X4K190	185	87	55
X4K200	241	115	76
X4K210	244	115	76
X4K220	318	155	95
X4K230	318	155	95
X4K240	415	177	116
X4K250	415	177	116
X4K260	630	280	190
X4K270	630	280	190
X4K280	775	350	236
X4K290	965	420	281

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X4K300	965	420	281
X4K310	1260	560	413
X4K320	1260	560	413

XT..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X3T100	36	–	–
X3T110	36	–	–
X3T120	46	17	13
X3T130	47	18	14
X3T140	79	32	20
X3T150	81	33	20
X3T160	139	53	34
X3T170	139	53	34
X3T180	175	72	52
X3T190	175	72	52
X3T200	235	97	70
X3T210	235	97	70
X3T220	305	120	91
X3T230	305	120	91
X3T240	400	150	112
X3T250	400	150	112
X4T120	50	18	13
X4T130	53	22	14
X4T140	79	32	20
X4T150	81	33	20
X4T160	143	55	34
X4T170	143	55	34
X4T180	180	82	52
X4T190	180	82	52
X4T200	240	110	68
X4T210	240	110	68
X4T220	310	150	94
X4T230	310	150	94
X4T240	405	190	112
X4T250	405	190	112

30593506/EN – 07/2023

15.1.5 Additional oil quantity for universal housing HU with extended bearing distance (EBD)

X.F.. / X.K..	Additional oil quantity in l
140	2
150	2
160	3
170	3
180	4
190	4
200	6
210	6

15.1.6 Mounting position M2

XF..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2F100	23	–
X2F110	23	–
X2F120	33	–
X2F130	36	–
X2F140	58	–
X2F150	58	–
X2F160	101	101
X2F170	101	101
X2F180	125	125
X2F190	125	125
X2F200	164	164
X2F210	164	164
X2F220	225	225
X2F230	225	225
X2F240	285	285
X2F250	285	285
X2F260	655	445
X2F270	655	445
X2F280	785	525
X2F290	955	655
X2F300	955	655
X2F310	1290	875
X2F320	1290	875
X3F100	20	–
X3F110	22	–
X3F120	35	–
X3F130	36	–
X3F140	56	–
X3F150	57	–
X3F160	93	93
X3F170	93	93

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X3F180	125	125
X3F190	125	125
X3F200	164	164
X3F210	164	164
X3F220	207	207
X3F230	207	207
X3F240	270	270
X3F250	270	270
X3F260	630	430
X3F270	630	430
X3F280	775	510
X3F290	925	630
X3F300	925	630
X3F310	1245	835
X3F320	1245	835
X4F120	29	–
X4F130	33	–
X4F140	49	–
X4F150	49	–
X4F160	82	82
X4F170	82	82
X4F180	115	115
X4F190	115	115
X4F200	152	152
X4F210	152	152
X4F220	211	211
X4F230	211	211
X4F240	275	275
X4F250	267	267
X4F260	645	430
X4F270	645	430
X4F280	770	505
X4F290	940	635
X4F300	940	635
X4F310	1225	815
X4F320	1225	815

XK..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2K100	18	–
X2K110	16	–
X2K120	26	–
X2K130	26	–

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2K140	38	–
X2K150	41	–
X2K160	64	64
X2K170	64	64
X2K180	92	92
X2K190	97	97
X2K200	130	130
X2K210	130	130
X2K220	200	200
X2K230	200	200
X2K240	255	255
X2K250	255	255
X3K100	22	–
X3K110	19	–
X3K120	32	–
X3K130	32	–
X3K140	49	–
X3K150	49	–
X3K160	87	87
X3K170	87	87
X3K180	120	120
X3K190	122	122
X3K200	160	160
X3K210	160	160
X3K220	205	205
X3K230	205	205
X3K240	270	270
X3K250	270	270
X3K260	615	410
X3K270	615	410
X3K280	750	495
X3K290	930	620
X3K300	930	620
X3K310	1250	835
X3K320	1250	835
X4K120	33	–
X4K130	34	–
X4K140	54	–
X4K150	56	–
X4K160	88	88
X4K170	88	88
X4K180	125	125
X4K190	129	129
X4K200	165	165

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X4K210	165	165
X4K220	220	220
X4K230	220	220
X4K240	280	280
X4K250	280	280
X4K260	630	420
X4K270	630	420
X4K280	775	515
X4K290	965	630
X4K300	965	630
X4K310	1260	845
X4K320	1260	845

XT..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X3T100	19	–
X3T110	19	–
X3T120	30	–
X3T130	31	–
X3T140	46	–
X3T150	48	–
X3T160	80	80
X3T170	85	85
X3T180	115	115
X3T190	115	115
X3T200	150	150
X3T210	150	150
X3T220	205	205
X3T230	205	205
X3T240	265	265
X3T250	265	265
X4T120	36	–
X4T130	36	–
X4T140	55	–
X4T150	59	–
X4T160	89	89
X4T170	94	94
X4T180	120	120
X4T190	120	120
X4T200	155	155
X4T210	155	155
X4T220	215	215
X4T230	215	215

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X4T240	275	275
X4T250	275	275

15.1.7 Mounting position M4

XF..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2F100	20	–
X2F110	23	–
X2F120	36	17
X2F130	37	19
X2F140	55	26
X2F150	60	27
X2F160	106	53
X2F170	106	53
X2F180	133	57
X2F190	135	57
X2F200	180	72
X2F210	180	72
X2F220	223	105
X2F230	223	105
X2F240	290	120
X2F250	290	120
X2F260	655	185
X2F270	655	185
X2F280	785	240
X2F290	955	260
X2F300	955	260
X2F310	1290	365
X2F320	1290	365
X3F100	26	–
X3F110	27	–
X3F120	37	17
X3F130	40	19
X3F140	65	26
X3F150	69	27
X3F160	120	53
X3F170	120	53
X3F180	155	57
X3F190	157	57
X3F200	197	72
X3F210	197	72
X3F220	263	105

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X3F230	263	105
X3F240	335	120
X3F250	335	120
X3F260	630	185
X3F270	630	185
X3F280	775	240
X3F290	925	260
X3F300	925	260
X3F310	1245	365
X3F320	1245	365
X4F120	34	17
X4F130	40	19
X4F140	59	26
X4F150	59	27
X4F160	127	53
X4F170	127	53
X4F180	152	57
X4F190	152	57
X4F200	197	72
X4F210	197	72
X4F220	270	105
X4F230	270	105
X4F240	345	120
X4F250	345	120
X4F260	645	185
X4F270	645	185
X4F280	770	240
X4F290	940	260
X4F300	940	260
X4F310	1225	365
X4F320	1225	365

XK..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2K100	30	–
X2K110	29	–
X2K120	41	18
X2K130	43	18
X2K140	66	26
X2K150	70	27
X2K160	136	50
X2K170	136	50
X2K180	155	57

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X2K190	155	57
X2K200	210	72
X2K210	210	72
X2K220	335	105
X2K230	335	105
X2K240	410	120
X2K250	410	120
X3K100	34	–
X3K110	34	–
X3K120	50	19
X3K130	53	19
X3K140	79	26
X3K150	86	29
X3K160	143	50
X3K170	148	50
X3K180	177	57
X3K190	180	57
X3K200	239	75
X3K210	239	75
X3K220	320	105
X3K230	320	105
X3K240	405	120
X3K250	405	120
X3K260	615	185
X3K270	615	185
X3K280	750	240
X3K290	930	260
X3K300	930	260
X3K310	1250	365
X3K320	1250	365
X4K120	47	18
X4K130	50	19
X4K140	82	26
X4K150	88	29
X4K160	147	50
X4K170	147	50
X4K180	184	56
X4K190	188	57
X4K200	255	72
X4K210	255	72
X4K220	335	105
X4K230	335	105
X4K240	415	120
X4K250	415	120

30593506/EN – 07/2023

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X4K260	630	185
X4K270	630	185
X4K280	775	240
X4K290	965	260
X4K300	965	260
X4K310	1260	365
X4K320	1260	365

XT..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication
X3T100	23	–
X3T110	23	–
X3T120	33	17
X3T130	34	17
X3T140	49	25
X3T150	59	29
X3T160	92	50
X3T170	92	50
X3T180	125	57
X3T190	125	57
X3T200	165	72
X3T210	165	72
X3T220	220	105
X3T230	220	105
X3T240	275	120
X3T250	275	120
X4T120	37	17
X4T130	39	17
X4T140	54	25
X4T150	55	29
X4T160	95	50
X4T170	95	50
X4T180	130	57
X4T190	130	57
X4T200	165	72
X4T210	165	72
X4T220	220	105
X4T230	220	105
X4T240	290	120
X4T250	290	120

30593506/EN – 07/2023

15.2 Thermal housing /HT

	Oil quantity in l for splash lubrication	Oil quantity in l for pressure lubrication
X3K180	117	117
X3K190	117	117
X3K200	165	165
X3K210	165	165
X3K220	229	229
X3K230	229	229
X3K240	308	308
X3K250	297	297
X3K260	480	480
X3K270	480	480
X3K280	555	555
X3K290	735	735
X3K300	735	735
X3K310	1020	1020
X3K320	1020	1020

30593506/EN – 07/2023

15.3 Agitator housing /HA

15.3.1 Mounting position M5

XF..

	Oil quantity in l for bath lubrication	Oil quantity in l for pressure lubrication	Oil quantity in l for pressure lubrication with Drywell
X3F140	112	61	61
X3F150	119	66	66
X3F160	176	92	92
X3F170	183	96	96
X3F180	259	133	133
X3F190	265	137	137
X3F200	391	202	202
X3F210	396	207	207

30593506/EN – 07/2023

16 Mass moments of inertia

The mass moments of inertia in kgm^2 are reduced to X.F.. helical gear units and X.K.. bevel-helical gear units. These refer to the HSS input shaft.

16.1 X.F.. Helical gear units

16.1.1 Size X100 – 210

iN	X100	X110	X120	X130	X140	X150	X160	X170	X180	X190	X200	X210
6.3	-	-	0.0413	-	0.0920	-	0.2485	-	0.4518	-	0.8012	-
7.1	0.0153	-	0.0395	-	0.0904	-	0.2328	-	0.4316	0.4726	0.7474	0.8618
8	0.0142	0.0170	0.0278	0.0485	0.0704	0.1066	0.1663	0.2768	0.3134	0.4597	0.5553	0.8014
9	0.0111	0.0157	0.0266	0.0449	0.0694	0.1038	0.1561	0.2580	0.3004	0.3267	0.5202	0.5947
10	0.0104	0.0123	0.0221	0.0324	0.0542	0.0799	0.1223	0.1845	0.2294	0.3185	0.3917	0.5554
11.2	0.0086	0.0114	0.0213	0.0301	0.0535	0.0781	0.1162	0.1724	0.2208	0.2382	0.3697	0.4164
12.5	0.0082	0.0094	0.0148	0.0249	0.0337	0.0604	0.0851	0.1331	0.1619	0.2327	0.2953	0.3917
14	0.0055	0.0088	0.0143	0.0235	0.0333	0.0592	0.0811	0.1259	0.1562	0.1678	0.2815	0.3110
16	0.0052	0.0059	0.0103	0.0166	0.0242	0.0375	0.0606	0.0922	0.1179	0.1642	0.2150	0.2954
18	0.0041	0.0056	0.0100	0.0157	0.0240	0.0368	0.0582	0.0875	0.1146	0.1213	0.2065	0.2244
20	0.0039	0.0044	0.0096	0.0114	0.0202	0.0266	0.0561	0.0649	0.1150	0.1192	0.1723	0.2150
22.4	0.0039	0.0042	0.0094	0.0109	0.0200	0.0261	0.0547	0.0620	0.1129	0.1172	0.1671	0.1781
25	0.0038	0.0040	0.0085	0.0103	0.0178	0.0215	0.0497	0.0587	0.1002	0.1159	0.1566	0.1723
28	0.0035	0.0039	0.0084	0.0100	0.0177	0.0213	0.0488	0.0570	0.0990	0.1015	0.1533	0.1603
31.5	0.0034	0.0036	0.0077	0.0090	0.0156	0.0187	0.0455	0.0515	0.0922	0.1007	0.1377	0.1566
35.5	0.0032	0.0035	0.0076	0.0088	0.0156	0.0185	0.0449	0.0503	0.0913	0.0931	0.1356	0.1402
40	0.0031	0.0032	0.0043	0.0080	0.0101	0.0162	0.0264	0.0466	0.0502	0.0926	0.0741	0.1377
45	0.0019	0.0032	0.0042	0.0079	0.0100	0.0161	0.0261	0.0459	0.0497	0.0507	0.0726	0.0757
50	0.0019	0.0019	0.0040	0.0045	0.0092	0.0104	0.0248	0.0271	0.0468	0.0504	0.0658	0.0741
56	0.0017	0.0019	0.0039	0.0044	0.0091	0.0104	0.0245	0.0267	0.0465	0.0472	0.0649	0.0669
63	0.0017	0.0018	0.0023	0.0041	0.0053	0.0094	0.0131	0.0252	0.0260	0.0470	0.0350	0.0658
71	0.0011	0.0017	0.0023	0.0040	0.0053	0.0094	0.0130	0.0249	0.0258	0.0262	0.0345	0.0356
80	0.0011	0.0011	0.0022	0.0024	0.0049	0.0055	0.0125	0.0134	0.0247	0.0260	0.0320	0.0350
90	0.0011	0.0011	0.0022	0.0024	0.0049	0.0054	0.0124	0.0132	0.0245	0.0248	0.0316	0.0324
100	0.0011	0.0011	0.0014	0.0023	0.0035	0.0050	0.0092	0.0126	0.0174	0.0247	0.0237	0.0320
112	-	0.0011	0.0013	0.0022	0.0035	0.0050	0.0091	0.0125	0.0173	0.0175	0.0235	0.0239
125	-	-	0.0013	0.0014	0.0034	0.0036	0.0089	0.0093	0.0169	0.0174	0.0224	0.0237
140	-	-	0.0013	0.0014	0.0034	0.0036	0.0089	0.0092	0.0169	0.0170	0.0223	0.0226
160	-	-	0.0011	0.0013	0.0031	0.0034	0.0081	0.0090	0.0154	0.0170	0.0186	0.0224
180	-	-	0.0011	0.0013	0.0031	0.0034	0.0081	0.0089	0.0153	0.0154	0.0185	0.0187
200	-	-	0.0006	0.0011	0.0014	0.0031	0.0032	0.0081	0.0075	0.0154	0.0087	0.0186
224	-	-	0.0006	0.0011	0.0014	0.0031	0.0032	0.0081	0.0075	0.0075	0.0086	0.0088
250	-	-	0.0006	0.0006	0.0014	0.0014	0.0032	0.0033	0.0074	0.0075	0.0084	0.0087
280	-	-	0.0006	0.0006	0.0014	0.0014	0.0032	0.0032	0.0074	0.0074	0.0083	0.0084
315	-	-	0.0006	0.0006	0.0013	0.0014	0.0030	0.0032	0.0070	0.0074	0.0074	0.0084
355	-	-	0.0006	0.0006	0.0013	0.0014	0.0030	0.0032	0.0070	0.0070	0.0074	0.0075
400	-	-	-	0.0006	-	0.0013	-	0.0030	-	0.0070	-	0.0074
450	-	-	-	0.0006	-	0.0013	-	0.0030	-	-	-	-

30593506/EN – 07/2023

16.1.2 Size X220 – 320

iN	X220	X230	X240	X250	X260	X270	X280	X290	X300	X310	X320
6.3	1.5144	-	2.9760	-	4.6769	-	-	9.6386	-	11.2564	-
7.1	1.4764	1.6447	2.8280	3.1176	4.5235	4.9823	-	9.0945	10.0319	10.9345	11.9083
8	1.0777	1.6005	1.8735	2.9661	3.0099	4.7686	5.2914	6.0883	9.5327	8.3692	11.5192
9	1.0531	1.1622	1.7820	1.9611	2.9145	3.2000	5.0403	5.7561	6.3285	8.1504	8.8124
10	0.8033	1.1335	1.4861	1.8674	2.2007	3.0670	3.3924	4.2817	6.0237	6.3634	8.5479
11.2	0.7878	0.8564	1.4289	1.5409	2.1383	2.3251	3.2361	4.0651	4.4383	6.2267	6.6402
12.5	0.5367	0.8383	1.0726	1.4823	1.6380	2.2381	2.4510	3.2897	4.2395	4.4842	6.4750
14	0.5269	0.5705	1.0340	1.1095	1.5988	1.7159	2.3488	3.1554	3.3868	4.3990	4.6568
16	0.3776	0.5590	0.7350	1.0700	1.1614	1.6613	1.7947	2.4383	3.2636	4.2518	4.5538
18	0.3717	0.3981	0.7111	0.7578	1.1362	1.2117	1.7307	2.3534	2.4996	4.2010	4.3585
20	0.3373	0.3911	0.5868	0.7334	1.0238	1.1765	1.2625	2.0238	2.4218	3.7855	4.2884
22.4	0.3336	0.3501	0.5734	0.5997	1.0097	1.0519	1.2212	1.9705	2.0623	3.7539	3.8515
25	0.2865	0.3458	0.5192	0.5859	0.9382	1.0322	1.0803	1.7315	2.0134	3.2973	3.8081
28	0.2840	0.2951	0.5107	0.5273	0.6847	0.9566	1.0572	1.3103	1.7541	2.3459	3.3402
31.5	0.2581	0.2922	0.4652	0.5186	0.6382	0.6994	0.9752	1.1554	1.3381	2.0633	2.3794
35.5	0.2564	0.2637	0.4596	0.4705	0.6322	0.6501	0.7156	1.1351	1.1700	2.0506	2.0898
40	0.1403	0.2618	0.2795	0.4648	0.4371	0.6418	0.6622	0.9126	1.1514	1.4454	2.0724
45	0.1394	0.1436	0.2759	0.2829	0.4333	0.4446	0.6524	0.8998	0.9218	1.4375	1.4620
50	0.1294	0.1425	0.2566	0.2792	0.4074	0.4393	0.4522	0.8628	0.9101	1.3151	1.4511
56	0.1288	0.1316	0.2543	0.2589	0.2346	0.4128	0.4460	0.4701	0.8692	0.8901	1.3257
63	0.0668	0.1308	0.1297	0.2565	0.2234	0.2381	0.4183	0.4327	0.4768	0.8164	0.8988
71	0.0664	0.0681	0.1283	0.1310	0.2220	0.2263	0.2421	0.4278	0.4362	0.8131	0.8233
80	0.0625	0.0676	0.1209	0.1296	0.2120	0.2243	0.2292	0.4135	0.4317	0.7620	0.8188
90	0.0622	0.0633	0.1200	0.1218	0.2110	0.2141	0.2269	0.4101	0.4160	0.7599	0.7664
100	0.0494	0.0630	0.1080	0.1208	0.1681	0.2127	0.2162	0.3125	0.4128	0.5281	0.7635
112	0.0493	0.0500	0.1075	0.1085	0.1675	0.1692	0.2145	0.3104	0.3139	0.5269	0.5306
125	0.0477	0.0498	0.1046	0.1080	0.1636	0.1684	0.1704	0.3044	0.3121	0.5088	0.5289
140	0.0476	0.0480	0.1042	0.1049	0.1632	0.1644	0.1694	0.3030	0.3055	0.5080	0.5104
160	0.0437	0.0479	0.0969	0.1046	0.1447	0.1638	0.1652	0.2754	0.3042	0.2509	0.5093
180	0.0436	0.0439	0.0966	0.0971	0.1445	0.1453	0.1646	0.2745	0.2761	0.2504	0.2521
200	0.0174	0.0438	0.0393	0.0969	0.0554	0.1449	0.1458	0.1215	0.2752	0.2294	0.2513
224	0.0174	0.0175	0.0391	0.0394	0.0552	0.0557	0.1454	0.1210	0.1219	0.2290	0.2301
250	0.0170	0.0175	0.0384	0.0393	0.0542	0.0555	0.0560	0.1195	0.1214	0.2239	0.2296
280	0.0169	0.0170	0.0383	0.0385	0.0541	0.0544	0.0557	0.1191	0.1197	0.2237	0.2243
315	0.0159	0.0170	0.0364	0.0384	0.0491	0.0542	0.0546	0.1121	0.1194	0.2090	0.2240
355	0.0159	0.0160	0.0363	0.0364	0.0490	0.0492	0.0544	0.1119	0.1123	0.2089	0.2093
400	-	0.0160	-	0.0364	-	0.0491	0.0494	-	0.1121	-	0.2091
450	-	-	-	-	-	-	0.0493	-	-	-	-

30593506/EN – 07/2023

16.2 X.K../X.T.. Bevel-helical gear units

16.2.1 Size X100 – 210

iN	X100	X110	X120	X130	X140	X150	X160	X170	X180	X190	X200	X210
6.3	-	-	0.0772	-	0.1526	-	0.3660	-	0.7893	-	1.2723	-
7.1	0.0306	-	0.0753	-	0.1509	-	0.3510	-	0.7664	0.8113	1.2202	1.3336
8	0.0295	0.0324	0.0475	0.0846	0.1010	0.1675	0.2799	0.3928	0.5743	0.7960	0.9587	1.2750
9	0.0183	0.0310	0.0462	0.0809	0.1000	0.1647	0.2702	0.3749	0.5600	0.5880	0.9263	0.9969
10	0.0176	0.0195	0.0315	0.0522	0.0698	0.1104	0.1932	0.2972	0.3908	0.5785	0.6459	0.9604
11.2	0.0130	0.0186	0.0307	0.0498	0.0691	0.1086	0.1866	0.2856	0.3812	0.4000	0.6242	0.6715
12.5	0.0125	0.0137	0.0266	0.0346	0.0696	0.0760	0.1665	0.2048	0.3358	0.3936	0.6399	0.6470
14	0.0110	0.0131	0.0261	0.0330	0.0692	0.0748	0.1625	0.1970	0.3304	0.3414	0.6254	0.6561
16	0.0107	0.0115	0.0157	0.0284	0.0399	0.0738	0.1005	0.1736	0.1900	0.3379	0.3594	0.6399
18	0.0097	0.0111	0.0154	0.0275	0.0396	0.0730	0.0980	0.1689	0.1868	0.1934	0.3510	0.3689
20	0.0095	0.0100	0.0225	0.0168	0.0350	0.0424	0.0892	0.1050	0.1719	0.1913	0.3215	0.3594
22.4	0.0090	0.0098	0.0223	0.0163	0.0348	0.0419	0.0878	0.1020	0.1697	0.1742	0.3162	0.3275
25	0.0057	0.0092	0.0132	0.0232	0.0324	0.0364	0.0825	0.0919	0.1567	0.1728	0.3056	0.3216
28	0.0054	0.0059	0.0131	0.0229	0.0323	0.0361	0.0815	0.0901	0.1554	0.1581	0.3022	0.3094
31.5	0.0054	0.0056	0.0124	0.0137	0.0195	0.0334	0.0509	0.0843	0.1036	0.1572	0.1387	0.3056
35.5	0.0030	0.0055	0.0123	0.0135	0.0194	0.0332	0.0502	0.0831	0.1028	0.1045	0.1365	0.1412
40	0.0030	0.0031	0.0060	0.0127	0.0180	0.0200	0.0481	0.0520	0.0985	0.1039	0.1264	0.1387
45	0.0028	0.0030	0.0059	0.0126	0.0180	0.0199	0.0477	0.0513	0.0980	0.0991	0.1249	0.1280
50	0.0028	0.0028	0.0046	0.0062	0.0128	0.0184	0.0319	0.0488	0.0681	0.0988	0.0916	0.1264
56	0.0020	0.0028	0.0046	0.0061	0.0127	0.0183	0.0317	0.0484	0.0677	0.0685	0.0907	0.0927
63	0.0020	0.0020	0.0033	0.0047	0.0084	0.0130	0.0207	0.0324	0.0374	0.0682	0.0716	0.0916
71	0.0014	0.0020	0.0033	0.0047	0.0084	0.0130	0.0206	0.0321	0.0372	0.0377	0.0710	0.0722
80	0.0014	0.0014	0.0017	0.0034	0.0057	0.0086	0.0139	0.0210	0.0330	0.0375	0.0376	0.0716
90	-	0.0014	0.0017	0.0034	0.0057	0.0086	0.0139	0.0208	0.0329	0.0331	0.0372	0.0380
100	-	-	0.0017	0.0018	0.0056	0.0058	0.0135	0.0141	0.0321	0.0330	0.0365	0.0376
112	-	-	0.0017	0.0017	0.0056	0.0058	0.0135	0.0140	0.0320	0.0321	0.0363	0.0368
125	-	-	0.0016	0.0017	0.0054	0.0056	0.0133	0.0137	0.0316	0.0321	0.0352	0.0365
140	-	-	0.0016	0.0017	0.0054	0.0056	0.0132	0.0136	0.0315	0.0316	0.0351	0.0354
160	-	-	0.0014	0.0016	0.0051	0.0054	0.0125	0.0133	0.0299	0.0316	0.0315	0.0352
180	-	-	0.0014	0.0016	0.0051	0.0054	0.0124	0.0133	0.0298	0.0299	0.0314	0.0316
200	-	-	0.0006	0.0014	0.0015	0.0051	0.0036	0.0125	0.0089	0.0299	0.0101	0.0315
224	-	-	0.0006	0.0014	0.0015	0.0051	0.0036	0.0125	0.0089	0.0090	0.0100	0.0101
250	-	-	0.0006	0.0006	0.0014	0.0015	0.0036	0.0037	0.0088	0.0089	0.0098	0.0101
280	-	-	0.0006	0.0006	0.0014	0.0015	0.0035	0.0036	0.0088	0.0088	0.0097	0.0098
315	-	-	0.0005	0.0006	0.0014	0.0015	0.0033	0.0036	0.0084	0.0088	0.0088	0.0098
355	-	-	0.0005	0.0006	0.0014	0.0015	0.0033	0.0036	0.0084	0.0084	0.0088	0.0088
400	-	-	-	0.0005	-	0.0014	-	0.0034	-	0.0084	-	0.0088
450	-	-	-	0.0005	-	0.0014	-	0.0033	-	-	-	-

30593506/EN – 07/2023

16.2.2 Size X220 – 320

iN	X220	X230	X240	X250	X260	X270	X280	X290	X300	X310	X320
6.3	2.3846	-	4.2003	-	-	-	-	-	-	-	-
7.1	2.3352	2.5142	4.0399	4.3368	-	-	-	-	-	-	-
8	1.8329	2.4586	2.9562	4.1735	-	-	-	-	-	-	-
9	1.8021	1.9136	2.8564	3.0412	-	-	-	-	-	-	-
10	1.2638	1.8790	2.0657	2.9396	-	-	-	-	-	-	-
11.2	1.2432	1.3179	1.9980	2.1233	-	-	-	-	-	-	-
12.5	1.1948	1.2947	2.2453	2.0544	3.8757	-	-	7.5028	-	11.5472	-
14	1.1849	1.2289	2.2039	2.2849	3.8357	3.9555	-	7.3600	7.6060	11.4683	11.7127
16	0.7466	1.2173	1.3136	2.2425	2.2711	3.8997	4.0362	4.2474	7.4750	6.3936	11.6040
18	0.7406	0.7672	1.2885	1.3375	2.2469	2.3194	3.9707	4.1610	4.3099	6.3458	6.4937
20	0.6905	0.7602	1.1614	1.3119	2.0314	2.2856	2.3682	3.7884	4.2306	5.9326	6.4279
22.4	0.6868	0.7031	1.1472	1.1749	2.0172	2.0598	2.3285	3.7361	3.8262	5.9019	5.9971
25	0.6410	0.6988	1.0902	1.1604	1.9449	2.0400	2.0886	3.5045	3.7782	5.4247	5.9548
28	0.6385	0.6494	1.0812	1.0987	1.9355	1.9634	2.0652	3.4738	3.5267	5.4047	5.4666
31.5	0.2958	0.6465	0.5989	1.0896	1.8671	1.9504	1.9822	3.3804	3.4985	5.0859	5.4391
35.5	0.2942	0.3010	0.5933	0.6042	1.8603	1.8805	1.9670	3.3591	3.3959	5.0731	5.1127
40	0.2781	0.2992	0.5634	0.5985	0.9662	1.8711	1.8941	1.8378	3.3763	2.8845	5.0951
45	0.2771	0.2816	0.5597	0.5669	0.9620	0.9745	1.8831	1.8242	1.8477	2.8765	2.9011
50	0.1920	0.2804	0.3835	0.5631	0.6511	0.9687	0.9830	1.2676	1.8352	2.0170	2.8902
56	0.1913	0.1943	0.3811	0.3859	0.6483	0.6567	0.9761	1.2585	1.2742	2.0116	2.0283
63	0.1197	0.1935	0.2498	0.3834	0.3793	0.6528	0.6624	0.7576	1.2659	1.2586	2.0209
71	0.1193	0.1211	0.2483	0.2513	0.3776	0.3827	0.6578	0.7520	0.7616	1.2553	1.2656
80	0.0872	0.1206	0.1637	0.2497	0.3156	0.3803	0.3862	0.4179	0.7565	0.8739	1.2610
90	0.0869	0.0880	0.1628	0.1645	0.3147	0.3173	0.3834	0.4146	0.4203	0.8720	0.8779
100	0.0840	0.0877	0.1593	0.1636	0.3102	0.3161	0.3191	0.3998	0.4173	0.8444	0.8753
112	0.0838	0.0845	0.1588	0.1598	0.3096	0.3113	0.3177	0.3979	0.4012	0.8431	0.8470
125	0.0822	0.0843	0.1558	0.1593	0.3056	0.3105	0.3125	0.3922	0.3994	0.8240	0.8452
140	0.0821	0.0825	0.1555	0.1562	0.3052	0.3065	0.3116	0.3909	0.3932	0.8232	0.8256
160	0.0780	0.0824	0.1479	0.1558	0.2865	0.3059	0.3073	0.3644	0.3920	0.7686	0.8245
180	0.0779	0.0782	0.1477	0.1482	0.2863	0.2871	0.3066	0.3635	0.3651	0.7681	0.7697
200	0.0222	0.0782	0.0402	0.1479	0.0778	0.2867	0.2876	0.1293	0.3642	0.2683	0.7690
224	0.0222	0.0223	0.0400	0.0403	0.0777	0.0781	0.2872	0.1288	0.1297	0.2680	0.2690
250	0.0217	0.0223	0.0393	0.0402	0.0766	0.0779	0.0784	0.1273	0.1292	0.2631	0.2685
280	0.0217	0.0218	0.0392	0.0394	0.0765	0.0768	0.0782	0.1270	0.1276	0.2629	0.2635
315	0.0207	0.0218	0.0373	0.0393	0.0716	0.0767	0.0770	0.1200	0.1273	0.2490	0.2633
355	0.0207	0.0207	0.0372	0.0373	0.0715	0.0717	0.0769	0.1197	0.1201	0.2489	0.2493
400	-	0.0207	-	0.0373	-	0.0716	0.0718	-	0.1199	-	0.2491
450	-	-	-	-	-	-	0.0717	-	-	-	-

30593506/EN – 07/2023

Index

A

Accessories, abbreviations 561
Additional documentation 11
Agitator gear units 21
Agitator housing 27
Agitator housing, lubrication points 79
Oil expansion tank
  Description 81
  Dimension Sheet 516

B

Backstop
  Configuration 101
  Description 100
  Dimension Sheet 439
Base frame 107
Bearing greases 51
Breather
  Breather with filter insert /PI 109
  Desiccant breather filter /DC 111
  Dimension Sheet 520
  Standard 108
Bucket elevator gear units 20

C

Case hardening steel 63
Coating system
  OS 1 58
  OS 2 58
  OS 3 59
  OS 4 59
Condition monitoring 119
Conveyor drives 18
Cooling 86
Cooling types 39
Copyright notice 12

D

Decimal separator 12
Desiccant breather filter 111
Diagnostic unit
  DUV40A (Diagnostic Unit Vibration) 119
Directions of rotation dependencies 36
DriveRadar®
  Structure 122
Drywell sealing system 80
DUO10A diagnostic unit 117
DUV40A (Diagnostic Unit Vibration) 119

E

Exterior corrosion protection 60

F

Fan
  Axial fan Basis 88
  Structure 86
  X.F.. Radial fan Basis 86
  X.K.. Radial fan basis /FAN 87
Fixed pivoted mounting position 54
Flange coupling
  Description 99

G

Gearing 63
Grease nipple on gear unit cover 78

H

Hoist gear units 19
Hoist housing
  Housing 28
Hollow shaft gear units, gear unit mounting 71
Hollow shaft with shrink disk /..H
  Description 68
  Dimension sheet 409
Horizontal housing /HH 25
Housing design
  Agitator housing /HA 27
  Horizontal housing /HH 25
  Thermal housing /HT 27
  Universal housing /HH 26

I

IEC 102
Input shaft 64
Input speed 17
Internal corrosion protection 60

L

Limit temperature for gear unit startup 98

30593506/EN – 07/23

Lubricant
Compatibility with oil seal 46
Lubricant selection
Definition 41
Lubricant table
Definition 43
Lubricating greases 51
Lubrication points 78

M

Motor adapter
Description 102
IEC dimension sheet 463
NEMA dimension sheet 488
Mounting flange
Description 73
Dimension sheet B14 435
Dimension sheet B5 437
Mounting position
Definition 29
Mounting positions
Deviating mounting positions 32
Mounting surface 33

N

Nameplate 22
NEMA 102
Noise level 63
NTB 114
NTB temperature switch 114
Dimensions 114
Electrical connection 114
Technical data 115

O

OH 95
Oil aging, diagnostics 117
Oil dipstick 85
Dimension Sheet 520
Oil drain plug 85
Oil drain valve 85
Dimension Sheet 520, 525
Oil heater
Connected load 97
Description 95
Dimension Sheet 429
Function 96
Limit temperature for gear unit startup 98
Structure 95
Oil level glass 85
Dimension Sheet 520
Oil seal
Lubricant compatibility 46
Oil selection
Information 41
Mineral oil 41
Synthetic oil 42
Oil-water cooler for splash lubrication
Cooling medium 90
Optional input shaft ends
Description 64
Dimension Sheet 406
Options 270
Output shaft 64
Output shaft as a hollow shaft with keyway /..A
Dimension Sheet 408
Output shaft as a solid shaft with key /..S
Description 65
Output shaft as hollow shaft with keyway /..A
Description 67

P

Packaging 60
Pivoted mounting position 53
Pressure switch
Description 112
Dimensions 112
Electrical connection 112
Technical data 112
Product names 12
Project planning 123
PT100 113
PT100 temperature sensor
Dimensions 113
Electrical connection 113
Technical data 113

R

Reversible gear units 52

S

Sealing grease 51

30593506/EN – 07/23

Shaft end pump
Dimension Sheet ... 428
Installation position ... 83
Structure ... 82
Shaft position ... 34
Smooth output shaft /..R
Description ... 65
Dimension Sheet ... 414
Splined hollow shaft /..V
Description ... 69
Dimension Sheet ... 410
Splined solid shaft /..L
Description ... 66
Splined solid shaft /..L
Dimension Sheet ... 412
Storage conditions ... 61
Swing base ... 105

T

Temperature sensor PT100 ... 113
Thermal housing ... 27
Thermal rating ... 63
TorqLOC® hollow shaft mounting system ... 70, 415
Torque arm
Description ... 72
Dimension Sheet ... 433
Torques ... 17
Trademarks ... 12
TSK temperature switch ... 115
Dimensions ... 115
Electrical connection ... 116
Technical data ... 116
Type designation of the gear unit ... 24
Types of lubrication ... 39

U

Universal housing /HU ... 26

V

Variable pivoted mounting position ... 55
V-belt drives
Description ... 105
Dimension Sheet ... 447
Visual oil level check ... 85

W

Water cooling cartridge
Description ... 91
Dimension Sheet ... 429, 431
Requirements on the water quality ... 92
Types of cooling water ... 94
Water cooling cover
Connection ... 89
Description ... 89
Dimension Sheet ... 429, 431

30593506/EN – 07/23

17 Abbreviation key

α	Application angle of the radial load	°
f_1	Altitude factor (= correction factor for calculation of the thermal rating of the gear unit)	-
F_A	Axial load	kN
F_F	Peak load factor	-
F_R	Overhung load	N
F_{R1}	Overhung load on HSS (Distance from the shaft shoulder must be given)	kN
F_{R2}	Overhung load on LSS (Distance from the shaft shoulder must be given)	kN
F_S	Service factor = M_{N2} / M_{K2} = P_{N1} / P_{K1}	-
$F_{S\ min}$	Application-specific service factor	-
F_{start}	Startup factor	-
f_z	Transmission element factor	-
η	Efficiency	-
H	Installation altitude above sea level	m
HSS	High-speed gear unit shaft (usually input shaft)	-
i	Gear ratio	-
i_{ex}	Exact gear unit ratio	-
i_N	Nominal gear unit ratio	-
LSS	Low-speed gear unit shaft (usually output shaft)	-
$L_{h\ min}$	Required bearing service life	h
M_{K1}	Input torque (= operating torque on HSS)	kNm
$M_{K1\ max}$	Peak input torque (= peak operating torque on HSS)	kNm
M_{K2}	Output torque (= operating torque on LSS)	kNm
$M_{K2\ max}$	Peak output torque (= peak operating torque on LSS)	kNm
$M_{K2\ per}$	Permitted peak output torque	kNm
M_M	Nominal motor torque	kNm
M_{N2}	Nominal gear unit torque	kNm
n_1	Input speed (HSS)	min^{-1}
n_2	Output speed (LSS)	min^{-1}
n_M	Motor speed	min^{-1}
P_{K1}	Operating power on HSS	kW
$P_{K1\ max}$	Peak operating power on HSS	kW
$P_{K1\ per}$	Permitted peak operating power on HSS	kW
P_{K2}	Operating power on LSS	kW
P_M	Nominal motor power	kW
P_T	Nominal gear unit power (referring to HSS)	kW
P_{TH}	Thermal rating of the gear unit at defined ambient conditions	kW

30593506/EN – 07/2023

17.1 Abbreviations for optional accessories

The table shows the abbreviations used and what they mean.

Abbreviation	Meaning
BF	Base frame
BS	Backstop
BPG	Breather
CCV	Water cooling cover
CCT	Water cooling cartridge
F	Mounting flange
FC	Flange coupling
FAN	Fan
ET	Oil expansion tank
HH	Horizontal housing
HU	Universal housing
HA	Agitator housing
HT	Thermal housing
MA	Motor adapter
SB	Swing base
SEP	Shaft end pump
T	Torque arm
OAC1	Circulation cooling oil-air cooler with motor pump
OAP1	Circulation cooling oil-air cooler with pressure lubrication and motor pump
OWC1	Circulation cooling oil-water cooler with motor pump
OW1	Circulation cooling oil-water cooler with pressure lubrication and motor pump
ONP1/ONP1L	Pressure lubrication and motor pump
OD	Oil dipstick
ODV	Oil drain valve
OLG	Oil level glass
OH	Oil heater
VBD	V-belt drives

All options are not part of the type designation except for mounting flange, torque arm, horizontal housing, and universal housing.

30593506/EN – 07/2023

18 Address directory SEW-EURODRIVE

Argentina			
Assembly Sales	Buenos Aires	SEW EURODRIVE ARGENTINA S.A. Ruta Panamericana Km 37.5, Lote 35 (B1619IEA) Centro Industrial Garín Prov. de Buenos Aires	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 http://www.sew-eurodrive.com.ar sewar@sew-eurodrive.com.ar
	Córdoba	SEW EURODRIVE ARGENTINA S.A. Ruta Nacional 19, Manzana 97, Lote 5 (X5125) Malvinas Argentinas Prov. de Córdoba	Tel. +54 351-490-0010 http://www.sew-eurodrive.com.ar sewcor@sew-eurodrive.com.ar
	Santa Fe	SEW EURODRIVE ARGENTINA S.A. Ruta Prov. 21 Km 7, Lote 41 Parque Industrial Alvear (2126) Gral. Alvear Prov. de Santa Fe	Tel. +54 341-317-7277 http://www.sew-eurodrive.com.ar sewsfe@sew-eurodrive.com.ar
Service	Mendoza	SEW EURODRIVE ARGENTINA S.A. Francisco Gabrielli (ex Urquiza) 2060-Zona Industrial- Guaymallen- CP 5521	Tel. +54 261-4214150 http://www.sew-eurodrive.com.ar sewmen@sew-eurodrive.com.ar
Technical Offices	Tucumán	SEW EURODRIVE ARGENTINA S.A. Balcarce 609 (T4000IAM) S.M. de Tucumán Prov. de Tucumán	Tel. +54 381-400-4569 http://www.sew-eurodrive.com.ar sewtuc@sew-eurodrive.com.ar
	Bahía Blanca	SEW EURODRIVE ARGENTINA S.A. O'Higgins 95, 1er Piso A (B8000IVA) Bahía Blanca Prov. de Buenos Aires	Tel. +54 291-451-7345 http://www.sew-eurodrive.com.ar sewbb@sew-eurodrive.com.ar
	Neuquén	SEW EURODRIVE ARGENTINA S.A.	Tel. +549 299 588 7950 http://www.sew-eurodrive.com.ar sewnqn@sew-eurodrive.com.ar
Australia			
Assembly Sales Service	Melbourne	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au
Sales Service	Adelaide	SEW-EURODRIVE PTY. LTD. 9C Park Way Mawson Lakes, SA 5095	Tel. +61 8 8161 4000 Fax +61 8 8161 4002 enquires@sew-eurodrive.com.au
	Brisbane	SEW-EURODRIVE PTY. LTD. 1 /34 Collinsvale St Rocklea, Queensland, 4106	Tel. +61 7 3276 5100 Fax +61 7 3276 5102 enquires@sew-eurodrive.com.au
	Perth	SEW-EURODRIVE PTY. LTD. 10 Colin Jamieson Drive Welshpool, WA 6106	Tel. +61 8 9251-4900 Fax +61 8 9251-4903 enquires@sew-eurodrive.com.au
Sales	Townsville	SEW-EURODRIVE PTY. LTD. 12 Leyland Street Garbutt, QLD 4814	Tel. +61 7 4779 4333 Fax +61 7 4779 5333 enquires@sew-eurodrive.com.au
Austria			
Assembly Sales Service	Vienna	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Straße 24 1230 Wien	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://www.sew-eurodrive.at sew@sew-eurodrive.at
Technical Offices	Linz	SEW-EURODRIVE Ges.m.b.H. Jaxstraße 2-4 4020 Linz	Tel. +43 732 655 109-0 Fax +43 732 655 109-20 tb-linz@sew-eurodrive.at
	Graz	SEW-EURODRIVE Ges.m.b.H. Hagenbuchstraße 1 8054 Seiersberg-Pirka	Tel. +43 316 685 756-0 Fax +43 316 685 756-20 tb-graz@sew-eurodrive.at
	Dornbirn	SEW-EURODRIVE Ges.m.b.H. Milleniumpark 15/B2 6890 Lustenau	Tel. +43 5577 86026-0 Fax +43 5577 86026-20 tb-dornbirn@sew-eurodrive.at

30593506/EN – 07/2023

Bangladesh			
Sales	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED 345 DIT Road East Rampura Dhaka-1219, Bangladesh	Tel. +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
Belarus			
Sales	Minsk	Foreign unitary production enterprise SEW-EURODRIVE Novodvorskij village council 145 223016, Minsk region	Tel. +375 17 319 47 56 / +375 17 378 47 58 Fax +375 17 378 47 54 http://www.sew-eurodrive.by sew@sew-eurodrive.by
Belgium			
Assembly Sales Service	Brussels	SEW-EURODRIVE n.v./s.a. Researchpark Haasrode 1060 Evenementenlaan 7 3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.be info@sew-eurodrive.be
Service Competence Center	Industrial Gears	SEW-EURODRIVE n.v./s.a. Rue du Parc Industriel, 31 6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be info@sew.be
Brazil			
Production Sales Service	São Paulo	SEW-EURODRIVE Brasil Ltda. Estrada Municipal José Rubim, 205 – Rodovia Santos Dumont Km 49 Indaiatuba – 13347-510 – SP	Tel. +55 19 3835-8000 sew@sew.com.br
Assembly Sales Service	Rio Claro	SEW-EURODRIVE Brasil Ltda. Rodovia Washington Luiz, Km 172 Condomínio Industrial Conpark Caixa Postal: 327 13501-600 – Rio Claro / SP	Tel. +55 19 3522-3100 Fax +55 19 3524-6653 montadora.rc@sew.com.br
	Joinville	SEW-EURODRIVE Brasil Ltda. Jvl / Ind Rua Dona Francisca, 12.346 – Pirabeiraba 89239-270 – Joinville / SC	Tel. +55 47 3027-6886 Fax +55 47 3027-6888 filial.sc@sew.com.br
Bulgaria			
Sales	Sofia	BEVER-DRIVE GmbH Bogdanovetz Str.1 1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg
Cameroon			
Sales	Douala	SEW-EURODRIVE SARLU Ancienne Route Bonabéri P.O. Box B.P 8674 Douala-Cameroun	Tel. +237 233 39 12 35 Fax +237 233 39 02 10 www.sew-eurodrive.ci/ info@sew-eurodrive.cm
Canada			
Assembly Sales Service	Toronto	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2001 Ch. de l'Aviation Dorval Quebec H9P 2X6	Tel. +1 514 367-1124 Fax +1 514 367-3677 n.paradis@sew-eurodrive.ca
Chile			
Assembly Sales Service	Santiago de Chile	SEW-EURODRIVE CHILE LTDA Las Encinas 1295 Parque Industrial Valle Grande LAMPA Santiago de Chile P.O. Box Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 2757 7000 Fax +56 2 2757 7001 http://www.sew-eurodrive.cl ventas@sew-eurodrive.cl

30593506/EN – 07/2023

China			
Production Assembly Sales Service	Tianjin	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 78, 13th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 http://www.sew-eurodrive.cn info@sew-eurodrive.cn
Assembly Sales Service	Suzhou	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021	Tel. +86 512 62581781 Fax +86 512 62581783 suzhou@sew-eurodrive.cn
	Guangzhou	SEW-EURODRIVE (Guangzhou) Co., Ltd. No. 9, JunDa Road East Section of GETDD Guangzhou 510530	Tel. +86 20 82267890 Fax +86 20 82267922 guangzhou@sew-eurodrive.cn
	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Development Area Shenyang, 110141	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn
	Taiyuan	SEW-EURODRIVE (Taiyuan) Co,. Ltd. No.3, HuaZhang Street, TaiYuan Economic & Technical Development Zone ShanXi, 030032	Tel. +86-351-7117520 Fax +86-351-7117522 taiyuan@sew-eurodrive.cn
	Wuhan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Xi'An	SEW-EURODRIVE (Xi'An) Co., Ltd. No. 12 Jinye 2nd Road Xi'An High-Technology Industrial Development Zone Xi'An 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn
Sales Service	Hong Kong	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 36902200 Fax +852 36902211 contact@sew-eurodrive.hk
Colombia			
Assembly Sales Service	Bogota	SEW-EURODRIVE COLOMBIA LTDA. Calle 17 No. 132-18 Interior 2 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sew@sew-eurodrive.com.co
Croatia			
Sales Service	Zagreb	KOMPEKS d. o. o. Zeleni dol 10 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr
Czech Republic			
Assembly Sales Service	Hostivice	SEW-EURODRIVE CZ s.r.o. Floriánova 2459 253 01 Hostivice	Tel. +420 255 709 601 Fax +420 235 350 613 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz
Assembly Service	Plzeň	SEW-EURODRIVE CZ s.r.o. Areal KRPA a.s. Zahradni 173/2 326 00 Plzeň	Tel. +420 378 775 320 Fax +420 377 970 710 sew@sew-eurodrive.cz
Technical Offices	Brno	SEW-EURODRIVE CZ s.r.o. Křenová 52 60200 Brno	Tel. +420 543 254 174 Fax +420 543 256 845 ilona.cermakova@sew-eurodrive.cz
	Hradec Králové	SEW-EURODRIVE CZ s.r.o. Čechova 498 50202 Hradec Králové	Tel. +420 495 510 141 Fax +420 495 521 313 miroslav.moravec@sew-eurodrive.cz
	Ostrava	SEW-EURODRIVE CZ s.r.o. Studentská 6202/17 708 00 Ostrava-Poruba	Tel. +420 597 329 044 david.kenkus@sew-eurodrive.cz

30593506/EN – 07/2023

	Klatovy	SEW-EURODRIVE CZ s.r.o. Vídeňská 841 33901 Klatovy	Tel. +420 376 331 634 Fax +420 376 331 634 viktor.kubernat@sew-eurodrive.cz
Service	Přerov	SEW-EURODRIVE CZ s.r.o. Areál STS Přerov a.s. ul. 9. května 2452 750 02 Přerov I – Město	Tel. +420 581 224 374 Fax +420 581 224 374 servis@sew-eurodrive.cz
Denmark			
Assembly Sales Service	Copenhagen	SEW-EURODRIVEA/S Geminivej 28-30 2670 Greve	Tel. +45 43 95 8500 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Service	Vejle	SEW-EURODRIVE A/S Bødkervej 2 7100 Vejle	Tel. +45 43 9585 00 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk
Egypt			
Technical Office	Cairo	SEW-EURODRIVE Representative Office in Egypt 47 Office Building, Section 1, City Centre, New Cairo Cairo	Tel. +20 2 2503 2807 Fax +20 2 2503 2801 info@sew-eurodrive.eg
Estonia			
Sales	Tallin	ALAS-KUUL AS Loomäe tee 1, Lehmja küla 75306 Rae vald Harjumaa	Tel. +372 6593230 Fax +372 6593231 http://www.alas-kuul.ee info@alas-kuul.ee
Finland			
Assembly Sales Service	Hollola	SEW-EURODRIVE OY Vesimäentie 4 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Service	Hollola	SEW-EURODRIVE OY Keskikankaantie 21 15860 Hollola	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
	Tornio	SEW-EURODRIVE Oy Lossirannankatu 5 95420 Tornio	Tel. +358 201 589 300 Fax +358 3 780 6211 http://www.sew-eurodrive.fi sew@sew.fi
Production Assembly	Karkkila	SEW Industrial Gears Oy Santasalonkatu 6, PL 8 03620 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 http://www.sew-eurodrive.fi sew@sew.fi
Technical Offices	Helsinki	SEW-EURODRIVE OY Luutnantintie 5 00410 Helsinki	Tel. +358 201 589-300 sew@sew.fi
	Oulu	SEW Industrial Gears Oy Paulaharjuntie 22 90530 Oulu	Tel. +358 201 589 300 sew@sew.fi
	Vaasa	SEW Industrial Gears Oy Asemakatu 7 65100 Vaasa	Tel. +358 201 589-300 sew@sew.fi
	Kuopio	SEW Industrial Gears Oy Leväsentie 23 70780 Kuopio	Tel. +358 201 589-300 sew@sew.fi
	Tampere	SEW Industrial Gears Oy Kampusareena Korkeakoulunkatu 7, 7.krs 33720 Tampere	Tel. +358 201 589-300 sew@sew.fi
	Kotka	SEW Industrial Gears Oy Heikinkatu 7 48100 Kotka	Tel. +358 201 589 300 sew@sew.fi

30593506/EN – 07/2023

France			
Production Sales	Haguenau	SEW USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 http://www.usocome.com sew@usocome.com
Production	Forbach	SEW USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 57604 Forbach Cedex	Tel. +33 3 87 29 38 00
	Brumath	SEW USOCOME 1 Rue de Bruxelles 67670 Mommenheim Cedex	Tel. +33 3 88 37 48 00
Assembly Sales Service	Bordeaux	SEW USOCOME Parc d'activités de Magellan 62 avenue de Magellan – B. P. 182 33607 Pessac Cedex	Tel. +33 5 57 26 39 00 dtcbordeaux@usocome.com
	Haguenau	SEW USOCOME 48-54 route de Soufflenheim B. P. 20185 67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 dtchaguenau@usocome.com
	Lyon	SEW USOCOME 75 rue Antoine Condorcet 38090 Vaulx-Milieu	Tel. +33 4 74 99 60 00 dtclyon@usocome.com
	Nantes	SEW USOCOME Parc d'activités de la forêt 4 rue des Fontenelles 44140 Le Bignon	Tel. +33 2 40 78 42 00 dtcnantes@usocome.com
	Paris	SEW USOCOME Zone industrielle 2 rue Denis Papin 77390 Verneuil l'Étang	Tel. +33 1 64 42 40 80 dtcparis@usocome.com
Gabon			
Representation: Cameroon			
Germany			
Headquarters Production Sales	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
Production / Industrial Gears	Bruchsal	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str. 10 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production / Precision Gear Units	Bruchsal	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 sew@sew-eurodrive.de
Production	Graben	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251-2970
Service Competence Center	Mechanics / Mechatronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 scc-mechanik@sew-eurodrive.de
	Electronics	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Straße 12 76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 scc-elektronik@sew-eurodrive.de
	MAXOLUTION® Factory Automation	SEW-EURODRIVE GmbH & Co KG Eisenbahnstraße 11 76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 sew@sew-eurodrive.de
Drive Technology Center	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 43 30823 Garbsen (Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 dtc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 08393 Meerane (Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-20 dtc-ost@sew-eurodrive.de

30593506/EN – 07/2023

Germany			
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim (München)	Tel. +49 89 909551-21 Fax +49 89 909551-50 dtc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 40764 Langenfeld (Düsseldorf)	Tel. +49 2173 8507-10 Fax +49 2173 8507-50 dtc-west@sew-eurodrive.de
Drive Center	Berlin	SEW-EURODRIVE GmbH & Co KG Melitta-Schiller-Straße 8 12526 Berlin	Tel. +49 306331131-30 Fax +49 306331131-36 dc-berlin@sew-eurodrive.de
	Bremen	SEW-EURODRIVE GmbH & Co KG Allerkai 4 28309 Bremen	Tel. +49 421 33918-10 Fax +49 421 33918-22 tb-bremen@sew-eurodrive.de
	Hamburg	SEW-EURODRIVE GmbH & Co KG Hasselbinnen 11 22869 Schenefeld	Tel. +49 40298109-60 Fax +49 40298109-70 dc-hamburg@sew-eurodrive.de
	Saarland	SEW-EURODRIVE GmbH & Co KG Gottlieb-Daimler-Straße 4 66773 Schwalbach Saar – Hülzweiler	Tel. +49 6831 48946 10 Fax +49 6831 48946 13 dc-saarland@sew-eurodrive.de
	Ulm	SEW-EURODRIVE GmbH & Co KG Dieselstraße 18 89160 Dornstadt	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 dc-ulm@sew-eurodrive.de
	Würzburg	SEW-EURODRIVE GmbH & Co KG Nürnbergerstraße 118 97076 Würzburg-Lengfeld	Tel. +49 931 27886-60 Fax +49 931 27886-66 dc-wuerzburg@sew-eurodrive.de
Drive Service Hotline / 24 Hour Service			0 800 SEWHELP 0 800 7394357
Technical Offices	Augsburg	SEW-EURODRIVE GmbH & Co KG August-Wessels-Straße 29 86156 Augsburg	Tel. +49 821 22779-10 Fax +49 821 22779-50 tb-augsburg@sew-eurodrive.de
	Lake Constance	SEW-EURODRIVE GmbH & Co KG Dornierstraße 4 88677 Markdorf	Tel. +49 7544 96590-90 Fax +49 7544 96590-99 tb-bodensee@sew-eurodrive.de
	Dortmund	SEW-EURODRIVE GmbH & Co KG Hildastraße 8 44145 Dortmund	Tel. +49 231 229028-10 Fax +49 231 229028-20 tb-dortmund@sew-eurodrive.de
	Dresden	SEW-EURODRIVE GmbH & Co KG Hauptstraße 32 01445 Radebeul	Tel. +49 351 26338-0 Fax +49 351 26338-38 tb-dresden@sew-eurodrive.de
	Erfurt	SEW-EURODRIVE GmbH & Co KG Dubliner Straße 12 99091 Erfurt	Tel. +49 361 21709-70 Fax +49 361 21709-79 tb-erfurt@sew-eurodrive.de
	Güstrow	SEW-EURODRIVE GmbH & Co KG Glasewitzer Chaussee 33 B 18273 Güstrow P.O. Box Postfach 1216 – D-18262 Güstrow	Tel. +49 3843 8557-80 Fax +49 3843 8557-88 tb-guestrow@sew-eurodrive.de
	Hamburg	SEW-EURODRIVE GmbH & Co KG Hasselbinnen 11 22869 Schenefeld	Tel. +49 40298109-60 Fax +49 40298109-70 dc-hamburg@sew-eurodrive.de
	Hannover / Garbsen	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Str.40-42 30823 Garbsen	Tel. +49 5137 8798-10 Fax +49 5137 8798-50 tb-hannover@sew-eurodrive.de
	Heilbronn	SEW-EURODRIVE GmbH & Co KG Franz-Lutz-Straße 18 74391 Erligheim	Tel. +49 7143 8738-0 Fax +49 7143 8738-25 tb-heilbronn@sew-eurodrive.de
	Herford	SEW-EURODRIVE GmbH & Co KG Goebenstraße 3 – 7 32052 Herford	Tel. +49 5221 9141-0 Fax +49 5221 9141-20 tb-herford@sew-eurodrive.de
	Karlsruhe	SEW-EURODRIVE GmbH & Co KG Ettlinger Weg 2 76467 Bietigheim P.O. Box Postfach 43 – D-76463 Bietigheim	Tel. +49 7245 9190-10 Fax +49 7245 9190-20 tb-karlsruhe@sew-eurodrive.de

30593506/EN – 07/2023

	Kassel	SEW-EURODRIVE GmbH & Co KG Sonnenweg 3 34260 Kaufungen	Tel. +49 561 95144-80 Fax +49 561 95144-90 tb-kassel@sew-eurodrive.de
	Koblenz	SEW-EURODRIVE GmbH & Co KG Carl-Benz-Straße 8 56218 Mülheim-Kärlich	Tel. +49 2630 91930-10 Fax +49 2630 91930-90 tb-koblenz@sew-eurodrive.de
	Lahr	SEW-EURODRIVE GmbH & Co KG Europastraße 3/1 77933 Lahr / Schwarzwald	Tel. +49 7821 90999-60 Fax +49 7821 90999-79 tb-lahr@sew-eurodrive.de
	Langenfeld	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 40764 Langenfeld	Tel. +49 2173 8507-10 Fax +49 2173 8507-50 tb-langenfeld@sew-eurodrive.de
	Ludwigshafen	SEW-EURODRIVE GmbH & Co KG Edisonstrasse 15 // Halle 7 68623 Lampertheim	Tel. +49 7251 75 3764 Fax +49 7251 75 503715 tb-ludwigshafen@sew-eurodrive.de
	Magdeburg	SEW-EURODRIVE GmbH & Co KG Breiteweg 53 39179 Barleben	Tel. +49 39203 7577-1 Fax +49 39203 7577-9 tb-magdeburg@sew-eurodrive.de
	Mannheim	SEW-EURODRIVE GmbH & Co KG Besselstraße 26 68219 Mannheim	Tel. +49 621 71683-10 Fax +49 621 71683-22 tb-mannheim@sew-eurodrive.de
	München	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 85551 Kirchheim	Tel. +49 89 90955-110 Fax +49 89 90955-150 tb-muenchen@sew-eurodrive.de
	Münster	SEW-EURODRIVE GmbH & Co KG Hafenplatz 4 48155 Münster	Tel. +49 251 41475-11 Fax +49 251 41475-50 tb-muenster@sew-eurodrive.de
	Nuremberg	SEW-EURODRIVE GmbH & Co KG Lina-Ammon-Straße 22 90471 Nürnberg	Tel. +49 911 98884-50 Fax +49 911 98884-60 tb-nuernberg@sew-eurodrive.de
	Regensburg	SEW-EURODRIVE GmbH & Co KG Im Gewerbepark A15 93059 Regensburg	Tel. +49 941 46668-68 Fax +49 941 46668-66 tb-regensburg@sew-eurodrive.de
	Rhine-Main	SEW-EURODRIVE GmbH & Co KG Niederstedter Weg 5 61348 Bad Homburg	Tel. +49 6172 9617-0 Fax +49 6172 9617-50 tb-rheinmain@sew-eurodrive.de
	Stuttgart	SEW-EURODRIVE GmbH & Co KG Friedrich-List-Straße 46 70771 Leinfelden-Echterdingen	Tel. +49 711 16072-0 Fax +49 711 16072-72 tb-stuttgart@sew-eurodrive.de
	Zwickau / Meerane	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg1 08393 Meerane	Tel. +49 3764 7606-0 Fax +49 3764 7606-20 tb-zwickau@sew-eurodrive.de
Great Britain			
Assembly Sales Service	Normanton	SEW-EURODRIVE Ltd. DeVilliers Way Trident Park Normanton West Yorkshire WF6 1GX	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk
Service Competence Center	Southern England	SEW-EURODRIVE Ltd. Unit 41 Easter Park Benyon Road Silchester Reading Berkshire RG7 2PQ	Tel. +44 1189 701-699 Fax +44 1189 701-021
Technical Offices	Midlands	SEW-EURODRIVE Ltd. 5 Sugar Brook court Aston Road Bromsgrove Worcs. B60 3EX	Tel. +44 1527 877-319 Fax +44 1527 575-245

30593506/EN – 07/2023

	Northern Ireland	Heyn Engineering (NI) Ltd. 1 Corry Place, Belfast, BT3 9AH	Tel. +44 02890350022 Fax +44 02890350012 http://www.heyn.co.uk info@heyn.co.uk
Drive Center	Scotland	SEW-EURODRIVE Ltd. 133-135 Deerdykes View Cumbernauld G68 9HF	Tel. +44 17 8647-8730
Greece			
Sales	Athens	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Technical Office	Thessaloniki	Christ. Boznos & Son S.A. Asklipiou 26 562 24 Evosmos, Thessaloniki	Tel. +30 2 310 7054-00 Fax +30 2 310 7055-15 info@boznos.gr
Hungary			
Sales Service	Budapest	SEW-EURODRIVE Kft. Csillaghegyí út 13. 1037 Budapest	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu
Iceland			
Sales	Reykjavik	Varma & Vélaverk ehf. Knarrarvogi 4 104 Reykjavík	Tel. +354 585 1070 Fax +354 585)1071 https://vov.is/ vov@vov.is
India			
Registered Office Assembly Sales Service	Vadodara	SEW-EURODRIVE India Private Limited 302, NOTUS IT PARK, Sarabhai Campus, Beside Notus Pride, Genda Circle, Vadodara 390023 Gujarat	Tel. +91 265 3045200 Fax +91 265 3045300 https://www.seweurodriveindia.com salesvadodara@seweurodriveindia.com
Assembly Sales Service	Chennai	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Plant: Plot No. D236/1, Chakan Industrial Area Phase- II, Warale, Tal- Khed, Pune-410501, Maharashtra	Tel. +91 21 35 628700 Fax +91 21 35 628715 salespune@seweurodriveindia.com
	Tapukara	SEW-EURODRIVE India Private Limited Plot No SP-6-46, Tapukara, Karoli Industrial Area, No. 1, district : Alwar , Rajasthan - 301707	Tel. +91 265 3045200 Fax +91 265 3045300 tapukara.plant@seweurodriveindia.com
Sales	Gurgaon	SEW-EURODRIVE India Private Limited Global Business Park, Sector -26, M.G. Road, Sikanderpur Unit No. 205, 2nd Floor, Tower – D Gurugram 122002, Haryana	Tel. +91 9958376669 salesgurgaon@seweurodriveindia.com
Technical Offices	Ahmedabad	SEW-EURODRIVE India Private Limited 306, Shaan office complex, Behind Sakar-IV, Ellisebridge, Ashram Road Ahmedabad – 380006, Gujarat	Tel. +91 79 40072067 / 68 Fax +91 79 40072069 salesahmedabad@seweurodriveindia.com
	Aurangabad	SEW-EURODRIVE India Private Limited Flat.No.403 , Prism Appt. The Venus Housing Society. Beed Bypass Road, Behind Nishant Park Hotel, Aurangabad – 431005, Maharashtra.	Tel. +91 86000 12333 salesaurangabad@seweurodriveindia.com

30593506/EN – 07/2023

Bangalore	SEW-EURODRIVE India Private Limited Sy.no:41-P3, Peenya1, Phase 1A, Peenya Village, Yeswanthapura Hobli, Bangalore North Taluk, Bangalore - 560058, Karnataka	Tel. +91 80 28370664 Fax +91 80 28370665 salesbangalore@seweurodriveindia.com
Bangalore	SEW-EURODRIVE India Private Limited # C-104, 3rd Block, KSSIDC Complex, Electronic City. Bangalore – 560100, Karnataka	Tel. +91 80 28522662 / 28522663 salesbangalore@seweurodriveindia.com
Bellary	SEW-EURODRIVE India Private Limited Door no-56/279 Ward No-15, Sindhigi compound, Near Raghavendra talkies, Bellary-583101, Karnataka	Tel. +91 77609 88668 salesbellary@seweurodriveindia.com
Chandigarh	SEW-EURODRIVE India Private Limited #5358/59, Gali No.-4, SBS Nagar, Adjoining Utsav Palace, Rupnagar - 140001 Ropar, Punjab	Tel. +91 81462 67606 saleschandigarh@seweurodriveindia.com
Chennai	SEW-EURODRIVE India Private Limited 2nd Floor, Josmans Complex, No. 5, McNichols Road, Chetpet Chennai - 600031, Tamil Nadu	Tel. +91 44 42849812 / 13 / 14 / 15 Fax +91 44 42849816 saleschennai@seweurodriveindia.com
Coimbatore	SEW-EURODRIVE India Private Limited JK Center No,55, offc No.1, I Floor Sowripalayam Pirivu Road, Opp.Kannapiran Mills Coimbatore - 641028, Tamil Nadu	Tel. +91 422 2322420 Fax +91 422 2323988 salescoimbatore@seweurodriveindia.com
Cuttack	SEW-EURODRIVE India Private Limited Sekhar Galaxy Flat No-302, 3rd Floor GGP Colony,Bhubaneswar Dist-Khordha State-Odisha-751025	Tel. +91 9937446333 salescuttack@seweurodriveindia.com
Dhaka	SEW-EURODRIVE India Private Limited ROSE DALE 653, 6Th Floor,Flat-6E Jahan Box Lane, Gabtola, Moghbazar, Ramna 1217 Bangladesh	Tel. +88 01729 097309 salesdhaka@seweurodrivebangladesh.com
Faridabad	SEW-EURODRIVE India Private Limited H.No.:-1172 ,Sector-9 , Near St Anthony School Faridabad 121006	Tel. +91 99580 09275 salesfaridabad@seweurodriveindia.com
Gandhinagar	SEW-EURODRIVE India Private Limited D-603, Vrundavan Trade Centre (VTC) Opp. Kanam Green Party Plot Kudasan Gandhinagar – 382421, Gujarat	Tel. +91 787 8601656 salesgandhinagar@seweurodriveindia.com
Secunderabad	SEW-EURODRIVE India Private Limited 408, 4th Floor, Meridian Place Green Park Road, Amerpeet Hyderabad - 500016, Telangana	Tel. +91 40 23414698 Fax +91 40 23413884 saleshyderabad@seweurodriveindia.com
Jaipur	SEW-EURODRIVE India Private Limited E-54, Roop Vihar, Near vivek vihar metro station, New sanganer Road Jaipur 302019, Rajasthan.	Tel. +91 7728896489 salesjaipur@seweurodriveindia.com
Jamshedpur	SEW-EURODRIVE India Private Limited Flat no. I/3 B.S. Tower, N.ROAD, Bistupur Jamshedpur – 831001 Jharkhand	Tel. +91 99341 23671 salesjamshedpur@seweurodriveindia.com
Kochi	SEW-EURODRIVE India Private Limited Door No: 28/2655,8B Aster Avenue,South Ponneth Road Elamkulam Cochin – 682020, Kerala	Tel. +91 98951 30375 salescochin@seweurodriveindia.com
Kolhapur	SEW-EURODRIVE India Private Limited C/O. Mr.S.V.Pawar.461/37, Abhideep Residency, Opp-Shriram Petrol Pump, Kasaba Bawada, Kolhapur - 416 122, Maharashtra	Tel. +91 86000 20846 saleskolhapur@seweurodriveindia.com

30593506/EN – 07/2023

Kolkata	SEW-EURODRIVE India Private Limited 1st Floor,Room No : 09, Chowringhee Court 55, Chowringhee Road Kolkata - 700 071, West Bengal	Tel. +91 22- 62399968 Fax +91 33 22894204 saleskolkata@seweurodriveindia.com
Lucknow	SEW-EURODRIVE India Private Limited 69, Shiv Vihar Colony Vikas Nagar – Sector 5 Lucknow - 226022, Uttar Pradesh	Tel. +91 97936 27333 saleslucknow@seweurodriveindia.com
Ludhiana	SEW-EURODRIVE India Private Limited B-31, 605/24 Street No 1, Sukhdev Nagar, Bhamian Road Focal Point Ludhiana, Pin Code - 141010, Punjab	Tel. +91 9878746730
Mumbai	SEW-EURODRIVE India Private Limited 312 A, 3rd Floor, Acme Plaza, J.B. Nagar, Andheri Kurla Road, Andheri (E) Mumbai - 400059, Maharashtra	Tel. +91 22 28348440 Fax +91 22 28217858 salesmumbai@seweurodriveindia.com
Nagpur	SEW-EURODRIVE India Private Limited Plot No 49, New Kailash Nager, Samta colony, Nagpur-440027, Maharashtra	Tel. +91 95610 89525 salesnagpur@seweurodriveindia.com
Nashik	SEW-EURODRIVE India Private Limited F Road , Mahatma Nagar Flat No 1, Plot No: 144, SHAMBHAVI Appt, Nashik – 422 007, Maharashtra	Tel. +91 96657 52978 salesnashik@seweurodriveindia.com
New Delhi	SEW-EURODRIVE India Private Limited # B-206 DLF Towers-B District Centre Jasola New Delhi -110044	Tel. +91 11 6357422406 Fax +91 11 26944467 salesdelhi@seweurodriveindia.com
Navi Mumbai	SEW-EURODRIVE India Private Limited No.202, Shivam Yeshoram Plot No. 262/257, Sector 19 Kopar Khairane, Navi Mumbai - 400 709, Maharashtra	Tel. +91 99677 21324 salesnavimumbai@seweurodriveindia.com
Pune	SEW-EURODRIVE India Private Limited Plot No. 7,"Shri Shantadurga Niwas" Shivaji Co –operative Housing Society Ltd., Behind J.W. Marriot. Off Senapati Bapat Marg. Pune –411 016, Maharashtra	Tel. +91 20 27290180 salespune@seweurodriveindia.com
Pune	SEW-EURODRIVE India Private Limited Jai Tulajabhavani Complex. Office No:- 15 First Floor, Opp. Century Enka Company, MIDC Bhosari , Pune 411 026	Tel. +91 20-65118890 / 91 Fax +91 20 25380721 salespune@seweurodriveindia.com
Raipur	SEW-EURODRIVE India Private Limited Shop No. 204, 2nd Floor, Lalganga Business Park, Pachpedi Naka, NH -43 Dhamtari Road, Raipur 492 001 - Chhattisgarh	Tel. +91 771 4090765 Fax +91 771 4090765 salesraipur@seweurodriveindia.com
Rajkot	SEW-EURODRIVE India Private Limited Block No:64, Ajanta Park, Sadhu Vaswani Marg, University Road Rajkot 360005 - Gujarat	Tel. +91 8511149383 Fax +91 8511149383
Tiruchirappalli	SEW-EURODRIVE India Pvt.Ltd. V.S.Residency, 2nd floor, Flat no B-3 Elango Adigal street, Anna nagar, Near Thillai nagar, Thenur, 620017 Tamil Nadu	Tel. +91 97899 79855 salestrichy@seweurodriveindia.com
Vadodara	SEW-EURODRIVE India Private Limited Unit No. 301, Savorite Bldg, Plot No. 143, Vinayak Society, off old Padra Road, Vadodara - 390 007, Gujarat	Tel. +91 265 2325258 / 6560482 salesvadodara@seweurodriveindia.com
Vellore	SEW-EURODRIVE India Private Limited 23/2, 3rd Main road, Vani Vidyalaya School Road, Bharathi Nagar Extension, Katpadi Vellore - 632007, Tamilnadu	Tel. +91 96000 02247 salesvellore@seweurodriveindia.com

30593506/EN – 07/2023

Indonesia			
Registered Office Sales Service	Jakarta	PT SEW EURODRIVE INDONESIA Palma Tower, 16th Floor, Unit H & I, Jl R.A. Kartini II-S Kav 06 Pondok Pinang, Kebayoran Lama Jakarta Selatan 12310	Tel. +62 21 7593 0272 Fax +62 21 7593 0273 sales.indonesia@sew-eurodrive.com https://www.sew-eurodrive.com.sg
Sales	Medan	PT. Serumpun Indah Lestari Jl.Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com http://www.serumpunindah.com
	Jakarta	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel. +62 21 65310599 Fax +62 21 65310600 csajkt@cbn.net.id
	Jakarta	PT. Agrindo Putra Lestari JL.Pantai Indah Selatan, Komplek Sentra Industri Terpadu, Pantai indah Kapuk Tahap III, Blok E No. 27 Jakarta 14470	Tel. +62 21 2921-8899 Fax +62 21 2921-8988 aplindo@indosat.net.id http://www.aplindo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60111	Tel. +62 31 5990128 Fax +62 31 5962666 sales@triagri.co.id http://www.triagri.co.id
	Surabaya	CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel. +62 31 5458589 Fax +62 31 5317220 sianhwa@sby.centrin.net.id http://www.cvmultimas.com
Ireland			
Sales Service	Dublin	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 http://www.alperton.ie info@alperton.ie
Israel			
Sales	Tel Aviv	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il
Italy			
Assembly Sales Service	Milan	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Via Bernini,12 20033 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 980 999 http://www.sew-eurodrive.it milano@sew-eurodrive.it
Drive Technology Center	Caserta	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Strada Consortile, Zona Industriale ASI 81032 Carinaro (Caserta)	Tel. +39 0823 219011 Fax +39 02 96 980 599 caserta@sew-eurodrive.it
Drive Center	Bologna	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Via della Grafica, 47 40064 Ozzano dell'Emilia (Bo)	Tel. +39 051 65-23-801 Fax +39 02 96 980 499 bologna@sew-eurodrive.it
	Pescara	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Viale Europa,132 65010 Villa Raspa di Spoltore (PE)	Tel. +39 085 41-59-427 Fax +39 02 96 980 699 pescara@sew-eurodrive.it
	Turin	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Filiale Torino c.so Unione Sovietica 612/15 - int. C 10135 Torino	Tel. +39 011 3473780 Fax +39 02 96 980 799 torino@sew-eurodrive.it
	Verona	SEW-EURODRIVE S.a.s. di SEW S.r.l. & Co. Via Antonio Meucci, 5 37042 - Caldiero (VR)	Tel. +39 045 89-239-11 Fax +39 02 96 980 814 verona@sew-eurodrive.it

30593506/EN – 07/2023

Ivory Coast			
Sales	Abidjan	SEW-EURODRIVE SARL Ivory Coast Rue des Pêcheurs, Zone 3 26 BP 916 Abidjan 26	Tel. +225 27 21 21 81 05 Fax +225 27 21 25 30 47 info@sew-eurodrive.ci http://www.sew-eurodrive.ci
Japan			
Assembly Sales Service	Iwata	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373814 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Technical Offices	Kyoto	SEW-EURODRIVE JAPAN CO., LTD Kyoto Operation Center 9-1-11 Seikadai, Seika-cho, Souraku-gun, Kyoto 619-0238	Tel. +81 774 98-2750 Fax +81 774 93-2100 kyoto@sew-eurodrive.co.jp
	Tokio	SEW-EURODRIVE JAPAN CO., LTD Renai Partire Shiodome 5th floor 2-18-3 Higashi-Shinbashi, Minato-Ku, Tokyo 105-0021	Tel. +81 3 5408-0521 Fax +81 3 5408-7550 tokyo@sew-eurodrive.co.jp
	Nagoya	SEW-EURODRIVE JAPAN CO., LTD Nagoya Toho building, 1-2-7, Sakae, Naka-ku Nagoya 460-0008, Aichi	Tel. +81 52-228-8608 Fax +81 52-203-2820 nagoya@sew-eurodrive.co.jp
	Osaka	SEW-EURODRIVE JAPAN CO., LTD Higobashi Shimizu Bldg. 10th flor 1-3-7 Tosabori, Nishi-ku Osaka, 550-0001	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 osaka@sew-eurodrive.co.jp
	Fukuoka	SEW-EURODRIVE JAPAN CO., LTD 8th-floor, Imon-Hakata-Bldg.-East. 2-2-1, Sumiyoshi, Hakata-ku Fukuoka, 812-0018	Tel. +81 92 291-3600 Fax +81 92 291-3602 fukuoka@sew-eurodrive.co.jp
Kazakhstan			
Sales Service	Almaty	SEW-EURODRIVE LLP 291-291A, Tole bi street 050031, Almaty	Tel. +7 (727) 350 5156 Fax +7 (727) 350 5156 http://www.sew-eurodrive.com kazakhstan@sew-eurodrive.com
	Tashkent	Representative Office SEW-EURODRIVE Representative office in Uzbekistan 95A Amir Temur ave, office 401/3 100084 Tashkent	Tel. +998 97 134 01 99 http://www.sew-eurodrive.uz sew@sew-eurodrive.uz
	Ulaanbaatar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230, MN	Tel. +976-77109997 Fax +976-77109997 imt@imt.mn
Technical Offices	Karagandy	SEW-EURODRIVE LLP 82, Molokov Street 100004, Karagandy	Tel. +7 (7212) 955 956 Fax +7 (7212) 955 956 karagandy@sew-eurodrive.com
	Oskemen	SEW-EURODRIVE LLP Gorkiy str. 21, office 200 B 070000, Ust-Kamenogorsk	Tel. +7 (723) 291 37 48 (ext 760) Fax +7 (727) 350 5156 (ext 709) ust-Kamenogorsk@sew-eurodrive.com
	Aktobe	SEW-EURODRIVE LLP 52/1 Marat Ospanov str., office 11 030000, Aktobe	Tel. +7 (771) 993 0915 aktobe@sew-eurodrive.com
	Pavlodar	SEW-EURODRIVE LLP 6/2, Lunacharsky str., office 46 140000, Pavlodar	Tel. +7 (771) 993 09 16 pavlodar@sew-eurodrive.com
Latvia			
Sales	Riga	SIA Alas-Kuul Katlakalna 11C 1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.lv info@alas-kuul.com

30593506/EN – 07/2023

Lebanon			
Sales (Lebanon)	Beirut	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Sales (Jordan, Kuwait , Saudi Arabia, Syria)	Beirut	Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 http://www.medrives.com info@medrives.com
Lithuania			
Sales	Alytus	UAB Irseva Statybininku 106C 63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 http://www.irseva.lt irmantas@irseva.lt
Luxembourg			
Representation: Belgium			
Macedonia			
Sales	Skopje	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk
Malaysia			
Assembly Sales Service	Johor	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my
Technical Offices	Kuala Lumpur	SEW-EURODRIVE SDN BHD No. 2, Jalan Anggerik Mokara 31/46 Kota Kemuning Seksyen 31 40460 Shah Alam Selangor Darul Ehsan West Malaysia	Tel. +60 3 51229633 Fax +60 3 51229622 sewsa@sew-eurodrive.com.my
	Penang	SEW-EURODRIVE SDN BHD No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang West Malaysia	Tel. +60 4 3999349 Fax +60 4 3999348 sewpg@sew-eurodrive.com.my
	Kuching	SEW-EURODRIVE SDN BHD No. 69, Lot 10899 1st Floor, Jalan Tun Jugah 93350 Kuching Sarawak East Malaysia	Tel. +60 82 572780 Fax +60 82 571780 sewswk@sew-eurodrive.com.my
	Kota Kinabalu	SEW-EURODRIVE SDN BHD East Malaysia	Tel. +60 19 7539395 sales@sew-eurodrive.com.my
	Ipoh	SEW-EURODRIVE SDN BHD West Malaysia	Tel. +60 19 7177366 sewsa@sew-eurodrive.com.my
Mexico			
Assembly Sales Service	Quéretaro	SEW-EURODRIVE MEXICO S.A. de C.V. SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Querétaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Sales Service	Puebla	SEW-EURODRIVE MEXICO S.A. de C.V. Calzada Zavaleta No. 3922 Piso 2 Local 6 Col. Santa Cruz Buenavista C.P. 72154 Puebla, México	Tel. +52 (222) 221 248 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx
Mongolia			
Technical Office	Ulaanbaatar	IM Trading LLC Olympic street 28B/3 Sukhbaatar district, Ulaanbaatar 14230, MN	Tel. +976-77109997 Tel. +976-99070395 Fax +976-77109997 http://imt.mn/ imt@imt.mn

30593506/EN – 07/2023

Morocco			
Sales Service Assembly	Bouskoura	SEW-EURODRIVE Morocco SARL Parc Industriel CFCIM, Lot. 55/59 27182 Bouskoura Grand Casablanca	Tel. +212 522 88 85 00 Fax +212 522 88 84 50 http://www.sew-eurodrive.ma sew@sew-eurodrive.ma
Namibia			
Sales	Swakopmund	DB MINING & INDUSTRIAL SUPPLIES CC Einstein Street Strauss Industrial Park Unit1 Swakopmund	Tel. +264 64 462 738 Fax +264 64 462 734 anton@dbminingnam.com
Netherlands			
Assembly Sales Service	Rotterdam	SEW-EURODRIVE B.V. Industrieweg 175 3044 AS Rotterdam Postbus 10085 3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl
New Zealand			
Assembly Sales Service	Auckland	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 30 Lodestar Avenue, Wigram Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Technical Office	Palmerston North	SEW-EURODRIVE NEW ZEALAND LTD. C/-Grant Shearman, RD 5, Aronui Road Palmerston North	Tel. +64 6 355-2165 Fax +64 6 355-2316 sales@sew-eurodrive.co.nz
Nigeria			
Sales	Lagos	Greenpeg Nig. Ltd 64C Toyin Street Opebi-Allen Ikeja Lagos-Nigeria	Tel. +234-701-821-9200-1 http://www.greenpegltd.com sales@greenpegltd.com
Norway			
Assembly Sales Service	Moss	SEW-EURODRIVE A/S Hornebergvegen 11 B 7038 Trondheim	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no
Pakistan			
Sales	Karachi	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Commercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk
Paraguay			
Sales	Fernando de la Mora	SEW-EURODRIVE PARAGUAY S.R.L Nu Guazu No. 642 casi Campo Esperanza Santisima Trinidad Asuncion	Tel. +595 991 519695 Fax +595 21 3285539 sewpy@sew-eurodrive.com.py
Peru			
Assembly Sales Service	Lima	SEW EURODRIVE DEL PERU S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe
Philippines			
Sales	Makati	P.T. Cerna Corporation 4137 Ponte St., Brgy. Sta. Cruz Makati City 1205	Tel. +63 2 519 6214 Fax +63 2 890 2802 mech_drive_sys@ptcerna.com http://www.ptcerna.com

30593506/EN – 07/2023

Poland			
Assembly Sales Service	Łódź	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 92-518 Łódź	Tel. +48 42 293 00 00 Fax +48 42 293 00 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 293 0030 Fax +48 42 293 0043	24 Hour Service Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Technical Offices	Tychy	SEW-EURODRIVE Polska Sp.z.o.o. ul. Strzelecka 66 43-109 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648 tychy@sew-eurodrive.pl
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 85-766 Bydgoszcz	Tel.+48 52 567 30 00 Fax +48 52 567 30 09 bydgoszcz@sew-eurodrive.pl
	Gdansk	SEW-EURODRIVE Polska Sp.z.o.o. ul. Galaktyczna 30A 80-299 Gdańsk	Tel. +48 58 762 70 00 Fax +48 58 762 70 09
	Posen	SEW-EURODRIVE Polska Sp.z.o.o. ul. Wschodnia 7B 62-080 Swadzim k. Poznania	Tel. +48 61 6465500 Fax +48 61 6465519
	Radom	SEW-EURODRIVE Polska Sp.z.o.o. ul. Wrocławska 10, biuro nr 7 26-600 Radom	Tel. +48 48 679 47 00 Fax +48 48 679 47 09 radom@sew-eurodrive.pl
	Rzeszów	SEW-EURODRIVE Polska Sp.z.o.o. ul. Armii Krajowej 80 35-307 Rzeszów	Tel. +48 17 784 27 00 Fax +48 17 784 27 09 rzeszow@sew-eurodrive.pl
Portugal			
Assembly Sales Service	Coimbra	SEW-EURODRIVE, LDA. Av. da Fonte Nova, n.º 86 3050-379 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Service Competence Center	Lisbon	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I 2660-533 São Julião do Tojal	Tel. +351 21 958-0198 / +351 939 598 717 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
Technical Office	Porto	SEW-EURODRIVE, LDA. Rua Monte da Bela, N.º 191, Fração X 4445-294 Ermesinde	Tel. +351 229 350 383 / +351 932 559 110 Fax +351 229 350 384 esc.porto@sew-eurodrive.pt
Romania			
Sales Service	Bucharest	Sialco Trading SRL str. Brazilia nr. 36 011783 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 http://www.sialco.ro sialco@sialco.ro
Zambia			
Representation: South Africa			
Senegal			
Sales	Dakar	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 http://www.senemeca.com senemeca@senemeca.sn
Serbia			
Sales	Belgrade	DIPAR d.o.o. Ustanicka 128a PC Košum, IV floor 11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs
Singapore			
Assembly Sales Service	Singapore	SEW-EURODRIVE PTE. LTD. 9, Tuas Drive 2 Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com

30593506/EN – 07/2023

Slovakia			
Sales	Bernolákovo	SEW-Eurodrive SK s.r.o. Priemyselná ulica 6267/7 900 27 Bernolákovo	Tel.+421 2 48 212 800 http://www.sew-eurodrive.sk sew@sew-eurodrive.sk
Slovenia			
Sales Service	Celje	Pakman - Pogonska Tehnika d.o.o. UI. XIV. divizije 14 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net
South Africa			
Assembly Sales Service	Johannesburg	SEW-EURODRIVE (PROPRIETARY) LIMITED 32 O'Connor Place Eurodrive House Aeroton Johannesburg 2190 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 248-7289 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 bgriffiths@sew.co.za
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 48 Prospecton Road Isipingo Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 902 3815 Fax +27 31 902 3826 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PROPRIETARY) LIMITED 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
Technical Office	Port Elizabeth	SEW-EURODRIVE (PROPRIETARY) LIMITED 8 Ruan Access Park Old Cape Road Greenbushes 6000 Port Elizabeth	Tel. +27 41 3722246 Fax +27 41 3722247 http://www.sew.co.za fsieberhagen@sew-co-za
South Korea			
Assembly Sales Service	Ansan	SEW-EURODRIVE Korea Co., Ltd. 7, Dangjaengi-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-eurodrive.kr master.korea@sew-eurodrive.com
	Busan	SEW-EURODRIVE Korea Co., Ltd. 28, Noksansandan 262-ro 50beon-gil, Gangseo-gu, Busan, Zip 618-820	Tel. +82 51 832-0204 Fax +82 51 832-0230
Assembly Service	Siheung	SEW-EURODRIVE Korea Co., Ltd. 35, Emtibeui 26-ro 58beon-gil, Siheung-si, Gyeonggi-do	http://www.sew-eurodrive.kr
Technical Offices	Daegu	SEW-EURODRIVE Korea Co., Ltd. No.303 Sungan officetel, 1834, Dalgubeol-daero, Dalseo-gu, Daegu, Zip 704-712	Tel. +82 53 650-7111 Fax +82 53 650-7112
	Daejeon	SEW-EURODRIVE Korea Co., Ltd. No.302 Hongin officetel, 28, Daehak-ro, Yuseong-gu, Daejeon, Zip 305-710	Tel. +82 42 828-6461 Fax +82 42 828-6463
	Gwangju	SEW-EURODRIVE Korea Co., Ltd. 5fl., Hyundai B/D B, 40, Bungmun-daero, Buk-gu, Gwangju, Zip 500-855	Tel. +82 62 511-9172 Fax +82 62 511-9174

30593506/EN – 07/2023

	Seoul	SEW-EURODRIVE Korea Co., Ltd. No.1804 Ace Hiend Tower 8th, 84, Gasan digital 1-ro, Geumcheon-gu, Seoul, Zip 153-797	Tel. +82 2 862-8051 Fax +82 2 862-8199
Spain			
Assembly Sales Service	Bilbao	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 48170 Zamudio (Vizcaya)	Tel. +34 94 43184-70 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es
Technical Offices	Barcelona	SEW-EURODRIVE ESPAÑA, S.L. Avda. Francesc Macià, 60 – Planta 12, porta 3 Eix Macià – "Torre Milenium" 08208 Sabadell (Barcelona)	Tel. +34 93 7162200
	Madrid	SEW-EURODRIVE ESPAÑA, S.L. Gran Via. 48-2° A-D 28220 Majadahonda (Madrid)	Tel. +34 91 6342250
Sri Lanka			
Sales	Colombo	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981
Swaziland			
Sales	Manzini	C G Trading Co. (Pty) Ltd Simunye street Matsapha, Manzini	Tel. +268 7602 0790 Fax +268 2 518 5033 charles@cgtrading.co.sz www.cgtradingswaziland.com
Sweden			
Assembly Sales Service	Jönköping	SEW-EURODRIVE AB Gnejsvägen 6-8 553 03 Jönköping Box 3100 S-550 03 Jönköping	Tel. +46 36 34 42 00 Fax +46 36 34 42 80 http://www.sew-eurodrive.se jonkoping@sew.se
Sales	Gothemburg	SEW-EURODRIVE AB Stora Åvägen 21 436 34 Askim	Tel. +46 31 709 68 80 Fax +46 31 709 68 93 goteborg@sew.se
	Stockholm	SEW-EURODRIVE AB Björkholmsvägen 10 141 46 Huddinge	Tel. +46 8 449 86 80 Fax +46 8 449 86 93 stockholm@sew.se
	Malmö	SEW-EURODRIVE AB Borrgatan 5 211 24 Malmö	Tel. +46 40 680 64 80 Fax +46 40 680 64 93 malmo@sew.se
	Skellefteå	SEW-EURODRIVE AB Trädgårdsgatan 8 931 31 Skellefteå	Tel. +46 910 71 53 80 Fax +46 910 71 53 93 skelleftea@sew.se
Switzerland			
Assembly Sales Service	Basel	Alfred Imhof A.G. Jurastrasse 10 4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
Technical Offices	Rhaetian Switzerland	Ivan Grumelli Z.I. Moulin du choc C 1122 Romanel-sur-Morges, VD	Tel. +41 79 725 4499 Fax +41 61 417 1700
	Bern / Solothurn	Rudolf Bühler Muntersweg 5 2540 Grenchen	Tel. +41 32 652 2339 Fax +41 32 652 2331
	Central Switzerland, Aargau	Armin Pfister Stierenweid 4950 Huttwil, BE	Tel. +41 62 962 54 55 Fax +41 62 962 54 56
	Zürich, Ticino	Gian-Michele Muletta Fischerstrasse 61 8132 Egg bei Zürich	Tel. +41 44 994 81 15 Fax +41 44 994 81 16
	Lake Constance and East Switzerland	Markus Künzle Eichweg 4 9403 Goldach	Tel. +41 71 845 2808 Fax +41 71 845 2809

30593506/EN – 07/2023

Taiwan			
Sales	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Huw S. Road Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
	Nan Tou	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878 sewtwn@ms63.hinet.net http://www.tingshou.com.tw
Tanzania			
Sales	Daressalam	SEW-EURODRIVE PTY LIMITED TANZANIA Plot 52, Regent Estate PO Box 106274 Dar Es Salaam	Tel. +255 0 22 277 5780 Fax +255 0 22 277 5788 http://www.sew-eurodrive.co.tz info@sew.co.tz
Thailand			
Assembly Sales Service	Chonburi	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com https://www.sew-eurodrive.co.th
Technical Offices	Bangkok	SEW-EURODRIVE (Thailand) Ltd. 6th floor, TPS Building 1023, Phattanakarn Road Suanluang Bangkok,10250	Tel. +66 2 7178149 Fax +66 2 7178152 sewthailand@sew-eurodrive.com
	Hat Yai	SEW-EURODRIVE (Thailand) Ltd. Hadyai Country Home Condominium 59/101 Soi.17/1 Rachas-Utid Road. Hadyai, Songkhla 90110	Tel. +66 74 359441 Fax +66 74 359442 sewthailand@sew-eurodrive.com
	Khon Kaen	SEW-EURODRIVE (Thailand) Ltd. 4th Floor, Kaow-U-HA MOTOR Bldg, 359/2, Mitraphab Road. Muang District Khonkaen 40000	Tel. +66 43 225745 Fax +66 43 324871 sewthailand@sew-eurodrive.com
	Surat Thani	SEW-EURODRIVE (Thailand) Ltd. 66/58 Moo.4, Wat Pradu Muang district Surat Thani 84000	Tel. +66 80 928 9463 sewthailand@sew-eurodrive.com
Tunisia			
Sales	Tunis	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn
Turkey			
Assembly Sales Service	Kocaeli-Gebze	SEW-EURODRIVE Ana Merkez Gebze Organize Sanayi Böl. 400 Sok No. 401 41480 Gebze Kocaeli	Tel. +90 262 9991000 04 Fax +90 262 9991009 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
Technical Offices		SEW-EURODRIVE Home Ofis	Tel. +90 533 491 81 77 / +90 542 660 34 89
	Ankara	SEW-EURODRIVE Ankara Ofis 1368.Cadde Eminel İş Merkezi No: 18/68 İvedik OSB/Yenimahalle/Ankara	Tel. +90 312 385 33 90
	Bursa	SEW-EURODRIVE Bursa Ofis Beşevler Mah. Yıldırım Cd. No: 254 Karya Güçlü İş Merkezi B Blok Kat:5 No: 28 Nilüfer/Bursa	Tel. +90 224 443 45 60
	Istanbul	SEW-EURODRIVE İstanbul Ofis Yakuplu Merkez Mh. Hürriyet Bulvarı Skyport Residence No:1 D:66 Beylikdüzü/ISTANBUL	Tel. +90 212 438 41 62-63

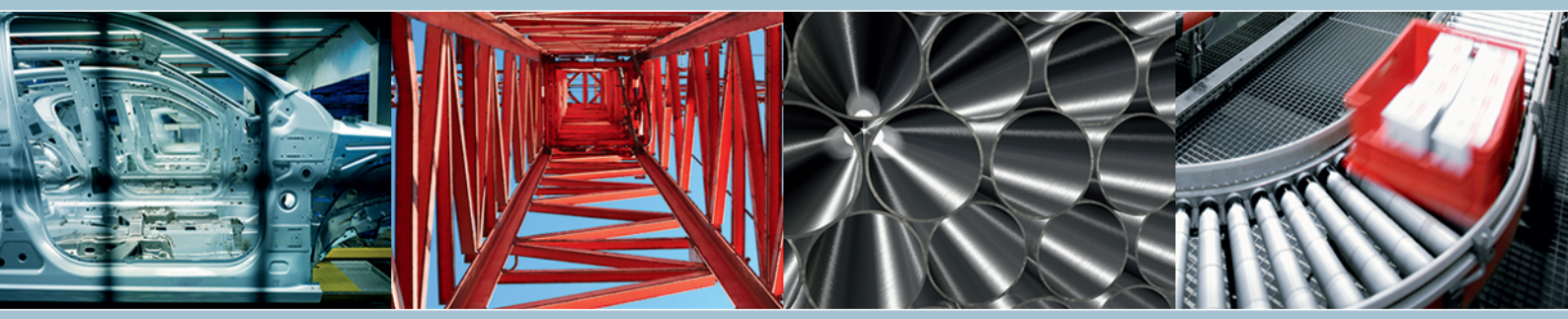
30593506/EN – 07/2023

	Izmir	SEW-EURODRIVE İzmir Ofis IAOSB Küçük Parseller Grubu Sosyal Tesis merkezi 1030 Sokak No: 16 / 110 Kara Hasan Atlı İş Merkezi Kat:6 Çiğli/İzmir	Tel. +90 232 469 62 64
United Arab Emirates			
Drive Technology Center	Dubai	SEW-EURODRIVE FZE PO Box 263835 Jebel Ali Free Zone – South, P.O. Box Dubai, United Arab Emirates	Tel. +971 (0)4 8806461 Fax +971 (0)4 8806464 info@sew-eurodrive.ae
Ukraine			
Assembly Sales Service	Dnipropetrovsk	SEW-EURODRIVE, LLC Robochya str., bld. 23-B, office 409 49008 Dnipro	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
Sales	Kiev	SEW-EURODRIVE, LLC Velyka Vasylkivska street, 77-A 03150 Kiev	Tel. +380 44 503 95 77 Fax +380 44 503 95 78 kso@sew-eurodrive.ua
	Ivano-Frankivsk	SEW-EURODRIVE, LLC Symona Petlyury Str. 27 76018 Ivano-Frankivsk	Tel. +380 342 725 190 Fax +380 342 725 191 ifso@sew-eurodrive.ua
Uruguay			
Assembly Sales	Montevideo	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esqina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-90 sewuy@sew-eurodrive.com.uy
USA			
Production Sales Service	Southeast Region	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Production +1 864 439-9948 Fax Assembly +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com
Assembly Sales Service	Northeast Region	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Midwest Region	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
	Southwest Region	SEW-EURODRIVE INC. 202 W. Danieldale Rd. DeSoto, TX 75115	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
	Wellford	SEW-EURODRIVE INC. 148/150 Finch Rd. Wellford, S.C. 29385	Tel. +1 864 439-7537 Fax +1 864 661 1167 IGOrders@seweurodrive.com
		SEW-EURODRIVE INC. 220 Finch Rd. Wellford, S.C. 29385-9630	
	Additional addresses for service provided on request!		
Vietnam			
Sales	Ho Chi Minh City	SEW-EURODRIVE PTE. LTD. RO at Hochiminh City Floor 8, KV I, Loyal building, 151-151 Bis Vo Thi Sau street, ward 6, District 3, Ho Chi Minh City, Vietnam	Tel. +84 937 299 700 huytam.phan@sew-eurodrive.com

30593506/EN – 07/2023

Vietnam			
	Hanoi	MICO LTD Quảng Trị - North Vietnam / All sectors except Construction Materials 8th Floor, Ocean Park Building, 01 Dao Duy Anh St, Ha Noi, Viet Nam	Tel. +84 4 39386666 Fax +84 4 3938 6888 nam_ph@micogroup.com.vn http://www.micogroup.com.vn

30593506/EN – 07/2023





SEW-EURODRIVE
Driving the world

SEW-EURODRIVE GmbH & Co KG
Ernst-Blickle-Str. 42
76646 BRUCHSAL
GERMANY
Tel. +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com

Climate neutral
Print product
ClimatePartner.com/53552-1902-1001