

Geared motors *with integrated frequency inverter*



G-motion motec

G-motion motec

Lenze

Lenze

No matter which drive solution you imagine, we make your dreams come true.

True to our slogan (one stop shopping) we offer you a complete programme of electronic and mechanical drive systems which is distinguished by reliability and efficiency.

The scope of our programme includes frequency inverters, servo controllers, variable-speed drives, speed reduction gearboxes, motors, brakes, clutches, decentralised I/O and operator and display units.

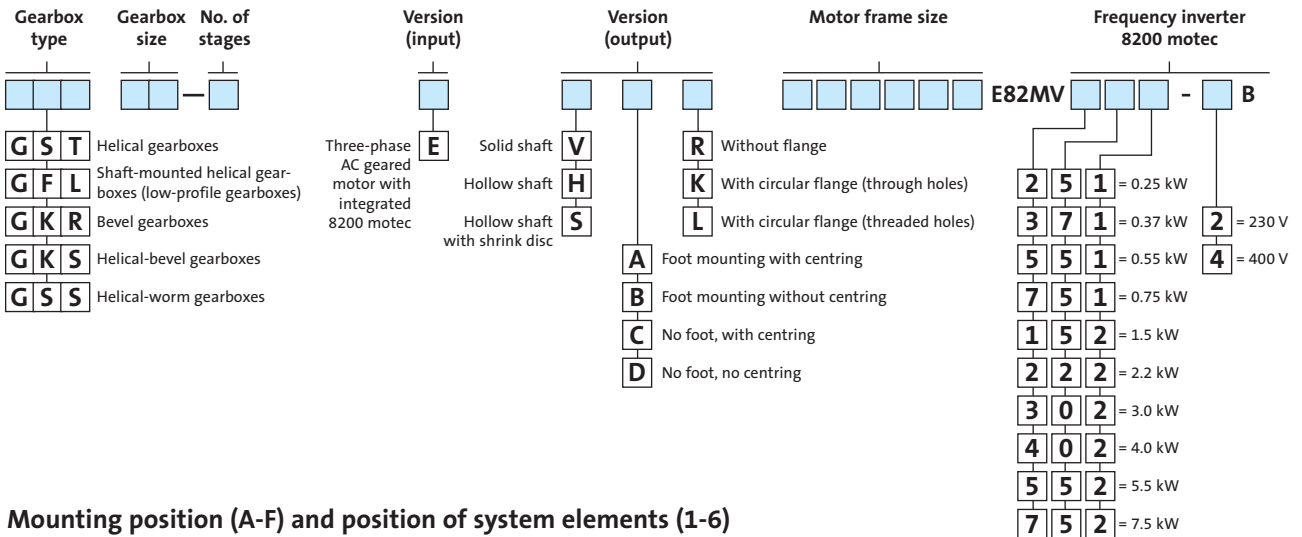


Many well-known companies use Lenze products in various applications.

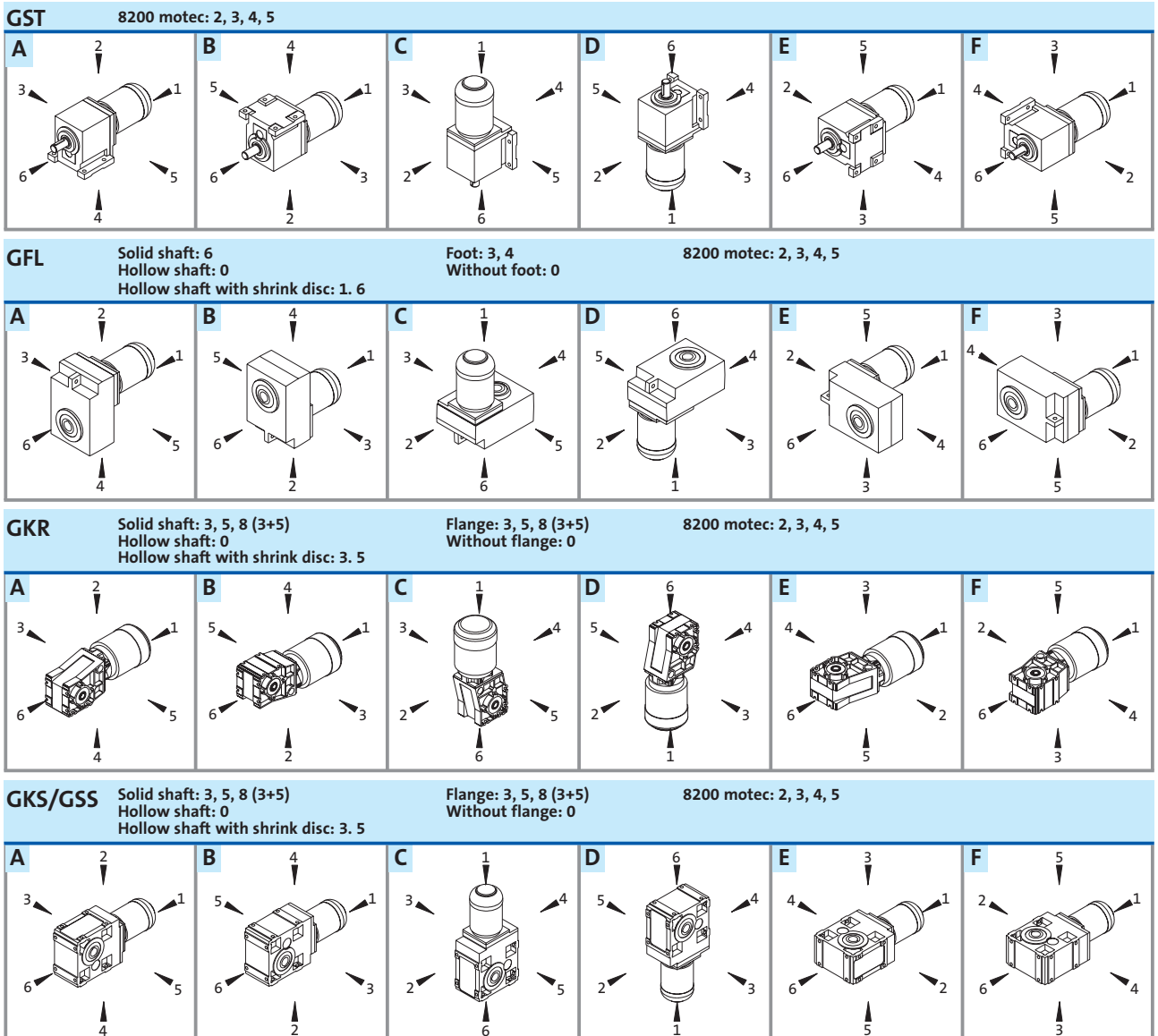
Product key

Geared motors with 8200 motec

Type designation

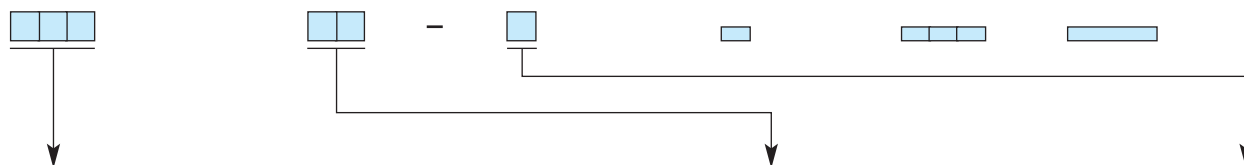



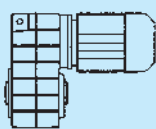
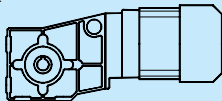
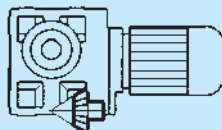
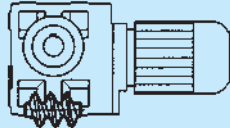
Mounting position (A-F) and position of system elements (1-6)



Product key | Geared motors with 8200 motec

Type designation



| Geared motor | Gearbox size | | | | | | | | No. of stages |
|---|--------------|----|----|----|----|----|----|----|---------------|
| | 03 | 04 | 05 | 06 | 07 | 09 | 11 | 14 | |
| GST  | | • | • | • | • | • | | | 1 |
| | • | • | • | • | • | • | • | • | 2 |
| | | | • | • | • | • | • | • | 3 |
| GFL  | | • | • | • | • | • | • | • | 2 |
| | | | • | • | • | • | • | • | 3 |
| GKR  | • | • | • | • | | | | | 2 |
| GKS  | | • | • | • | • | • | • | • | 3 |
| | | | • | • | • | • | • | • | 4 |
| GSS  | | • | • | • | • | | | | 2 |
| | | | • | • | • | | | | 3 |

Notes on ordering, example order, fax order form see chapter 1

Lenze | An introduction

Lenze is the competent partner for your application. Lenze is not only a supplier for single components but also offers solutions for complete drive systems including planning, execution and commissioning.

Furthermore, a worldwide service and distribution network lets you engage a qualified customer advisory service and an after sales service that is fast and extensive.

Our quality assurance system for design, production, sales and service is certified according to DIN ISO 9001 : 2000. Our environmental management system is also certified to DIN EN ISO 14001.

Our customers set the standards for measuring the quality of our products. Our task is to meet your requirements, since customer orientation is a Lenze principle demanding the best quality.

See for yourself.



A worldwide service –
Our team of experts provides reliable and
professional assistance.

A true system | Drive and automation technology

Products which are setting the pace in terms of technology and complete drive solutions for machine and system production - just what Lenze is all about. We provide our customers with frequency and servo inverters with powers up to 400 kW. We support both central control cabinet solutions and decentralised drive concepts, e.g. with motor inverters with IP65 type of protection.

Both standard three-phase AC motors and synchronous and asynchronous servo motors are available to complement the various controllers, all of which can be combined with various types of gearboxes. Human Machine Interfaces, decentralised I/O systems and modules for fieldbus interfacing are also available for exchanging information.

Lenze boasts extensive application know-how in all manner of industries. This knowledge has been applied in the design of the controller and PC software, providing an efficient means of implementing numerous standard applications using simple parameter settings.

An all-round service comprising component selection advice, training, commissioning support and even a helpline which can be accessed all over the world and independent system engineering completes the offer.



9300 servo inverter



ECS servo system for multi-axis application



Communication modules



9300 vector frequency inverter



8200 vector frequency inverter



8200 motec motor inverter



starttec motor starter



PC software



Software packages



Servo motors



Small drives



Brakes and clutches



Geared motors | The range

A proven and versatile range of geared motors in all popular types of gearbox: G-motion

The G-motion range of geared motors, which are supplied with a wide range of functions as standard, can now be complemented with motor and output options giving users wide-ranging possibilities.

Gearbox types

The gearboxes are available as:

- ▶ Helical gearboxes
- ▶ Shaft-mounted helical gearboxes
- ▶ Bevel gearboxes
- ▶ Helical-bevel gearboxes
- ▶ Helical-worm gearboxes
- ▶ Servo planetary gearboxes

Speeds

A wide ratio range and precise spacing of the gearbox ratios enable the actual drive to be matched closely to the process parameters required.

Integrated three-phase AC motors

- ▶ 4-pole 0.06 to 45 kW
- ▶ 2-pole 0.28 to 9.2 kW
- ▶ 6-pole 0.18 to 0.55 kW
- ▶ Synchronous servo motors 0.25 to 10 kW
- ▶ Asynchronous servo motors 0.8 to 20.3 kW

G-motion const / G-motion atex

Geared motors and gearboxes with constant output speeds

- ▶ Power range 0.06 to 45 kW
- ▶ Torque range ≤ 12000 Nm



G-motion motec

Geared motors with built-in 8200 motec frequency inverter

- ▶ Power range 0.12 to 7.5 kW
- ▶ Torque range ≤ 12000 Nm



G-motion servo MC/MD

Geared motors with dynamics

- ▶ Power range 0.25 to 20.3 kW
- ▶ Torque range ≤ 12000 Nm

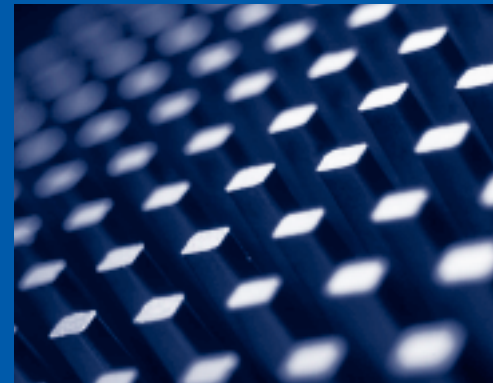
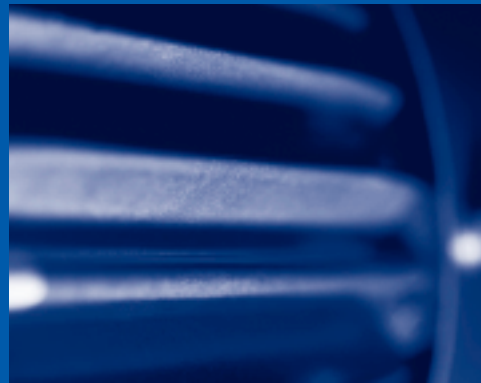
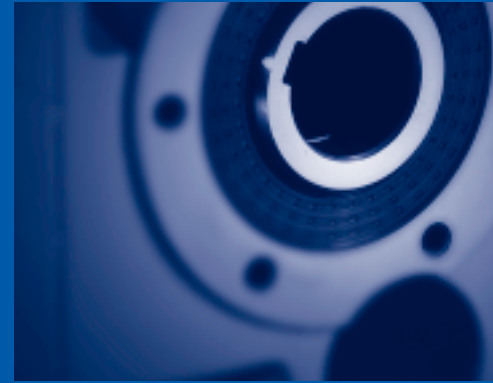
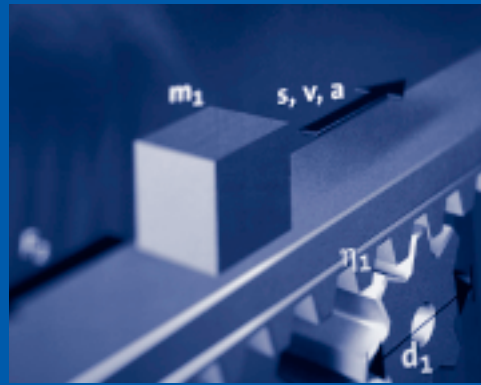


G-motion m-var

Geared motors with mechanical speed control

- ▶ Power range 0.25 to 45 kW
- ▶ Torque range ≤ 12000 Nm





Contents | G-motion motec

Product key, mounting positions _____ Front inside cover

General _____ 1-1 **1**

Drive dimensioning _____ 2-1 **2**

Helical gearboxes _____ 3-1 **3**

Shaft-mounted helical gearboxes (low-profile gearboxes) _____ 4-1 **4**

Bevel gearboxes _____ 5-1 **5**

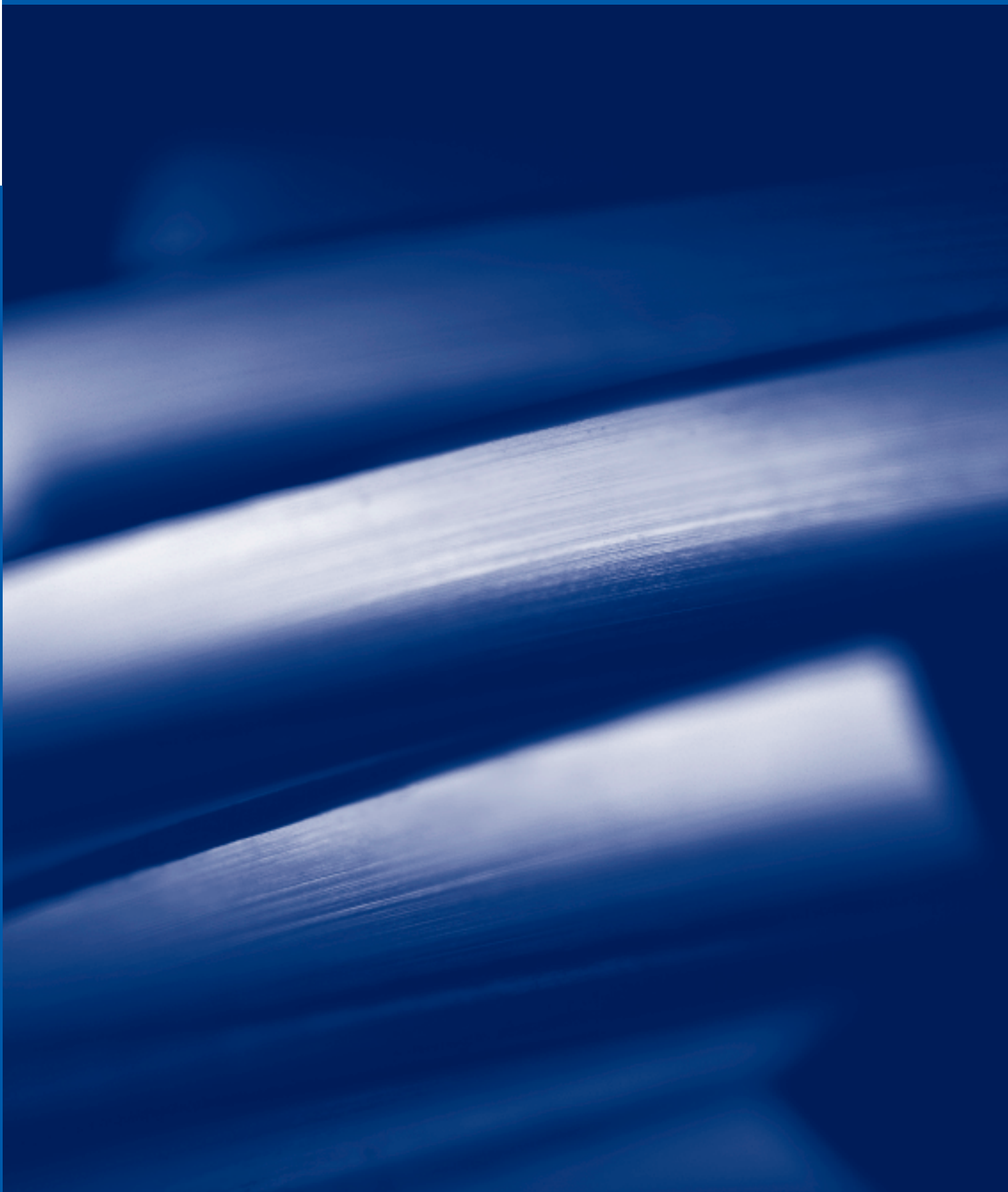
Helical-bevel gearboxes _____ 6-1 **6**

Helical-worm gearboxes _____ 7-1 **7**

Motors _____ 8-1 **8**

8200 motec _____ 9-1 **9**

Lenze worldwide _____ 10-1 **10**

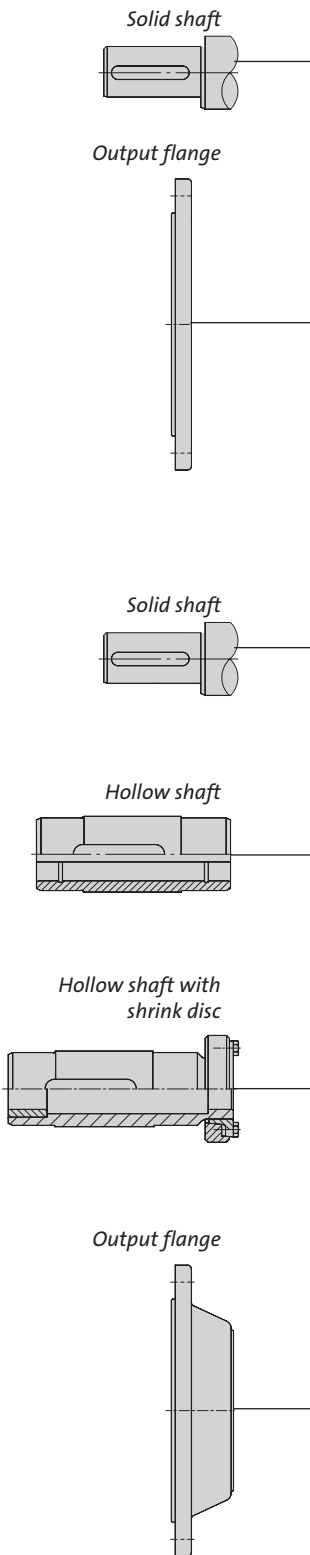


General | G-motion motec

| | |
|------------------------------|------|
| Overview | 1-2 |
| Product information | 1-4 |
| List of abbreviations | 1-5 |
| Definitions | 1-6 |
| Ordering data | 1-7 |
| Ordering example | 1-8 |
| Fax orders | 1-10 |

Geared motors with built-in frequency inverter for variable output speeds and extensive functions. Numerous gearbox variations and motor options.

1



Helical geared motor GST
0.12 to 7.5 kW
Parallel-axial solid shaft geared motors with foot and flange mounting. As on all other models, the optimised tooth geometry ensures that the gearboxes run particularly smoothly.



Shaft-mounted helical geared motor (low-profile geared motor) GFL
0.12 to 7.5 kW
Recommended for use as shaft-mounted geared motor with hollow shaft. Play-free connections and high teeth quality minimise backlash.



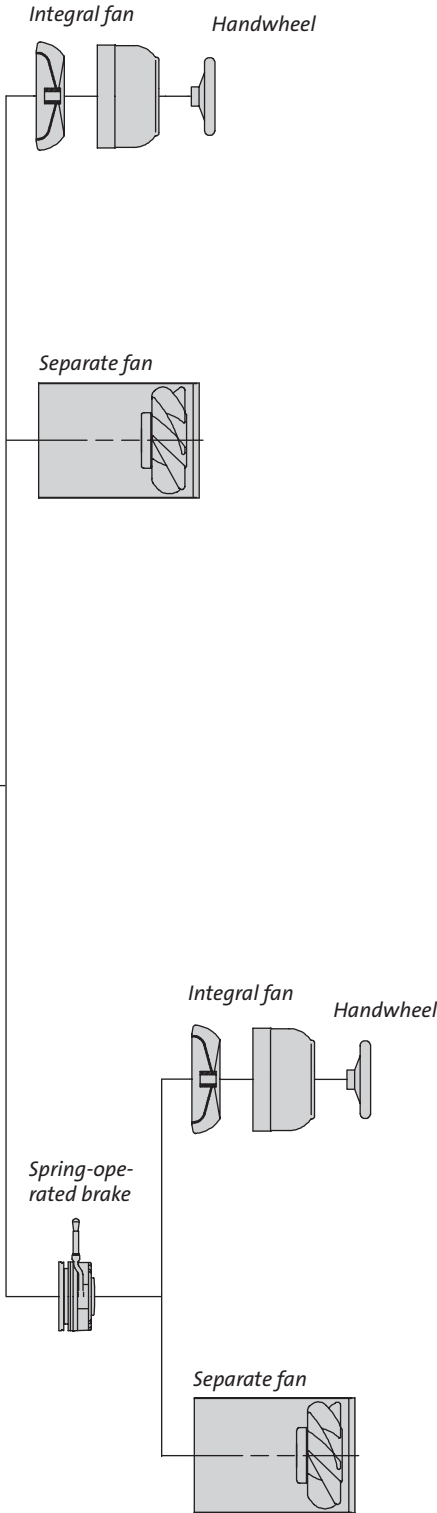
Bevel geared motor GKR
0.12 to 5.5 kW
High-efficiency solid shaft or hollow shaft right-angle geared motors. Precise output speeds thanks to bevel gears in the range $i=3.5$ to 75.



Helical-bevel geared motor GKS
0.12 to 7.5 kW
Solid shaft or hollow shaft right-angle geared motors. Pinpoint output speeds are possible due to the ratio range (5 to 1400), which has been carefully stepped.



Helical-worm geared motor GSS
0.12 to 7.5 kW
High power density right-angle geared motors. These motors can easily be integrated into the machine thanks to mounting surfaces on three sides of the gearbox and output pitch circle.



This *G-motion motec* catalogue contains geared motors with built-in 8200 motec frequency inverters.

- ▶ Geared motors 0.12 to 7.5 kW
- ▶ 8200 motec 0.25 to 7.5 kW

The geared motors can be chosen from comprehensive selection tables. To help you make your selection, the output speeds and output torques are listed both for the typical inverter base frequency of 50 Hz and with the inclusion of minimum and maximum output values.

The 8200 motec chapter contains additional product information about distributed drive solutions.

1

Fit for every drive task, even in distributed applications. Whether you need a solution for simple drive tasks or a drive which can meet complex function requirements, the 8200 motec range of rugged frequency inverters and the starttec motor starter, along with accessories tailored to meet relevant requirements, are bound to be able to provide you with a drive ideal for your application. Purchasing a Lenze geared motor which is pre-assembled and ready for connection will reduce the time and money you have to spend on project planning and installation. For more information about Lenze geared motors with starttec motor starters, see the G-motion const catalogue.

Complete products supplied as standard with everything you need to make operation, diagnostics and communication easy. Developed specifically for use in day-to-day operations, the product range is part of our field-proven system comprising expert advice, training, support service and much more - features that really pay off.



New in this catalogue:

▶ Motors

New 4-pole motors in the power range 2.2 ... 7.5 kW



Abbreviations used in this catalog:

| | | | | | |
|---------------------|---------------------|---|--------------|-----------------|--|
| α | | Angle of radial force | M_{cont} | [Nm] | Continuous torque |
| c | | Load capacity of gearboxes/geared motors | M_{stall} | [Nm] | Stall torque of motor |
| d_w | [mm] | Effective diameter of the transmission element | M_l | | Maximum torque factor |
| $\cos \varphi$ | | Power factor of the motor | M_{max} | [Nm] | Maximum torque |
| $\cos \varphi_{Nr}$ | | Power factor of asynchronous motors | M_{perm} | [Nm] | Permissible torque |
| F_a | [N] | Applied axial force | n_1 | [rpm] | Input speed |
| $F_{a perm}$ | [N] | Permissible axial force | n_2 | [rpm] | Output speed |
| $F_{a Tab}$ | [N] | Table value of axial force | n_r | [rpm] | Rated speed |
| f_{ch} | [kHz] | Switching frequency | n_{max} | [rpm] | Maximum speed |
| f_d | [Hz] | Field frequency | P_1 | [kW] | Input power |
| F_l | | Mass acceleration factor | P_2 | [kW] | Output power |
| f_{max} | [Hz] | Set maximum frequency | P_{DC} | [kW] | Power that can additionally be drawn from the DC bus in power-adaptive motor operation |
| f_r | [Hz] | Rated frequency | P_r | [kW] | Rated power |
| F_r | [N] | Applied radial force | P_V | [kW] | Inverter power loss |
| $F_{r Tab}$ | [N] | Table value of radial force | R | [Ω] | Resistance |
| $F_{r perm}$ | [N] | Permissible radial force | S_r | [kW] | Inverter output power |
| f_w | | Additional load factor of applied radial force | T_A | [$^{\circ}C$] | Ambient temperature during operation |
| f_{α} | | Effective direction factor of applied radial force | U_{DC} | [V] | DC-supply voltage |
| f_z | | Additional radial force factor of transmission element | $U_{DC bus}$ | [V] | DC-bus voltage |
| i | | Ratio | U_M | [V] | Output voltage |
| φ | | Ratio step | U_r | [V] | Rated voltage |
| η | | Mechanical efficiency | U_{mains} | [V] | Mains voltage |
| I_0 | [A] | Continuous standstill current | IP | | International protection code |
| I_A | [A] | Motor starting current | IEC | | International Electrotechnical Commission |
| I_{max} | [A] | Maximum output current | DIN | | Deutsches Institut für Normung |
| I_r | [A] | Rated current | VDE | | Verband deutscher Elektrotechniker |
| I_{mains} | [A] | Rated mains current | USDA | | United States Department of Agriculture |
| I_{PE} | [mA] | Leakage current | NEMA | | National Electrical Manufacturers Association |
| J_{ext} | [kgm ²] | Moment of inertia of the machine to be driven, reduced to the motor shaft | AC | | Alternating current/voltage |
| J_{load} | [kgm ²] | Moment of inertia of loaded machine | DC | | Direct current/voltage |
| J_{mot} | [kgm ²] | Moment of inertia of motor | EMC | | Electromagnetic compatibility |
| J_A | [kgm ²] | Moment of inertia of drive reduced to the input shaft | EN | | European standard |
| J_B | [kgm ²] | Moment of inertia of the brake | CE | | Communauté Européenne |
| k | | Application factor (according to DIN 3990) | IM | | International Mounting Code |
| L | [mH] | Inductance | GL | | Germanischer Lloyd |
| m | [kg] | Mass | | | |
| M_0 | [Nm] | Continuous standstill torque | | | |
| M_1 | [Nm] | Input torque | | | |
| M_2 | [Nm] | Output torque | | | |
| M_r | [Nm] | Rated torque | | | |
| M_A | [Nm] | Starting torque of motor | | | |
| M_B | [Nm] | Holding torque of brake | | | |

General information about the data provided in this catalogue

Ratings, torques and speeds

The ratings, torques and speeds specified in this catalogue are rounded values and are valid under the following conditions:

- ▶ Running time/day = 8h (100% DT)
- ▶ Duty class I at 10 switching operations/h
- ▶ Mounting positions and models in this catalogue
- ▶ Standard lubricant
- ▶ $f_{\text{mains}} = 50$ Hz constant
- ▶ $T_{\text{amb}} = 20^{\circ}\text{C}$ for gearboxes
40°C for motors (in accordance with EN 60034)
- ▶ Installation height $< = 1000$ m above mean sea level

The rated power specified for motors and geared motors applies to operating mode S1 in accordance with EN 60034.

If your operating conditions differ, the values that can be obtained may deviate from those specified.

If you are operating under extreme conditions, please contact your nearest Lenze representative.

Load capacity c of gearboxes

Parameter for the load capacity of Lenze gearboxes and geared motors.

- ▶ c is the ratio of the permissible rated torque of the gearbox to the rated torque supplied by the drive component (e.g. the built-in Lenze motor).
- ▶ The value of c must always be greater than the value of the operating factor k calculated for the application.

Application factor k (corresponding to DIN 3990)

Takes into account the influence of temporally variable loads which are actually present during the anticipated operating time of gearboxes and geared motors.

k is determined by:

- ▶ The type of load
- ▶ The load intensity
- ▶ Temporal factors

We want to be sure that you receive the correct products in good time. In order to help us to do this, please make sure you provide complete ordering data. Use the checklist below and the order information to help you.

Checklist

In order to receive the correct products in good time, please provide the following information:

- ▶ Your address and ordering data
- ▶ Our product key for the individual products in this catalogue
- ▶ Your delivery data, i.e. delivery date and delivery address

How to order

Please use this step-by-step guide and the fax form to ensure that you provide all the necessary information in the correct format. It makes ordering your tailor-made drive extremely easy:

- ▶ Make a copy of the fax order form.
See chapter 10.
- ▶ Enter the order data.
- ▶ Post or fax the form to your Lenze sales office.
A list of Lenze sales offices can be found at the end of this catalogue.

A step-by-step guide to ordering your drive

- Cross-reference
- Result

1. Dimension the drive system

- Drive dimensioning, dimensioning (chapter 2)

2. Specify the type designation

- Product key (fold-out page), selection table (chapters 3 to 7)
- Gearbox type, gearbox size, number of stages
Example: GST 07-2
- Drive design, motor frame size, 8200 motec frequency inverter
Example: E, 090C32. E82MV152_4B

3. Specify the ratio

- Selection table (chapters 3 to 7)
Example: $i = 56.250$

4. Specify the output design

- Product key (fold-out page), drive dimensioning, gearbox designs (chapter 2)
- Solid shaft, housing with foot, without flange
Example: V, B, R

5. Specify the mounting position and the position of system elements

- Product key (fold-out page)
Example: Mounting position A
8200 motec in position 2

6. Specify the colour

- Drive dimensioning, gearbox designs (chapter 2)
Example: RAL 7012 paint

7. Specify the gearbox options

- Drive dimensioning, gearbox designs (chapter 2)
Example: Gearbox with ventilation

8. Specify the motor options

- Motors (chapter 8)
Example: Separate fan 3~
- Product key (fold-out page)
Example: Separate fan terminal box in position 5

9. Specify the 8200 motec options

- 8200 motec (chapter 9)

A step-by-step guide to ordering your drive

Quantity i =

GST - ¹₂ ³ ^A ^B ^C ^D ^E ^F ^R ^K ^L

Motor frame size 8200 motec frequency inverter **B**

Complete the fax order form for the 8200 motec!

Additional ordering data

Dimensions, output K L
 Flange a2 = mm

Mounting position A B C D E F

Position of system elements 8200 motec 2 3 4 5

Colour **Standard**
 GST 03 Not painted (aluminium housing)
 GST 04...14 RAL 7012 paint (papyrus white) Grey primer

Options

Ventilation Ventilation units for size 05...07 Reservoir for size 09...14 in mounting position C

Motor options

Combination Separate fan Brake + integral fan Brake + separate fan

Separate fan 1~ 3~ 2 3 4 5

Terminal box for separate fan in position 2 3 4 5

The terminal box and 8200 motec cannot be in the same position!

8200 motec options

General

Fax order form for G-motion motec

To the Lenze sales office

Page __ of __

Order

Quotation

1

Fax no. _____

From

Customer no.

Company

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Street/PO box

Order no.

Town/Postcode

Name

Department

Date Signature

Tel. no.

Delivery address (if different)

Street:

Town/Postcode

Invoice to (if different)

Street/PO box

Town/Postcode

Requested delivery date _____

Despatch information _____

Customer no.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Order no.

Quantity i =

GKR - **2** **E** V A R H B K S Motor frame size **C** **E82MV** - **B**

8200 motec frequency inverter

Complete the fax order form for the 8200 motec!

Additional ordering data

Dimensions, output

H **S** Hollow shaft dH7 = mm **K** Flange a2 = mm

Mounting position

A **B** **C** **D** **E** **F**

Position of system elements
(mark non-fixed positions with 0)

Shaft 0 3 5 8 Flange 0 3 5 8 8200 motec 2 3 4 5

Colour

Standard paint finishes
 Not painted (aluminium housing)

Options

Special lubricant

CLP-HC 320 (synthetic) CLP-HC 220 (lubricant approved for use in the food industry)

Special paint finish

RAL Grey primer

Shaft sealing rings

Viton

Accessories

Rubber buffer set for torque plate (GKR 03/04 only) Torque plate housing foot (GKR 05/06 only)

Torque plate pitch circle Hoseproof hollow shaft cover

Shrink disc cover Mounting set for hollow shaft circlip

2nd output shaft

Motor options

Combination

Separate fan Brake + separate fan

Brake + integral fan Brake + integral fan + handwheel

Brake + integral fan + 2nd shaft end Integral fan + handwheel

Integral fan + 2nd shaft end

Separate fan

1~ 3~

Terminal box for separate fan in position 2 3 4 5

Spring-operated brake

Brake size Supply voltage V (AC/DC)

Brake option Manual release with lever in position 2 3 4 5

Low-noise design

The manual release lever and 8200 motec cannot be in the same position!

Motor protection

PTC

Additional options

Protection cover Condensation drain hole

UL approval cURus

General

Fax order form for helical-bevel geared motors with 8200 motec

Customer no.

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| | | | | | | | |
|--|--|--|--|--|--|--|--|

Order no.

Quantity i =

1

GKS - 3 4 **E** V H A R B K S

Motor frame size **C** 8200 motec frequency inverter **E82MV** - **B**

Complete the fax order form for the 8200 motec!

Additional ordering data

Dimensions, output **H** **S** Hollow shaft dH7 = mm **K** Flange a2 = mm

Mounting position **A** **B** **C** **D** **E** **F**

Position of system elements (mark non-fixed positions with 0)
 Shaft 0 3 5 8 Flange 0 3 5 8 8200 motec 2 3 4 5

Colour RAL 7012 paint (papyrus white) Grey primer

Options

Special lubricant CLP-HC 320 (synthetic) CLP-HC 220 (lubricant approved for use in the food industry)

Special paint finish RAL

Shaft sealing rings Viton

Accessories Torque plate on housing foot Shrink disc cover
 Torque plate pitch circle Hoseproof torque plate

Ventilation 2nd output shaft Mounting set for hollow shaft circlip
 Ventilation units for size 05...07 Reservoir for size 09...14 in mounting position C

Motor options

Combination Separate fan Brake + separate fan
 Brake + integral fan Brake + integral fan + handwheel
 Brake + integral fan + 2nd shaft end Integral fan + handwheel
 Integral fan + 2nd shaft end

Separate fan 1~ 3~
 2 3 4 5
 Terminal box for separate fan in position

Spring-operated brake Brake size Supply voltage V (AC/DC)
 Brake option Manual release with lever in position 2 3 4 5
 Low-noise design The manual release lever and 8200 motec cannot be in the same position!

Motor protection PTC

Additional options Protection cover Condensation drain hole
 UL approval cURus

Customer no.

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

Order no.

Quantity i =

GSS - ² ³ **E** ^V ^H ^A ^R ^B ^K ^S

Motor frame size **C**

E82MV - **B**

8200 motec frequency inverter

Complete the fax order form for the 8200 motec!

Additional ordering data

Dimensions, output

H **S** Hollow shaft dH7 = mm
 K Flange a2 = mm

Mounting position

A **B** **C** **D** **E** **F**

Position of system elements
(mark non-fixed positions with 0)

Shaft: 0 3 5 8
 Flange: 0 3 5 8
 8200 motec: 2 3 4 5

Colour

RAL 7012 paint (papyrus white)
 Grey primer

Options

Special lubricant

CLP-HC 220 (lubricant approved for use in the food industry)

Special paint finish

RAL

Shaft sealing rings

Viton

Accessories

Torque plate on housing foot
 Shrink disc cover

Torque plate pitch circle
 Hoseproof torque plate

2nd output shaft
 Mounting set for hollow shaft circlip

Ventilation

Ventilation units for size 05 ...07

Motor options

Combination

Separate fan
 Brake + separate fan

Brake + integral fan
 Brake + integral fan + handwheel

Brake + integral fan + 2nd shaft end
 Integral fan + handwheel

Integral fan + 2nd shaft end

Separate fan

1~
 3~

Terminal box for separate fan in position 2 3 4 5

Spring-operated brake

Brake size Supply voltage V (AC/DC)

Brake option Manual release with lever in position 2 3 4 5

The terminal box and 8200 motec cannot be in the same position!

The manual release lever and 8200 motec cannot be in the same position!

Motor protection

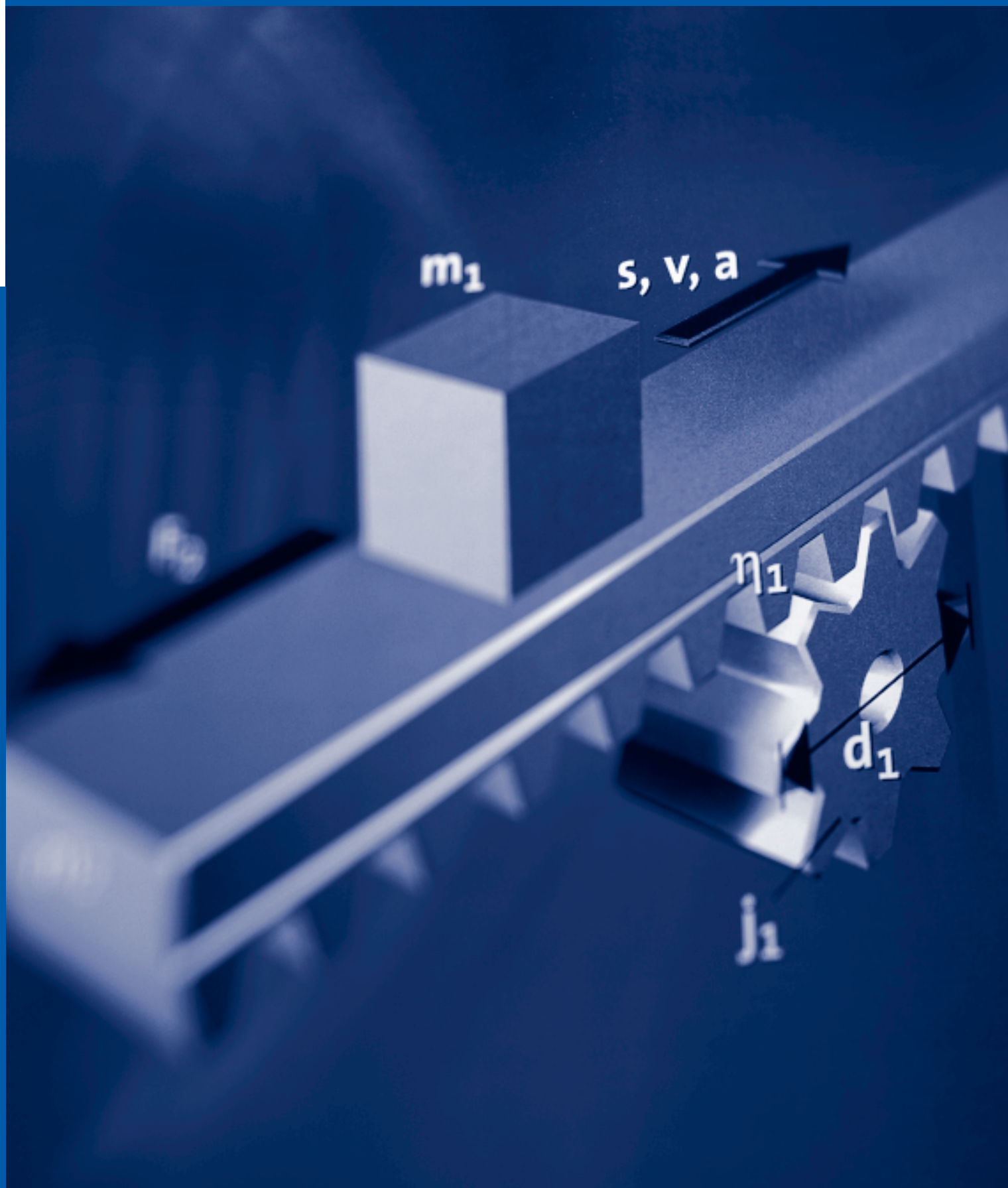
PTC

Additional options

Protection cover
 Condensation drain hole

UL approval cURus





Dimensioning

| | |
|--|-----|
| Adjustment and frequency ranges | 2-2 |
| Torque characteristic | 2-2 |
| How the operating mode affects rated data | 2-3 |
| Power reduction | 2-4 |
| Torque derating | 2-4 |
| Thermal power limit | 2-5 |
| Calculating the required load capacity | 2-6 |
| Calculating the available axial and radial forces | 2-7 |
| Torque characteristic and selection tables | 2-8 |

Gearbox versions

| | |
|----------------------------|------|
| General data | 2-9 |
| Basic versions | 2-10 |
| Options | 2-11 |
| Gearboxes with ventilation | 2-12 |
| Lubricants | 2-13 |
| Roller bearing grease | 2-15 |

Motor versions

| | |
|--------------------------------------|------|
| General data | 2-16 |
| Basic versions | 2-17 |
| Options | 2-17 |
| Possible combinations for options | 2-17 |
| Configuration aid | 2-18 |

8200 motec designs

| | |
|-----------------------|------|
| Basic inverter | 2-19 |
| Accessories | 2-19 |
| Automation components | 2-19 |

The electronic variable speed drive motors in the selection tables, comprising a geared motor and an 8200 motec frequency inverter, are listed for a rated point of 50 Hz and reference points of 5 Hz - 14.5 Hz - 20 Hz (30 Hz for motor frame size 080C42) and 87 Hz.

In the power range between 3 and 7.5 kW on motors with integral fans, you may need to take into account additional current derating of the 8200 motec (see chapter 8200 motec – Basic inverters).

If you are using the 8200 motec fan module E82ZMV or a separate fan, current derating is not required.

Frequency inverter parameter settings:

- U/f base frequency = 50 Hz (C0015 = 50 Hz)
- Setting on adjustment range (C0010 = 14.5 Hz; C0011 = 87 Hz)
- More detailed information about parameters appears in the frequency inverter operating instructions.

See chapter 8200 motec for additional technical data.

Adjustment and frequency ranges

| Adjustment range | 1:2.5 | 1:1.67 * | 1:3.5 | 1:6 | 1:10 | 1:17.4 |
|----------------------|--------------|------------|--------------|-----------------|-----------------|-----------|
| Frequency range | 20...50 Hz | 30...50 Hz | 14.5...50 Hz | 14.5...87 Hz | 5...50 Hz | 5...87 Hz |
| Motor cooling | Integral fan | | | Separate fan | | |
| Rated motor torque | constant | x | x | x ¹⁾ | x ¹⁾ | x |
| | reduced | | | | | |
| The reduced value is | | | 14.5 Hz | 87 Hz | | 87 Hz |

¹⁾ Only for use with 8200 motec fan module in power range 3...7.5 kW

Torque characteristic

| Motor cooling | Frequency | Torque characteristic |
|---------------|-----------------|---|
| Integral fan | 14.5 Hz...20 Hz | Increases linearly proportional to 14.5...20 Hz |
| | 14.5 Hz...30 Hz | Increases linearly proportional to 14.5...20...30 Hz |
| | 20 Hz...50 Hz | Constant |
| | 30 Hz...50 Hz * | Constant |
| | > 50 Hz | Decreases proportionally (50/f) from 50 Hz at constant motor power (field weakening mode) |
| Separate fan | 5 Hz...50 Hz | Constant |
| | > 50 Hz | Decreases proportionally (50/f) from 50 Hz at constant motor power (field weakening mode) |

* Only for motor frame size 080C42



How the operating mode affects rated data

The operating mode is important when selecting a motor. For example, the temperature rise on a motor subject to short-term load will be lower than that on a motor subject to long-term load. Operating modes S1 to S8 have been defined in accordance with EN 60034.

Continuous operation S1

The operating time at rated power is long enough for the machine to reach steady-state temperature. The motor operates continuously at rated power.

Short-term operation S2

In comparison with the subsequent pause, the operating time is too short for the machine to reach steady-state temperature. During the subsequent lengthy pause, the motor cools down to the initial temperature.

Intermittent operation S3, S4, S5

Cycles of the same type combine to form a sequence. The cycle time is usually 10 minutes.

- ▶ S3: The start-up current is not significant for the temperature rise of the motor.
- ▶ S4: The start-up current contributes to the temperature rise of the motor.
- ▶ S5: The start-up current and braking current contribute to the temperature rise of the motor.

Continuous operation with intermittent loading S6

The motor continues to be ventilated during the no-load phases, enabling it to cool down.

Uninterrupted operation with acceleration and braking S7

The motor runs almost without pauses.

Uninterrupted operation S8 with pole-changing

The machine runs constantly under load but with frequent speed variation.

Power reduction

Effect of the installation height

| How the installation height above mean sea level affects rated power | | | | |
|--|--------|------|------|------|
| H [m] | ≤ 1000 | 2000 | 3000 | 4000 |
| $\frac{P_h}{P_r}$ | 1 | 0.95 | 0.90 | 0.85 |

Effect of the ambient operating temperature

| How the ambient operating temperature T_{amb} affects rated power | | | | | |
|---|------|------|------|------|-----|
| T_{amb} [°C] | ≤ 40 | 45 | 50 | 55 | 60 |
| $\frac{P_{\vartheta}}{P_r}$ | 1 | 0.88 | 0.75 | 0.63 | 0.5 |

Calculating the reduced power P_{red}

$$P_{red} = \frac{P_h}{P_r} \cdot \frac{P_{\vartheta}}{P_r} \cdot P_r$$

2

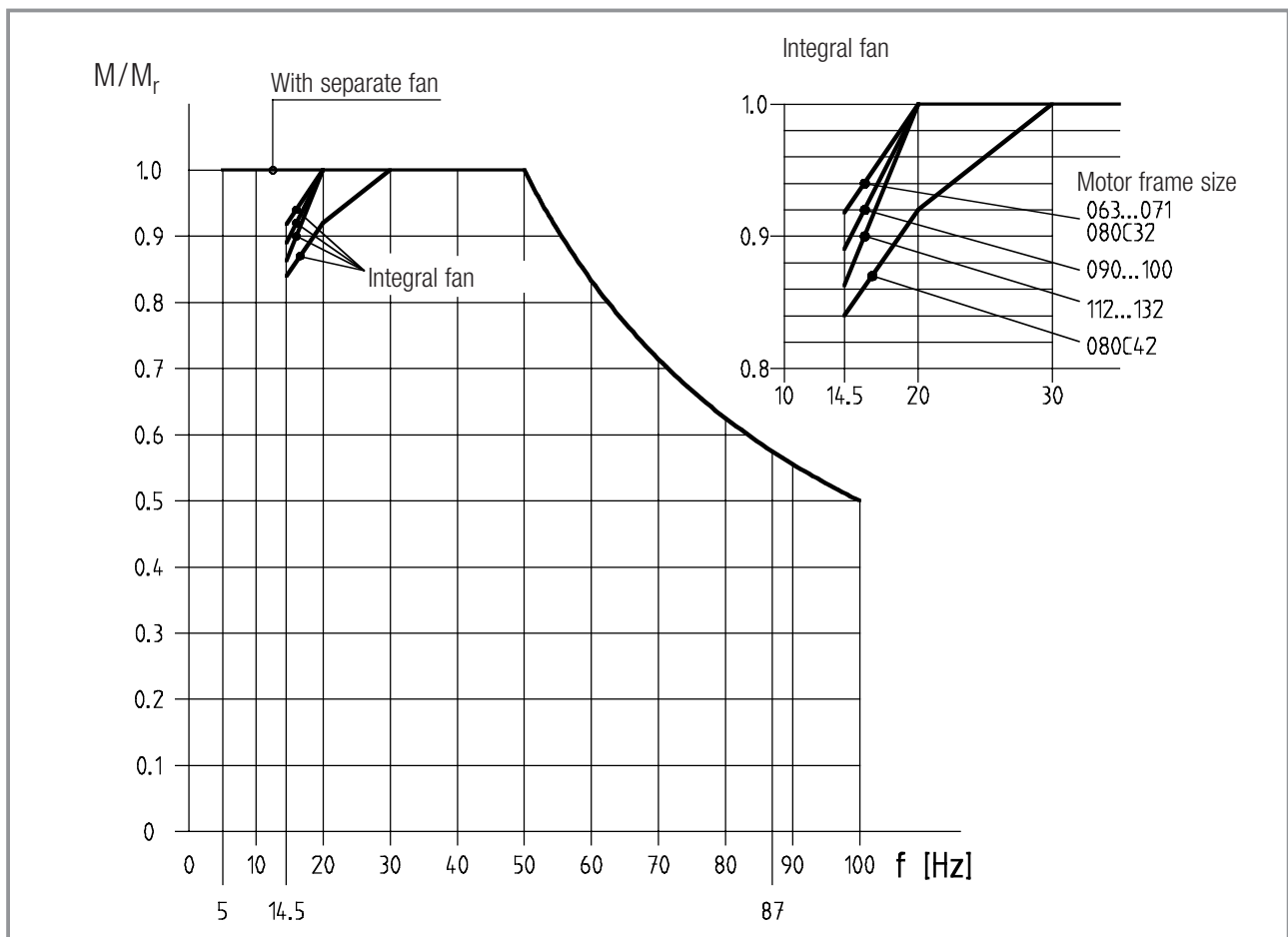
Torque derating

The cooling of motors with integral fans is determined by the shaft speed, as the integral fan is connected to the motor shaft. In conjunction with the 8200 motec frequency inverter, the motors can cover a variable speed or frequency range. At low 8200 motec output frequencies, the air flow of the integral fan is not entirely sufficient to dissipate the prevailing heat loss of the motor at rated torque (M_r).

The torque (M) that can be drawn from the motor should therefore be reduced below 20 (30 Hz).

The torques indicated in the selection tables already take account of this required torque reduction of the motor.

The following dependency is valid for the various motor frame sizes:





Thermal power limit

The permissible gearbox continuous power is restricted by:

- ▶ The mechanical rating, defined by the material strength of the individual components or
- ▶ The thermal power limit, defined by the heat balance.

The thermal power limit may be lower than the mechanical rating indicated in the selection tables.

The thermal power limit is determined by:

- ▶ Losses in the lubricant. These are determined by the mounting position and the circumferential speed of the gears.
- ▶ The load and the speed
- ▶ The ambient conditions: temperature, air circulation, heat input or dissipation via shafts and the substructure

Please contact Lenze

- ▶ If you are using the following gearbox model, size and ratio combinations at input speed $n_1 > 1500$ rpm:

| Gearbox model | Gearbox sizes | Ratios $i \leq$ |
|---|----------------|--------------------|
| Helical gearboxes GST | 07, 09, 11, 14 | 10 |
| Shaft-mounted helical gearboxes (low-profile gearboxes) GFL | 09, 11, 14 | 16 |
| Helical-bevel gearboxes GKS | 09, 11, 14 | 25 |

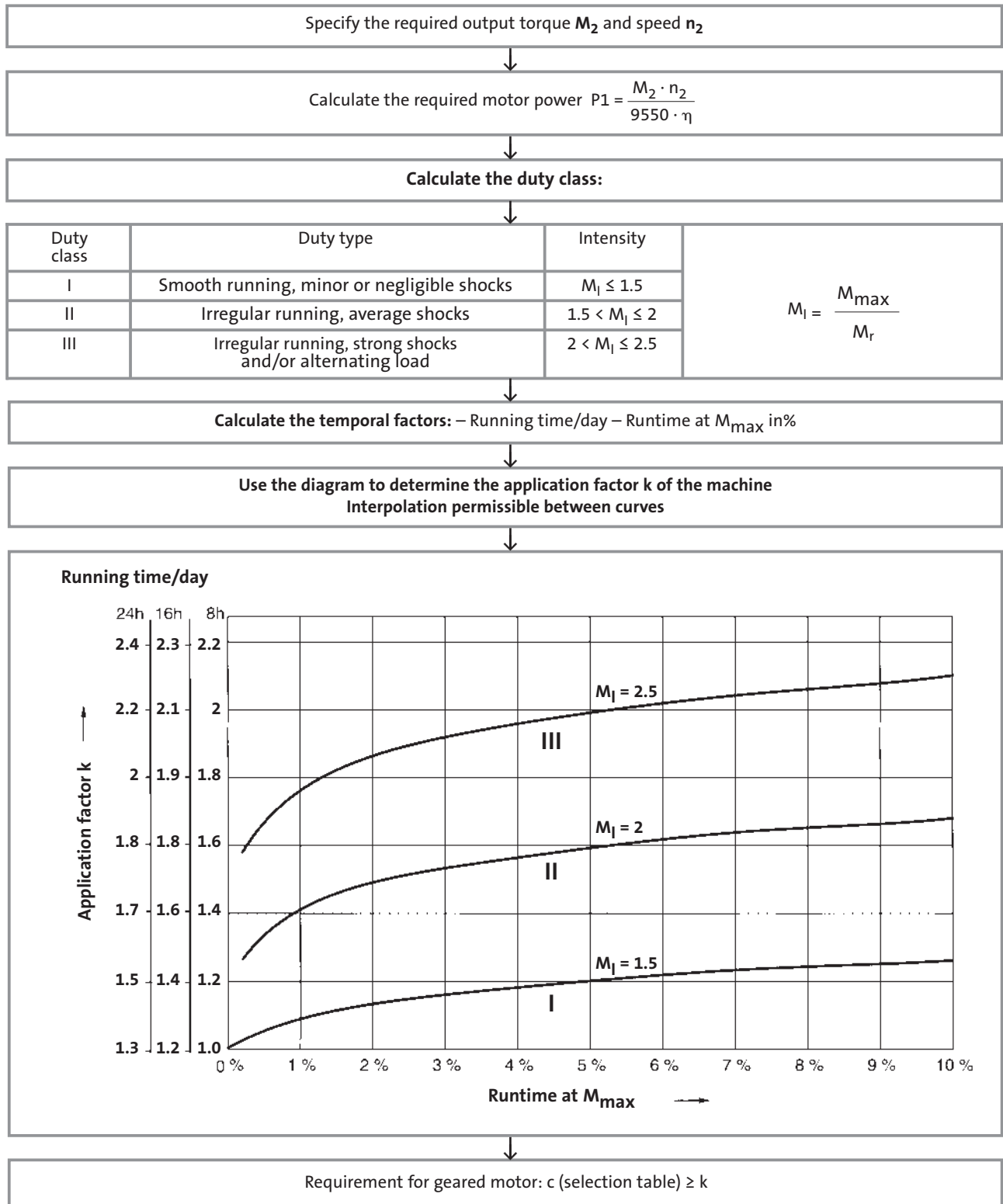
... or if the input speeds n_1 listed are exceeded:

| | | Drive size | |
|---------------------------------|------------|-------------|-------------|
| Drive-end design | E | 063 ... 100 | 112 ... 132 |
| n_1 For mounting positions | A, B, E, F | 4000 rpm | 3000 rpm |
| n_1 For mounting positions | C, D | 3000 rpm | 1500 rpm |

Possible ways of extending the range of operation

| What to do | |
|---|--|
| Increase the permissible temperature range of the gearbox | <ul style="list-style-type: none"> ▶ Synthetic lubricant (option) ▶ Shaft sealing rings made from FP material/Viton (option) |
| Reduce the power loss | <ul style="list-style-type: none"> ▶ Synthetic lubricant (option) ▶ Reduce the amount of lubricant used |
| Increase the heat dissipation | <ul style="list-style-type: none"> ▶ Possible air convection on the machine/system ▶ Fan cooling (for example pneumatic supply line of the driving motor) ▶ Oil cooling |

1. Calculating the required load capacity





2. Calculating the axial and radial forces applied to the gearbox shaft

Work out the axial and radial forces applied
Approximate calculation of radial forces:

↓

$$F_r = 2000 \cdot \frac{M_2 \cdot f_z}{d_w [\text{mm}]}$$

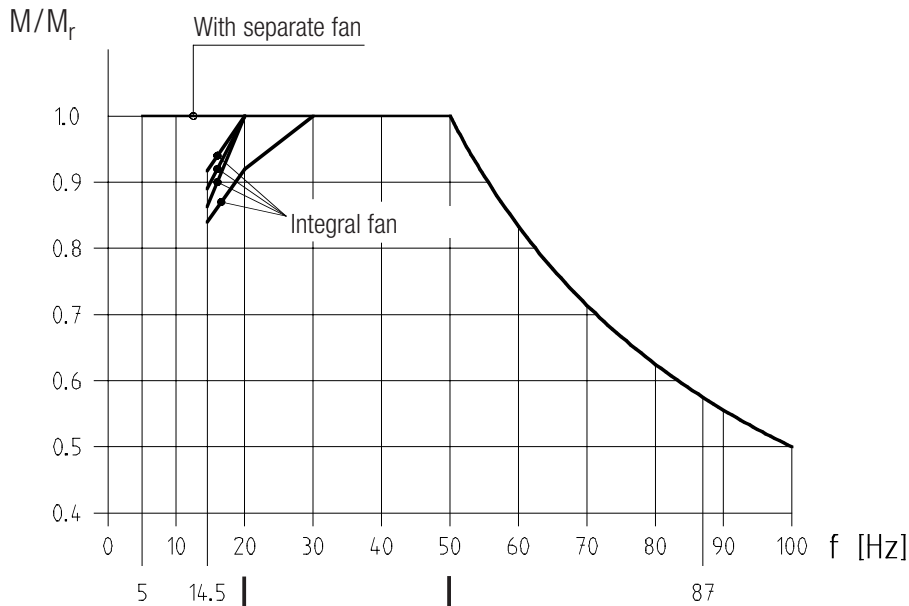
| f_z | Transmission element |
|--------------|--|
| 1.12 | Gears |
| 1.25 ... 1.4 | Chain wheels |
| 1.5 | Toothed belt pulleys |
| 1.5 ... 2.0 | V-belt pulleys depending on pretension |

↓

Requirement:

- ▶ $F_{rperm} \geq F_r$
(F_{rperm} taken from Gearbox specific data)
- ▶ $F_{aperm} \geq F_a$
(F_{aperm} taken from Gearbox specific data)

Torque characteristic and selection tables



| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|---|----------------------|------------|
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|----|-----|-----|----|----|--------|-----------------------|--------------|
| 5.0 | 140 | 14 | 124 | 20 | 50 | 140 | 1.1 | 87 | 80 | 28.333 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.0 | 140 | 14 | 124 | 20 | 50 | 140 | 2.3 | 87 | 80 | 28.333 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |



General data

| | | GST | GFL | GKR | GKS | GSS |
|------------------------------|-----------------|--|-----------------|-----------------------------|-----------------|---|
| Housing | Version | Cuboid | | | | |
| | Material | Aluminium/Cast iron | | | | |
| Solid shaft | Version | With featherkey to DIN 6885 | | | | |
| | Tolerance | k6 (d ≤ 50 mm) m6 (d > 50 mm) | | | | |
| | Material | Tempered steel C45/42CrMo4 | | | | |
| Hollow shaft | Version | – | – | H: With keyway S: Smooth | | |
| | Tolerance | – | – | Bore H7 | | |
| | Material | – | – | Tempered steel C45 | | |
| Toothed parts | Version | Optimised tooth flanks and profile geometry Ground tooth flanks | | | | |
| | Material | Case-hardened steel | | | | |
| Shaft-hub connection | | 1st stage/prestage/helical (bevel) gearbox: friction-type connection Output stage (= 2nd, 3rd or 4th stage): friction-type or positive-fit connection | | | | |
| Shaft sealing rings | Version | With dust protection lip | | | | |
| | Material | NB/FP | | | | |
| Bearings | Version | Ball bearing/tapered-roller bearing depending on size and version | | | | |
| Lubricants | Version | In accordance with DIN 51502 | | | | |
| | Fill volumes | Depends on the mounting position ⇨ Operating Instructions | | | | |
| Mechanical efficiency | At rated torque | 0.95 ≤ η ≤ 0.97 | 0.95 ≤ η ≤ 0.97 | 0.95 ≤ η ≤ 0.96 | 0.92 ≤ η ≤ 0.95 | 0.75 ≤ η ≤ 0.90 ▶ Dependent on transmission ratio ▶ At n ₁ = 1400 rpm ▶ Housing at operating temperature and teeth run in |
| | | Does not exceed the emission values specified in VDI Guideline 2159 | | | | |

Drive dimensioning

Gearbox versions

Basic versions

| Gearbox type | Gearbox size | No. of stages | Input design | Output design | | | | | | | | | | Possible combinations Housing with flange | Ventilation units | Lubricants | | Colour | | | |
|--------------|--------------|---------------|--------------|---------------|--------------|-------------------------------|---|--|---|----------------------------|----------------|-----------------------------|------------------------------|---|--------------------|----------------------------|----------------|--------------------------|-------------|---|---|
| | | | | Shafts [mm] | | | Housing | | | | Flange [mm] | | | | | Mineral | Synthetic | Paint | Grey primer | | |
| | | | | Solid shaft | Hollow shaft | Hollow shaft with shrink disc | Foot mounting with centring and pitch circle | Foot mounting without centring | With centring and pitch circle | With pitch circle | Without flange | With flange (through holes) | With flange (threaded holes) | | | CLP 460 | CLP PG 460 | RAL 7012 (papyrus white) | | | |
| Product key | | | | V | H | S | A | B | C | D | R | K | L | | | | | | | | |
| GST | 03 | 2 | E | 14x28 | | | | | ● | ● | | | ● | 120/140 160 | | AR AL BR CR CK | | | 1) | | |
| | 04 | 1 | | 16x32 | | | | | ● | ● | | | ● | 120/140 160 | | | | | | | |
| | | 2 | | 20x40 | | | | ● | ● | ● | | | ● | 120/140 160 | 120/140 | | | | | | |
| | | 05 | | 1 | 20x40 | | | | | ● | ● | | | ● | 120/140 160/200 | | | | | | |
| | | 2/3 | | 25x50 | | | | ● | ● | ● | | | | ● | 120/140 160/200 | | 120/140 160 | | ● | | |
| | | 06 | | 1 | 25x50 | | | | | ● | ● | | | ● | 160/200 | | | | | ● | ● |
| | | 2/3 | | 30x60 | | | | ● | ● | ● | | | | ● | 160/200 | | 160/200 | | | | |
| | | 07 | | 1 | 30x60 | | | | | ● | ● | | | ● | 200/250 | | | | | | |
| | | 2/3 | | 40x80 | | | | ● | ● | ● | | | | ● | 200/250 | | 200/250 | | | | |
| | | 09 | | 1 | 40x80 | | | | | ● | ● | | | ● | 250/300 | | | | ● | | |
| | | 2/3 | | 50x100 | | | | ● | ● | ● | | | | ● | 250/300 | | 250/300 | | | | |
| | | 11 | | 2/3 | 60x120 | | | ● | ● | ● | | | | ● | 300/350 | | 300/350 | | | | |
| | | 14 | | 2/3 | 80x160 | | | ● | ● | ● | | | | ● | 350/400 | | 350/400 | | | | |
| GFL | 04 | 2 | E | 25x50 | 25/30 | 25/30 | Feet in position 3 or 4 Centring and pitch circle in position 6 | Feet in position 3 or 4 Pitch circle in position 6 | Centring and pitch circle in position 6 | Pitch circle in position 6 | ● | ● | 160 | AR BR CR CK DR | ● | ● | ● | ● | ● | ● | |
| | 05 | 2/3 | | 30x60 | 30/35 | 35 | | | | | | | 200 | | | | | | | | |
| | 06 | 2/3 | | 40x80 | 40/45 | 40 | | | | | | | 200 only H+5 250 | | | | | | | | |
| | 07 | 2/3 | | 50x100 | 50/55 | 50 | | | | | | | 250/300 | | | | | | | | |
| | 09 | 2/3 | | 60x120 | 60/70 | 65 | | | | | | | 350 | | | | | | | | |
| | 11 | 2/3 | | 80x160 | 70/80 | 80 | | | | | | | 400/450 | | | | | | | | |
| GKR | 03 | 2 | E | 20x40 | 18/20 | 20 | Feet in position 4+6 Centring and pitch circle in position 3+5 | Feet in position 4+6 Pitch circle in position 3+5 | | | ● | ● | 110/120 | AR BR AK | ● | | | | | | |
| | 04 | 2 | | 20x40 | 20/25 | 20 | | | | | | | 120/160 | | | | | | | | |
| | 05 | 2 | | 30x60 | 30/35 | 30/35 | | | | | | | 160/200 | | | | | | | | |
| | 06 | 2 | | 35x70 | 40/45 | 40 | | | | | | | 200/250 | | | | | | | | |
| GKS | 04 | 3 | E | 25x50 | 25/30 | 25/30 | Feet in position 2+4+6 Centring and pitch circle in position 3+5 | Feet in position 2+4+6 Pitch circle in position 3+5 | | | ● | ● | 160 | AR BR AK | ● | ● | ● | ● | ● | ● | |
| | 05 | 3/4 | | 30x60 | 30/35 | 35 | | | | | | | 200 | | | | | | | | |
| | 06 | 3/4 | | 40x80 | 40/45 | 40 | | | | | | | 200 only H+5 250 | | | | | | | | |
| | 07 | 3/4 | | 50x100 | 50/55 | 50 | | | | | | | 250/300 | | | | | | | | |
| | 09 | 3/4 | | 60x120 | 60/70 | 65 | | | | | | | 350 | | | | | | | | |
| | 11 | 3/4 | | 80x160 | 70/80 | 80 | | | | | | | 400/450 | | | | | | | | |
| GSS | 04 | 2 | E | 25x50 | 25/30 | 25/30 | Feet in position 2+4+6 Centring and pitch circle in position 3+5 | Feet in position 2+4+6 Pitch circle in position 3+5 | | | ● | ● | 160 | AR BR AK | ● | ● | ● | ● | ● | ● | |
| | 05 | 2/3 | | 30x60 | 30/35 | 35 | | | | | | | 200 | | | | | | | | |
| | 06 | 2/3 | | 40x80 | 40/45 | 40 | | | | | | | 200 only H+5 250 | | | | | | | | |
| | 07 | 2/3 | | 50x100 | 50/55 | 50 | | | | | | | 250/300 | | | | | | | | |

1) Not painted (aluminium housing)



Options

| Gearbox type | Gearbox size | No. of stages | Input design | Shaft | | | Options | | | | | | Lubricants | | Colour | | | | |
|--------------------|--------------|---------------|--------------|---------------------|--------------------------|-------------------------------|-------------------|------------------------------|------------------------------|------------------------------|-------------------|-------------------|---|----------------------|--|-----------------------------|-------------|--|--|
| | | | | 2nd solid shaft end | Reinforced shaft bearing | Shaft sealing ring FP (Viton) | Rubber buffer set | Torque plate on pitch circle | Torque plate on housing foot | Hoseproof hollow shaft cover | Shrink disc cover | Ventilation units | Reservoir (ventilation) for mounting position C | Synthetic CLP HC 320 | Approved for use in the food industry CLP HC 220 | Special paint to RAL number | Grey primer | | |
| Product key | | | | V | | | | | | | | | | | | | | | |
| GST | 03 | 2 | E | V | | | | | | | | | | | | | | | |
| | 04 | 1 | | | | | | | | | | | | | | | | | |
| | 05 | 1 | E | | ● | | | | | | | | | | | | | | |
| | | 2/3 | | | ● | | | | | | | | | | | | | | |
| | 06 | 1 | | | ● | ● | | | | | | | | ● | ● | ● | | | |
| | | 2/3 | | | ● | | | | | | | | | | | | | | |
| | 07 | 1 | | | ● | | | | | | | | | | | | | | |
| | | 2/3 | | | ● | | | | | | | | | | | | | | |
| | 09 | 1 | | | ● | | | | | | | | | | | | | | |
| | | 2/3 | | | ● | | | | | | | | | | | | | | |
| 11 | 2/3 | 1) | | | | | | | | | | | | | | | | | |
| | 2/3 | 1) | | | | | | | | | | | | | | | | | |
| GFL | 04 | 2 | E | | | | | | | | | | | | | | | | |
| | 05 | 2/3 | | | | | | | | | | | | | | | | | |
| | 06 | 2/3 | | 2) | ● | ● | | | | | | | ● | ● | ● | | | | |
| | 07 | 2/3 | | ● | | | | | | | | | | | | | | | |
| | 09 | 2/3 | | ● | | | | | | | | | | | | | | | |
| | 14 | 2/3 | | ● | | | | | | | | | | | | | | | |
| GKR | 03 | 2 | E | ● | | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● | | |
| | 04 | 2 | | | | | | | | | | | | | | | | | |
| | 05 | 2 | | | | | | | | | | | | | | | | | |
| | 06 | 2 | | | | | | | | | | | | | | | | | |
| GKS | 04 | 3 | E | ● | 2) | ● | | | | | | | | ● | ● | ● | | | |
| | 05 | 3/4 | | | | | | | | | | | | | | | | | |
| | 06 | 3/4 | | | | | | | | | | | | | | | | | |
| | 07 | 3/4 | | ● | | | | | | | | | | | | | | | |
| | 09 | 3/4 | | ● | | | | | | | | | | | | | | | |
| GSS | 04 | 2 | E | ● | 2) | ● | | | | | | | | | 3) | ● | | | |
| | 05 | 2/3 | | | | | | | | | | | | | | | | | |
| | 06 | 2/3 | | | | | | | | | | | | | | | | | |
| | 07 | 2/3 | | | | | | | | | | | | | | | | | |

1) Standard bearing

2) On request

3) Torque derating required: $M_2 \text{ perm.} = M_2 \cdot 0.8$

Gearboxes with ventilation

Gearbox sizes 03 to 07

Ventilation does not need to be provided on size 03/04 and GKR 05/06 gearboxes.

If you are using gearbox sizes 05 to 07 you will not need to provide special means of ventilation in most cases. In borderline cases, e.g. at input speeds > 2000 rpm we recommend the use of ventilation units, which we can supply separately.

Gearbox sizes 09 to 14

Ventilation units are always supplied with these gearbox sizes.

Special precautions for mounting position C (motor on top)

We recommend the use of an oil compensation reservoir for gearbox sizes 09 to 14 in this mounting position.

For diagram and dimensions see Technical data, ventilation (chapter 3-7). The oil compensator can be ordered as an option.

It is not required at high ratios or low input speeds.

Please contact Lenze if this affects your application.



Lubricants

Lenze gearboxes and geared motors are supplied ready for operation and filled with a lubricant appropriate for the drive and design in question. You must indicate the mounting position and design on your order in order to ensure that the correct amount of lubricant is supplied.

The lubricants listed in the lubricant table on the following page have been approved for use in Lenze drives. Special lubricants have to be used e. g. if products are held in storage for long periods of time or in the event of extraordinary operating conditions.

Please note the following key for the lubricant table when selecting lubricants:

CLP = Mineral oil

CLP PG = Polyglycol oil

CLP HC = Synthetic hydrocarbons/poly-alpha-olefin oil

CLP E = Diester oil (water pollution class WGK 1)

1) = Currently, we do not have any performance test data for the lubricants listed for lubricating worm gearboxes. When using these oils, the permissible torque values in the catalogue should be reduced by 20%.

2) = Polyglycol oils cannot be mixed with other types of oil.

3) = At ambient temperatures above 40°C, please contact Lenze to discuss the exact application conditions.



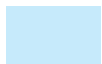
= Oils approved for use in the food processing industry (approval to USDA-H1)



= Bio oil (lubricant for forestry, farming and water management)
(water pollution class 1)



= Note critical starting performance at low temperatures. At temperatures below -25°C, special measures are required for the motor bearing and NBR shaft sealing rings.
















= Lenze lubricants used during factory assembly

Drive dimensioning

Gearbox versions

Lubricant table

| | Ambient temperature | | | DIN 51517-3: CLP ISO 12925-1: CKC/CKD | | GST, GFL, GKS, GKR | | GSS |
|--|---------------------|-------------------|-------------------|--|--------|--------------------|-------------------------------------|--|
| | -50 | 0°C | +50 | | | | | |
|  Shell | 0 | | +40 | | CLP | VG 460 | Omala 460 | |
| | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Omala HD 320 | |
| | -10 | | +50 ³⁾ | ☞☞ | CLP HC | VG 460 | Cassida Fluid GL 460 | |
| | -20 | | +40 | ☞☞ | CLP HC | VG 220 | Cassida Fluid GL 220 | |
| | -20 | | +40 | | CLP PG | VG 220 | | Tivela S 220 ²⁾ |
| | -20 | | +40 | | CLP PG | VG 460 | | Tivela S 460 ²⁾ |
| | -40 | 0 | | ☞☞☞ | CLP HC | VG 46 | Cassida HF 46 | |
| | -20 | | +40 | ☞☞ | CLP PG | VG 320 | | Cassida Fluid WG 320 ¹⁾²⁾ |
| | -20 | | +50 ³⁾ | ☞☞☞ | CLP E | VG 320 | Omala EPB 320 | Omala EPB 320 ¹⁾ |
|  KLÜBER | 0 | | +40 | | CLP | VG 460 | Klüberoil GEM1 460 | |
| | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Klübersynth EG 4-320 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Klübersynth GH 6-460 ²⁾ |
| | -20 | | +40 | | CLP PG | VG 220 | | Klübersynth GH 6-220 ²⁾ |
| | -30 | 0 | | ☞☞☞ | CLP PG | VG 32 | | Klübersynth GH 6-32 ¹⁾²⁾ |
| | -40 | 0 | | ☞☞☞ | CLP HC | VG 46 | Klüber Summit HySyn FG-46 | |
| | -20 | | +40 | ☞☞ | CLP HC | VG 220 | Klüberoil 4 UH1-220 N | |
| | -20 | | +40 | ☞☞ | CLP PG | VG 320 | | Klübersynth UH1 6-320 ¹⁾²⁾ |
| | -20 | | +50 ³⁾ | ☞☞☞ | CLP E | VG 320 | Klübersynth GEM 2-320 | Klübersynth GEM 2-320 ¹⁾ |
|  FUCHS | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Renolin Unisyn CLP 320 | |
| | -20 | | +40 | ☞☞ | CLP E | VG 320 | Plantogear 320 S | Plantogear 320 S ¹⁾ |
| | -20 | | +40 | | CLP PG | VG 460 | | Renolin PG 460 ¹⁾²⁾ |
|  ARAL | 0 | | +40 | | CLP | VG 460 | Renolin CLP 460 | |
| | -10 | | +50 ³⁾ | ☞☞ | CLP HC | VG 460 | Eural Gear 460 | |
| | -25 | | +40 | ☞☞ | CLP HC | VG 220 | Eural Gear 220 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Degol GS 460 ¹⁾²⁾ |
| | 0 | | +40 | | CLP | VG 460 | Degol BG 460 | |
|  Elfin | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Degol PAS 320 | |
| | 0 | | +40 | | CLP | VG 460 | Blasia 460 | |
|  Energol | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Blasia SX 320 | |
| | 0 | | +40 | | CLP | VG 460 | Energol GR-XP 460 | |
|  Energol | -20 | | +50 ³⁾ | | CLP HC | VG 320 | Energol HTX 320 | |
| | 0 | | +40 | | CLP | VG 460 | Alpha MW 460 | |
|  Castrol | 0 | | +40 | | CLP | VG 460 | Alpha SP 460 | |
| | -20 | | +40 | | CLP PG | VG 460 | Alpha PG 460 ²⁾ | Alpha PG 460 ¹⁾²⁾ |
|  Zellex | 0 | | +40 | | CLP | VG 460 | Falcon CLP 460 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Polydea PGLP 460 ¹⁾²⁾ |
| | -20 | | +50 ³⁾ | ☞☞☞ | CLP E | VG 320 | Ergon ELP 320 | Ergon ELP 320 ¹⁾²⁾ |
|  Esso | 0 | | +40 | | CLP | VG 460 | Spartan EP 460 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Glycolube 460 ¹⁾²⁾ |
| | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Spartan Synthetic EP 320 | |
|  Mobil® | 0 | | +40 | | CLP | VG 460 | Mobilgear 634 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Mobil Glygoyle HE 460 ¹⁾²⁾ |
| | -20 | | +50 ³⁾ | | CLP HC | VG 320 | Mobilgear SHC XMP 320 | |
| | -20 | | +40 | | CLP PG | VG 460 | | |
|  LUBCON | 0 | | +40 | | CLP | VG 460 | Turmogearoil 460 OM | |
| | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Turmofluid GV 320 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Turmpololil 460 EP ¹⁾ |
| | -20 | | +40 | | CLP PG | VG 220 | | Turmpololil 220 EP ¹⁾ |
| | -40 | 0 | | ☞☞☞ | CLP HC | VG 46 | Turmofluid GV 46 | |
| | -20 | | +40 | ☞☞ | CLP HC | VG 220 | Turmosynthoil GV 220 | |
| | -20 | | +40 | ☞☞ | CLP PG | VG 460 | | Turmosynthoil PG 460 ¹⁾²⁾ |
| | -20 | | +50 ³⁾ | ☞☞☞ | CLP E | VG 320 | Turmofluid Biolube CLP 320 | Turmofluid Biolube CLP 320 ¹⁾ |
| | -20 | | +40 | | CLP | VG 460 | Optigear BM 460 | |
|  Tribol | -25 | | +50 ³⁾ | | CLP HC | VG 320 | Optigear Synthetic A 320 | |
| | 0 | | +40 | | CLP | VG 460 | Tribol 1100/460 | |
| | -20 | | +40 | | CLP PG | VG 460 | | Tribol 800/460 ¹⁾²⁾ |
| | -25 | | +40 | | CLP HC | VG 320 | Tribol 1510/320 | |
| | -20 | | +40 | ☞☞ | CLP | VG 220 | Food Proof 1810/220 | |
| -20 | | +50 ³⁾ | ☞☞ | CLP PG | VG 460 | | Food Proof 1800/460 ¹⁾²⁾ | |



Roller bearing grease

The roller bearings on Lenze motors and gearboxes are filled with the following greases in the factory:

| | Ambient temperature | Manufacturer | Type |
|--|---|---------------------------|--|
| Gearbox roller bearings GST, GFL, GKS, GKR | -30 ... +50°C -30 ... +80°C -40 ... +60°C | Fuchs Klüber Klüber | Renolit H 443 Petamo 133N Microlube GHY 72 |
| Gearbox roller bearings GSS | -30 ... +80°C -15 ... +60°C | Klüber Klüber | Petamo 133N Klüberplex BE 11-462 |
| Motor roller bearings | -30 ... +70°C | Lubcon | Thermoplex 2TML |
| | -40 ... +80°C | Klüber | Asonic GHY 72 |
| Special greases for gearbox roller bearings | | | |
| Low-temperature grease, note critical starting performance at low temperatures | -40 ... +80°C | Klüber | Asonic GHY 72 |
| Bio grease (lubricant for forestry, farming and water management) | -40 ... +50°C | Fuchs | Plantogel 0120S |

General data

| | |
|------------------------------|---|
| Standards | The motors meet the requirements of applicable DIN and IEC standards. CE conformance with the Low-Voltage Directive Optional UL approval in accordance with cURus |
| Operating mode | Designed for operating mode S1 (continuous operation with constant load at rated power) |
| Enclosure | IP55 (self-ventilated) |
| Temperature class (EN 60034) | Insulation system to temperature class F |
| Insulation resistance | Maximum voltage amplitude $\hat{U} = 1.5 \text{ kV}$ Maximum rate of voltage rise $du/dt = 5 \text{ kV}/\mu\text{s}$ |
| Temperature monitoring | Temperature sensor (NC contact) |
| Temperature range | -20 ... +40°C without power derating |
| Installation height | Up to 1000 m above mean sea level without power derating |
| Bearing | Deep-groove ball bearing with 2 covers |



Basic versions

| Motor frame size | 063 | 071 | 080 | 090 | 100 | 112 | 132 |
|---|----------------------------|------------------|------------------|--------|------------------|------------------|--------|
| Versions | | | | | | | |
| 4-pole | 063C12 063C32 063C42 | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 112C32 | 132C22 |
| Mech. integrated with Lenze gearbox | ● | ● | ● | ● | ● | ● | ● |
| Cooling | | | | | | | |
| Integral fan | ● | ● | ● | ● | ● | ● | ● |
| Enclosure | | | | | | | |
| IP55 | ● | ● | ● | ● | ● | ● | ● |
| Motor protection | | | | | | | |
| Temperature class F | ● | ● | ● | ● | ● | ● | ● |
| Temperature sensor: Thermal contact (NC contact) | ● | ● | ● | ● | ● | ● | ● |

Options (note possible combinations)

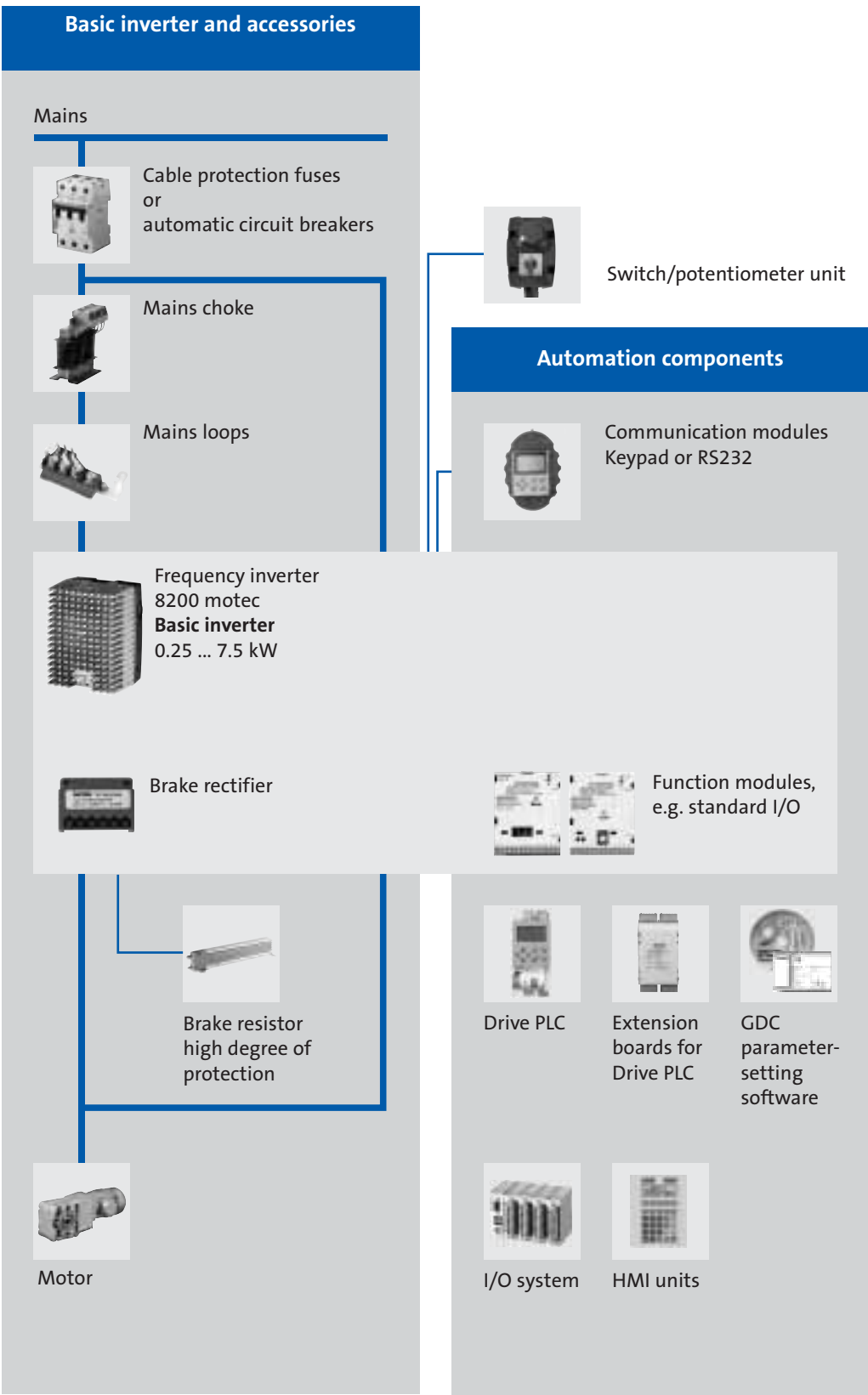
| | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|
| Cooling | | | | | | | |
| Separate fan | ● | ● | ● | ● | ● | ● | ● |
| Motor protection | | | | | | | |
| Temperature sensor PTC thermistor | PTC | PTC | PTC | PTC | PTC | PTC | PTC |
| Holding systems | | | | | | | |
| Spring-operated brake, low-noise Mains or 24 V DC connection | ● | ● | ● | ● | ● | ● | ● |
| Additional options | | | | | | | |
| Handwheel | | ● | ● | ● | ● | ● | ● |
| Condensation drain hole | ● | ● | ● | ● | ● | ● | ● |
| Protection cover, integral fan | | ● | ● | ● | ● | ● | ● |
| Protection cover, separate fan | ● | ● | ● | ● | ● | ● | ● |
| 2nd shaft end (in acc. with definition) | | ● | ● | ● | ● | ● | ● |
| UL approval cURus | ● | ● | ● | ● | ● | ● | ● |

Possible combinations for options

| Motor frame size | 063C12 063C32 063C42 | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 112C32 | 132C22 |
|--|----------------------------|------------------|------------------|--------|------------------|------------------|--------|
| Possible combinations | | | | | | | |
| Separate fan | ● | ● | ● | ● | ● | ● | ● |
| Brake + integral fan | ● | ● | ● | ● | ● | ● | ● |
| Brake + separate fan | ● | ● | ● | ● | ● | ● | ● |
| Brake + integral fan + handwheel/ 2nd shaft end | | ● | ● | ● | ● | ● | ● |
| Integral fan + handwheel/ 2nd shaft end | | ● | ● | ● | ● | ● | ● |

Configuration aid

| Option | | Function | Possible applications |
|---------------------------|--------------------------------------|--|---|
| Cooling | Separate fan | Operation at rated torque at low speeds | ▶ Wide operational speed range with rated torque |
| | Thermal contact NC contact | Protects the motor against thermal overload | ▶ Monitoring the motor winding temperature ▶ Switching a motor relay |
| Motor protection | Temperature sensor PTC thermistor | Protects the motor against thermal overload | ▶ PTCs operate in conjunction with a control unit ▶ Unlike the thermal contact, can be reset quickly. |
| | Spring-operated brake | Brakes the motor | ▶ Decelerating loads ▶ Holding loads ▶ Braking torque available in de-energised state |
| Holding systems | Condensation drain hole | Drains condensation | ▶ Operation in extreme climatic conditions ▶ Outdoor installation |
| | Protection cover | Protects against foreign matter falling into the fan cover | ▶ Protecting the air inlet opening against foreign matter if the drive is installed vertically with the motor shaft downwards |
| Additional options | | | |





Technical data

Permissible radial and axial forces

| | |
|--|-----|
| Output _____ | 3-2 |
| Output backlash _____ | 3-4 |
| Ventilation _____ | 3-6 |
| Position of ventilation, oil filler plug and oil drain plug _____ | 3-6 |
| Reservoir for mounting position C _____ | 3-8 |
| Weights _____ | 3-9 |

Selection tables

| | |
|-------------------------------------|------|
| Geared motors with 8200 motec _____ | 3-11 |
|-------------------------------------|------|

Dimensions

| | |
|-------------------------------------|------|
| Geared motors with 8200 motec _____ | 3-40 |
| Further dimensions _____ | 3-56 |
| Output design VAR _____ | 3-56 |
| Output design VAL _____ | 3-57 |

Technical data - Helical gearboxes

Permissible radial and axial forces - Output

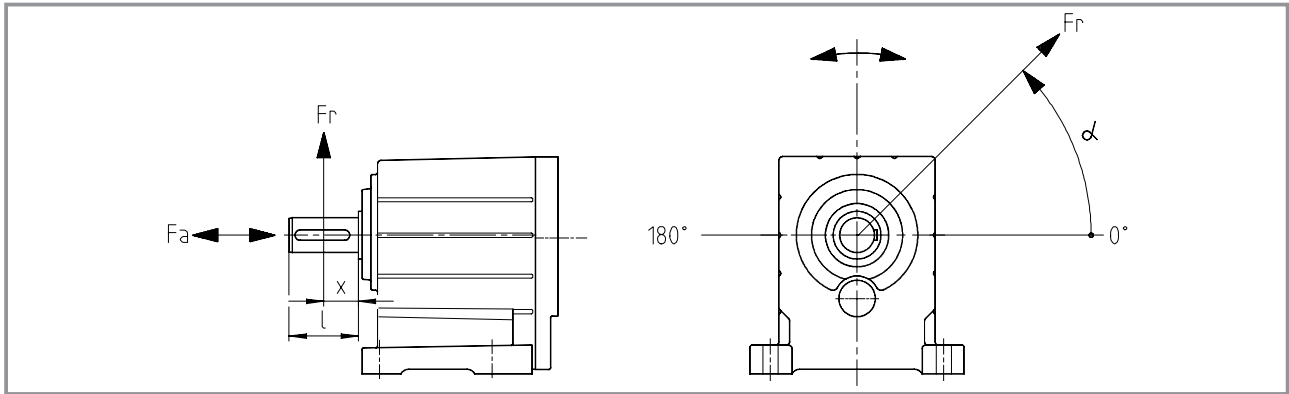
Permissible radial force

$$F_{rperm} = f_w \cdot f_\alpha \cdot F_{rTab} \leq f_w \cdot F_{rmax}$$

Permissible axial force

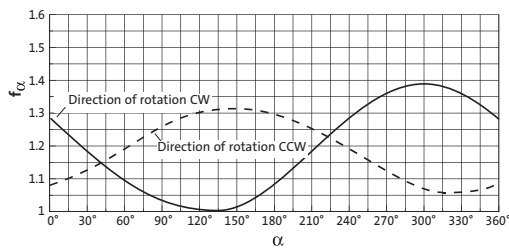
$$F_{aperm} = F_{aTab} \quad \text{if } F_r = 0$$

Contact Lenze if F_r and $F_a \neq 0$



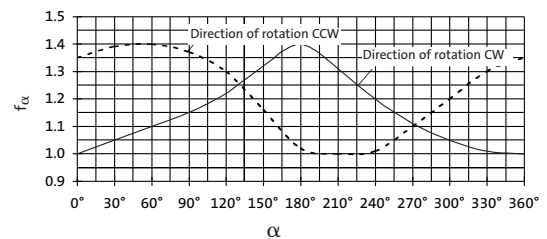
f_α Effective direction factor f_α at output shaft

1-stage helical gearbox GST □□-1



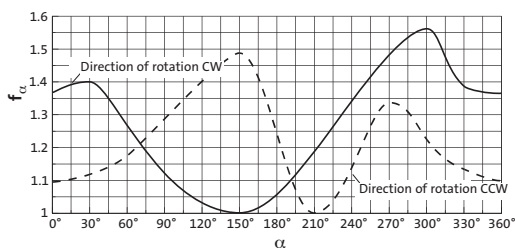
f_α Effective direction factor f_α at output shaft

2-stage helical gearbox GST 03 - 2



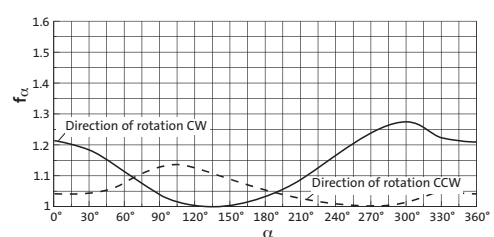
f_α Effective direction factor f_α at output shaft

2 and 3-stage helical gearbox GST 04...09 - 2, 3



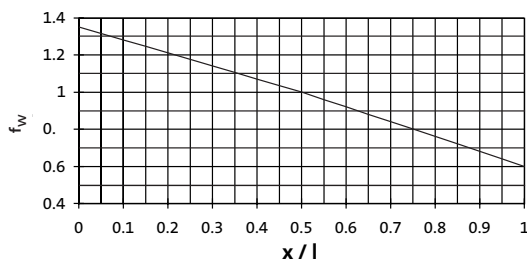
f_α Effective direction factor f_α at output shaft

2 and 3-stage helical gearbox GST 11...14 - 2, 3

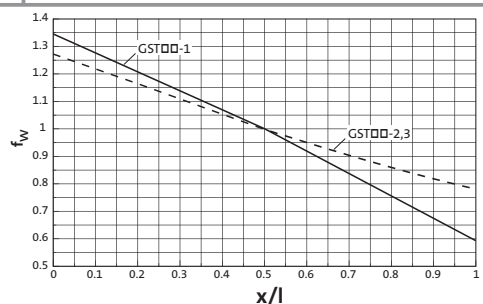


f_w Additional load factor f_w at output shaft

2-stage helical gearbox GST 03 - 2



f_w Additional load factor f_w at output shaft



Technical data - Helical gearboxes

Permissible radial and axial forces - Output



GST□□-1

| V00 | | Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | |
|----------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| n_2 [rpm] | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | |
| 1000 | 440 | 1000 | 550 | 1400 | 800 | 1500 | 1200 | 2000 | 2500 | 4300 | |
| 600 | 600 | 1300 | 750 | 2000 | 800 | 2000 | 1300 | 2700 | 2500 | 5700 | |
| 400 | 850 | 1400 | 1400 | 2000 | 1100 | 2500 | 1900 | 3300 | 3500 | 6800 | |
| 200 | 1050 | 1400 | 2000 | 2000 | 2200 | 2500 | 3000 | 3700 | 6200 | 7000 | |
| 125 | 1050 | 1400 | 2300 | 2000 | 2900 | 2500 | 3900 | 3700 | 7900 | 7000 | |
| 80 | 1050 | 1400 | 2300 | 2000 | 3500 | 2500 | 4700 | 3700 | 9000 | 7000 | |
| ≤ 50 | 1050 | 1400 | 2300 | 2000 | 3500 | 2500 | 5300 | 3700 | 9500 | 7000 | |
| $F_{r max.}$ | 1050 | – | 2300 | – | 3500 | – | 5300 | – | 9500 | – | |

GST□□-2, 3 with standard bearing

| V00 | | Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | | | |
|----------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| n_2 [rpm] | GST 03 | | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | | GST 11 | | GST 14 | | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | |
| 400 | 630 | 600 | 1250 | 1100 | 1950 | 2000 | 2350 | 850 | 3400 | 1900 | 6800 | 2300 | 17000 | 9500 | 24000 | 15000 | |
| 250 | 710 | 700 | 1450 | 1300 | 2200 | 2300 | 2600 | 900 | 3800 | 2200 | 7600 | 2800 | 19000 | 10000 | 27000 | 16000 | |
| 160 | 800 | 800 | 1700 | 1650 | 2600 | 2650 | 3100 | 1250 | 4500 | 2900 | 9400 | 4000 | 21000 | 11000 | 31000 | 18000 | |
| 100 | 920 | 900 | 2100 | 2000 | 3000 | 3100 | 3600 | 1800 | 5400 | 3900 | 11500 | 5600 | 21000 | 14000 | 36000 | 20000 | |
| 63 | 1100 | 1000 | 2500 | 2000 | 3500 | 3600 | 4300 | 2600 | 6400 | 5300 | 11500 | 8900 | 21000 | 16000 | 39000 | 20000 | |
| 40 | 1400 | 1000 | 2650 | 2000 | 3800 | 3600 | 4350 | 3600 | 7600 | 7000 | 11500 | 11000 | 21000 | 16000 | 40000 | 20000 | |
| 25 | 1500 | 1000 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9100 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 | |
| ≤ 16 | 1500 | 1000 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9500 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 | |
| $F_{r max.}$ | 1500 | – | 2650 | – | 3900 | – | 4350 | – | 9500 | – | 11500 | – | 21000 | – | 40000 | – | |

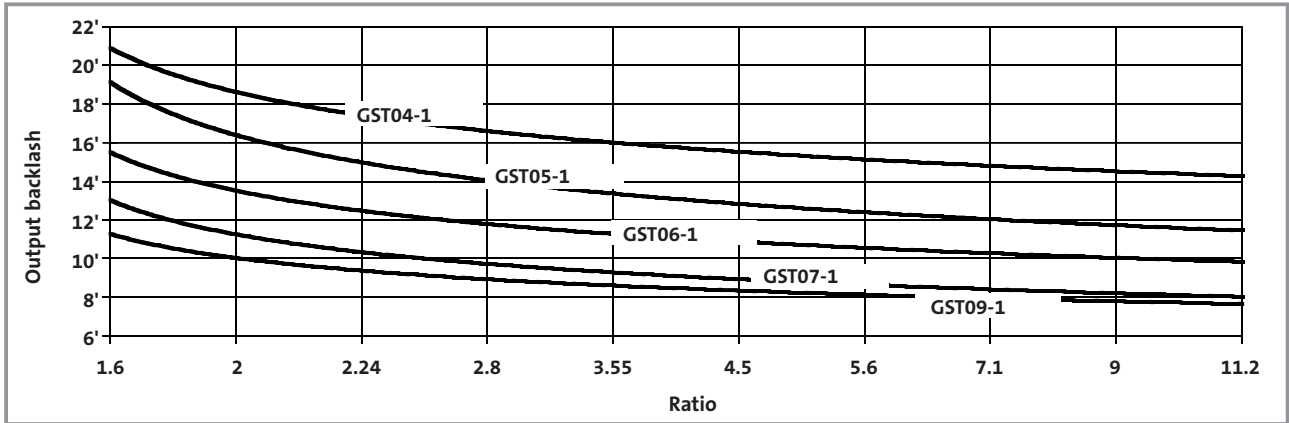
GST□□-2, 3 with reinforced bearing

| V00 | | Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | |
|----------------|-------------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---|-------------------|-------------------|-------------------|
| n_2 [rpm] | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | | GST 11 | | GST 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 2850 | 1700 | 4900 | 3600 | 6300 | 3500 | 8500 | 5500 | 16500 | 8000 | The standard bearing is a reinforced bearing. | | | |
| 250 | 3150 | 1900 | 5400 | 3900 | 7000 | 3600 | 9500 | 6100 | 17000 | 9000 | | | | |
| 160 | 3550 | 2200 | 5400 | 4300 | 7700 | 4200 | 10500 | 7100 | 17000 | 10500 | | | | |
| 100 | 3750 | 2500 | 5400 | 4500 | 7700 | 4900 | 12500 | 8300 | 17000 | 12500 | | | | |
| 63 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | |
| 40 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | |
| 25 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | |
| ≤ 16 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | |
| $F_{r max.}$ | 3750 | – | 5400 | – | 7700 | – | 13000 | – | 17000 | – | | | | |

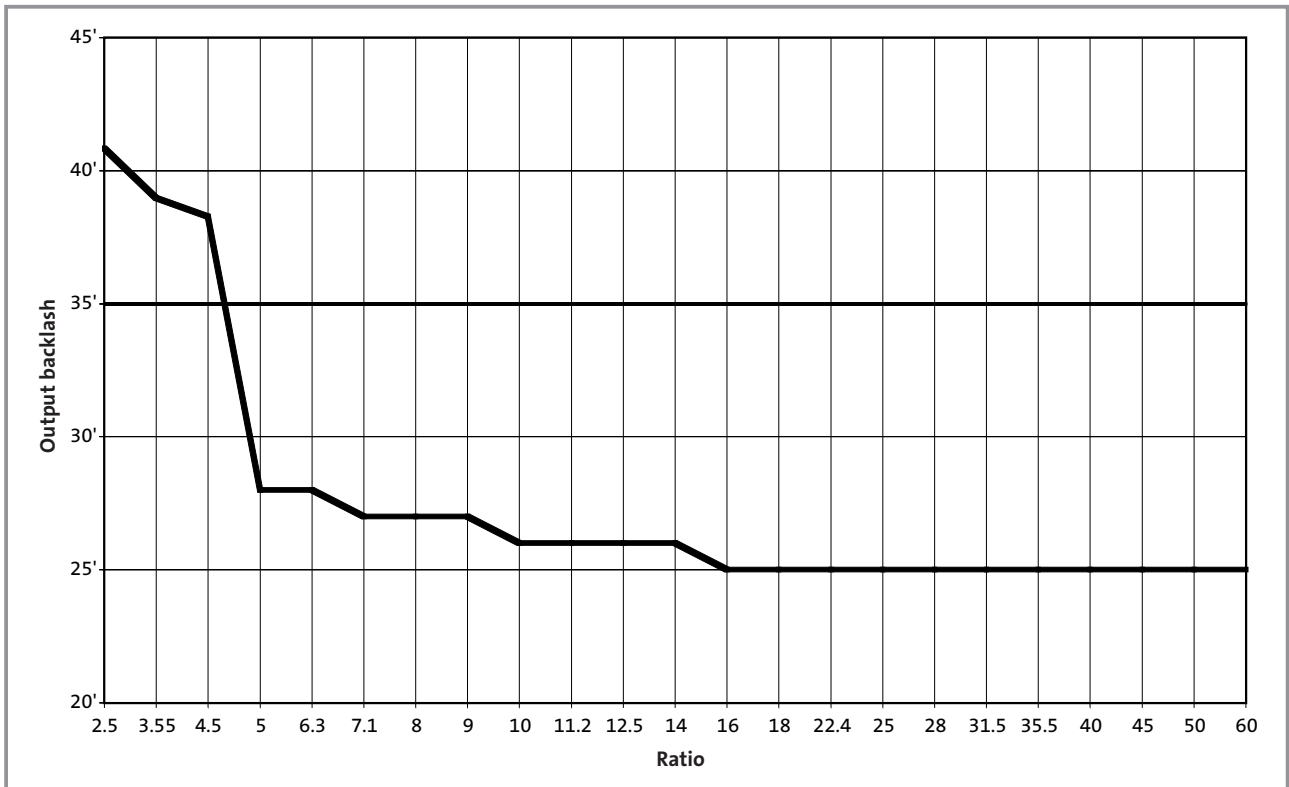
Technical data - Helical gearboxes

Output backlash in angular minutes

GST□□-1



GST 03 - 2

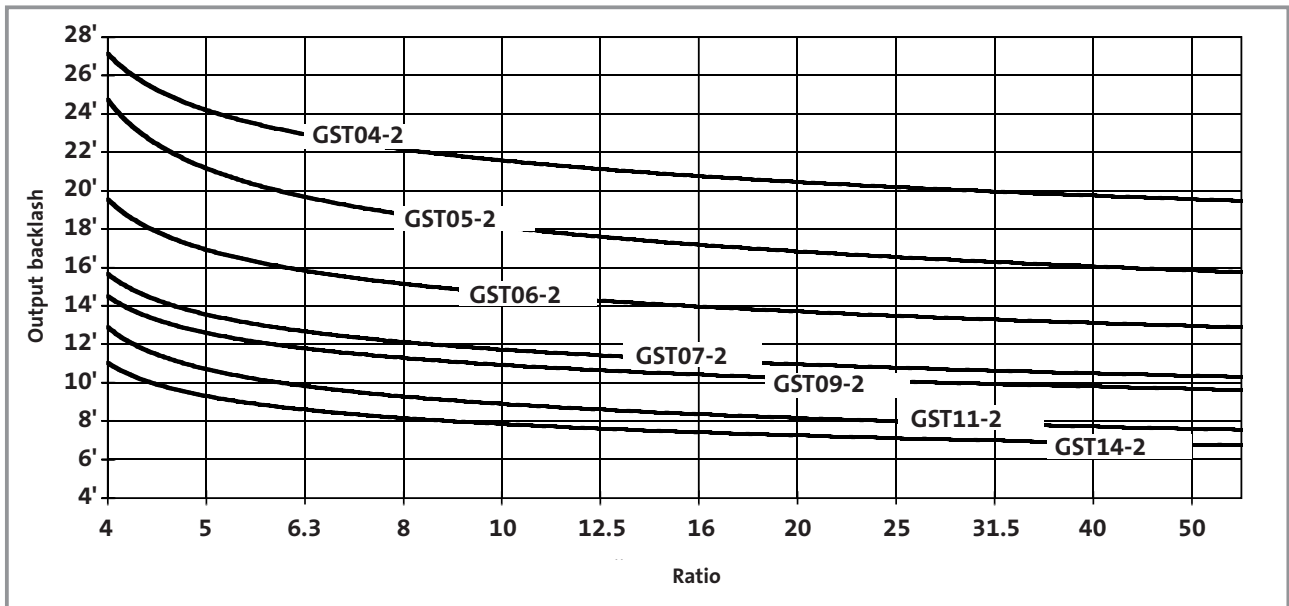


Technical data - Helical gearboxes

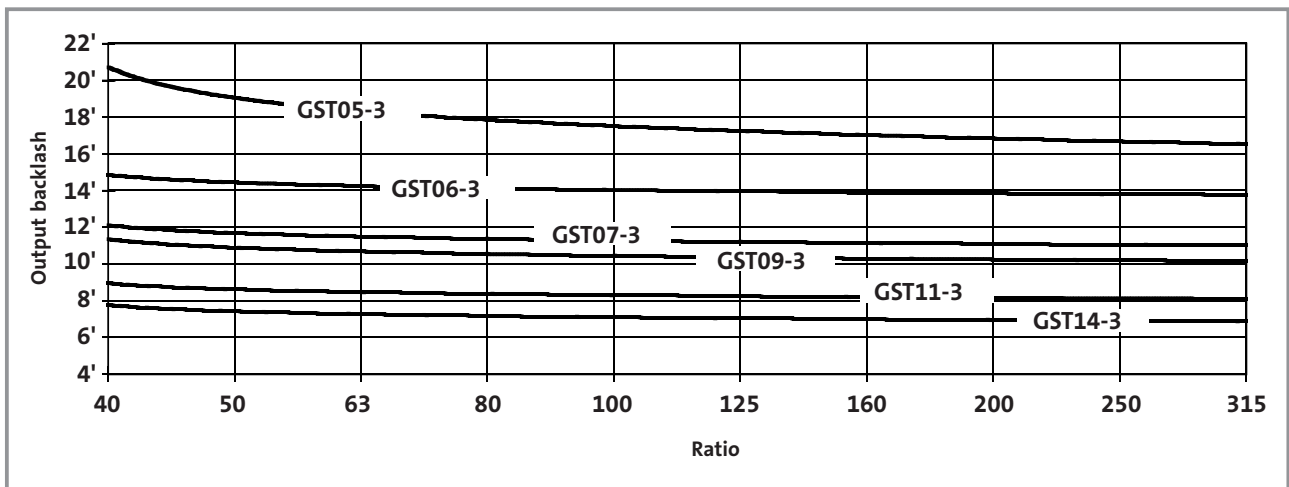
Output backlash in angular minutes



GST 04 ... 14-2

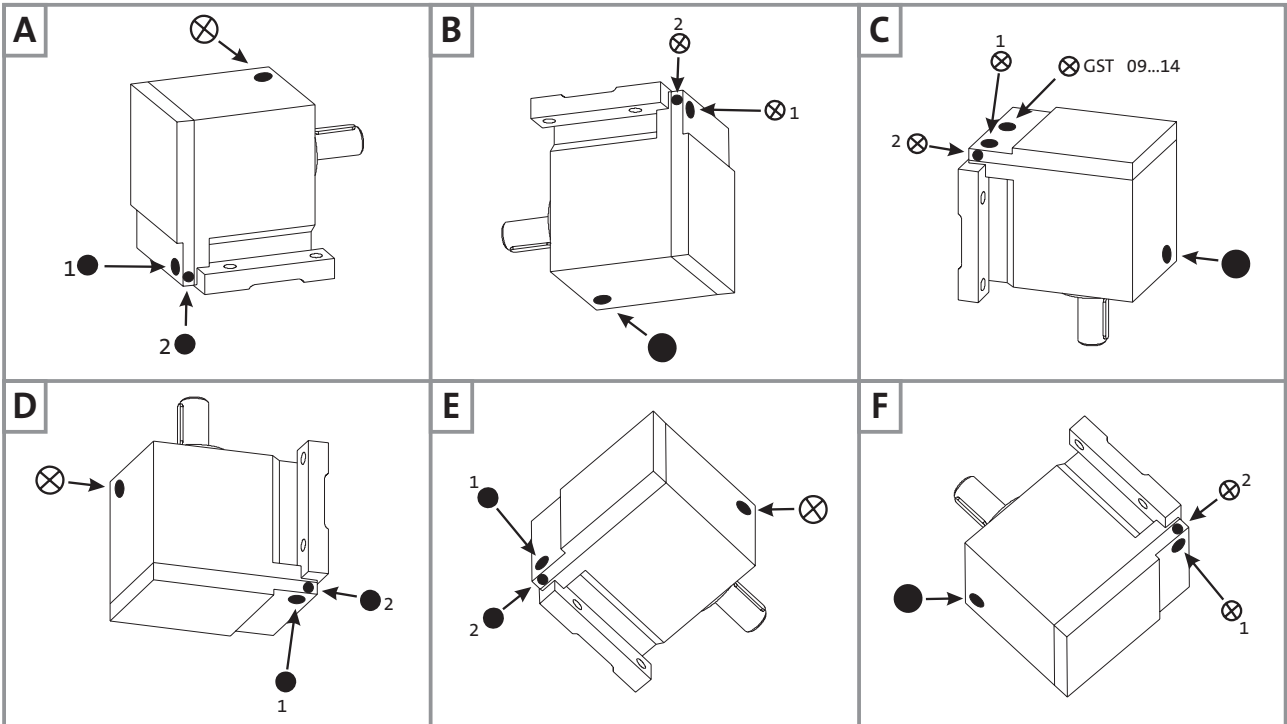


GST□□-3

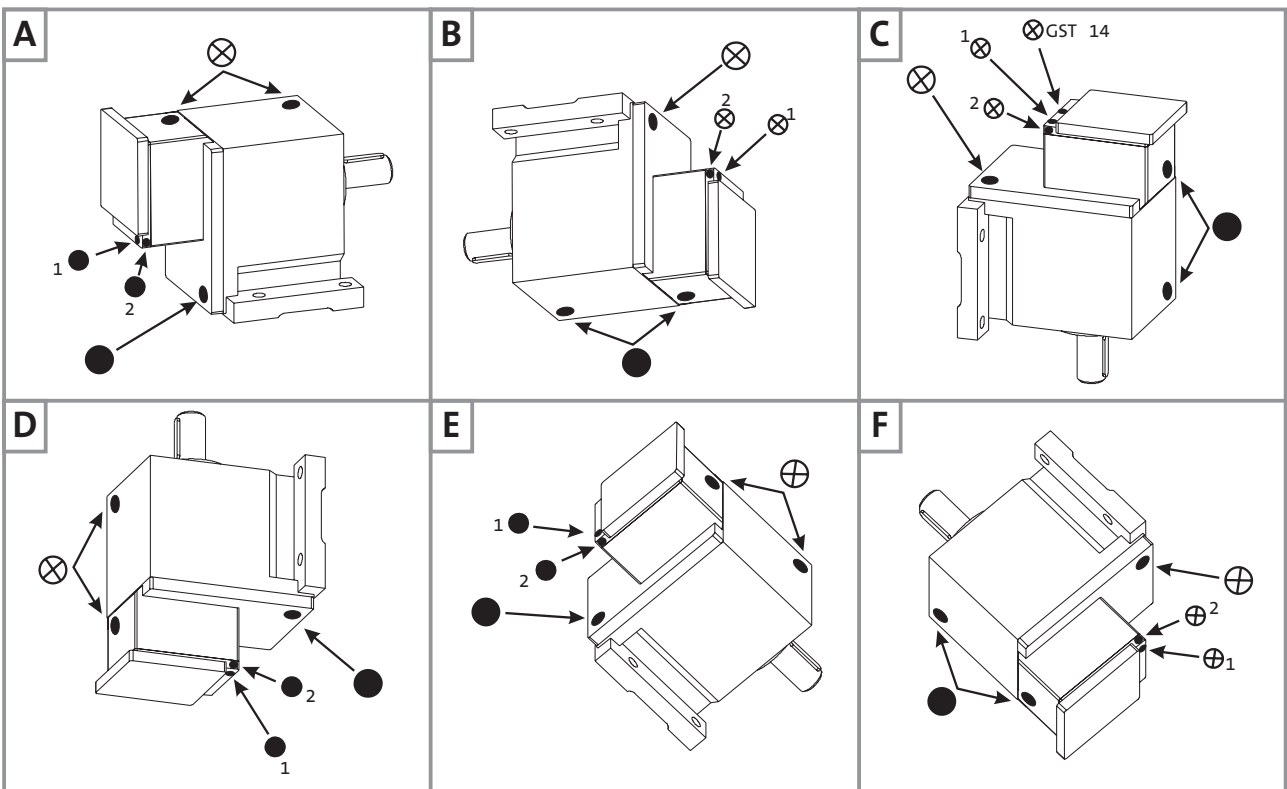


Position of ventilation, oil filler plug and oil drain plug

Helical gearboxes GST 05 ... 09-1 and GST 05 ... 14-2



Helical gearboxes GST 05 ... 14-3



(A ... F) Mounting position
 ⊗ Ventilation/oil filler plug
 ● Oil drain plug

Pos. 1 or 2 depending on version
 (see table on page 3-7)



On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.

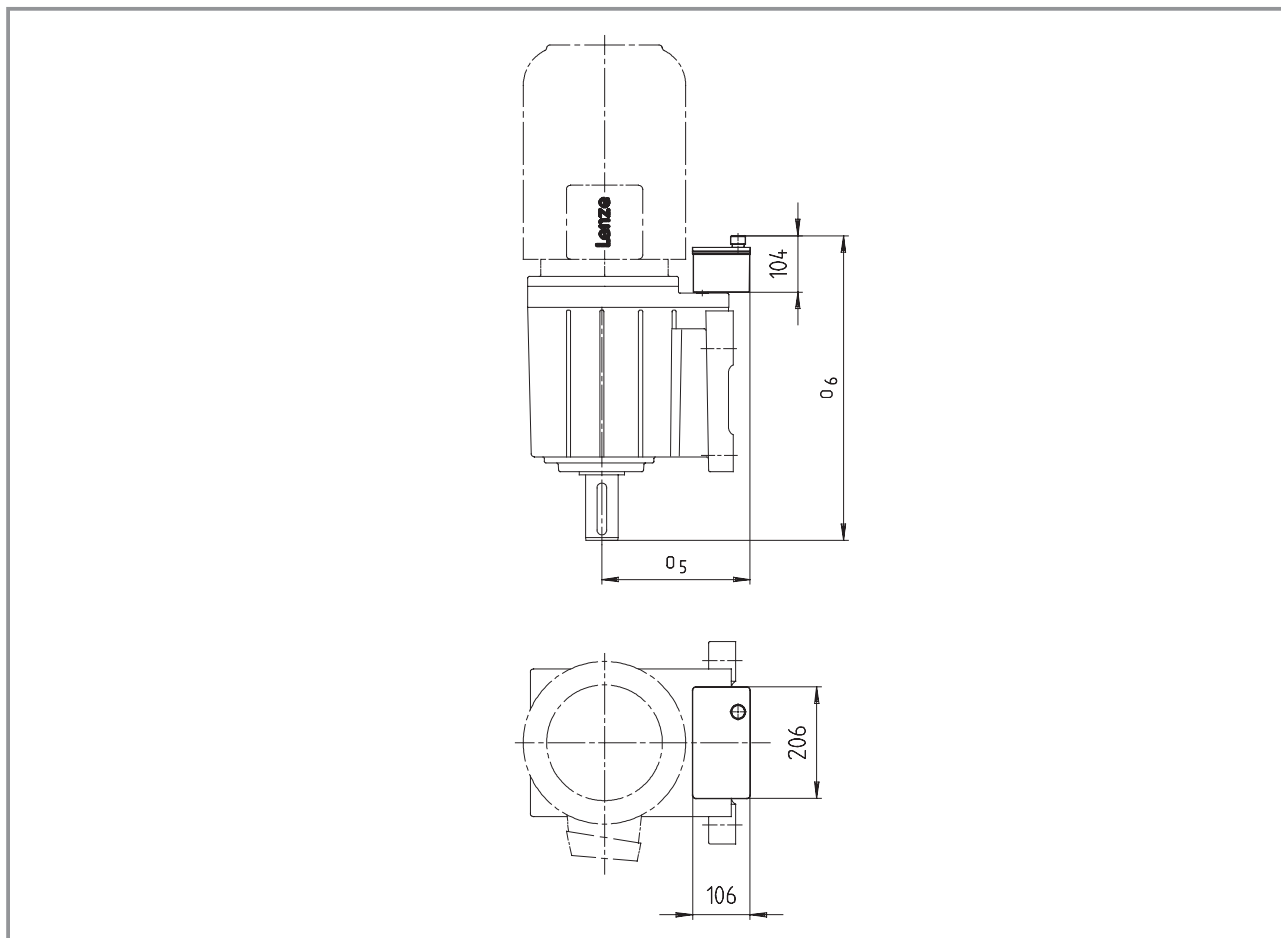
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Helical gearboxes

| | | | | | |
|-----|----|----|---|-----|------------|
| GST | 05 | -1 | E | □□□ | 090 100 |
| | | -2 | E | □□□ | 090 100 |
| | 06 | -1 | E | □□□ | 112 |
| | | -2 | E | □□□ | 112 |
| | 07 | -3 | E | □□□ | 090 100 |
| | 09 | -3 | E | □□□ | 112 |

Reservoir for mounting position C

Helical gearboxes GST



| Helical gearboxes GST □□-2 E | Motor frame size / Drive size | | | |
|---------------------------------|-------------------------------|-----|-----|-----|
| | 090 / 100 | 112 | 132 | |
| 09 | o ₅ | 206 | 226 | 245 |
| | o ₆ | 477 | 477 | 477 |
| 11 | o ₅ | 208 | 230 | 254 |
| | o ₆ | 536 | 540 | 540 |
| 14 | o ₅ | | 252 | 282 |
| | o ₆ | | 640 | 640 |

8200 motec cannot be in position 4.



Helical gearboxes GST □□-1

| Geared motors GST□□-1E VBR | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 04 | 10 | 12 | 13 | 18 | 20 | 26 | | | | | |
| 05 | 14 | 16 | 17 | 22 | 23 | 30 | 37 | 43 | | | |
| 06 | 18 | 20 | 21 | 26 | 27 | 35 | 42 | 47 | 56 | 63 | |
| 07 | | | | 35 | 37 | 44 | 51 | 57 | 65 | 72 | 102 |
| 09 | | | | | | 58 | 65 | 71 | 79 | 86 | 117 |

| Geared motors GST□□-1E VCR | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 04 | 10 | 12 | 13 | 18 | 19 | 26 | | | | | |
| 05 | 13 | 15 | 16 | 21 | 22 | 29 | 36 | 42 | | | |
| 06 | 16 | 18 | 19 | 24 | 25 | 33 | 40 | 46 | 54 | 61 | |
| 07 | | | | 32 | 33 | 41 | 48 | 53 | 62 | 69 | 99 |
| 09 | | | | | | 54 | 61 | 67 | 75 | 82 | 112 |

Helical gearboxes GST □□-2

| Geared motors GST□□-2E VAR VBR | Motor frame size | | | | | | | | | | |
|--------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 03 | 8 | 10 | 11 | | | | | | | | |
| 04 | 12 | 14 | 15 | 20 | 22 | 28 | | | | | |
| 05 | 17 | 20 | 21 | 25 | 26 | 33 | 40 | 46 | | | |
| 06 | 25 | 27 | 28 | 32 | 33 | 41 | 48 | 54 | 62 | 69 | |
| 07 | | | | 47 | 49 | 56 | 63 | 69 | 77 | 84 | 114 |
| 09 | | | | | | 83 | 90 | 96 | 104 | 111 | 141 |
| 11 | | | | | | | 136 | 142 | 149 | 156 | 186 |
| 14 | | | | | | | | | 241 | 248 | 275 |

| Geared motors GST□□-2E VCR | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 03 | 8 | 10 | 11 | | | | | | | | |
| 04 | 11 | 14 | 15 | 20 | 21 | 27 | | | | | |
| 05 | 16 | 18 | 19 | 24 | 25 | 32 | 39 | 45 | | | |
| 06 | 22 | 24 | 25 | 29 | 31 | 38 | 45 | 51 | 60 | 67 | |
| 07 | | | | 43 | 44 | 51 | 58 | 64 | 73 | 80 | 109 |
| 09 | | | | | | 74 | 81 | 87 | 95 | 102 | 133 |
| 11 | | | | | | | 121 | 127 | 134 | 141 | 171 |
| 14 | | | | | | | | | 213 | 220 | 247 |

Note the additional weights on page 3-10.
Weights in [kg] with oil capacity for mounting position A. All data is approximate

Helical gearboxes GST □□-3

| Geared motors GST□□-3E VAR VBR | Motor frame size | | | | | | | | | | |
|--------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 05 | 18 | 20 | 21 | 26 | 28 | | | | | | |
| 06 | 28 | 30 | 31 | 36 | 38 | 44 | | | | | |
| 07 | 48 | 50 | 51 | 55 | 57 | 64 | 71 | 77 | | | |
| 09 | 80 | 82 | 83 | 87 | 89 | 96 | 103 | 109 | 117 | 124 | |
| 11 | | | | 142 | 143 | 150 | 157 | 163 | 172 | 179 | 208 |
| 14 | | | | | | 256 | 263 | 269 | 277 | 284 | 315 |

| Geared motors GST□□-3E VCR | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 05 | 17 | 19 | 20 | 25 | 26 | | | | | | |
| 06 | 25 | 28 | 29 | 34 | 35 | 41 | | | | | |
| 07 | 43 | 45 | 46 | 51 | 52 | 59 | 66 | 72 | | | |
| 09 | 71 | 73 | 74 | 79 | 80 | 88 | 95 | 100 | 109 | 116 | |
| 11 | | | | 127 | 128 | 135 | 142 | 148 | 157 | 164 | 193 |
| 14 | | | | | | 228 | 235 | 241 | 249 | 256 | 287 |

Additional weights

| Gearbox size | Flange □□K / □□L |
|--------------|---------------------|
| 03 | 0.8 |
| 04 | 1.0 |
| 05 | 1.5 |
| 06 | 3.0 |
| 07 | 4.0 |
| 09 | 7.0 |
| 11 | 10.5 |
| 14 | 15.5 |

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|------|-----|---------|-----------------------|--------------|
| 64 | 2 | 184 | 1.6 | 254 | 636 | 2 | 5.4 | 1107 | 1 | 2.240 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 50 | 2 | 145 | 2 | 200 | 499 | 2 | 5.0 | 868 | 1.3 | 2.857 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 32 | 4 | 94 | 3.1 | 130 | 324 | 4 | 5.5 | 564 | 2 | 4.400 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 25 | 5 | 73 | 4 | 101 | 252 | 5 | 4.6 | 438 | 2.6 | 5.667 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 20 | 6 | 58 | 5.1 | 79 | 198 | 6 | 4.0 | 345 | 3.3 | 7.182 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 16 | 7 | 46 | 6.3 | 63 | 158 | 7 | 3.3 | 276 | 4.1 | 9.000 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| 12 | 9 | 35 | 8.4 | 48 | 120 | 9 | 1.7 | 209 | 5.4 | 11.857 | GST04 - 1E □□□ 063C12 | E82MV 251_2B |
| | | | | | | | | | | | | |
| 22 | 5 | 65 | 4.4 | 89 | 223 | 5 | 5.4 | 387 | 2.9 | 6.400 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 20 | 5 | 59 | 4.8 | 82 | 204 | 5 | 5.4 | 355 | 3.1 | 6.982 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 18 | 6 | 53 | 5.4 | 73 | 182 | 6 | 5.2 | 316 | 3.5 | 7.840 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 16 | 7 | 46 | 6.2 | 64 | 160 | 7 | 4.7 | 278 | 4 | 8.935 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 14 | 8 | 41 | 7 | 57 | 142 | 8 | 4.4 | 247 | 4.5 | 10.033 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 12 | 9 | 36 | 7.9 | 50 | 125 | 9 | 4.0 | 217 | 5.1 | 11.429 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 11 | 10 | 32 | 8.9 | 44 | 111 | 10 | 3.8 | 193 | 5.8 | 12.833 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 9.6 | 12 | 28 | 10.3 | 38 | 96 | 12 | 3.4 | 167 | 6.7 | 14.836 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 8.6 | 13 | 25 | 11.6 | 34 | 86 | 13 | 3.2 | 149 | 7.5 | 16.660 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 7.5 | 15 | 22 | 13.2 | 30 | 75 | 15 | 2.8 | 130 | 8.5 | 19.013 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 7.4 | 15 | 21 | 13.4 | 29 | 74 | 15 | 4.7 | 128 | 8.7 | 19.360 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 6.7 | 17 | 19 | 14.8 | 27 | 67 | 17 | 2.7 | 116 | 9.6 | 21.350 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 5.8 | 19 | 17 | 17 | 23 | 58 | 19 | 2.3 | 101 | 11 | 24.595 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 5.2 | 22 | 15 | 19 | 21 | 52 | 22 | 2.1 | 90 | 12 | 27.618 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 5.0 | 22 | 15 | 20 | 20 | 50 | 22 | 2.9 | 88 | 13 | 28.333 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.5 | 25 | 13 | 22 | 18 | 45 | 25 | 1.8 | 77 | 14 | 32.000 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.5 | 25 | 13 | 22 | 18 | 45 | 25 | 2.9 | 78 | 14 | 31.600 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.0 | 28 | 12 | 25 | 16 | 40 | 28 | 1.6 | 69 | 16 | 35.933 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.0 | 28 | 12 | 25 | 16 | 40 | 28 | 2.3 | 69 | 16 | 35.909 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.4 | 32 | 10 | 29 | 14 | 34 | 32 | 1.4 | 60 | 19 | 41.455 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.6 | 31 | 10 | 27 | 14 | 36 | 31 | 2.4 | 63 | 18 | 39.600 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.1 | 36 | 8.9 | 32 | 12 | 31 | 36 | 1.2 | 53 | 21 | 46.550 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.2 | 35 | 9.2 | 31 | 13 | 32 | 35 | 1.9 | 55 | 20 | 45.000 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.7 | 41 | 7.8 | 37 | 11 | 27 | 41 | 1.1 | 47 | 24 | 52.909 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.7 | 41 | 7.9 | 36 | 11 | 27 | 41 | 1.7 | 48 | 23 | 52.171 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.4 | 46 | 7 | 41 | 9.6 | 24 | 46 | 1.0 | 42 | 27 | 59.413 | GST03 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.4 | 46 | 7 | 41 | 9.6 | 24 | 46 | 1.4 | 42 | 27 | 59.286 | GST04 - 2E □□□ 063C12 | E82MV 251_2B |
| | | | | | | | | | | | | |
| 2.3 | 49 | 6.5 | 43 | 9.0 | 23 | 49 | 3.0 | 39 | 28 | 63.467 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 2.0 | 55 | 5.8 | 49 | 8.0 | 20 | 55 | 3.1 | 35 | 31 | 71.238 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.8 | 62 | 5.1 | 55 | 7.0 | 18 | 62 | 2.4 | 31 | 36 | 80.952 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.6 | 71 | 4.5 | 63 | 6.2 | 16 | 71 | 2.4 | 27 | 41 | 91.746 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.2 | 89 | 3.6 | 80 | 4.9 | 12 | 89 | 1.9 | 21 | 51 | 116.277 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | | |

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|---------|-----------------------|--------------|
| 1.1 | 96 | 3.3 | 85 | 4.6 | 11 | 96 | 1.6 | 20 | 55 | 124.667 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.0 | 112 | 2.8 | 100 | 3.9 | 9.8 | 112 | 1.5 | 17 | 64 | 145.714 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.9 | 123 | 2.6 | 110 | 3.6 | 8.9 | 123 | 1.2 | 15 | 71 | 160.556 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.9 | 123 | 2.6 | 110 | 3.6 | 8.9 | 123 | 2.8 | 15 | 71 | 160.556 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.8 | 138 | 2.3 | 122 | 3.2 | 8.0 | 138 | 1.2 | 14 | 79 | 179.067 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.8 | 138 | 2.3 | 122 | 3.2 | 8.0 | 138 | 2.7 | 14 | 79 | 179.067 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.7 | 148 | 2.2 | 131 | 3.0 | 7.4 | 148 | 1.2 | 13 | 85 | 191.973 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.7 | 156 | 2 | 139 | 2.8 | 7.0 | 156 | 2.2 | 12 | 90 | 203.485 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 173 | 1.8 | 153 | 2.5 | 6.4 | 173 | 1.0 | 11 | 99 | 224.400 | GST05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 178 | 1.8 | 158 | 2.5 | 6.2 | 178 | 2.1 | 11 | 102 | 231.733 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 196 | 1.6 | 174 | 2.2 | 5.6 | 196 | 1.8 | 10 | 113 | 255.000 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 223 | 1.4 | 199 | 2.0 | 4.9 | 223 | 1.7 | 9 | 128 | 290.400 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 254 | 1.3 | 226 | 1.7 | 4.3 | 254 | 1.4 | 8 | 146 | 330.000 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 294 | 1.1 | 262 | 1.5 | 3.7 | 294 | 1.3 | 6 | 169 | 382.590 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 334 | 1 | 297 | 1.3 | 3.3 | 334 | 1.1 | 6 | 192 | 434.762 | GST06 - 3E □□□ 063C12 | E82MV 251_2B |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|------|-----|--------|-----------------------|--------------|
| 61 | 3 | 177 | 2.5 | 244 | 609 | 3 | 3.4 | 1060 | 1.6 | 2.240 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 48 | 4 | 139 | 3.2 | 191 | 478 | 4 | 3.2 | 831 | 2 | 2.857 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 31 | 6 | 90 | 4.9 | 124 | 310 | 6 | 3.5 | 540 | 3.1 | 4.400 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 24 | 7 | 70 | 6.3 | 96 | 241 | 7 | 2.9 | 419 | 4 | 5.667 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 19 | 9 | 55 | 7.9 | 76 | 190 | 9 | 2.6 | 331 | 5.1 | 7.182 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 15 | 11 | 44 | 9.9 | 61 | 152 | 11 | 2.1 | 264 | 6.4 | 9.000 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 12 | 15 | 33 | 13.1 | 46 | 115 | 15 | 1.1 | 200 | 8.5 | 11.857 | GST04 - 1E □□□ 063C32 | E82MV 251_2B |
| 53 | 3 | 152 | 2.8 | 210 | 526 | 3 | 5.7 | 915 | 1.8 | 2.597 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 40 | 4 | 116 | 3.7 | 160 | 400 | 4 | 4.6 | 696 | 2.4 | 3.413 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 31 | 5 | 91 | 4.7 | 125 | 313 | 5 | 3.9 | 544 | 3.1 | 4.368 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 26 | 7 | 75 | 5.8 | 103 | 257 | 7 | 4.1 | 447 | 3.7 | 5.312 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 23 | 7 | 66 | 6.5 | 92 | 229 | 7 | 3.9 | 398 | 4.2 | 5.965 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 20 | 9 | 57 | 7.6 | 78 | 196 | 9 | 3.5 | 340 | 4.9 | 6.982 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 17 | 10 | 50 | 8.5 | 70 | 174 | 10 | 3.3 | 303 | 5.5 | 7.840 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 15 | 11 | 44 | 9.7 | 61 | 153 | 11 | 3.0 | 266 | 6.3 | 8.935 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 14 | 12 | 39 | 10.9 | 54 | 136 | 12 | 2.8 | 237 | 7 | 10.033 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 12 | 14 | 35 | 12.4 | 48 | 119 | 14 | 2.5 | 208 | 8 | 11.429 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 11 | 16 | 31 | 14 | 43 | 106 | 16 | 2.4 | 185 | 9 | 12.833 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 11 | 15 | 31 | 13.7 | 43 | 109 | 15 | 3.2 | 189 | 8.8 | 12.571 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 9.2 | 18 | 27 | 16 | 37 | 92 | 18 | 2.2 | 160 | 10 | 14.836 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 9.6 | 18 | 28 | 16 | 38 | 96 | 18 | 3.2 | 166 | 10 | 14.286 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 8.2 | 20 | 24 | 18 | 33 | 82 | 20 | 2.0 | 143 | 12 | 16.660 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 7.2 | 23 | 21 | 21 | 29 | 72 | 23 | 1.8 | 125 | 13 | 19.013 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 7.1 | 24 | 20 | 21 | 28 | 71 | 24 | 3.0 | 123 | 14 | 19.360 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.4 | 26 | 19 | 23 | 26 | 64 | 26 | 1.7 | 111 | 15 | 21.350 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.2 | 27 | 18 | 24 | 25 | 62 | 27 | 2.3 | 108 | 15 | 22.000 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 5.6 | 30 | 16 | 27 | 22 | 56 | 30 | 1.5 | 97 | 17 | 24.595 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 5.5 | 31 | 16 | 27 | 22 | 55 | 31 | 2.3 | 95 | 18 | 24.933 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.9 | 34 | 14 | 30 | 20 | 49 | 34 | 1.3 | 86 | 19 | 27.618 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.8 | 35 | 14 | 31 | 19 | 48 | 35 | 1.8 | 84 | 20 | 28.333 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.3 | 39 | 12 | 35 | 17 | 43 | 39 | 1.2 | 74 | 22 | 32.000 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.3 | 39 | 13 | 34 | 17 | 43 | 39 | 1.9 | 75 | 22 | 31.600 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.8 | 44 | 11 | 39 | 15 | 38 | 44 | 1.0 | 66 | 25 | 35.933 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.8 | 44 | 11 | 39 | 15 | 38 | 44 | 1.5 | 66 | 25 | 35.909 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.3 | 51 | 9.5 | 45 | 13 | 33 | 51 | 0.9 | 57 | 29 | 41.455 | GST03 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.5 | 48 | 10 | 43 | 14 | 35 | 48 | 1.5 | 60 | 28 | 39.600 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.0 | 55 | 8.8 | 49 | 12 | 30 | 55 | 1.2 | 53 | 32 | 45.000 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.6 | 64 | 7.6 | 57 | 10 | 26 | 64 | 1.1 | 46 | 37 | 52.171 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.3 | 72 | 6.7 | 64 | 9.2 | 23 | 72 | 0.9 | 40 | 42 | 59.286 | GST04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.2 | 76 | 6.2 | 68 | 8.6 | 22 | 76 | 1.9 | 37 | 44 | 63.467 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.9 | 86 | 5.6 | 76 | 7.7 | 19 | 86 | 2.0 | 33 | 49 | 71.238 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.7 | 97 | 4.9 | 87 | 6.8 | 17 | 97 | 1.5 | 29 | 56 | 80.952 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.7 | 97 | 4.9 | 87 | 6.8 | 17 | 97 | 3.2 | 29 | 56 | 80.952 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.5 | 110 | 4.3 | 98 | 6.0 | 15 | 110 | 1.5 | 26 | 63 | 91.746 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 140 | 3.4 | 125 | 4.7 | 12 | 140 | 1.2 | 20 | 80 | 116.277 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 132 | 3.6 | 118 | 5.0 | 12 | 132 | 2.8 | 22 | 76 | 109.707 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.1 | 150 | 3.2 | 134 | 4.4 | 11 | 150 | 1.0 | 19 | 86 | 124.667 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.1 | 150 | 3.2 | 134 | 4.4 | 11 | 150 | 2.3 | 19 | 86 | 124.667 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.9 | 175 | 2.7 | 156 | 3.7 | 9.4 | 175 | 1.0 | 16 | 101 | 145.714 | GST05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.0 | 170 | 2.8 | 151 | 3.9 | 9.7 | 170 | 2.2 | 17 | 98 | 141.289 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.9 | 193 | 2.5 | 172 | 3.4 | 8.5 | 193 | 1.8 | 15 | 111 | 160.556 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 216 | 2.2 | 192 | 3.0 | 7.6 | 216 | 1.7 | 13 | 124 | 179.067 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 245 | 1.9 | 218 | 2.7 | 6.7 | 245 | 1.4 | 12 | 141 | 203.485 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 279 | 1.7 | 248 | 2.4 | 5.9 | 279 | 1.3 | 10 | 160 | 231.733 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 307 | 1.6 | 273 | 2.1 | 5.4 | 307 | 1.1 | 9 | 176 | 255.000 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 350 | 1.4 | 311 | 1.9 | 4.7 | 350 | 1.1 | 8 | 201 | 290.400 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 397 | 1.2 | 353 | 1.7 | 4.1 | 397 | 0.9 | 7 | 228 | 330.000 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 460 | 1 | 410 | 1.4 | 3.6 | 460 | 0.8 | 6 | 265 | 382.590 | GST06 - 3E □□□ 063C32 | E82MV 251_2B |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|----|---|-----|-----|-----|-----|---|-----|------|-----|-------|-----------------------|--------------|
| 86 | 3 | 248 | 2.4 | 343 | 856 | 3 | 4.5 | 1490 | 1.6 | 1.600 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 67 | 4 | 194 | 3.1 | 268 | 669 | 4 | 5.2 | 1164 | 2 | 2.048 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 61 | 4 | 177 | 3.4 | 245 | 612 | 4 | 4.5 | 1064 | 2.2 | 2.240 | GST05 - 1E □□□ 063C42 | E82MV 251_2B |
| 48 | 5 | 139 | 4.4 | 192 | 480 | 5 | 4.8 | 834 | 2.8 | 2.857 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 39 | 6 | 114 | 5.3 | 157 | 391 | 6 | 4.2 | 681 | 3.5 | 3.500 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 31 | 8 | 90 | 6.7 | 125 | 311 | 8 | 3.3 | 542 | 4.3 | 4.400 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 24 | 10 | 70 | 8.7 | 97 | 242 | 10 | 2.6 | 421 | 5.6 | 5.667 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 19 | 12 | 55 | 11 | 76 | 191 | 12 | 2.0 | 332 | 7.1 | 7.182 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 44 | 13.7 | 61 | 152 | 15 | 1.2 | 265 | 8.9 | 9.000 | GST04 - 1E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 45 | 13.6 | 62 | 154 | 15 | 2.8 | 268 | 8.8 | 8.900 | GST05 - 1E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 45 | 13.6 | 62 | 154 | 15 | 3.2 | 268 | 8.8 | 8.900 | GST06 - 1E □□□ 063C42 | E82MV 251_2B |
| 12 | 20 | 35 | 17 | 48 | 120 | 20 | 1.4 | 210 | 11 | 11.375 | GST05 - 1E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 35 | 17 | 49 | 122 | 19 | 2.6 | 212 | 11 | 11.250 | GST06 - 1E □□□ 063C42 | E82MV 251_2B |
| 53 | 4 | 153 | 3.9 | 211 | 528 | 4 | 4.1 | 918 | 2.5 | 2.597 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 46 | 5 | 134 | 4.4 | 185 | 464 | 5 | 4.5 | 807 | 2.9 | 2.956 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 40 | 6 | 116 | 5.1 | 161 | 401 | 6 | 3.3 | 698 | 3.3 | 3.413 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 34 | 7 | 98 | 6.1 | 135 | 338 | 7 | 4.5 | 588 | 3.9 | 4.053 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 31 | 7 | 91 | 6.6 | 125 | 314 | 7 | 2.8 | 546 | 4.2 | 4.368 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 26 | 9 | 75 | 8 | 103 | 258 | 9 | 3.0 | 449 | 5.2 | 5.312 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 23 | 10 | 68 | 8.8 | 94 | 234 | 10 | 5.2 | 407 | 5.7 | 5.850 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 23 | 10 | 67 | 9 | 92 | 230 | 10 | 2.8 | 400 | 5.8 | 5.965 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 20 | 12 | 57 | 10.5 | 78 | 196 | 12 | 2.5 | 341 | 6.8 | 6.982 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 17 | 13 | 51 | 11.8 | 70 | 175 | 13 | 2.4 | 304 | 7.6 | 7.840 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 44 | 13.4 | 61 | 153 | 15 | 2.2 | 267 | 8.7 | 8.935 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 14 | 17 | 40 | 15.1 | 55 | 137 | 17 | 2.0 | 238 | 9.7 | 10.033 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 35 | 17 | 48 | 120 | 19 | 1.8 | 209 | 11 | 11.429 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 35 | 17 | 49 | 122 | 19 | 3.2 | 213 | 11 | 11.200 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 11 | 22 | 31 | 19 | 43 | 107 | 22 | 1.7 | 186 | 12 | 12.833 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 11 | 21 | 32 | 19 | 44 | 109 | 21 | 3.3 | 190 | 12 | 12.571 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.2 | 25 | 27 | 22 | 37 | 92 | 25 | 1.6 | 161 | 14 | 14.836 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.6 | 24 | 28 | 21 | 38 | 96 | 24 | 2.5 | 167 | 14 | 14.286 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 8.2 | 28 | 24 | 25 | 33 | 82 | 28 | 1.5 | 143 | 16 | 16.660 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 8.9 | 26 | 26 | 23 | 36 | 89 | 26 | 2.7 | 155 | 15 | 15.400 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.2 | 32 | 21 | 29 | 29 | 72 | 32 | 1.3 | 125 | 18 | 19.013 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.8 | 30 | 23 | 26 | 31 | 78 | 30 | 2.1 | 136 | 17 | 17.500 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.1 | 33 | 21 | 29 | 28 | 71 | 33 | 2.1 | 123 | 19 | 19.360 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.4 | 36 | 19 | 32 | 26 | 64 | 36 | 1.2 | 112 | 21 | 21.350 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.2 | 37 | 18 | 33 | 25 | 62 | 37 | 1.7 | 108 | 21 | 22.000 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.6 | 42 | 16 | 37 | 22 | 56 | 42 | 1.1 | 97 | 24 | 24.595 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.5 | 42 | 16 | 38 | 22 | 55 | 42 | 1.7 | 96 | 24 | 24.933 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.0 | 47 | 14 | 42 | 20 | 50 | 47 | 1.0 | 86 | 27 | 27.618 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.8 | 48 | 14 | 43 | 19 | 48 | 48 | 1.3 | 84 | 28 | 28.333 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.8 | 48 | 14 | 43 | 19 | 48 | 48 | 3.1 | 84 | 28 | 28.333 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 54 | 12 | 48 | 17 | 43 | 54 | 0.8 | 74 | 31 | 32.000 | GST03 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 53 | 13 | 48 | 17 | 43 | 53 | 1.4 | 75 | 31 | 31.600 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 55 | 12 | 49 | 17 | 43 | 55 | 3.0 | 74 | 31 | 32.267 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.8 | 61 | 11 | 54 | 15 | 38 | 61 | 1.1 | 66 | 35 | 35.909 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.7 | 62 | 11 | 55 | 15 | 37 | 62 | 2.4 | 65 | 36 | 36.667 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 3-40 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|---------|-----------------------|--------------|
| 3.5 | 67 | 10 | 60 | 14 | 35 | 67 | 1.1 | 60 | 38 | 39.600 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.5 | 66 | 10 | 59 | 14 | 35 | 66 | 2.5 | 61 | 38 | 39.160 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.5 | 66 | 10 | 59 | 14 | 35 | 66 | 3.2 | 61 | 38 | 39.160 | GST06 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.0 | 76 | 8.8 | 68 | 12 | 30 | 76 | 0.9 | 53 | 44 | 45.000 | GST04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.1 | 75 | 8.9 | 67 | 12 | 31 | 75 | 2.0 | 54 | 43 | 44.500 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.1 | 75 | 8.9 | 67 | 12 | 31 | 75 | 3.2 | 54 | 43 | 44.500 | GST06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.7 | 85 | 7.9 | 75 | 11 | 27 | 85 | 1.4 | 48 | 49 | 50.050 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.8 | 84 | 8 | 74 | 11 | 28 | 84 | 2.6 | 48 | 48 | 49.500 | GST06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.4 | 96 | 7 | 86 | 9.6 | 24 | 96 | 1.4 | 42 | 55 | 56.875 | GST05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.4 | 95 | 7.1 | 85 | 9.8 | 24 | 95 | 2.6 | 42 | 55 | 56.250 | GST06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.4 | 94 | 7 | 84 | 9.7 | 24 | 94 | 1.6 | 42 | 54 | 56.667 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.2 | 106 | 6.3 | 94 | 8.6 | 22 | 106 | 1.4 | 38 | 61 | 63.467 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.0 | 113 | 5.9 | 100 | 8.1 | 20 | 113 | 3.2 | 35 | 65 | 67.760 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.9 | 119 | 5.6 | 106 | 7.7 | 19 | 119 | 1.4 | 33 | 68 | 71.238 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.0 | 117 | 5.7 | 104 | 7.8 | 20 | 117 | 3.1 | 34 | 67 | 70.156 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 135 | 4.9 | 120 | 6.8 | 17 | 135 | 1.1 | 29 | 77 | 80.952 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 135 | 4.9 | 120 | 6.8 | 17 | 135 | 2.5 | 29 | 77 | 80.952 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 153 | 4.3 | 136 | 6.0 | 15 | 153 | 1.1 | 26 | 88 | 91.746 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.6 | 145 | 4.6 | 129 | 6.3 | 16 | 145 | 2.5 | 27 | 84 | 87.267 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 165 | 4 | 147 | 5.5 | 14 | 165 | 0.9 | 24 | 95 | 99.167 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 165 | 4 | 147 | 5.5 | 14 | 165 | 2.0 | 24 | 95 | 99.167 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 194 | 3.4 | 172 | 4.7 | 12 | 194 | 0.9 | 21 | 111 | 116.277 | GST05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.3 | 183 | 3.6 | 163 | 5.0 | 13 | 183 | 2.1 | 22 | 105 | 109.707 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 208 | 3.2 | 185 | 4.4 | 11 | 208 | 1.6 | 19 | 119 | 124.667 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 235 | 2.8 | 209 | 3.9 | 9.7 | 235 | 1.6 | 17 | 135 | 141.289 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 232 | 2.9 | 206 | 3.9 | 9.8 | 232 | 3.0 | 17 | 133 | 139.211 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 267 | 2.5 | 238 | 3.4 | 8.5 | 267 | 1.3 | 15 | 154 | 160.556 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 263 | 2.5 | 234 | 3.5 | 8.7 | 263 | 2.7 | 15 | 151 | 158.194 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 298 | 2.2 | 265 | 3.1 | 7.7 | 298 | 1.3 | 13 | 171 | 179.067 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 300 | 2.2 | 267 | 3.0 | 7.6 | 300 | 2.4 | 13 | 172 | 180.156 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 339 | 2 | 302 | 2.7 | 6.7 | 339 | 1.0 | 12 | 195 | 203.485 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 341 | 1.9 | 303 | 2.7 | 6.7 | 341 | 2.1 | 12 | 196 | 204.722 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 386 | 1.7 | 343 | 2.4 | 5.9 | 386 | 1.0 | 10 | 222 | 231.733 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 394 | 1.7 | 351 | 2.3 | 5.8 | 394 | 1.8 | 10 | 226 | 236.622 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 425 | 1.6 | 378 | 2.1 | 5.4 | 425 | 0.8 | 9 | 244 | 255.000 | GST06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 414 | 1.6 | 368 | 2.2 | 5.5 | 414 | 1.7 | 10 | 238 | 248.458 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 420 | 1.6 | 374 | 2.2 | 5.4 | 420 | 3.2 | 9 | 241 | 252.167 | GST09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 448 | 1.5 | 399 | 2.0 | 5.1 | 448 | 1.6 | 9 | 257 | 268.889 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 544 | 1.2 | 484 | 1.7 | 4.2 | 544 | 1.3 | 7 | 312 | 326.333 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 544 | 1.2 | 484 | 1.7 | 4.2 | 544 | 3.0 | 7 | 312 | 326.333 | GST09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 611 | 1.1 | 544 | 1.5 | 3.7 | 611 | 1.2 | 6 | 351 | 367.033 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 605 | 1.1 | 538 | 1.5 | 3.8 | 605 | 2.6 | 7 | 347 | 363.000 | GST09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 695 | 1 | 618 | 1.3 | 3.3 | 695 | 1.0 | 6 | 399 | 417.083 | GST07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 687 | 1 | 611 | 1.3 | 3.3 | 687 | 2.4 | 6 | 395 | 412.500 | GST09 - 3E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|------|-----|--------|-----------------------|--------------|
| 88 | 4 | 256 | 3.5 | 353 | 881 | 4 | 4.0 | 1533 | 2.3 | 1.600 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 69 | 5 | 200 | 4.5 | 275 | 689 | 5 | 4.5 | 1198 | 2.9 | 2.048 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 63 | 6 | 183 | 4.9 | 252 | 630 | 6 | 4.0 | 1095 | 3.2 | 2.240 | GST05 - 1E □□□ 071C32 | E82MV 371_2B |
| 49 | 7 | 143 | 6.3 | 197 | 494 | 7 | 3.5 | 859 | 4.1 | 2.857 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 40 | 9 | 117 | 7.7 | 161 | 403 | 9 | 2.9 | 701 | 5 | 3.500 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 32 | 11 | 93 | 9.7 | 128 | 321 | 11 | 2.3 | 558 | 6.2 | 4.400 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 25 | 14 | 72 | 12.4 | 100 | 249 | 14 | 1.8 | 433 | 8 | 5.667 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 25 | 14 | 72 | 12.4 | 100 | 249 | 14 | 3.2 | 433 | 8 | 5.667 | GST05 - 1E □□□ 071C32 | E82MV 371_2B |
| 20 | 18 | 57 | 16 | 79 | 196 | 18 | 1.4 | 342 | 10 | 7.182 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 19 | 18 | 56 | 16 | 77 | 192 | 18 | 2.6 | 335 | 10 | 7.333 | GST05 - 1E □□□ 071C32 | E82MV 371_2B |
| 19 | 18 | 56 | 16 | 77 | 192 | 18 | 3.2 | 335 | 10 | 7.333 | GST06 - 1E □□□ 071C32 | E82MV 371_2B |
| 16 | 22 | 45 | 20 | 63 | 157 | 22 | 1.0 | 273 | 13 | 9.000 | GST04 - 1E □□□ 071C32 | E82MV 371_2B |
| 16 | 22 | 46 | 20 | 63 | 158 | 22 | 1.9 | 276 | 13 | 8.900 | GST05 - 1E □□□ 071C32 | E82MV 371_2B |
| 16 | 22 | 46 | 20 | 63 | 158 | 22 | 2.8 | 276 | 13 | 8.900 | GST06 - 1E □□□ 071C32 | E82MV 371_2B |
| 12 | 28 | 36 | 25 | 50 | 124 | 28 | 1.1 | 216 | 16 | 11.375 | GST05 - 1E □□□ 071C32 | E82MV 371_2B |
| 13 | 28 | 36 | 25 | 50 | 125 | 28 | 2.2 | 218 | 16 | 11.250 | GST06 - 1E □□□ 071C32 | E82MV 371_2B |
| 54 | 6 | 157 | 5.6 | 217 | 543 | 6 | 2.8 | 945 | 3.6 | 2.597 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 48 | 7 | 138 | 6.4 | 191 | 477 | 7 | 4.0 | 830 | 4.1 | 2.956 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 41 | 8 | 120 | 7.4 | 165 | 413 | 8 | 2.3 | 719 | 4.8 | 3.413 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 32 | 11 | 94 | 9.5 | 129 | 323 | 11 | 2.0 | 562 | 6.1 | 4.368 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 27 | 13 | 77 | 11.5 | 106 | 265 | 13 | 2.1 | 462 | 7.4 | 5.312 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 24 | 15 | 69 | 12.9 | 95 | 236 | 15 | 2.0 | 411 | 8.3 | 5.965 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 20 | 17 | 59 | 15.1 | 81 | 202 | 17 | 1.7 | 351 | 9.8 | 6.982 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 20 | 17 | 58 | 15.2 | 80 | 200 | 17 | 3.3 | 348 | 9.8 | 7.040 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 18 | 19 | 52 | 17 | 72 | 180 | 19 | 1.7 | 313 | 11 | 7.840 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 18 | 19 | 51 | 17 | 71 | 176 | 19 | 3.0 | 307 | 11 | 8.000 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 16 | 22 | 46 | 19 | 63 | 158 | 22 | 1.5 | 275 | 12 | 8.935 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 16 | 22 | 45 | 19 | 63 | 157 | 22 | 2.9 | 272 | 13 | 9.010 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 14 | 24 | 41 | 22 | 56 | 141 | 24 | 1.4 | 245 | 14 | 10.033 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 14 | 24 | 41 | 21 | 57 | 143 | 24 | 2.7 | 249 | 14 | 9.856 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 12 | 28 | 36 | 25 | 49 | 123 | 28 | 1.3 | 215 | 16 | 11.429 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 13 | 27 | 37 | 24 | 50 | 126 | 27 | 2.2 | 219 | 16 | 11.200 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 31 | 32 | 28 | 44 | 110 | 31 | 1.2 | 191 | 18 | 12.833 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 31 | 33 | 27 | 45 | 112 | 31 | 2.3 | 195 | 18 | 12.571 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.5 | 36 | 28 | 32 | 38 | 95 | 36 | 1.1 | 165 | 21 | 14.836 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.9 | 35 | 29 | 31 | 39 | 99 | 35 | 1.8 | 172 | 20 | 14.286 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.8 | 35 | 28 | 31 | 39 | 98 | 35 | 3.2 | 171 | 20 | 14.356 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 8.5 | 41 | 25 | 36 | 34 | 85 | 41 | 1.0 | 147 | 23 | 16.660 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.2 | 37 | 27 | 33 | 37 | 92 | 37 | 1.9 | 159 | 22 | 15.400 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 8.7 | 39 | 25 | 35 | 35 | 87 | 39 | 3.2 | 152 | 23 | 16.190 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 7.4 | 46 | 22 | 41 | 30 | 74 | 46 | 0.9 | 129 | 27 | 19.013 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 8.1 | 43 | 23 | 38 | 32 | 81 | 43 | 1.5 | 140 | 24 | 17.500 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 7.3 | 47 | 21 | 42 | 29 | 73 | 47 | 1.5 | 127 | 27 | 19.360 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.6 | 52 | 19 | 46 | 26 | 66 | 52 | 0.9 | 115 | 30 | 21.350 | GST03 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.4 | 54 | 19 | 48 | 26 | 64 | 54 | 1.2 | 112 | 31 | 22.000 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.2 | 55 | 18 | 49 | 25 | 62 | 55 | 2.6 | 108 | 32 | 22.778 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|------|------|-----|-----|----|-----|---------|-----------------------|--------------|
| 5.7 | 61 | 16 | 54 | 23 | 57 | 61 | 1.2 | 98 | 35 | 24.933 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.7 | 61 | 16 | 54 | 23 | 57 | 61 | 2.7 | 98 | 35 | 24.933 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.0 | 69 | 14 | 61 | 20 | 50 | 69 | 0.9 | 87 | 40 | 28.333 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.0 | 69 | 14 | 61 | 20 | 50 | 69 | 2.1 | 87 | 40 | 28.333 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.5 | 77 | 13 | 68 | 18 | 45 | 77 | 0.9 | 78 | 44 | 31.600 | GST04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.4 | 78 | 13 | 70 | 17 | 44 | 78 | 2.1 | 76 | 45 | 32.267 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.4 | 78 | 13 | 70 | 17 | 44 | 78 | 3.2 | 76 | 45 | 32.267 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.9 | 89 | 11 | 79 | 15 | 39 | 89 | 1.7 | 67 | 51 | 36.667 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.9 | 89 | 11 | 79 | 15 | 39 | 89 | 3.2 | 67 | 51 | 36.667 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.6 | 95 | 10 | 85 | 14 | 36 | 95 | 1.7 | 63 | 55 | 39.160 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.6 | 95 | 10 | 85 | 14 | 36 | 95 | 2.8 | 63 | 55 | 39.160 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.2 | 108 | 9.2 | 96 | 13 | 32 | 108 | 1.4 | 55 | 62 | 44.500 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.2 | 108 | 9.2 | 96 | 13 | 32 | 108 | 2.8 | 55 | 62 | 44.500 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.8 | 122 | 8.2 | 108 | 11 | 28 | 122 | 1.1 | 49 | 70 | 50.050 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.9 | 120 | 8.3 | 107 | 11 | 29 | 120 | 2.2 | 50 | 69 | 49.500 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.5 | 138 | 7.2 | 123 | 9.9 | 25 | 138 | 1.1 | 43 | 79 | 56.875 | GST05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.5 | 137 | 7.3 | 122 | 10 | 25 | 137 | 2.2 | 44 | 79 | 56.250 | GST06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.5 | 136 | 7.2 | 121 | 10.0 | 25 | 136 | 1.1 | 43 | 78 | 56.667 | GST05 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.2 | 152 | 6.4 | 135 | 8.9 | 22 | 152 | 1.0 | 39 | 87 | 63.467 | GST05 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.1 | 162 | 6 | 144 | 8.3 | 21 | 162 | 2.2 | 36 | 93 | 67.760 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 171 | 5.7 | 152 | 7.9 | 20 | 171 | 1.0 | 34 | 98 | 71.238 | GST05 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 168 | 5.8 | 150 | 8.0 | 20 | 168 | 2.1 | 35 | 97 | 70.156 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.7 | 194 | 5.1 | 173 | 7.0 | 17 | 194 | 1.7 | 30 | 111 | 80.952 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.6 | 209 | 4.7 | 186 | 6.5 | 16 | 209 | 1.8 | 28 | 120 | 87.267 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.4 | 238 | 4.1 | 211 | 5.7 | 14 | 238 | 1.4 | 25 | 136 | 99.167 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.3 | 263 | 3.7 | 234 | 5.2 | 13 | 263 | 1.4 | 22 | 151 | 109.707 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.3 | 268 | 3.7 | 239 | 5.0 | 13 | 268 | 2.6 | 22 | 154 | 111.915 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 299 | 3.3 | 266 | 4.5 | 11 | 299 | 1.1 | 20 | 172 | 124.667 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 305 | 3.2 | 271 | 4.4 | 11 | 305 | 2.3 | 19 | 175 | 127.176 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 338 | 2.9 | 301 | 4.0 | 10.0 | 338 | 1.1 | 17 | 194 | 141.289 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 333 | 2.9 | 297 | 4.0 | 10 | 333 | 2.1 | 18 | 192 | 139.211 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.9 | 385 | 2.5 | 342 | 3.5 | 8.8 | 385 | 0.9 | 15 | 221 | 160.556 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.9 | 379 | 2.6 | 337 | 3.6 | 8.9 | 379 | 1.9 | 16 | 218 | 158.194 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 429 | 2.3 | 382 | 3.1 | 7.9 | 429 | 0.9 | 14 | 246 | 179.067 | GST06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 431 | 2.3 | 384 | 3.1 | 7.8 | 431 | 1.6 | 14 | 248 | 180.156 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 438 | 2.2 | 390 | 3.1 | 7.7 | 438 | 3.2 | 13 | 252 | 182.844 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 490 | 2 | 436 | 2.8 | 6.9 | 490 | 1.4 | 12 | 282 | 204.722 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 498 | 2 | 443 | 2.7 | 6.8 | 498 | 3.2 | 12 | 286 | 207.778 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 567 | 1.7 | 504 | 2.4 | 6.0 | 567 | 1.2 | 10 | 326 | 236.622 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 567 | 1.7 | 504 | 2.4 | 6.0 | 567 | 2.8 | 10 | 326 | 236.622 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 595 | 1.6 | 530 | 2.3 | 5.7 | 595 | 1.2 | 10 | 342 | 248.458 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 604 | 1.6 | 537 | 2.2 | 5.6 | 604 | 2.7 | 10 | 347 | 252.167 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 644 | 1.5 | 573 | 2.1 | 5.2 | 644 | 1.1 | 9 | 370 | 268.889 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 644 | 1.5 | 573 | 2.1 | 5.2 | 644 | 2.5 | 9 | 370 | 268.889 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 782 | 1.3 | 696 | 1.7 | 4.3 | 782 | 0.9 | 8 | 449 | 326.333 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 782 | 1.3 | 696 | 1.7 | 4.3 | 782 | 2.1 | 8 | 449 | 326.333 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | | |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|---------|-----------------------|--------------|
| 0.4 | 879 | 1.1 | 782 | 1.5 | 3.8 | 879 | 0.8 | 7 | 505 | 367.033 | GST07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 869 | 1.1 | 774 | 1.6 | 3.9 | 869 | 1.9 | 7 | 500 | 363.000 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 988 | 1 | 879 | 1.4 | 3.4 | 988 | 1.6 | 6 | 568 | 412.500 | GST09 - 3E □□□ 071C32 | E82MV 371_2B |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|----|----|-----|------|-----|-----|----|-----|------|-----|--------|-----------------------|--------------|
| 88 | 6 | 255 | 5.2 | 351 | 878 | 6 | 3.3 | 1528 | 3.4 | 1.600 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 69 | 8 | 199 | 6.7 | 274 | 686 | 8 | 3.0 | 1194 | 4.3 | 2.048 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 63 | 8 | 182 | 7.3 | 251 | 627 | 8 | 3.0 | 1091 | 4.7 | 2.240 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 49 | 11 | 143 | 9.4 | 197 | 492 | 11 | 2.4 | 856 | 6 | 2.857 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 40 | 13 | 116 | 11.5 | 161 | 401 | 13 | 1.9 | 698 | 7.4 | 3.500 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 32 | 16 | 93 | 14.4 | 128 | 319 | 16 | 1.5 | 556 | 9.3 | 4.400 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 31 | 17 | 89 | 14.9 | 123 | 308 | 17 | 3.2 | 537 | 9.6 | 4.556 | GST05 - 1E □□□ 071C42 | E82MV 551_4B |
| 25 | 21 | 72 | 19 | 99 | 248 | 21 | 1.2 | 431 | 12 | 5.667 | GST04 - 1E □□□ 071C42 | E82MV 551_4B |
| 25 | 21 | 72 | 19 | 99 | 248 | 21 | 2.6 | 431 | 12 | 5.667 | GST05 - 1E □□□ 071C42 | E82MV 551_4B |
| 25 | 21 | 72 | 19 | 99 | 248 | 21 | 3.2 | 431 | 12 | 5.667 | GST06 - 1E □□□ 071C42 | E82MV 551_4B |
| 19 | 27 | 56 | 24 | 77 | 192 | 27 | 1.7 | 333 | 16 | 7.333 | GST05 - 1E □□□ 071C42 | E82MV 551_4B |
| 19 | 27 | 56 | 24 | 77 | 192 | 27 | 2.9 | 333 | 16 | 7.333 | GST06 - 1E □□□ 071C42 | E82MV 551_4B |
| 16 | 33 | 46 | 29 | 63 | 158 | 33 | 1.3 | 275 | 19 | 8.900 | GST05 - 1E □□□ 071C42 | E82MV 551_4B |
| 16 | 33 | 46 | 29 | 63 | 158 | 33 | 2.4 | 275 | 19 | 8.900 | GST06 - 1E □□□ 071C42 | E82MV 551_4B |
| 12 | 41 | 36 | 37 | 50 | 125 | 41 | 1.4 | 217 | 24 | 11.250 | GST06 - 1E □□□ 071C42 | E82MV 551_4B |
| 54 | 9 | 157 | 8.4 | 216 | 541 | 9 | 1.9 | 941 | 5.4 | 2.597 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 41 | 12 | 119 | 11 | 165 | 412 | 12 | 1.6 | 716 | 7.1 | 3.413 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 35 | 15 | 101 | 13.1 | 139 | 347 | 15 | 3.1 | 603 | 8.4 | 4.053 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 32 | 16 | 93 | 14.1 | 129 | 322 | 16 | 1.3 | 560 | 9.1 | 4.368 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 31 | 17 | 89 | 14.8 | 123 | 307 | 17 | 2.9 | 535 | 9.5 | 4.571 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 26 | 19 | 77 | 17 | 106 | 265 | 19 | 1.4 | 460 | 11 | 5.312 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 27 | 19 | 79 | 17 | 108 | 271 | 19 | 2.7 | 471 | 11 | 5.187 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 24 | 21 | 70 | 19 | 96 | 240 | 21 | 2.5 | 418 | 12 | 5.850 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 24 | 22 | 68 | 19 | 94 | 236 | 22 | 1.3 | 410 | 12 | 5.965 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 22 | 23 | 64 | 21 | 88 | 220 | 23 | 2.4 | 382 | 13 | 6.400 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 20 | 25 | 58 | 23 | 80 | 201 | 25 | 1.2 | 350 | 15 | 6.982 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 20 | 26 | 58 | 23 | 80 | 200 | 26 | 2.2 | 347 | 15 | 7.040 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 18 | 28 | 52 | 25 | 72 | 179 | 28 | 1.1 | 312 | 16 | 7.840 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 18 | 29 | 51 | 26 | 70 | 176 | 29 | 2.0 | 306 | 17 | 8.000 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 16 | 32 | 46 | 29 | 63 | 157 | 32 | 1.0 | 274 | 19 | 8.935 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 16 | 33 | 45 | 29 | 62 | 156 | 33 | 1.9 | 271 | 19 | 9.010 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 14 | 36 | 41 | 32 | 56 | 140 | 36 | 0.9 | 244 | 21 | 10.033 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 14 | 36 | 41 | 32 | 57 | 143 | 36 | 1.8 | 248 | 21 | 9.856 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 12 | 41 | 36 | 37 | 49 | 123 | 41 | 0.9 | 214 | 24 | 11.429 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 13 | 41 | 36 | 36 | 50 | 125 | 41 | 1.5 | 218 | 23 | 11.200 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 13 | 41 | 36 | 36 | 50 | 125 | 41 | 3.1 | 218 | 23 | 11.200 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 47 | 32 | 41 | 44 | 110 | 47 | 0.8 | 190 | 27 | 12.833 | GST03 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 46 | 32 | 41 | 45 | 112 | 46 | 1.5 | 194 | 26 | 12.571 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 47 | 31 | 42 | 43 | 108 | 47 | 2.9 | 188 | 27 | 13.016 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 9.8 | 52 | 29 | 46 | 39 | 98 | 52 | 1.2 | 171 | 30 | 14.286 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.8 | 52 | 28 | 46 | 39 | 98 | 52 | 2.7 | 170 | 30 | 14.356 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.1 | 56 | 26 | 50 | 36 | 91 | 56 | 1.2 | 159 | 32 | 15.400 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 8.7 | 59 | 25 | 52 | 35 | 87 | 59 | 2.5 | 151 | 34 | 16.190 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 8.0 | 64 | 23 | 56 | 32 | 80 | 64 | 1.0 | 140 | 36 | 17.500 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 8.0 | 64 | 23 | 56 | 32 | 80 | 64 | 2.2 | 140 | 36 | 17.500 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 7.3 | 70 | 21 | 62 | 29 | 73 | 70 | 1.0 | 126 | 40 | 19.360 | GST04 - 2E □□□ 071C42 | E82MV 551_4B |
| 7.0 | 73 | 20 | 65 | 28 | 70 | 73 | 2.2 | 122 | 42 | 20.044 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 6.2 | 83 | 18 | 74 | 25 | 62 | 83 | 1.7 | 107 | 47 | 22.778 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.6 | 90 | 16 | 80 | 23 | 56 | 90 | 1.8 | 98 | 52 | 24.933 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.6 | 90 | 16 | 80 | 23 | 56 | 90 | 3.2 | 98 | 52 | 24.933 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.0 | 103 | 14 | 91 | 20 | 50 | 103 | 1.4 | 86 | 59 | 28.333 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.0 | 103 | 14 | 91 | 20 | 50 | 103 | 3.1 | 86 | 59 | 28.333 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.4 | 117 | 13 | 104 | 17 | 44 | 117 | 1.4 | 76 | 67 | 32.267 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.4 | 117 | 13 | 104 | 17 | 44 | 117 | 2.9 | 76 | 67 | 32.267 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.8 | 133 | 11 | 118 | 15 | 38 | 133 | 1.1 | 67 | 76 | 36.667 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.8 | 133 | 11 | 118 | 15 | 38 | 133 | 2.4 | 67 | 76 | 36.667 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.6 | 142 | 10 | 126 | 14 | 36 | 142 | 1.2 | 62 | 82 | 39.160 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.6 | 142 | 10 | 126 | 14 | 36 | 142 | 2.4 | 62 | 82 | 39.160 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.2 | 161 | 9.2 | 144 | 13 | 32 | 161 | 0.9 | 55 | 93 | 44.500 | GST05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.2 | 161 | 9.2 | 144 | 13 | 32 | 161 | 2.0 | 55 | 93 | 44.500 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.8 | 180 | 8.2 | 160 | 11 | 28 | 180 | 1.4 | 49 | 103 | 49.500 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.5 | 204 | 7.2 | 182 | 10 | 25 | 204 | 1.4 | 43 | 117 | 56.250 | GST06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.1 | 242 | 6 | 215 | 8.3 | 21 | 242 | 1.5 | 36 | 139 | 67.760 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.2 | 233 | 6.3 | 207 | 8.6 | 22 | 233 | 3.0 | 38 | 134 | 65.079 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 251 | 5.8 | 223 | 8.0 | 20 | 251 | 1.4 | 35 | 144 | 70.156 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 251 | 5.8 | 223 | 8.0 | 20 | 251 | 2.8 | 35 | 144 | 70.156 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.7 | 289 | 5 | 257 | 7.0 | 17 | 289 | 1.1 | 30 | 166 | 80.952 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.8 | 285 | 5.1 | 254 | 7.0 | 18 | 285 | 2.5 | 31 | 164 | 79.762 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.6 | 312 | 4.7 | 277 | 6.4 | 16 | 312 | 1.2 | 28 | 179 | 87.267 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.6 | 307 | 4.7 | 273 | 6.5 | 16 | 307 | 2.3 | 28 | 177 | 85.983 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 354 | 4.1 | 315 | 5.7 | 14 | 354 | 0.9 | 25 | 204 | 99.167 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 349 | 4.2 | 311 | 5.8 | 14 | 349 | 2.0 | 25 | 201 | 97.708 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.3 | 392 | 3.7 | 349 | 5.1 | 13 | 392 | 1.0 | 22 | 225 | 109.707 | GST06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.3 | 400 | 3.6 | 356 | 5.0 | 13 | 400 | 1.8 | 22 | 230 | 111.915 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 454 | 3.2 | 404 | 4.4 | 11 | 454 | 1.6 | 19 | 261 | 127.176 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 497 | 2.9 | 443 | 4.0 | 10 | 497 | 1.4 | 18 | 286 | 139.211 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 505 | 2.9 | 449 | 4.0 | 9.9 | 505 | 3.2 | 17 | 290 | 141.289 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.9 | 565 | 2.6 | 503 | 3.6 | 8.9 | 565 | 1.3 | 15 | 325 | 158.194 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.9 | 574 | 2.5 | 510 | 3.5 | 8.8 | 574 | 2.8 | 15 | 330 | 160.556 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 644 | 2.3 | 573 | 3.1 | 7.8 | 644 | 1.1 | 14 | 370 | 180.156 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 653 | 2.2 | 581 | 3.1 | 7.7 | 653 | 2.5 | 13 | 375 | 182.844 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 731 | 2 | 651 | 2.7 | 6.9 | 731 | 1.0 | 12 | 420 | 204.722 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 742 | 2 | 661 | 2.7 | 6.8 | 742 | 2.2 | 12 | 427 | 207.778 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 845 | 1.7 | 752 | 2.4 | 5.9 | 845 | 0.8 | 10 | 486 | 236.622 | GST07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 845 | 1.7 | 752 | 2.4 | 5.9 | 845 | 1.9 | 10 | 486 | 236.622 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|-----|---------|-----------------------|--------------|
| 0.6 | 901 | 1.6 | 802 | 2.2 | 5.6 | 901 | 1.8 | 10 | 518 | 252.167 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 961 | 1.5 | 855 | 2.1 | 5.2 | 961 | 1.7 | 9 | 552 | 268.889 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1166 | 1.2 | 1038 | 1.7 | 4.3 | 1166 | 1.4 | 7 | 670 | 326.333 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1297 | 1.1 | 1154 | 1.5 | 3.9 | 1297 | 1.2 | 7 | 745 | 363.000 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1474 | 1 | 1312 | 1.4 | 3.4 | 1474 | 1.1 | 6 | 847 | 412.500 | GST09 - 3E □□□ 071C42 | E82MV 551_4B |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|----|----|-----|------|-----|-----|----|-----|------|-----|--------|-----------------------|--------------|
| 88 | 8 | 256 | 7.1 | 353 | 881 | 8 | 2.4 | 1533 | 4.6 | 1.600 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 69 | 10 | 200 | 9.1 | 275 | 689 | 10 | 2.2 | 1198 | 5.9 | 2.048 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 63 | 11 | 183 | 10 | 252 | 630 | 11 | 2.2 | 1095 | 6.4 | 2.240 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 49 | 14 | 143 | 12.7 | 197 | 494 | 14 | 1.7 | 859 | 8.2 | 2.857 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 40 | 18 | 117 | 16 | 161 | 403 | 18 | 1.4 | 701 | 10 | 3.500 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 40 | 18 | 117 | 16 | 161 | 403 | 18 | 3.1 | 701 | 10 | 3.500 | GST05 - 1E □□□ 080C32 | E82MV 751_4B |
| 32 | 22 | 93 | 20 | 128 | 321 | 22 | 1.1 | 558 | 13 | 4.400 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 31 | 23 | 90 | 20 | 124 | 310 | 23 | 2.4 | 539 | 13 | 4.556 | GST05 - 1E □□□ 080C32 | E82MV 751_4B |
| 25 | 28 | 72 | 25 | 100 | 249 | 28 | 0.9 | 433 | 16 | 5.667 | GST04 - 1E □□□ 080C32 | E82MV 751_4B |
| 25 | 28 | 72 | 25 | 100 | 249 | 28 | 1.9 | 433 | 16 | 5.667 | GST05 - 1E □□□ 080C32 | E82MV 751_4B |
| 25 | 28 | 72 | 25 | 100 | 249 | 28 | 2.9 | 433 | 16 | 5.667 | GST06 - 1E □□□ 080C32 | E82MV 751_4B |
| 19 | 37 | 56 | 33 | 77 | 192 | 37 | 1.3 | 335 | 21 | 7.333 | GST05 - 1E □□□ 080C32 | E82MV 751_4B |
| 19 | 37 | 56 | 33 | 77 | 192 | 37 | 2.6 | 335 | 21 | 7.333 | GST06 - 1E □□□ 080C32 | E82MV 751_4B |
| 19 | 37 | 56 | 33 | 77 | 192 | 37 | 2.9 | 335 | 21 | 7.333 | GST07 - 1E □□□ 080C32 | E82MV 751_4B |
| 16 | 45 | 46 | 40 | 63 | 158 | 45 | 0.9 | 276 | 26 | 8.900 | GST05 - 1E □□□ 080C32 | E82MV 751_4B |
| 16 | 45 | 46 | 40 | 63 | 158 | 45 | 1.9 | 276 | 26 | 8.900 | GST06 - 1E □□□ 080C32 | E82MV 751_4B |
| 16 | 45 | 46 | 40 | 63 | 158 | 45 | 2.5 | 276 | 26 | 8.900 | GST07 - 1E □□□ 080C32 | E82MV 751_4B |
| 13 | 56 | 36 | 50 | 50 | 125 | 56 | 1.1 | 218 | 32 | 11.250 | GST06 - 1E □□□ 080C32 | E82MV 751_4B |
| 13 | 56 | 36 | 50 | 50 | 125 | 56 | 2.0 | 218 | 32 | 11.250 | GST07 - 1E □□□ 080C32 | E82MV 751_4B |
| 48 | 15 | 138 | 13 | 191 | 477 | 15 | 2.7 | 830 | 8.4 | 2.956 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 42 | 16 | 123 | 14.6 | 169 | 423 | 16 | 2.5 | 736 | 9.4 | 3.333 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 35 | 20 | 101 | 18 | 139 | 348 | 20 | 2.3 | 605 | 11 | 4.053 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 31 | 23 | 89 | 20 | 123 | 308 | 23 | 2.1 | 537 | 13 | 4.571 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 27 | 26 | 79 | 23 | 109 | 272 | 26 | 2.0 | 473 | 15 | 5.187 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 24 | 29 | 70 | 26 | 96 | 241 | 29 | 1.8 | 419 | 17 | 5.850 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 22 | 32 | 64 | 28 | 88 | 220 | 32 | 1.7 | 383 | 18 | 6.400 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 20 | 35 | 58 | 31 | 80 | 200 | 35 | 1.6 | 348 | 20 | 7.040 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 19 | 36 | 56 | 32 | 78 | 195 | 36 | 3.0 | 339 | 21 | 7.238 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 18 | 39 | 51 | 35 | 71 | 176 | 39 | 1.5 | 307 | 23 | 8.000 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 17 | 40 | 50 | 36 | 69 | 173 | 40 | 2.9 | 301 | 23 | 8.163 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 16 | 44 | 45 | 40 | 63 | 157 | 44 | 1.4 | 272 | 26 | 9.010 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 16 | 44 | 45 | 40 | 63 | 157 | 44 | 2.7 | 272 | 26 | 9.010 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 14 | 49 | 41 | 43 | 57 | 143 | 49 | 1.3 | 249 | 28 | 9.856 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 14 | 49 | 41 | 44 | 56 | 141 | 49 | 2.5 | 245 | 28 | 10.000 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 13 | 55 | 37 | 49 | 50 | 126 | 55 | 1.1 | 219 | 32 | 11.200 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 13 | 55 | 37 | 49 | 50 | 126 | 55 | 2.3 | 219 | 32 | 11.200 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|---------|-----------------------|--------------|
| 11 | 62 | 33 | 55 | 45 | 112 | 62 | 1.1 | 195 | 36 | 12.571 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 11 | 64 | 31 | 57 | 43 | 108 | 64 | 2.1 | 188 | 37 | 13.016 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.9 | 70 | 29 | 63 | 39 | 99 | 70 | 0.9 | 172 | 40 | 14.286 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.8 | 71 | 28 | 63 | 39 | 98 | 71 | 2.0 | 171 | 41 | 14.356 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.2 | 76 | 27 | 68 | 37 | 92 | 76 | 0.9 | 159 | 44 | 15.400 | GST04 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.7 | 80 | 25 | 71 | 35 | 87 | 80 | 1.9 | 152 | 46 | 16.190 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.1 | 86 | 23 | 77 | 32 | 81 | 86 | 1.6 | 140 | 50 | 17.500 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 7.0 | 99 | 20 | 88 | 28 | 70 | 99 | 1.6 | 122 | 57 | 20.044 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.2 | 112 | 18 | 100 | 25 | 62 | 112 | 1.3 | 108 | 65 | 22.778 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.2 | 112 | 18 | 100 | 25 | 62 | 112 | 2.8 | 108 | 65 | 22.778 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.7 | 123 | 16 | 109 | 23 | 57 | 123 | 1.3 | 98 | 71 | 24.933 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.7 | 123 | 16 | 109 | 23 | 57 | 123 | 2.9 | 98 | 71 | 24.933 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.0 | 140 | 14 | 124 | 20 | 50 | 140 | 1.1 | 87 | 80 | 28.333 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.0 | 140 | 14 | 124 | 20 | 50 | 140 | 2.3 | 87 | 80 | 28.333 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.4 | 159 | 13 | 142 | 17 | 44 | 159 | 1.0 | 76 | 91 | 32.267 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.4 | 159 | 13 | 142 | 17 | 44 | 159 | 2.3 | 76 | 91 | 32.267 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.4 | 159 | 13 | 142 | 17 | 44 | 159 | 2.9 | 76 | 91 | 32.267 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.9 | 181 | 11 | 161 | 15 | 39 | 181 | 0.8 | 67 | 104 | 36.667 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.9 | 181 | 11 | 161 | 15 | 39 | 181 | 1.8 | 67 | 104 | 36.667 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.9 | 181 | 11 | 161 | 15 | 39 | 181 | 2.9 | 67 | 104 | 36.667 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.6 | 193 | 10 | 172 | 14 | 36 | 193 | 0.9 | 63 | 111 | 39.160 | GST05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.6 | 193 | 10 | 172 | 14 | 36 | 193 | 1.9 | 63 | 111 | 39.160 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.6 | 193 | 10 | 172 | 14 | 36 | 193 | 2.5 | 63 | 111 | 39.160 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.2 | 219 | 9.2 | 195 | 13 | 32 | 219 | 1.5 | 55 | 126 | 44.500 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.2 | 219 | 9.2 | 195 | 13 | 32 | 219 | 2.5 | 55 | 126 | 44.500 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.9 | 244 | 8.3 | 217 | 11 | 29 | 244 | 1.1 | 50 | 140 | 49.500 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.9 | 244 | 8.3 | 217 | 11 | 29 | 244 | 2.0 | 50 | 140 | 49.500 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.5 | 277 | 7.3 | 247 | 10 | 25 | 277 | 1.1 | 44 | 159 | 56.250 | GST06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.5 | 277 | 7.3 | 247 | 10 | 25 | 277 | 2.0 | 44 | 159 | 56.250 | GST07 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.1 | 329 | 6 | 293 | 8.3 | 21 | 329 | 1.1 | 36 | 189 | 67.760 | GST06 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.2 | 316 | 6.3 | 281 | 8.7 | 22 | 316 | 2.2 | 38 | 182 | 65.079 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 341 | 5.8 | 303 | 8.0 | 20 | 341 | 1.1 | 35 | 196 | 70.156 | GST06 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 341 | 5.8 | 303 | 8.0 | 20 | 341 | 2.1 | 35 | 196 | 70.156 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.7 | 393 | 5.1 | 350 | 7.0 | 17 | 393 | 0.8 | 30 | 226 | 80.952 | GST06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.8 | 387 | 5.1 | 345 | 7.1 | 18 | 387 | 1.8 | 31 | 223 | 79.762 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.6 | 424 | 4.7 | 377 | 6.5 | 16 | 424 | 0.9 | 28 | 243 | 87.267 | GST06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.6 | 417 | 4.8 | 371 | 6.6 | 16 | 417 | 1.7 | 29 | 240 | 85.983 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.4 | 474 | 4.2 | 422 | 5.8 | 14 | 474 | 1.5 | 25 | 273 | 97.708 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.3 | 543 | 3.7 | 484 | 5.0 | 13 | 543 | 1.3 | 22 | 312 | 111.915 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.2 | 551 | 3.6 | 491 | 5.0 | 12 | 551 | 2.9 | 22 | 317 | 113.585 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 617 | 3.2 | 549 | 4.4 | 11 | 617 | 1.2 | 19 | 355 | 127.176 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 627 | 3.2 | 558 | 4.4 | 11 | 627 | 2.6 | 19 | 360 | 129.074 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.0 | 676 | 2.9 | 601 | 4.0 | 10 | 676 | 1.0 | 18 | 388 | 139.211 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.0 | 686 | 2.9 | 610 | 4.0 | 10.0 | 686 | 2.4 | 17 | 394 | 141.289 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.9 | 768 | 2.6 | 683 | 3.6 | 8.9 | 768 | 0.9 | 16 | 441 | 158.194 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.9 | 779 | 2.5 | 694 | 3.5 | 8.8 | 779 | 2.1 | 15 | 448 | 160.556 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 875 | 2.3 | 778 | 3.1 | 7.8 | 875 | 0.8 | 14 | 503 | 180.156 | GST07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 888 | 2.2 | 790 | 3.1 | 7.7 | 888 | 1.8 | 13 | 510 | 182.844 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | 50 Hz | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 0.7 | 1009 | 2 | 898 | 2.7 | 6.8 | 1009 | 1.6 | 12 | 580 | 207.778 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.7 | 1009 | 2 | 898 | 2.7 | 6.8 | 1009 | 2.8 | 12 | 580 | 207.778 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1149 | 1.7 | 1022 | 2.4 | 6.0 | 1149 | 1.4 | 10 | 660 | 236.622 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1149 | 1.7 | 1022 | 2.4 | 6.0 | 1149 | 2.3 | 10 | 660 | 236.622 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1224 | 1.6 | 1089 | 2.2 | 5.6 | 1224 | 1.3 | 10 | 703 | 252.167 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1224 | 1.6 | 1089 | 2.2 | 5.6 | 1224 | 2.3 | 10 | 703 | 252.167 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.5 | 1305 | 1.5 | 1162 | 2.1 | 5.2 | 1305 | 1.2 | 9 | 750 | 268.889 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.5 | 1305 | 1.5 | 1162 | 2.1 | 5.2 | 1305 | 2.2 | 9 | 750 | 268.889 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1584 | 1.3 | 1410 | 1.7 | 4.3 | 1584 | 1.0 | 8 | 910 | 326.333 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1584 | 1.3 | 1410 | 1.7 | 4.3 | 1584 | 1.8 | 8 | 910 | 326.333 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1762 | 1.1 | 1568 | 1.6 | 3.9 | 1762 | 0.9 | 7 | 1013 | 363.000 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1762 | 1.1 | 1568 | 1.6 | 3.9 | 1762 | 1.5 | 7 | 1013 | 363.000 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2002 | 1 | 1782 | 1.4 | 3.4 | 2002 | 0.8 | 6 | 1151 | 412.500 | GST09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2002 | 1 | 1782 | 1.4 | 3.4 | 2002 | 1.4 | 6 | 1151 | 412.500 | GST11 - 3E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 30 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|------|-----|--------|-----------------------|--------------|
| 87 | 12 | 252 | 10 | 521 | 869 | 12 | 1.6 | 1512 | 6.8 | 1.600 | GST04 - 1E □□□ 080C42 | E82MV 152_4B |
| 68 | 15 | 197 | 12.8 | 407 | 679 | 15 | 1.5 | 1181 | 8.8 | 2.048 | GST04 - 1E □□□ 080C42 | E82MV 152_4B |
| 62 | 17 | 180 | 14 | 372 | 621 | 17 | 1.5 | 1080 | 9.6 | 2.240 | GST04 - 1E □□□ 080C42 | E82MV 152_4B |
| 62 | 17 | 180 | 14 | 372 | 621 | 17 | 3.2 | 1080 | 9.6 | 2.240 | GST05 - 1E □□□ 080C42 | E82MV 152_4B |
| 49 | 21 | 141 | 18 | 292 | 487 | 21 | 1.2 | 847 | 12 | 2.857 | GST04 - 1E □□□ 080C42 | E82MV 152_4B |
| 49 | 21 | 141 | 18 | 292 | 487 | 21 | 2.5 | 847 | 12 | 2.857 | GST05 - 1E □□□ 080C42 | E82MV 152_4B |
| 40 | 26 | 115 | 22 | 238 | 397 | 26 | 1.0 | 691 | 15 | 3.500 | GST04 - 1E □□□ 080C42 | E82MV 152_4B |
| 40 | 26 | 115 | 22 | 238 | 397 | 26 | 2.1 | 691 | 15 | 3.500 | GST05 - 1E □□□ 080C42 | E82MV 152_4B |
| 31 | 34 | 88 | 28 | 183 | 305 | 34 | 1.6 | 531 | 19 | 4.556 | GST05 - 1E □□□ 080C42 | E82MV 152_4B |
| 31 | 34 | 88 | 28 | 183 | 305 | 34 | 3.1 | 531 | 19 | 4.556 | GST06 - 1E □□□ 080C42 | E82MV 152_4B |
| 25 | 42 | 71 | 35 | 147 | 245 | 42 | 1.3 | 427 | 24 | 5.667 | GST05 - 1E □□□ 080C42 | E82MV 152_4B |
| 25 | 42 | 71 | 35 | 147 | 245 | 42 | 2.5 | 427 | 24 | 5.667 | GST06 - 1E □□□ 080C42 | E82MV 152_4B |
| 25 | 42 | 72 | 35 | 149 | 249 | 42 | 3.1 | 433 | 24 | 5.583 | GST07 - 1E □□□ 080C42 | E82MV 152_4B |
| 19 | 55 | 55 | 46 | 114 | 190 | 55 | 1.8 | 330 | 31 | 7.333 | GST06 - 1E □□□ 080C42 | E82MV 152_4B |
| 19 | 55 | 55 | 46 | 114 | 190 | 55 | 2.9 | 330 | 31 | 7.333 | GST07 - 1E □□□ 080C42 | E82MV 152_4B |
| 16 | 66 | 45 | 56 | 94 | 156 | 66 | 1.3 | 272 | 38 | 8.900 | GST06 - 1E □□□ 080C42 | E82MV 152_4B |
| 16 | 66 | 45 | 56 | 94 | 156 | 66 | 2.3 | 272 | 38 | 8.900 | GST07 - 1E □□□ 080C42 | E82MV 152_4B |
| 12 | 84 | 36 | 70 | 74 | 124 | 84 | 1.4 | 215 | 48 | 11.250 | GST07 - 1E □□□ 080C42 | E82MV 152_4B |
| 47 | 22 | 136 | 18 | 282 | 470 | 22 | 1.8 | 818 | 12 | 2.956 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 47 | 22 | 136 | 18 | 282 | 470 | 22 | 2.9 | 818 | 12 | 2.956 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 42 | 24 | 121 | 21 | 250 | 417 | 24 | 1.7 | 726 | 14 | 3.333 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 42 | 24 | 121 | 21 | 250 | 417 | 24 | 3.2 | 726 | 14 | 3.333 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 34 | 30 | 99 | 25 | 206 | 343 | 30 | 1.5 | 597 | 17 | 4.053 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 34 | 30 | 99 | 25 | 206 | 343 | 30 | 2.7 | 597 | 17 | 4.053 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 30 | 34 | 88 | 28 | 182 | 304 | 34 | 1.4 | 529 | 19 | 4.571 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 30 | 34 | 88 | 28 | 182 | 304 | 34 | 2.7 | 529 | 19 | 4.571 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 27 | 38 | 78 | 32 | 161 | 268 | 38 | 1.3 | 466 | 22 | 5.187 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 27 | 38 | 78 | 32 | 161 | 268 | 38 | 2.4 | 466 | 22 | 5.187 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 24 | 43 | 69 | 36 | 143 | 238 | 43 | 1.2 | 413 | 25 | 5.850 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 24 | 43 | 69 | 36 | 143 | 238 | 43 | 2.4 | 413 | 25 | 5.850 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 22 | 47 | 63 | 39 | 130 | 217 | 47 | 1.2 | 378 | 27 | 6.400 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 22 | 47 | 63 | 39 | 130 | 217 | 47 | 2.2 | 378 | 27 | 6.400 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 20 | 52 | 57 | 43 | 118 | 197 | 52 | 1.1 | 344 | 30 | 7.040 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 19 | 53 | 56 | 45 | 115 | 192 | 53 | 2.0 | 334 | 30 | 7.238 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 17 | 59 | 50 | 49 | 104 | 174 | 59 | 1.0 | 302 | 34 | 8.000 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 17 | 60 | 49 | 50 | 102 | 170 | 60 | 1.9 | 296 | 34 | 8.163 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 15 | 66 | 45 | 55 | 93 | 154 | 66 | 0.9 | 268 | 38 | 9.010 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 15 | 66 | 45 | 55 | 93 | 154 | 66 | 1.8 | 268 | 38 | 9.010 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 14 | 72 | 41 | 61 | 85 | 141 | 72 | 0.9 | 245 | 42 | 9.856 | GST04 - 2E □□□ 080C42 | E82MV 152_4B |
| 14 | 73 | 40 | 62 | 83 | 139 | 73 | 1.7 | 242 | 42 | 10.000 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 12 | 82 | 36 | 69 | 74 | 124 | 82 | 1.6 | 216 | 47 | 11.200 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 95 | 31 | 80 | 64 | 107 | 95 | 1.4 | 186 | 55 | 13.016 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 92 | 32 | 77 | 66 | 111 | 92 | 3.2 | 192 | 53 | 12.571 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.7 | 105 | 28 | 88 | 58 | 97 | 105 | 1.3 | 168 | 60 | 14.356 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.7 | 105 | 28 | 88 | 58 | 97 | 105 | 2.9 | 169 | 60 | 14.286 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 8.6 | 119 | 25 | 100 | 52 | 86 | 119 | 1.3 | 149 | 68 | 16.190 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.0 | 113 | 26 | 95 | 54 | 90 | 113 | 2.8 | 157 | 65 | 15.400 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 30 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 7.9 | 128 | 23 | 108 | 48 | 79 | 128 | 1.1 | 138 | 74 | 17.500 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 7.9 | 128 | 23 | 108 | 48 | 79 | 128 | 2.4 | 138 | 74 | 17.500 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.9 | 147 | 20 | 123 | 42 | 69 | 147 | 1.1 | 121 | 84 | 20.044 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.9 | 147 | 20 | 123 | 42 | 69 | 147 | 2.4 | 121 | 84 | 20.044 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.1 | 167 | 18 | 140 | 37 | 61 | 167 | 0.9 | 106 | 96 | 22.778 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.1 | 167 | 18 | 140 | 37 | 61 | 167 | 1.9 | 106 | 96 | 22.778 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.6 | 183 | 16 | 154 | 33 | 56 | 183 | 0.9 | 97 | 105 | 24.933 | GST05 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.6 | 183 | 16 | 154 | 33 | 56 | 183 | 2.0 | 97 | 105 | 24.933 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.7 | 180 | 16 | 151 | 34 | 57 | 180 | 3.1 | 98 | 104 | 24.567 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.9 | 208 | 14 | 175 | 29 | 49 | 208 | 1.5 | 85 | 119 | 28.333 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.0 | 205 | 14 | 172 | 30 | 50 | 205 | 3.1 | 87 | 118 | 27.917 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.3 | 237 | 12 | 199 | 26 | 43 | 237 | 1.5 | 75 | 136 | 32.267 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.3 | 237 | 12 | 199 | 26 | 43 | 237 | 2.9 | 75 | 136 | 32.267 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 269 | 11 | 226 | 23 | 38 | 269 | 1.2 | 66 | 155 | 36.667 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 269 | 11 | 226 | 23 | 38 | 269 | 2.6 | 66 | 155 | 36.667 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.6 | 287 | 10 | 241 | 21 | 36 | 287 | 1.3 | 62 | 165 | 39.160 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.6 | 287 | 10 | 241 | 21 | 36 | 287 | 2.3 | 62 | 165 | 39.160 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 326 | 9.1 | 274 | 19 | 31 | 326 | 1.0 | 54 | 188 | 44.500 | GST06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 326 | 9.1 | 274 | 19 | 31 | 326 | 2.2 | 54 | 188 | 44.500 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.8 | 363 | 8.1 | 305 | 17 | 28 | 363 | 1.4 | 49 | 209 | 49.500 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.5 | 412 | 7.2 | 346 | 15 | 25 | 412 | 1.4 | 43 | 237 | 56.250 | GST07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.4 | 419 | 7 | 352 | 14 | 24 | 419 | 4.5 | 42 | 241 | 57.968 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.1 | 470 | 6.2 | 395 | 13 | 21 | 470 | 1.5 | 37 | 270 | 65.079 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.0 | 507 | 5.7 | 426 | 12 | 20 | 507 | 1.4 | 34 | 291 | 70.156 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.9 | 519 | 5.6 | 436 | 12 | 19 | 519 | 2.8 | 34 | 298 | 71.867 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.7 | 576 | 5.1 | 484 | 10 | 17 | 576 | 1.2 | 30 | 331 | 79.762 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.7 | 590 | 4.9 | 495 | 10 | 17 | 590 | 2.7 | 30 | 339 | 81.667 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.6 | 621 | 4.7 | 522 | 9.7 | 16 | 621 | 1.1 | 28 | 357 | 85.983 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.5 | 676 | 4.3 | 567 | 8.9 | 15 | 676 | 2.4 | 26 | 388 | 93.541 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.4 | 706 | 4.1 | 593 | 8.5 | 14 | 706 | 1.0 | 25 | 406 | 97.708 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.4 | 716 | 4.1 | 602 | 8.4 | 14 | 716 | 2.2 | 24 | 412 | 99.167 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.2 | 808 | 3.6 | 679 | 7.4 | 12 | 808 | 0.9 | 22 | 465 | 111.915 | GST07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.2 | 820 | 3.5 | 689 | 7.3 | 12 | 820 | 2.0 | 21 | 471 | 113.585 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.1 | 932 | 3.1 | 783 | 6.5 | 11 | 932 | 1.7 | 19 | 536 | 129.074 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.1 | 932 | 3.1 | 783 | 6.5 | 11 | 932 | 3.0 | 19 | 536 | 129.074 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.0 | 1020 | 2.9 | 857 | 5.9 | 9.8 | 1020 | 1.6 | 17 | 586 | 141.289 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1062 | 2.7 | 892 | 5.7 | 9.5 | 1062 | 2.5 | 16 | 610 | 146.993 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1160 | 2.5 | 974 | 5.2 | 8.7 | 1160 | 1.4 | 15 | 666 | 160.556 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1143 | 2.5 | 960 | 5.3 | 8.8 | 1143 | 2.5 | 15 | 657 | 158.194 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1321 | 2.2 | 1109 | 4.6 | 7.6 | 1321 | 1.2 | 13 | 759 | 182.844 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1301 | 2.2 | 1093 | 4.6 | 7.7 | 1301 | 2.1 | 13 | 748 | 180.156 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1501 | 1.9 | 1260 | 4.0 | 6.7 | 1501 | 1.1 | 12 | 862 | 207.778 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1501 | 1.9 | 1260 | 4.0 | 6.7 | 1501 | 1.9 | 12 | 862 | 207.778 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1709 | 1.7 | 1435 | 3.5 | 5.9 | 1709 | 0.9 | 10 | 982 | 236.622 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1709 | 1.7 | 1435 | 3.5 | 5.9 | 1709 | 1.6 | 10 | 982 | 236.622 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1821 | 1.6 | 1530 | 3.3 | 5.5 | 1821 | 0.9 | 10 | 1047 | 252.167 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1821 | 1.6 | 1530 | 3.3 | 5.5 | 1821 | 1.5 | 10 | 1047 | 252.167 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|-------------------------|-------------------------|-------------------------|------------|----------------|----------------|---|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ 30 Hz | n ₂ 50 Hz | M ₂ 50 Hz | c 50 Hz | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|---|------|---------|-----------------------|--------------|
| 0.5 | 1942 | 1.5 | 1631 | 3.1 | 5.2 | 1942 | 0.8 | 9 | 1116 | 268.889 | GST09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 1942 | 1.5 | 1631 | 3.1 | 5.2 | 1942 | 1.5 | 9 | 1116 | 268.889 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2357 | 1.2 | 1980 | 2.6 | 4.3 | 2357 | 1.2 | 7 | 1354 | 326.333 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2622 | 1.1 | 2202 | 2.3 | 3.8 | 2622 | 1.0 | 7 | 1507 | 363.000 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 2979 | 1 | 2502 | 2.0 | 3.4 | 2979 | 1.0 | 6 | 1712 | 412.500 | GST11 - 3E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 3-40 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|----|-----|-----|------|-----|-----|-----|-----|------|-----|--------|-----------------------|--------------|
| 87 | 16 | 252 | 14.5 | 348 | 869 | 16 | 1.2 | 1512 | 9.3 | 1.600 | GST04 - 1E □□□ 090C32 | E82MV 152_4B |
| 87 | 16 | 252 | 14.5 | 348 | 869 | 16 | 2.8 | 1512 | 9.3 | 1.600 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 68 | 21 | 197 | 18 | 272 | 679 | 21 | 1.1 | 1181 | 12 | 2.048 | GST04 - 1E □□□ 090C32 | E82MV 152_4B |
| 68 | 21 | 197 | 18 | 272 | 679 | 21 | 2.5 | 1181 | 12 | 2.048 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 62 | 23 | 180 | 20 | 248 | 621 | 23 | 1.1 | 1080 | 13 | 2.240 | GST04 - 1E □□□ 090C32 | E82MV 152_4B |
| 62 | 23 | 180 | 20 | 248 | 621 | 23 | 2.3 | 1080 | 13 | 2.240 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 49 | 29 | 141 | 26 | 195 | 487 | 29 | 0.9 | 847 | 17 | 2.857 | GST04 - 1E □□□ 090C32 | E82MV 152_4B |
| 49 | 29 | 141 | 26 | 195 | 487 | 29 | 1.8 | 847 | 17 | 2.857 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 49 | 29 | 141 | 26 | 195 | 487 | 29 | 3.2 | 847 | 17 | 2.857 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 40 | 36 | 115 | 32 | 159 | 397 | 36 | 1.5 | 691 | 20 | 3.500 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 40 | 36 | 115 | 32 | 159 | 397 | 36 | 2.9 | 691 | 20 | 3.500 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 31 | 46 | 88 | 41 | 122 | 305 | 46 | 1.2 | 531 | 27 | 4.556 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 31 | 46 | 88 | 41 | 122 | 305 | 46 | 2.3 | 531 | 27 | 4.556 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 25 | 58 | 71 | 51 | 98 | 245 | 58 | 0.9 | 427 | 33 | 5.667 | GST05 - 1E □□□ 090C32 | E82MV 152_4B |
| 25 | 58 | 71 | 51 | 98 | 245 | 58 | 1.8 | 427 | 33 | 5.667 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 25 | 57 | 72 | 50 | 100 | 249 | 57 | 2.8 | 433 | 33 | 5.583 | GST07 - 1E □□□ 090C32 | E82MV 152_4B |
| 19 | 74 | 55 | 66 | 76 | 190 | 74 | 1.3 | 330 | 43 | 7.333 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 19 | 74 | 55 | 66 | 76 | 190 | 74 | 2.4 | 330 | 43 | 7.333 | GST07 - 1E □□□ 090C32 | E82MV 152_4B |
| 19 | 74 | 55 | 66 | 76 | 190 | 74 | 2.8 | 330 | 43 | 7.333 | GST09 - 1E □□□ 090C32 | E82MV 152_4B |
| 16 | 90 | 45 | 80 | 62 | 156 | 90 | 0.9 | 272 | 52 | 8.900 | GST06 - 1E □□□ 090C32 | E82MV 152_4B |
| 16 | 90 | 45 | 80 | 62 | 156 | 90 | 2.0 | 272 | 52 | 8.900 | GST07 - 1E □□□ 090C32 | E82MV 152_4B |
| 16 | 90 | 45 | 80 | 62 | 156 | 90 | 2.5 | 272 | 52 | 8.900 | GST09 - 1E □□□ 090C32 | E82MV 152_4B |
| 12 | 114 | 36 | 102 | 49 | 124 | 114 | 1.2 | 215 | 66 | 11.250 | GST07 - 1E □□□ 090C32 | E82MV 152_4B |
| 12 | 114 | 36 | 102 | 49 | 124 | 114 | 1.9 | 215 | 66 | 11.250 | GST09 - 1E □□□ 090C32 | E82MV 152_4B |
| 47 | 30 | 136 | 26 | 188 | 470 | 30 | 1.3 | 818 | 17 | 2.956 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 47 | 30 | 136 | 26 | 188 | 470 | 30 | 2.1 | 818 | 17 | 2.956 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 42 | 33 | 121 | 30 | 167 | 417 | 33 | 1.3 | 726 | 19 | 3.333 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 42 | 33 | 121 | 30 | 167 | 417 | 33 | 2.3 | 726 | 19 | 3.333 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 34 | 41 | 99 | 36 | 137 | 343 | 41 | 1.1 | 597 | 23 | 4.053 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 34 | 41 | 99 | 36 | 137 | 343 | 41 | 2.0 | 597 | 23 | 4.053 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 30 | 46 | 88 | 41 | 122 | 304 | 46 | 1.1 | 529 | 26 | 4.571 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 30 | 46 | 88 | 41 | 122 | 304 | 46 | 2.0 | 529 | 26 | 4.571 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 27 | 52 | 78 | 46 | 107 | 268 | 52 | 1.0 | 466 | 30 | 5.187 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 27 | 52 | 78 | 46 | 107 | 268 | 52 | 1.7 | 466 | 30 | 5.187 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 24 | 59 | 69 | 52 | 95 | 238 | 59 | 0.9 | 413 | 34 | 5.850 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 24 | 59 | 69 | 52 | 95 | 238 | 59 | 1.7 | 413 | 34 | 5.850 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 22 | 64 | 63 | 57 | 87 | 217 | 64 | 0.9 | 378 | 37 | 6.400 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 22 | 64 | 63 | 57 | 87 | 217 | 64 | 1.6 | 378 | 37 | 6.400 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 20 | 70 | 57 | 63 | 79 | 197 | 70 | 0.8 | 344 | 40 | 7.040 | GST04 - 2E □□□ 090C32 | E82MV 152_4B |
| 19 | 72 | 56 | 64 | 77 | 192 | 72 | 1.5 | 334 | 42 | 7.238 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 17 | 82 | 49 | 73 | 68 | 170 | 82 | 1.4 | 296 | 47 | 8.163 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 17 | 82 | 49 | 73 | 68 | 170 | 82 | 3.1 | 296 | 47 | 8.163 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 90 | 45 | 80 | 62 | 154 | 90 | 1.3 | 268 | 52 | 9.010 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 90 | 45 | 80 | 62 | 154 | 90 | 2.9 | 268 | 52 | 9.010 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 14 | 100 | 40 | 89 | 56 | 139 | 100 | 1.2 | 242 | 57 | 10.000 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 14 | 100 | 40 | 89 | 56 | 139 | 100 | 2.7 | 242 | 57 | 10.000 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 112 | 36 | 100 | 50 | 124 | 112 | 1.1 | 216 | 64 | 11.200 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 112 | 36 | 100 | 50 | 124 | 112 | 2.5 | 216 | 64 | 11.200 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------------------------|---|----------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | 87 Hz | | Dimensions see page 3-40 onwards | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|-----|---------|-----------------------|--------------|
| 11 | 130 | 31 | 116 | 43 | 107 | 130 | 1.1 | 186 | 75 | 13.016 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 11 | 126 | 32 | 112 | 44 | 111 | 126 | 2.3 | 192 | 72 | 12.571 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.7 | 144 | 28 | 128 | 39 | 97 | 144 | 1.0 | 168 | 82 | 14.356 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.7 | 143 | 28 | 127 | 39 | 97 | 143 | 2.1 | 169 | 82 | 14.286 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 8.6 | 162 | 25 | 144 | 34 | 86 | 162 | 0.9 | 149 | 93 | 16.190 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.0 | 154 | 26 | 137 | 36 | 90 | 154 | 2.1 | 157 | 88 | 15.400 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.9 | 175 | 23 | 156 | 32 | 79 | 175 | 0.8 | 138 | 101 | 17.500 | GST05 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.9 | 175 | 23 | 156 | 32 | 79 | 175 | 1.8 | 138 | 101 | 17.500 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.9 | 200 | 20 | 178 | 28 | 69 | 200 | 1.7 | 121 | 115 | 20.044 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.1 | 228 | 18 | 203 | 24 | 61 | 228 | 1.4 | 106 | 131 | 22.778 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.1 | 228 | 18 | 203 | 24 | 61 | 228 | 3.0 | 106 | 131 | 22.778 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.6 | 249 | 16 | 222 | 22 | 56 | 249 | 1.4 | 97 | 143 | 24.933 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.7 | 246 | 16 | 219 | 23 | 57 | 246 | 2.8 | 98 | 141 | 24.567 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.9 | 283 | 14 | 252 | 20 | 49 | 283 | 1.1 | 85 | 163 | 28.333 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.0 | 279 | 14 | 248 | 20 | 50 | 279 | 2.5 | 87 | 160 | 27.917 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 323 | 12 | 287 | 17 | 43 | 323 | 1.1 | 75 | 185 | 32.267 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 323 | 12 | 287 | 17 | 43 | 323 | 2.2 | 75 | 185 | 32.267 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 323 | 12 | 287 | 17 | 43 | 323 | 2.8 | 75 | 185 | 32.267 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 367 | 11 | 326 | 15 | 38 | 367 | 0.9 | 66 | 211 | 36.667 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 367 | 11 | 326 | 15 | 38 | 367 | 1.9 | 66 | 211 | 36.667 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 367 | 11 | 326 | 15 | 38 | 367 | 2.8 | 66 | 211 | 36.667 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.6 | 392 | 10 | 348 | 14 | 36 | 392 | 0.9 | 62 | 225 | 39.160 | GST06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.6 | 392 | 10 | 348 | 14 | 36 | 392 | 1.8 | 62 | 225 | 39.160 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.6 | 392 | 10 | 348 | 14 | 36 | 392 | 2.5 | 62 | 225 | 39.160 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.1 | 445 | 9.1 | 396 | 12 | 31 | 445 | 1.6 | 54 | 256 | 44.500 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.1 | 445 | 9.1 | 396 | 12 | 31 | 445 | 2.5 | 54 | 256 | 44.500 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.8 | 495 | 8.1 | 440 | 11 | 28 | 495 | 1.2 | 49 | 284 | 49.500 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.8 | 495 | 8.1 | 440 | 11 | 28 | 495 | 1.9 | 49 | 284 | 49.500 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.5 | 562 | 7.2 | 501 | 9.9 | 25 | 562 | 1.2 | 43 | 323 | 56.250 | GST07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.5 | 562 | 7.2 | 501 | 9.9 | 25 | 562 | 1.9 | 43 | 323 | 56.250 | GST09 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.4 | 571 | 7 | 508 | 9.6 | 24 | 571 | 4.1 | 42 | 328 | 57.968 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.1 | 641 | 6.2 | 570 | 8.6 | 21 | 641 | 1.1 | 37 | 368 | 65.079 | GST07 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.3 | 594 | 6.7 | 528 | 9.2 | 23 | 594 | 2.6 | 40 | 341 | 60.278 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.0 | 691 | 5.7 | 615 | 7.9 | 20 | 691 | 1.0 | 34 | 397 | 70.156 | GST07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.9 | 708 | 5.6 | 630 | 7.7 | 19 | 708 | 2.1 | 34 | 407 | 71.867 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.7 | 786 | 5.1 | 699 | 7.0 | 17 | 786 | 0.9 | 30 | 451 | 79.762 | GST07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.7 | 804 | 4.9 | 716 | 6.8 | 17 | 804 | 2.0 | 30 | 462 | 81.667 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.6 | 847 | 4.7 | 754 | 6.5 | 16 | 847 | 0.8 | 28 | 487 | 85.983 | GST07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 921 | 4.3 | 820 | 6.0 | 15 | 921 | 1.8 | 26 | 529 | 93.541 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.4 | 977 | 4.1 | 869 | 5.6 | 14 | 977 | 1.6 | 24 | 561 | 99.167 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.2 | 1119 | 3.5 | 996 | 4.9 | 12 | 1119 | 1.4 | 21 | 643 | 113.585 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.1 | 1271 | 3.1 | 1131 | 4.3 | 11 | 1271 | 1.3 | 19 | 731 | 129.074 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.1 | 1271 | 3.1 | 1131 | 4.3 | 11 | 1271 | 2.2 | 19 | 731 | 129.074 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.0 | 1391 | 2.9 | 1238 | 3.9 | 9.8 | 1391 | 1.2 | 17 | 800 | 141.289 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1448 | 2.7 | 1288 | 3.8 | 9.5 | 1448 | 1.9 | 16 | 832 | 146.993 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1581 | 2.5 | 1407 | 3.5 | 8.7 | 1581 | 1.0 | 15 | 909 | 160.556 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1558 | 2.5 | 1387 | 3.5 | 8.8 | 1558 | 1.8 | 15 | 895 | 158.194 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|-------|----------------------|----------------------------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | [rpm] | [Nm] | Dimensions see page 3-40 onwards |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 0.8 | 1801 | 2.2 | 1603 | 3.0 | 7.6 | 1801 | 0.9 | 13 | 1035 | 182.844 | GST09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1774 | 2.2 | 1579 | 3.1 | 7.7 | 1774 | 1.5 | 13 | 1020 | 180.156 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 2046 | 1.9 | 1821 | 2.7 | 6.7 | 2046 | 1.4 | 12 | 1176 | 207.778 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 2016 | 2 | 1794 | 2.7 | 6.8 | 2016 | 2.8 | 12 | 1159 | 204.722 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2330 | 1.7 | 2074 | 2.3 | 5.9 | 2330 | 1.2 | 10 | 1339 | 236.622 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2330 | 1.7 | 2074 | 2.3 | 5.9 | 2330 | 2.5 | 10 | 1339 | 236.622 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2483 | 1.6 | 2210 | 2.2 | 5.5 | 2483 | 1.1 | 10 | 1427 | 252.167 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2447 | 1.6 | 2178 | 2.2 | 5.6 | 2447 | 2.4 | 10 | 1406 | 248.458 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2648 | 1.5 | 2357 | 2.1 | 5.2 | 2648 | 1.1 | 9 | 1522 | 268.889 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2648 | 1.5 | 2357 | 2.1 | 5.2 | 2648 | 2.2 | 9 | 1522 | 268.889 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3214 | 1.2 | 2860 | 1.7 | 4.3 | 3214 | 0.9 | 7 | 1847 | 326.333 | GST11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3214 | 1.2 | 2860 | 1.7 | 4.3 | 3214 | 1.8 | 7 | 1847 | 326.333 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3575 | 1.1 | 3182 | 1.5 | 3.8 | 3575 | 1.6 | 7 | 2055 | 363.000 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 4062 | 1 | 3616 | 1.3 | 3.4 | 4062 | 1.5 | 6 | 2335 | 412.500 | GST14 - 3E □□□ 090C32 | E82MV 152_4B |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|------|----|--------|-----------------------|--------------|
| 90 | 23 | 261 | 20 | 360 | 900 | 23 | 1.9 | 1566 | 13 | 1.600 | GST05 - 1E □□□ 100C12 | E82MV 222_4B |
| 90 | 23 | 261 | 20 | 360 | 900 | 23 | 2.7 | 1566 | 13 | 1.600 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 70 | 29 | 204 | 26 | 281 | 703 | 29 | 1.8 | 1224 | 17 | 2.048 | GST05 - 1E □□□ 100C12 | E82MV 222_4B |
| 70 | 29 | 204 | 26 | 281 | 703 | 29 | 2.5 | 1224 | 17 | 2.048 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 64 | 32 | 186 | 29 | 257 | 643 | 32 | 1.6 | 1119 | 18 | 2.240 | GST05 - 1E □□□ 100C12 | E82MV 222_4B |
| 64 | 32 | 186 | 29 | 257 | 643 | 32 | 2.4 | 1119 | 18 | 2.240 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 50 | 41 | 146 | 37 | 202 | 504 | 41 | 1.3 | 877 | 24 | 2.857 | GST05 - 1E □□□ 100C12 | E82MV 222_4B |
| 50 | 41 | 146 | 37 | 202 | 504 | 41 | 2.3 | 877 | 24 | 2.857 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 41 | 50 | 119 | 45 | 165 | 411 | 50 | 1.1 | 716 | 29 | 3.500 | GST05 - 1E □□□ 100C12 | E82MV 222_4B |
| 41 | 50 | 119 | 45 | 165 | 411 | 50 | 2.1 | 716 | 29 | 3.500 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 32 | 66 | 92 | 58 | 126 | 316 | 66 | 1.6 | 550 | 38 | 4.556 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 32 | 66 | 92 | 58 | 126 | 316 | 66 | 2.8 | 550 | 38 | 4.556 | GST07 - 1E □□□ 100C12 | E82MV 222_4B |
| 25 | 81 | 74 | 72 | 102 | 254 | 81 | 1.3 | 442 | 47 | 5.667 | GST06 - 1E □□□ 100C12 | E82MV 222_4B |
| 26 | 80 | 75 | 71 | 103 | 258 | 80 | 2.4 | 449 | 46 | 5.583 | GST07 - 1E □□□ 100C12 | E82MV 222_4B |
| 20 | 105 | 57 | 94 | 79 | 196 | 105 | 1.9 | 342 | 61 | 7.333 | GST07 - 1E □□□ 100C12 | E82MV 222_4B |
| 20 | 105 | 57 | 94 | 79 | 196 | 105 | 2.8 | 342 | 61 | 7.333 | GST09 - 1E □□□ 100C12 | E82MV 222_4B |
| 16 | 128 | 47 | 114 | 65 | 162 | 128 | 1.4 | 282 | 74 | 8.900 | GST07 - 1E □□□ 100C12 | E82MV 222_4B |
| 16 | 128 | 47 | 114 | 65 | 162 | 128 | 2.3 | 282 | 74 | 8.900 | GST09 - 1E □□□ 100C12 | E82MV 222_4B |
| 13 | 162 | 37 | 144 | 51 | 128 | 162 | 1.8 | 223 | 93 | 11.250 | GST09 - 1E □□□ 100C12 | E82MV 222_4B |
| 49 | 42 | 141 | 37 | 195 | 487 | 42 | 1.5 | 848 | 24 | 2.956 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 43 | 47 | 125 | 42 | 173 | 432 | 47 | 1.7 | 752 | 27 | 3.333 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 36 | 57 | 103 | 51 | 142 | 355 | 57 | 1.4 | 618 | 33 | 4.053 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 35 | 59 | 100 | 52 | 138 | 346 | 59 | 3.2 | 602 | 34 | 4.160 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 32 | 65 | 91 | 58 | 126 | 315 | 65 | 1.4 | 548 | 37 | 4.571 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 32 | 65 | 91 | 58 | 126 | 315 | 65 | 3.1 | 548 | 37 | 4.571 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 28 | 73 | 81 | 65 | 111 | 278 | 73 | 1.2 | 483 | 42 | 5.187 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 27 | 75 | 78 | 67 | 108 | 271 | 75 | 2.8 | 471 | 43 | 5.324 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 25 | 83 | 71 | 74 | 98 | 246 | 83 | 1.2 | 428 | 48 | 5.850 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 25 | 83 | 71 | 74 | 98 | 246 | 83 | 2.7 | 428 | 48 | 5.850 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|-----|--------|-----------------------|--------------|
| 23 | 91 | 65 | 81 | 90 | 225 | 91 | 1.2 | 392 | 52 | 6.400 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 23 | 91 | 65 | 81 | 90 | 225 | 91 | 2.5 | 392 | 52 | 6.400 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 20 | 103 | 58 | 91 | 80 | 199 | 103 | 1.1 | 346 | 59 | 7.238 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 20 | 100 | 59 | 89 | 82 | 205 | 100 | 2.4 | 356 | 57 | 7.040 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 18 | 116 | 51 | 103 | 71 | 176 | 116 | 1.0 | 307 | 66 | 8.163 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 18 | 116 | 51 | 103 | 71 | 176 | 116 | 2.2 | 307 | 66 | 8.163 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 16 | 128 | 46 | 114 | 64 | 160 | 128 | 0.9 | 278 | 73 | 9.010 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 16 | 128 | 46 | 114 | 64 | 160 | 128 | 2.0 | 278 | 73 | 9.010 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 14 | 142 | 42 | 126 | 58 | 144 | 142 | 0.9 | 251 | 81 | 10.000 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 14 | 142 | 42 | 126 | 58 | 144 | 142 | 1.9 | 251 | 81 | 10.000 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 159 | 37 | 141 | 51 | 129 | 159 | 0.8 | 224 | 91 | 11.200 | GST05 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 159 | 37 | 141 | 51 | 129 | 159 | 1.8 | 224 | 91 | 11.200 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 178 | 33 | 158 | 46 | 115 | 178 | 1.7 | 199 | 102 | 12.571 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 10 | 202 | 29 | 180 | 40 | 101 | 202 | 1.5 | 175 | 116 | 14.286 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 10 | 202 | 29 | 180 | 40 | 101 | 202 | 3.2 | 175 | 116 | 14.286 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.4 | 218 | 27 | 194 | 37 | 94 | 218 | 1.5 | 163 | 125 | 15.400 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.4 | 218 | 27 | 194 | 37 | 94 | 218 | 3.0 | 163 | 125 | 15.400 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.2 | 248 | 24 | 220 | 33 | 82 | 248 | 1.3 | 143 | 142 | 17.500 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.2 | 248 | 24 | 220 | 33 | 82 | 248 | 2.7 | 143 | 142 | 17.500 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.2 | 284 | 21 | 253 | 29 | 72 | 284 | 1.2 | 125 | 163 | 20.044 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.2 | 284 | 21 | 253 | 29 | 72 | 284 | 2.4 | 125 | 163 | 20.044 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.3 | 322 | 18 | 287 | 25 | 63 | 322 | 1.0 | 110 | 185 | 22.778 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.3 | 322 | 18 | 287 | 25 | 63 | 322 | 2.1 | 110 | 185 | 22.778 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.8 | 353 | 17 | 314 | 23 | 58 | 353 | 1.0 | 100 | 203 | 24.933 | GST06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.9 | 348 | 17 | 309 | 23 | 59 | 348 | 2.0 | 102 | 200 | 24.567 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.2 | 395 | 15 | 352 | 21 | 52 | 395 | 1.7 | 90 | 227 | 27.917 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 457 | 13 | 406 | 18 | 45 | 457 | 1.5 | 78 | 262 | 32.267 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 457 | 13 | 406 | 18 | 45 | 457 | 2.8 | 78 | 262 | 32.267 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.9 | 519 | 11 | 462 | 16 | 39 | 519 | 1.4 | 68 | 298 | 36.667 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.9 | 519 | 11 | 462 | 16 | 39 | 519 | 2.8 | 68 | 298 | 36.667 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.7 | 554 | 11 | 493 | 15 | 37 | 554 | 1.3 | 64 | 319 | 39.160 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.7 | 554 | 11 | 493 | 15 | 37 | 554 | 2.3 | 64 | 319 | 39.160 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.7 | 554 | 11 | 493 | 15 | 37 | 554 | 2.9 | 64 | 319 | 39.160 | GST11 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.2 | 630 | 9.4 | 561 | 13 | 32 | 630 | 1.1 | 56 | 362 | 44.500 | GST07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.2 | 630 | 9.4 | 561 | 13 | 32 | 630 | 2.3 | 56 | 362 | 44.500 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.2 | 630 | 9.4 | 561 | 13 | 32 | 630 | 2.9 | 56 | 362 | 44.500 | GST11 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.9 | 701 | 8.4 | 624 | 12 | 29 | 701 | 1.8 | 51 | 403 | 49.500 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.9 | 701 | 8.4 | 624 | 12 | 29 | 701 | 2.3 | 51 | 403 | 49.500 | GST11 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.6 | 796 | 7.4 | 709 | 10 | 26 | 796 | 1.8 | 45 | 458 | 56.250 | GST09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.6 | 796 | 7.4 | 709 | 10 | 26 | 796 | 2.3 | 45 | 458 | 56.250 | GST11 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.5 | 808 | 7.2 | 719 | 9.9 | 25 | 808 | 3.2 | 43 | 464 | 57.968 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.4 | 840 | 6.9 | 748 | 9.6 | 24 | 840 | 1.9 | 42 | 483 | 60.278 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.4 | 854 | 6.8 | 760 | 9.4 | 24 | 854 | 3.2 | 41 | 491 | 61.250 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 1002 | 5.8 | 892 | 8.0 | 20 | 1002 | 1.5 | 35 | 576 | 71.867 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 990 | 5.9 | 881 | 8.1 | 20 | 990 | 2.7 | 35 | 569 | 71.011 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.8 | 1139 | 5.1 | 1013 | 7.0 | 18 | 1139 | 1.4 | 31 | 654 | 81.667 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.8 | 1125 | 5.2 | 1001 | 7.1 | 18 | 1125 | 2.5 | 31 | 647 | 80.694 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 1.5 | 1304 | 4.5 | 1161 | 6.2 | 15 | 1304 | 1.2 | 27 | 750 | 93.541 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.7 | 1217 | 4.8 | 1083 | 6.6 | 17 | 1217 | 2.2 | 29 | 699 | 87.267 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.5 | 1383 | 4.2 | 1231 | 5.8 | 15 | 1383 | 1.2 | 25 | 795 | 99.167 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.5 | 1383 | 4.2 | 1231 | 5.8 | 15 | 1383 | 2.0 | 25 | 795 | 99.167 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1584 | 3.7 | 1409 | 5.1 | 13 | 1584 | 1.0 | 22 | 910 | 113.585 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1575 | 3.7 | 1401 | 5.1 | 13 | 1575 | 1.7 | 22 | 905 | 112.933 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.1 | 1800 | 3.2 | 1602 | 4.5 | 11 | 1800 | 0.9 | 19 | 1034 | 129.074 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.1 | 1800 | 3.2 | 1602 | 4.5 | 11 | 1800 | 1.6 | 19 | 1034 | 129.074 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 1970 | 3 | 1753 | 4.1 | 10 | 1970 | 0.8 | 18 | 1132 | 141.289 | GST09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 2049 | 2.8 | 1824 | 3.9 | 9.8 | 2049 | 1.3 | 17 | 1178 | 146.993 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 1941 | 3 | 1727 | 4.1 | 10 | 1941 | 3.0 | 18 | 1115 | 139.211 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2206 | 2.6 | 1963 | 3.6 | 9.1 | 2206 | 1.3 | 16 | 1268 | 158.194 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2206 | 2.6 | 1963 | 3.6 | 9.1 | 2206 | 2.7 | 16 | 1268 | 158.194 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2512 | 2.3 | 2236 | 3.2 | 8.0 | 2512 | 1.1 | 14 | 1444 | 180.156 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2386 | 2.4 | 2123 | 3.4 | 8.4 | 2386 | 2.5 | 15 | 1371 | 171.111 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2897 | 2 | 2578 | 2.8 | 6.9 | 2897 | 1.0 | 12 | 1665 | 207.778 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2854 | 2 | 2540 | 2.8 | 7.0 | 2854 | 2.1 | 12 | 1640 | 204.722 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3299 | 1.8 | 2936 | 2.4 | 6.1 | 3299 | 0.8 | 11 | 1896 | 236.622 | GST11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3299 | 1.8 | 2936 | 2.4 | 6.1 | 3299 | 1.8 | 11 | 1896 | 236.622 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3464 | 1.7 | 3083 | 2.3 | 5.8 | 3464 | 1.7 | 10 | 1991 | 248.458 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.5 | 3749 | 1.6 | 3337 | 2.1 | 5.4 | 3749 | 1.6 | 9 | 2155 | 268.889 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4550 | 1.3 | 4049 | 1.8 | 4.4 | 4550 | 1.3 | 8 | 2615 | 326.333 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 5061 | 1.2 | 4504 | 1.6 | 4.0 | 5061 | 1.1 | 7 | 2909 | 363.000 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 5751 | 1 | 5119 | 1.4 | 3.5 | 5751 | 1.0 | 6 | 3305 | 412.500 | GST14 - 3E □□□ 100C12 | E82MV 222_4B |

P₁ = 3 kW

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------|-----------------------|--------------|
| 89 | 32 | 259 | 28 | 358 | 894 | 32 | 1.4 | 1555 | 18 | 1.600 | GST05 - 1E □□□ 100C32 | E82MV 302_4B |
| 89 | 32 | 259 | 28 | 358 | 894 | 32 | 1.9 | 1555 | 18 | 1.600 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 70 | 40 | 203 | 36 | 279 | 698 | 40 | 1.3 | 1215 | 23 | 2.048 | GST05 - 1E □□□ 100C32 | E82MV 302_4B |
| 70 | 40 | 203 | 36 | 279 | 698 | 40 | 1.8 | 1215 | 23 | 2.048 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 72 | 40 | 207 | 35 | 286 | 715 | 40 | 3.1 | 1244 | 23 | 2.000 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 64 | 44 | 185 | 39 | 255 | 638 | 44 | 1.2 | 1111 | 25 | 2.240 | GST05 - 1E □□□ 100C32 | E82MV 302_4B |
| 64 | 44 | 185 | 39 | 255 | 638 | 44 | 1.8 | 1111 | 25 | 2.240 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 64 | 44 | 185 | 39 | 255 | 638 | 44 | 3.0 | 1111 | 25 | 2.240 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 50 | 56 | 145 | 50 | 200 | 501 | 56 | 0.9 | 871 | 32 | 2.857 | GST05 - 1E □□□ 100C32 | E82MV 302_4B |
| 50 | 56 | 145 | 50 | 200 | 501 | 56 | 1.6 | 871 | 32 | 2.857 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 50 | 56 | 145 | 50 | 200 | 501 | 56 | 2.8 | 871 | 32 | 2.857 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 41 | 69 | 118 | 61 | 163 | 409 | 69 | 1.5 | 711 | 40 | 3.500 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 41 | 69 | 118 | 61 | 163 | 409 | 69 | 2.5 | 711 | 40 | 3.500 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 31 | 90 | 91 | 80 | 126 | 314 | 90 | 1.2 | 546 | 52 | 4.556 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 31 | 90 | 91 | 80 | 126 | 314 | 90 | 2.1 | 546 | 52 | 4.556 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 31 | 92 | 89 | 82 | 123 | 306 | 92 | 2.9 | 533 | 53 | 4.667 | GST09 - 1E □□□ 100C32 | E82MV 302_4B |
| 25 | 112 | 73 | 100 | 101 | 252 | 112 | 0.9 | 439 | 64 | 5.667 | GST06 - 1E □□□ 100C32 | E82MV 302_4B |
| 26 | 110 | 74 | 98 | 102 | 256 | 110 | 1.8 | 446 | 63 | 5.583 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 25 | 112 | 73 | 100 | 101 | 252 | 112 | 2.5 | 439 | 64 | 5.667 | GST09 - 1E □□□ 100C32 | E82MV 302_4B |
| 20 | 145 | 57 | 129 | 78 | 195 | 145 | 1.4 | 339 | 83 | 7.333 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 20 | 145 | 57 | 129 | 78 | 195 | 145 | 2.0 | 339 | 83 | 7.333 | GST09 - 1E □□□ 100C32 | E82MV 302_4B |
| 16 | 176 | 47 | 156 | 64 | 161 | 176 | 1.0 | 280 | 101 | 8.900 | GST07 - 1E □□□ 100C32 | E82MV 302_4B |
| 16 | 176 | 47 | 156 | 64 | 161 | 176 | 1.7 | 280 | 101 | 8.900 | GST09 - 1E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 13 | 222 | 37 | 198 | 51 | 127 | 222 | 1.3 | 221 | 128 | 11.250 | GST09 - 1E □□□ 100C32 | E82MV 302_4B |
| 48 | 57 | 140 | 51 | 194 | 484 | 57 | 1.1 | 842 | 33 | 2.956 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 47 | 59 | 137 | 52 | 189 | 471 | 59 | 2.8 | 820 | 34 | 3.033 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 43 | 65 | 124 | 58 | 172 | 429 | 65 | 1.2 | 746 | 37 | 3.333 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 43 | 65 | 124 | 58 | 172 | 429 | 65 | 2.7 | 746 | 37 | 3.333 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 35 | 79 | 102 | 70 | 141 | 353 | 79 | 1.0 | 614 | 45 | 4.053 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 34 | 81 | 100 | 72 | 138 | 344 | 81 | 2.4 | 598 | 46 | 4.160 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 31 | 89 | 91 | 79 | 125 | 313 | 89 | 1.0 | 544 | 51 | 4.571 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 31 | 89 | 91 | 79 | 125 | 313 | 89 | 2.2 | 544 | 51 | 4.571 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 28 | 101 | 80 | 90 | 110 | 276 | 101 | 0.9 | 480 | 58 | 5.187 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 27 | 104 | 78 | 92 | 107 | 269 | 104 | 2.0 | 467 | 59 | 5.324 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 24 | 114 | 71 | 101 | 98 | 244 | 114 | 0.9 | 425 | 65 | 5.850 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 24 | 114 | 71 | 101 | 98 | 244 | 114 | 2.0 | 425 | 65 | 5.850 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 22 | 124 | 65 | 111 | 89 | 223 | 124 | 0.8 | 389 | 71 | 6.400 | GST05 - 2E □□□ 100C32 | E82MV 302_4B |
| 22 | 124 | 65 | 111 | 89 | 223 | 124 | 1.8 | 389 | 71 | 6.400 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 20 | 137 | 59 | 122 | 81 | 203 | 137 | 1.7 | 353 | 79 | 7.040 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 18 | 159 | 51 | 141 | 70 | 175 | 159 | 1.6 | 305 | 91 | 8.163 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 16 | 175 | 46 | 156 | 63 | 159 | 175 | 1.5 | 276 | 101 | 9.010 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 16 | 171 | 47 | 152 | 65 | 163 | 171 | 3.1 | 283 | 98 | 8.800 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 14 | 194 | 41 | 173 | 57 | 143 | 194 | 1.4 | 249 | 112 | 10.000 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 15 | 192 | 42 | 170 | 58 | 145 | 192 | 2.9 | 252 | 110 | 9.856 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 13 | 218 | 37 | 194 | 51 | 128 | 218 | 1.3 | 222 | 125 | 11.200 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 13 | 218 | 37 | 194 | 51 | 128 | 218 | 2.7 | 222 | 125 | 11.200 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 244 | 33 | 217 | 46 | 114 | 244 | 1.2 | 198 | 140 | 12.571 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 244 | 33 | 217 | 46 | 114 | 244 | 2.5 | 198 | 140 | 12.571 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 10 | 278 | 29 | 247 | 40 | 100 | 278 | 1.1 | 174 | 160 | 14.286 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 10 | 278 | 29 | 247 | 40 | 100 | 278 | 2.3 | 174 | 160 | 14.286 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.3 | 299 | 27 | 266 | 37 | 93 | 299 | 1.1 | 162 | 172 | 15.400 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.3 | 299 | 27 | 266 | 37 | 93 | 299 | 2.2 | 162 | 172 | 15.400 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 8.2 | 340 | 24 | 303 | 33 | 82 | 340 | 0.9 | 142 | 195 | 17.500 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 8.2 | 340 | 24 | 303 | 33 | 82 | 340 | 2.0 | 142 | 195 | 17.500 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.1 | 390 | 21 | 347 | 29 | 71 | 390 | 0.9 | 124 | 224 | 20.044 | GST06 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.1 | 390 | 21 | 347 | 29 | 71 | 390 | 1.8 | 124 | 224 | 20.044 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.0 | 399 | 20 | 355 | 28 | 70 | 399 | 2.9 | 121 | 229 | 20.533 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 6.3 | 443 | 18 | 394 | 25 | 63 | 443 | 1.5 | 109 | 254 | 22.778 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 6.1 | 454 | 18 | 404 | 25 | 61 | 454 | 2.9 | 107 | 261 | 23.333 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.8 | 478 | 17 | 425 | 23 | 58 | 478 | 1.5 | 101 | 274 | 24.567 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.7 | 485 | 17 | 431 | 23 | 57 | 485 | 2.5 | 100 | 279 | 24.933 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.1 | 543 | 15 | 483 | 20 | 51 | 543 | 1.3 | 89 | 312 | 27.917 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.1 | 551 | 15 | 490 | 20 | 51 | 551 | 2.5 | 88 | 317 | 28.333 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 627 | 13 | 558 | 18 | 44 | 627 | 1.1 | 77 | 360 | 32.267 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 627 | 13 | 558 | 18 | 44 | 627 | 2.0 | 77 | 360 | 32.267 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 627 | 13 | 558 | 18 | 44 | 627 | 2.5 | 77 | 360 | 32.267 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 713 | 11 | 634 | 16 | 39 | 713 | 1.0 | 68 | 410 | 36.667 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 713 | 11 | 634 | 16 | 39 | 713 | 2.0 | 68 | 410 | 36.667 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 713 | 11 | 634 | 16 | 39 | 713 | 2.5 | 68 | 410 | 36.667 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 3-40 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 3.7 | 761 | 11 | 677 | 15 | 37 | 761 | 0.9 | 64 | 437 | 39.160 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.7 | 761 | 11 | 677 | 15 | 37 | 761 | 1.7 | 64 | 437 | 39.160 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.7 | 761 | 11 | 677 | 15 | 37 | 761 | 2.1 | 64 | 437 | 39.160 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 865 | 9.3 | 770 | 13 | 32 | 865 | 0.8 | 56 | 497 | 44.500 | GST07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 865 | 9.3 | 770 | 13 | 32 | 865 | 1.7 | 56 | 497 | 44.500 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 865 | 9.3 | 770 | 13 | 32 | 865 | 2.1 | 56 | 497 | 44.500 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.9 | 962 | 8.4 | 856 | 12 | 29 | 962 | 1.3 | 50 | 553 | 49.500 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.9 | 962 | 8.4 | 856 | 12 | 29 | 962 | 1.7 | 50 | 553 | 49.500 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1093 | 7.4 | 973 | 10 | 25 | 1093 | 1.3 | 44 | 628 | 56.250 | GST09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1093 | 7.4 | 973 | 10 | 25 | 1093 | 1.7 | 44 | 628 | 56.250 | GST11 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1110 | 7.2 | 988 | 9.9 | 25 | 1110 | 2.3 | 43 | 638 | 57.968 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.4 | 1154 | 6.9 | 1027 | 9.5 | 24 | 1154 | 1.4 | 41 | 663 | 60.278 | GST09 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.3 | 1173 | 6.8 | 1044 | 9.3 | 23 | 1173 | 2.3 | 41 | 674 | 61.250 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1376 | 5.8 | 1225 | 8.0 | 20 | 1376 | 1.1 | 35 | 791 | 71.867 | GST09 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1360 | 5.8 | 1210 | 8.0 | 20 | 1360 | 1.9 | 35 | 781 | 71.011 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1564 | 5.1 | 1392 | 7.0 | 18 | 1564 | 1.0 | 30 | 899 | 81.667 | GST09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1545 | 5.1 | 1375 | 7.1 | 18 | 1545 | 1.8 | 31 | 888 | 80.694 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.5 | 1791 | 4.4 | 1594 | 6.1 | 15 | 1791 | 0.9 | 27 | 1029 | 93.541 | GST09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.6 | 1671 | 4.8 | 1487 | 6.6 | 16 | 1671 | 1.6 | 29 | 960 | 87.267 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.5 | 1791 | 4.4 | 1594 | 6.1 | 15 | 1791 | 2.9 | 27 | 1029 | 93.541 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 1899 | 4.2 | 1690 | 5.8 | 14 | 1899 | 0.8 | 25 | 1091 | 99.167 | GST09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 1899 | 4.2 | 1690 | 5.8 | 14 | 1899 | 1.5 | 25 | 1091 | 99.167 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2162 | 3.7 | 1924 | 5.1 | 13 | 2162 | 1.2 | 22 | 1243 | 112.933 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 2035 | 3.9 | 1811 | 5.4 | 14 | 2035 | 2.9 | 23 | 1170 | 106.296 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2471 | 3.2 | 2199 | 4.4 | 11 | 2471 | 1.1 | 19 | 1420 | 129.074 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2494 | 3.2 | 2220 | 4.4 | 11 | 2494 | 2.4 | 19 | 1433 | 130.278 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.0 | 2814 | 2.8 | 2505 | 3.9 | 9.7 | 2814 | 1.0 | 17 | 1617 | 146.993 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.0 | 2665 | 3 | 2372 | 4.1 | 10 | 2665 | 2.2 | 18 | 1532 | 139.211 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 3029 | 2.6 | 2696 | 3.6 | 9.0 | 3029 | 0.9 | 16 | 1741 | 158.194 | GST11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 3029 | 2.6 | 2696 | 3.6 | 9.0 | 3029 | 2.0 | 16 | 1741 | 158.194 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.8 | 3276 | 2.4 | 2916 | 3.3 | 8.4 | 3276 | 1.8 | 15 | 1883 | 171.111 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.7 | 3920 | 2 | 3488 | 2.8 | 7.0 | 3920 | 1.5 | 12 | 2253 | 204.722 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4530 | 1.8 | 4032 | 2.4 | 6.0 | 4530 | 1.3 | 11 | 2604 | 236.622 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4757 | 1.7 | 4234 | 2.3 | 5.8 | 4757 | 1.2 | 10 | 2734 | 248.458 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.5 | 5148 | 1.5 | 4582 | 2.1 | 5.3 | 5148 | 1.2 | 9 | 2959 | 268.889 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6248 | 1.3 | 5561 | 1.8 | 4.4 | 6248 | 0.9 | 8 | 3591 | 326.333 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6950 | 1.1 | 6185 | 1.6 | 3.9 | 6950 | 0.8 | 7 | 3994 | 363.000 | GST14 - 3E □□□ 100C32 | E82MV 302_4B |

P₁ = 4 kW

| | | | | | | | | | | | | |
|----|----|-----|----|-----|-----|----|-----|------|----|-------|-----------------------|--------------|
| 91 | 42 | 263 | 36 | 363 | 906 | 42 | 1.5 | 1577 | 24 | 1.600 | GST06 - 1E □□□ 112C22 | E82MV 402_4B |
| 89 | 42 | 259 | 36 | 357 | 892 | 42 | 2.5 | 1553 | 24 | 1.625 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 71 | 53 | 205 | 46 | 283 | 708 | 53 | 1.4 | 1232 | 31 | 2.048 | GST06 - 1E □□□ 112C22 | E82MV 402_4B |
| 73 | 52 | 210 | 45 | 290 | 725 | 52 | 2.4 | 1262 | 30 | 2.000 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 65 | 58 | 188 | 50 | 259 | 647 | 58 | 1.4 | 1126 | 33 | 2.240 | GST06 - 1E □□□ 112C22 | E82MV 402_4B |
| 65 | 58 | 188 | 50 | 259 | 647 | 58 | 2.3 | 1126 | 33 | 2.240 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | i | Helical geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|---------------------------------|-------|------------------------------------|------------------------|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | 87 Hz | | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ 50 Hz [Nm] | c | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 3-40 onwards

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 51 | 74 | 147 | 64 | 203 | 508 | 74 | 1.2 | 883 | 43 | 2.857 | GST06 - 1E □□□ 112C22 | E82MV 402_4B |
| 51 | 74 | 147 | 64 | 203 | 508 | 74 | 2.1 | 883 | 43 | 2.857 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 41 | 91 | 120 | 78 | 166 | 414 | 91 | 1.2 | 721 | 52 | 3.500 | GST06 - 1E □□□ 112C22 | E82MV 402_4B |
| 41 | 91 | 120 | 78 | 166 | 414 | 91 | 1.9 | 721 | 52 | 3.500 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 32 | 118 | 92 | 102 | 127 | 318 | 118 | 1.6 | 554 | 68 | 4.556 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 31 | 121 | 90 | 104 | 124 | 311 | 121 | 2.6 | 541 | 70 | 4.667 | GST09 - 1E □□□ 112C22 | E82MV 402_4B |
| 26 | 145 | 75 | 125 | 104 | 260 | 145 | 1.4 | 452 | 83 | 5.583 | GST07 - 1E □□□ 112C22 | E82MV 402_4B |
| 26 | 147 | 74 | 126 | 102 | 256 | 147 | 2.2 | 445 | 85 | 5.667 | GST09 - 1E □□□ 112C22 | E82MV 402_4B |
| 20 | 190 | 57 | 164 | 79 | 198 | 190 | 1.7 | 344 | 109 | 7.333 | GST09 - 1E □□□ 112C22 | E82MV 402_4B |
| 16 | 231 | 47 | 199 | 65 | 163 | 231 | 1.5 | 283 | 133 | 8.900 | GST09 - 1E □□□ 112C22 | E82MV 402_4B |
| 48 | 78 | 139 | 67 | 191 | 478 | 78 | 2.1 | 832 | 45 | 3.033 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 44 | 85 | 126 | 73 | 174 | 435 | 85 | 2.0 | 757 | 49 | 3.333 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 35 | 106 | 101 | 91 | 139 | 349 | 106 | 1.8 | 606 | 61 | 4.160 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 32 | 117 | 92 | 100 | 127 | 317 | 117 | 1.7 | 552 | 67 | 4.571 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 27 | 136 | 79 | 117 | 109 | 272 | 136 | 1.5 | 474 | 78 | 5.324 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 28 | 133 | 81 | 114 | 112 | 279 | 133 | 3.2 | 485 | 76 | 5.200 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 25 | 150 | 72 | 129 | 99 | 248 | 150 | 1.5 | 431 | 86 | 5.850 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 25 | 146 | 74 | 126 | 102 | 254 | 146 | 3.1 | 442 | 84 | 5.714 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 23 | 164 | 66 | 141 | 91 | 227 | 164 | 1.4 | 394 | 94 | 6.400 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 23 | 164 | 66 | 141 | 91 | 227 | 164 | 2.8 | 394 | 94 | 6.400 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 21 | 180 | 60 | 155 | 82 | 206 | 180 | 1.3 | 358 | 103 | 7.040 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 20 | 183 | 59 | 157 | 81 | 203 | 183 | 2.7 | 353 | 105 | 7.150 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 18 | 209 | 52 | 179 | 71 | 178 | 209 | 1.2 | 309 | 120 | 8.163 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 18 | 208 | 52 | 179 | 71 | 179 | 208 | 2.6 | 311 | 119 | 8.125 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 16 | 230 | 47 | 198 | 64 | 161 | 230 | 1.1 | 280 | 132 | 9.010 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 16 | 225 | 48 | 193 | 66 | 165 | 225 | 2.3 | 287 | 129 | 8.800 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 15 | 256 | 42 | 220 | 58 | 145 | 256 | 1.1 | 252 | 147 | 10.000 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 15 | 252 | 43 | 217 | 59 | 147 | 252 | 2.2 | 256 | 145 | 9.856 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 286 | 38 | 246 | 52 | 130 | 286 | 1.0 | 225 | 165 | 11.200 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 286 | 38 | 246 | 52 | 130 | 286 | 2.1 | 225 | 165 | 11.200 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 12 | 321 | 33 | 276 | 46 | 115 | 321 | 0.9 | 201 | 185 | 12.571 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 12 | 321 | 33 | 276 | 46 | 115 | 321 | 1.9 | 201 | 185 | 12.571 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 10 | 365 | 29 | 314 | 41 | 102 | 365 | 0.8 | 177 | 210 | 14.286 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 10 | 365 | 29 | 314 | 41 | 102 | 365 | 1.8 | 177 | 210 | 14.286 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.4 | 394 | 27 | 338 | 38 | 94 | 394 | 0.8 | 164 | 226 | 15.400 | GST06 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.4 | 394 | 27 | 338 | 38 | 94 | 394 | 1.6 | 164 | 226 | 15.400 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.3 | 447 | 24 | 385 | 33 | 83 | 447 | 1.5 | 144 | 257 | 17.500 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.4 | 440 | 24 | 379 | 34 | 84 | 440 | 3.1 | 146 | 253 | 17.222 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.2 | 512 | 21 | 441 | 29 | 72 | 512 | 1.4 | 126 | 294 | 20.044 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 525 | 20 | 451 | 28 | 71 | 525 | 2.6 | 123 | 302 | 20.533 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.2 | 519 | 21 | 446 | 29 | 72 | 519 | 3.2 | 124 | 298 | 20.289 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.4 | 582 | 18 | 501 | 25 | 64 | 582 | 1.2 | 111 | 335 | 22.778 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.2 | 596 | 18 | 513 | 25 | 62 | 596 | 2.5 | 108 | 343 | 23.333 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.3 | 589 | 18 | 507 | 25 | 63 | 589 | 3.2 | 109 | 339 | 23.056 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.9 | 628 | 17 | 540 | 24 | 59 | 628 | 1.1 | 103 | 361 | 24.567 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.8 | 637 | 17 | 548 | 23 | 58 | 637 | 2.2 | 101 | 366 | 24.933 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.8 | 637 | 17 | 548 | 23 | 58 | 637 | 2.7 | 101 | 366 | 24.933 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 5.2 | 714 | 15 | 614 | 21 | 52 | 714 | 1.0 | 90 | 410 | 27.917 | GST07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.1 | 724 | 15 | 623 | 20 | 51 | 724 | 2.1 | 89 | 416 | 28.333 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.1 | 724 | 15 | 623 | 20 | 51 | 724 | 2.7 | 89 | 416 | 28.333 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.5 | 825 | 13 | 709 | 18 | 45 | 825 | 1.7 | 78 | 474 | 32.267 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.5 | 825 | 13 | 709 | 18 | 45 | 825 | 2.2 | 78 | 474 | 32.267 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.5 | 825 | 13 | 709 | 18 | 45 | 825 | 2.7 | 78 | 474 | 32.267 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.0 | 937 | 11 | 806 | 16 | 40 | 937 | 1.6 | 69 | 539 | 36.667 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.0 | 937 | 11 | 806 | 16 | 40 | 937 | 2.2 | 69 | 539 | 36.667 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.0 | 937 | 11 | 806 | 16 | 40 | 937 | 2.7 | 69 | 539 | 36.667 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 1001 | 11 | 861 | 15 | 37 | 1001 | 1.4 | 64 | 575 | 39.160 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 1001 | 11 | 861 | 15 | 37 | 1001 | 1.8 | 64 | 575 | 39.160 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 1001 | 11 | 861 | 15 | 37 | 1001 | 2.3 | 64 | 575 | 39.160 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.3 | 1137 | 9.4 | 978 | 13 | 33 | 1137 | 1.4 | 57 | 654 | 44.500 | GST09 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.3 | 1137 | 9.4 | 978 | 13 | 33 | 1137 | 1.8 | 57 | 654 | 44.500 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.3 | 1137 | 9.4 | 978 | 13 | 33 | 1137 | 2.3 | 57 | 654 | 44.500 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.9 | 1265 | 8.5 | 1088 | 12 | 29 | 1265 | 1.4 | 51 | 727 | 49.500 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.9 | 1265 | 8.5 | 1088 | 12 | 29 | 1265 | 1.8 | 51 | 727 | 49.500 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.6 | 1438 | 7.5 | 1236 | 10 | 26 | 1438 | 1.4 | 45 | 826 | 56.250 | GST11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.6 | 1438 | 7.5 | 1236 | 10 | 26 | 1438 | 1.8 | 45 | 826 | 56.250 | GST14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1459 | 7.3 | 1255 | 10 | 25 | 1459 | 1.8 | 44 | 839 | 57.968 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.4 | 1518 | 7 | 1305 | 9.6 | 24 | 1518 | 1.0 | 42 | 872 | 60.278 | GST09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.4 | 1542 | 6.9 | 1326 | 9.5 | 24 | 1542 | 1.8 | 41 | 886 | 61.250 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.0 | 1809 | 5.9 | 1556 | 8.1 | 20 | 1809 | 0.8 | 35 | 1040 | 71.867 | GST09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.0 | 1788 | 5.9 | 1537 | 8.2 | 20 | 1788 | 1.5 | 36 | 1027 | 71.011 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.1 | 1738 | 6.1 | 1495 | 8.4 | 21 | 1738 | 2.8 | 37 | 999 | 69.042 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.8 | 2032 | 5.2 | 1747 | 7.2 | 18 | 2032 | 1.4 | 31 | 1168 | 80.694 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.9 | 1975 | 5.4 | 1699 | 7.4 | 19 | 1975 | 2.8 | 32 | 1135 | 78.457 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.7 | 2197 | 4.8 | 1889 | 6.6 | 17 | 2197 | 1.2 | 29 | 1263 | 87.267 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2355 | 4.5 | 2025 | 6.2 | 16 | 2355 | 2.3 | 27 | 1353 | 93.541 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.5 | 2497 | 4.2 | 2147 | 5.8 | 15 | 2497 | 1.1 | 25 | 1435 | 99.167 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.5 | 2421 | 4.4 | 2082 | 6.0 | 15 | 2421 | 2.4 | 26 | 1391 | 96.157 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.3 | 2843 | 3.7 | 2445 | 5.1 | 13 | 2843 | 0.9 | 22 | 1634 | 112.933 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2676 | 4 | 2301 | 5.4 | 14 | 2676 | 2.2 | 24 | 1538 | 106.296 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.1 | 3250 | 3.3 | 2795 | 4.5 | 11 | 3250 | 0.9 | 20 | 1868 | 129.074 | GST11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.1 | 3280 | 3.2 | 2821 | 4.4 | 11 | 3280 | 1.8 | 19 | 1885 | 130.278 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.0 | 3505 | 3 | 3014 | 4.2 | 10 | 3505 | 1.6 | 18 | 2014 | 139.211 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 3983 | 2.7 | 3425 | 3.7 | 9.2 | 3983 | 1.5 | 16 | 2289 | 158.194 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.8 | 4308 | 2.5 | 3705 | 3.4 | 8.5 | 4308 | 1.4 | 15 | 2476 | 171.111 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.7 | 5154 | 2.1 | 4432 | 2.8 | 7.1 | 5154 | 1.1 | 12 | 2962 | 204.722 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 5957 | 1.8 | 5123 | 2.5 | 6.1 | 5957 | 1.0 | 11 | 3424 | 236.622 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 6255 | 1.7 | 5379 | 2.3 | 5.8 | 6255 | 0.9 | 10 | 3595 | 248.458 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.5 | 6769 | 1.6 | 5822 | 2.2 | 5.4 | 6769 | 0.9 | 9 | 3890 | 268.889 | GST14 - 3E □□□ 112C22 | E82MV 402_4B |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|----|----|-----|----|-----|-----|----|-----|------|----|-------|-----------------------|--------------|
| 90 | 57 | 262 | 49 | 361 | 903 | 57 | 1.1 | 1571 | 33 | 1.600 | GST06 - 1E □□□ 112C32 | E82MV 552_4B |
| 89 | 58 | 258 | 50 | 356 | 889 | 58 | 1.8 | 1547 | 33 | 1.625 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|----------------------------------|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 3-40 onwards | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|------|-----|--------|-----------------------|--------------|
| 71 | 73 | 205 | 63 | 282 | 706 | 73 | 1.0 | 1228 | 42 | 2.048 | GST06 - 1E □□□ 112C32 | E82MV 552_4B |
| 72 | 72 | 210 | 62 | 289 | 723 | 72 | 1.7 | 1257 | 41 | 2.000 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 65 | 80 | 187 | 69 | 258 | 645 | 80 | 1.0 | 1122 | 46 | 2.240 | GST06 - 1E □□□ 112C32 | E82MV 552_4B |
| 65 | 80 | 187 | 69 | 258 | 645 | 80 | 1.7 | 1122 | 46 | 2.240 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 62 | 84 | 180 | 72 | 248 | 619 | 84 | 3.1 | 1078 | 48 | 2.333 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 51 | 102 | 147 | 88 | 202 | 506 | 102 | 0.9 | 880 | 59 | 2.857 | GST06 - 1E □□□ 112C32 | E82MV 552_4B |
| 51 | 102 | 147 | 88 | 202 | 506 | 102 | 1.6 | 880 | 59 | 2.857 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 51 | 101 | 149 | 87 | 206 | 514 | 101 | 2.8 | 895 | 58 | 2.810 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 41 | 125 | 120 | 108 | 165 | 413 | 125 | 0.8 | 718 | 72 | 3.500 | GST06 - 1E □□□ 112C32 | E82MV 552_4B |
| 41 | 125 | 120 | 108 | 165 | 413 | 125 | 1.4 | 718 | 72 | 3.500 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 42 | 123 | 122 | 106 | 168 | 420 | 123 | 2.4 | 730 | 71 | 3.444 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 32 | 163 | 92 | 140 | 127 | 317 | 163 | 1.1 | 552 | 94 | 4.556 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 31 | 167 | 90 | 144 | 124 | 310 | 167 | 1.9 | 539 | 96 | 4.667 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 26 | 200 | 75 | 172 | 104 | 259 | 200 | 1.0 | 450 | 115 | 5.583 | GST07 - 1E □□□ 112C32 | E82MV 552_4B |
| 26 | 203 | 74 | 174 | 102 | 255 | 203 | 1.6 | 444 | 117 | 5.667 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 20 | 263 | 57 | 226 | 79 | 197 | 263 | 1.3 | 343 | 151 | 7.333 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 16 | 319 | 47 | 274 | 65 | 162 | 319 | 1.1 | 283 | 183 | 8.900 | GST09 - 1E □□□ 112C32 | E82MV 552_4B |
| 48 | 107 | 138 | 92 | 191 | 476 | 107 | 1.6 | 829 | 61 | 3.033 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 47 | 108 | 137 | 92 | 190 | 474 | 108 | 3.0 | 825 | 62 | 3.048 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 43 | 118 | 126 | 101 | 173 | 434 | 118 | 1.5 | 754 | 68 | 3.333 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 43 | 118 | 125 | 102 | 173 | 431 | 118 | 3.0 | 751 | 68 | 3.350 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 35 | 147 | 101 | 126 | 139 | 347 | 147 | 1.3 | 604 | 84 | 4.160 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 34 | 149 | 99 | 128 | 137 | 342 | 149 | 2.7 | 595 | 86 | 4.225 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 32 | 161 | 92 | 139 | 126 | 316 | 161 | 1.2 | 550 | 93 | 4.571 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 31 | 164 | 90 | 141 | 124 | 311 | 164 | 2.5 | 542 | 94 | 4.643 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 27 | 188 | 79 | 161 | 109 | 271 | 188 | 1.1 | 472 | 108 | 5.324 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 28 | 183 | 81 | 158 | 111 | 278 | 183 | 2.3 | 484 | 105 | 5.200 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 25 | 206 | 72 | 177 | 99 | 247 | 206 | 1.1 | 430 | 119 | 5.850 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 25 | 202 | 73 | 173 | 101 | 253 | 202 | 2.2 | 440 | 116 | 5.714 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 23 | 226 | 65 | 194 | 90 | 226 | 226 | 1.0 | 393 | 130 | 6.400 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 23 | 226 | 65 | 194 | 90 | 226 | 226 | 2.1 | 393 | 130 | 6.400 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 22 | 235 | 63 | 202 | 87 | 217 | 235 | 3.1 | 377 | 135 | 6.667 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 21 | 248 | 60 | 214 | 82 | 205 | 248 | 1.0 | 357 | 143 | 7.040 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 20 | 252 | 59 | 217 | 81 | 202 | 252 | 1.9 | 352 | 145 | 7.150 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 20 | 258 | 57 | 222 | 79 | 198 | 258 | 2.8 | 344 | 148 | 7.305 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 18 | 288 | 51 | 248 | 71 | 177 | 288 | 0.9 | 308 | 165 | 8.163 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 18 | 287 | 52 | 246 | 71 | 178 | 287 | 1.9 | 309 | 165 | 8.125 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 18 | 283 | 52 | 243 | 72 | 180 | 283 | 2.8 | 313 | 163 | 8.027 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 16 | 318 | 47 | 273 | 64 | 160 | 318 | 0.8 | 279 | 183 | 9.010 | GST06 - 2E □□□ 112C32 | E82MV 552_4B |
| 16 | 310 | 48 | 267 | 66 | 164 | 310 | 1.7 | 286 | 178 | 8.800 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 15 | 348 | 43 | 299 | 59 | 147 | 348 | 1.6 | 255 | 200 | 9.856 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 14 | 362 | 41 | 311 | 56 | 141 | 362 | 3.1 | 245 | 208 | 10.267 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 395 | 37 | 340 | 52 | 129 | 395 | 1.5 | 224 | 227 | 11.200 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 12 | 411 | 36 | 354 | 50 | 124 | 411 | 2.9 | 216 | 236 | 11.667 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 11 | 443 | 33 | 381 | 46 | 115 | 443 | 1.4 | 200 | 255 | 12.571 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 12 | 436 | 34 | 375 | 47 | 117 | 436 | 2.8 | 203 | 251 | 12.362 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 10 | 504 | 29 | 433 | 40 | 101 | 504 | 1.3 | 176 | 290 | 14.286 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 10 | 495 | 30 | 426 | 41 | 103 | 495 | 2.6 | 179 | 285 | 14.048 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | 50 Hz | | [rpm] | [Nm] | Dimensions see page 3-40 onwards | | |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|------|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 9.4 | 543 | 27 | 467 | 38 | 94 | 543 | 1.2 | 163 | 312 | 15.400 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.5 | 535 | 28 | 460 | 38 | 95 | 535 | 2.4 | 166 | 307 | 15.156 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.3 | 617 | 24 | 531 | 33 | 83 | 617 | 1.1 | 144 | 355 | 17.500 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.4 | 607 | 24 | 522 | 34 | 84 | 607 | 2.3 | 146 | 349 | 17.222 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.2 | 707 | 21 | 608 | 29 | 72 | 707 | 1.0 | 125 | 406 | 20.044 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.0 | 724 | 20 | 623 | 28 | 70 | 724 | 1.9 | 122 | 416 | 20.533 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.1 | 716 | 21 | 615 | 28 | 71 | 716 | 2.4 | 124 | 411 | 20.289 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.3 | 803 | 18 | 691 | 25 | 63 | 803 | 0.8 | 110 | 462 | 22.778 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.2 | 823 | 18 | 708 | 25 | 62 | 823 | 1.8 | 108 | 473 | 23.333 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.3 | 813 | 18 | 699 | 25 | 63 | 813 | 2.4 | 109 | 467 | 23.056 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.9 | 866 | 17 | 745 | 24 | 59 | 866 | 0.8 | 102 | 498 | 24.567 | GST07 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.8 | 879 | 17 | 756 | 23 | 58 | 879 | 1.6 | 101 | 505 | 24.933 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.8 | 879 | 17 | 756 | 23 | 58 | 879 | 2.0 | 101 | 505 | 24.933 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.1 | 999 | 15 | 859 | 20 | 51 | 999 | 1.5 | 89 | 574 | 28.333 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.1 | 999 | 15 | 859 | 20 | 51 | 999 | 2.0 | 89 | 574 | 28.333 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.5 | 1138 | 13 | 979 | 18 | 45 | 1138 | 1.3 | 78 | 654 | 32.267 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.5 | 1138 | 13 | 979 | 18 | 45 | 1138 | 1.6 | 78 | 654 | 32.267 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.5 | 1138 | 13 | 979 | 18 | 45 | 1138 | 2.0 | 78 | 654 | 32.267 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.9 | 1293 | 11 | 1112 | 16 | 39 | 1293 | 1.2 | 69 | 743 | 36.667 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.9 | 1293 | 11 | 1112 | 16 | 39 | 1293 | 1.6 | 69 | 743 | 36.667 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.9 | 1293 | 11 | 1112 | 16 | 39 | 1293 | 2.0 | 69 | 743 | 36.667 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.7 | 1381 | 11 | 1188 | 15 | 37 | 1381 | 1.0 | 64 | 794 | 39.160 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.7 | 1381 | 11 | 1188 | 15 | 37 | 1381 | 1.3 | 64 | 794 | 39.160 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.7 | 1381 | 11 | 1188 | 15 | 37 | 1381 | 1.6 | 64 | 794 | 39.160 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.3 | 1569 | 9.4 | 1350 | 13 | 33 | 1569 | 1.0 | 57 | 902 | 44.500 | GST09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.3 | 1569 | 9.4 | 1350 | 13 | 33 | 1569 | 1.3 | 57 | 902 | 44.500 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.3 | 1569 | 9.4 | 1350 | 13 | 33 | 1569 | 1.6 | 57 | 902 | 44.500 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.9 | 1746 | 8.5 | 1501 | 12 | 29 | 1746 | 1.1 | 51 | 1003 | 49.500 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.9 | 1746 | 8.5 | 1501 | 12 | 29 | 1746 | 1.3 | 51 | 1003 | 49.500 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.6 | 1984 | 7.4 | 1706 | 10 | 26 | 1984 | 1.1 | 45 | 1140 | 56.250 | GST11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.6 | 1984 | 7.4 | 1706 | 10 | 26 | 1984 | 1.3 | 45 | 1140 | 56.250 | GST14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 2014 | 7.2 | 1732 | 10.0 | 25 | 2014 | 1.3 | 43 | 1157 | 57.968 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.4 | 2128 | 6.8 | 1830 | 9.4 | 24 | 2128 | 1.3 | 41 | 1223 | 61.250 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.4 | 2061 | 7.1 | 1772 | 9.8 | 24 | 2061 | 2.4 | 42 | 1184 | 59.321 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.0 | 2467 | 5.9 | 2121 | 8.1 | 20 | 2467 | 1.1 | 35 | 1418 | 71.011 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.1 | 2398 | 6.1 | 2062 | 8.4 | 21 | 2398 | 2.1 | 36 | 1378 | 69.042 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2803 | 5.2 | 2411 | 7.2 | 18 | 2803 | 1.0 | 31 | 1611 | 80.694 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2725 | 5.3 | 2344 | 7.4 | 18 | 2725 | 2.1 | 32 | 1566 | 78.457 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.7 | 3031 | 4.8 | 2607 | 6.6 | 17 | 3031 | 0.9 | 29 | 1742 | 87.267 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.5 | 3249 | 4.5 | 2794 | 6.2 | 15 | 3249 | 1.7 | 27 | 1867 | 93.541 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.5 | 3445 | 4.2 | 2962 | 5.8 | 15 | 3445 | 0.8 | 25 | 1980 | 99.167 | GST11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.5 | 3340 | 4.4 | 2872 | 6.0 | 15 | 3340 | 1.8 | 26 | 1920 | 96.157 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3692 | 3.9 | 3175 | 5.4 | 14 | 3692 | 1.6 | 24 | 2122 | 106.296 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.1 | 4525 | 3.2 | 3892 | 4.4 | 11 | 4525 | 1.3 | 19 | 2601 | 130.278 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.0 | 4836 | 3 | 4159 | 4.2 | 10 | 4836 | 1.2 | 18 | 2779 | 139.211 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.9 | 5495 | 2.6 | 4726 | 3.7 | 9.1 | 5495 | 1.1 | 16 | 3158 | 158.194 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.8 | 5944 | 2.4 | 5112 | 3.4 | 8.4 | 5944 | 1.0 | 15 | 3416 | 171.111 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.7 | 7111 | 2 | 6116 | 2.8 | 7.1 | 7111 | 0.8 | 12 | 4087 | 204.722 | GST14 - 3E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Helical geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 3-40 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|------|-----|--------|-----------------------|--------------|
| 90 | 79 | 260 | 68 | 358 | 895 | 79 | 1.3 | 1558 | 45 | 1.625 | GST07 - 1E □□□ 132C22 | E82MV 752_4B |
| 73 | 97 | 211 | 83 | 291 | 728 | 97 | 1.3 | 1266 | 56 | 2.000 | GST07 - 1E □□□ 132C22 | E82MV 752_4B |
| 65 | 109 | 188 | 93 | 260 | 650 | 109 | 1.2 | 1130 | 62 | 2.240 | GST07 - 1E □□□ 132C22 | E82MV 752_4B |
| 51 | 139 | 148 | 119 | 204 | 509 | 139 | 1.1 | 886 | 80 | 2.857 | GST07 - 1E □□□ 132C22 | E82MV 752_4B |
| 52 | 136 | 150 | 117 | 207 | 518 | 136 | 3.1 | 901 | 78 | 2.810 | GST09 - 1E □□□ 132C22 | E82MV 752_4B |
| 42 | 170 | 121 | 146 | 166 | 416 | 170 | 1.0 | 723 | 98 | 3.500 | GST07 - 1E □□□ 132C22 | E82MV 752_4B |
| 42 | 167 | 123 | 144 | 169 | 422 | 167 | 2.7 | 735 | 96 | 3.444 | GST09 - 1E □□□ 132C22 | E82MV 752_4B |
| 31 | 226 | 90 | 195 | 125 | 312 | 226 | 1.7 | 543 | 130 | 4.667 | GST09 - 1E □□□ 132C22 | E82MV 752_4B |
| 26 | 275 | 74 | 236 | 103 | 257 | 275 | 1.7 | 447 | 158 | 5.667 | GST09 - 1E □□□ 132C22 | E82MV 752_4B |
| 48 | 146 | 138 | 125 | 191 | 477 | 146 | 2.4 | 831 | 84 | 3.048 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 43 | 160 | 126 | 138 | 174 | 434 | 160 | 2.3 | 756 | 92 | 3.350 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 34 | 202 | 100 | 174 | 138 | 344 | 202 | 2.0 | 599 | 116 | 4.225 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 31 | 222 | 91 | 191 | 125 | 313 | 222 | 1.9 | 545 | 127 | 4.643 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 28 | 248 | 81 | 214 | 112 | 280 | 248 | 1.7 | 487 | 143 | 5.200 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 25 | 273 | 74 | 235 | 102 | 255 | 273 | 1.6 | 443 | 157 | 5.714 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 23 | 306 | 66 | 263 | 91 | 227 | 306 | 1.5 | 396 | 176 | 6.400 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 20 | 342 | 59 | 294 | 81 | 204 | 342 | 1.4 | 354 | 196 | 7.150 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 20 | 349 | 58 | 300 | 80 | 199 | 349 | 3.2 | 347 | 200 | 7.305 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 18 | 388 | 52 | 334 | 72 | 179 | 388 | 1.4 | 312 | 223 | 8.125 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 18 | 383 | 53 | 330 | 73 | 181 | 383 | 3.0 | 315 | 220 | 8.027 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 17 | 420 | 48 | 361 | 66 | 165 | 420 | 1.3 | 288 | 242 | 8.800 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 16 | 430 | 47 | 370 | 65 | 162 | 430 | 2.6 | 281 | 247 | 9.010 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 15 | 471 | 43 | 405 | 59 | 148 | 471 | 1.2 | 257 | 271 | 9.856 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 14 | 490 | 41 | 422 | 57 | 142 | 490 | 2.4 | 247 | 282 | 10.267 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 13 | 535 | 38 | 460 | 52 | 130 | 535 | 1.1 | 226 | 307 | 11.200 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 12 | 557 | 36 | 479 | 50 | 125 | 557 | 2.2 | 217 | 320 | 11.667 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 12 | 600 | 34 | 516 | 46 | 116 | 600 | 1.0 | 201 | 345 | 12.571 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 12 | 590 | 34 | 508 | 47 | 118 | 590 | 2.1 | 205 | 339 | 12.362 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 10 | 682 | 30 | 587 | 41 | 102 | 682 | 0.9 | 177 | 392 | 14.286 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 10 | 671 | 30 | 577 | 41 | 104 | 671 | 1.9 | 180 | 386 | 14.048 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 9.5 | 736 | 27 | 633 | 38 | 95 | 736 | 0.9 | 164 | 423 | 15.400 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 9.6 | 724 | 28 | 622 | 38 | 96 | 724 | 1.9 | 167 | 416 | 15.156 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 8.3 | 836 | 24 | 719 | 33 | 83 | 836 | 0.8 | 145 | 480 | 17.500 | GST07 - 2E □□□ 132C22 | E82MV 752_4B |
| 8.5 | 823 | 25 | 707 | 34 | 85 | 823 | 1.7 | 147 | 473 | 17.222 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.1 | 981 | 21 | 843 | 28 | 71 | 981 | 1.5 | 123 | 564 | 20.533 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.2 | 969 | 21 | 833 | 29 | 72 | 969 | 2.8 | 125 | 557 | 20.289 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.2 | 1114 | 18 | 958 | 25 | 62 | 1114 | 1.4 | 109 | 640 | 23.333 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.3 | 1101 | 18 | 947 | 25 | 63 | 1101 | 2.6 | 110 | 633 | 23.056 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.8 | 1191 | 17 | 1024 | 23 | 58 | 1191 | 1.3 | 102 | 684 | 24.933 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.8 | 1191 | 17 | 1024 | 23 | 58 | 1191 | 2.3 | 102 | 684 | 24.933 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.1 | 1353 | 15 | 1164 | 21 | 51 | 1353 | 1.1 | 89 | 778 | 28.333 | GST09 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.1 | 1353 | 15 | 1164 | 21 | 51 | 1353 | 2.2 | 89 | 778 | 28.333 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.5 | 1541 | 13 | 1325 | 18 | 45 | 1541 | 1.8 | 78 | 886 | 32.267 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.5 | 1541 | 13 | 1325 | 18 | 45 | 1541 | 3.1 | 78 | 886 | 32.267 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | | i | Helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|--|--|---|----------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | |

Dimensions see page 3-40 onwards

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|----|------|-----|----|------|---------|-----------------------|--------------|
| 4.0 | 1751 | 12 | 1506 | 16 | 40 | 1751 | 1.7 | 69 | 1006 | 36.667 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.0 | 1751 | 12 | 1506 | 16 | 40 | 1751 | 3.1 | 69 | 1006 | 36.667 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.7 | 1870 | 11 | 1608 | 15 | 37 | 1870 | 1.5 | 65 | 1075 | 39.160 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.7 | 1870 | 11 | 1608 | 15 | 37 | 1870 | 2.6 | 65 | 1075 | 39.160 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.3 | 2125 | 9.5 | 1828 | 13 | 33 | 2125 | 1.4 | 57 | 1221 | 44.500 | GST11 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.3 | 2125 | 9.5 | 1828 | 13 | 33 | 2125 | 2.6 | 57 | 1221 | 44.500 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.9 | 2364 | 8.5 | 2033 | 12 | 29 | 2364 | 1.8 | 51 | 1359 | 49.500 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.6 | 2686 | 7.5 | 2310 | 10 | 26 | 2686 | 1.8 | 45 | 1544 | 56.250 | GST14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2727 | 7.3 | 2345 | 10 | 25 | 2727 | 0.9 | 44 | 1567 | 57.968 | GST11 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.4 | 2881 | 6.9 | 2478 | 9.5 | 24 | 2881 | 0.9 | 41 | 1656 | 61.250 | GST11 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2791 | 7.1 | 2400 | 9.8 | 25 | 2791 | 1.9 | 43 | 1604 | 59.321 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.1 | 3248 | 6.1 | 2793 | 8.4 | 21 | 3248 | 1.5 | 37 | 1867 | 69.042 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.9 | 3691 | 5.4 | 3174 | 7.4 | 19 | 3691 | 1.5 | 32 | 2121 | 78.457 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.6 | 4400 | 4.5 | 3784 | 6.2 | 16 | 4400 | 1.3 | 27 | 2529 | 93.541 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.5 | 4523 | 4.4 | 3890 | 6.0 | 15 | 4523 | 1.3 | 26 | 2600 | 96.157 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.4 | 5000 | 4 | 4300 | 5.5 | 14 | 5000 | 1.2 | 24 | 2874 | 106.296 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.1 | 6128 | 3.2 | 5270 | 4.5 | 11 | 6128 | 1.0 | 19 | 3522 | 130.278 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.1 | 6549 | 3 | 5632 | 4.2 | 11 | 6549 | 0.9 | 18 | 3764 | 139.211 | GST14 - 3E □□□ 132C22 | E82MV 752_4B |

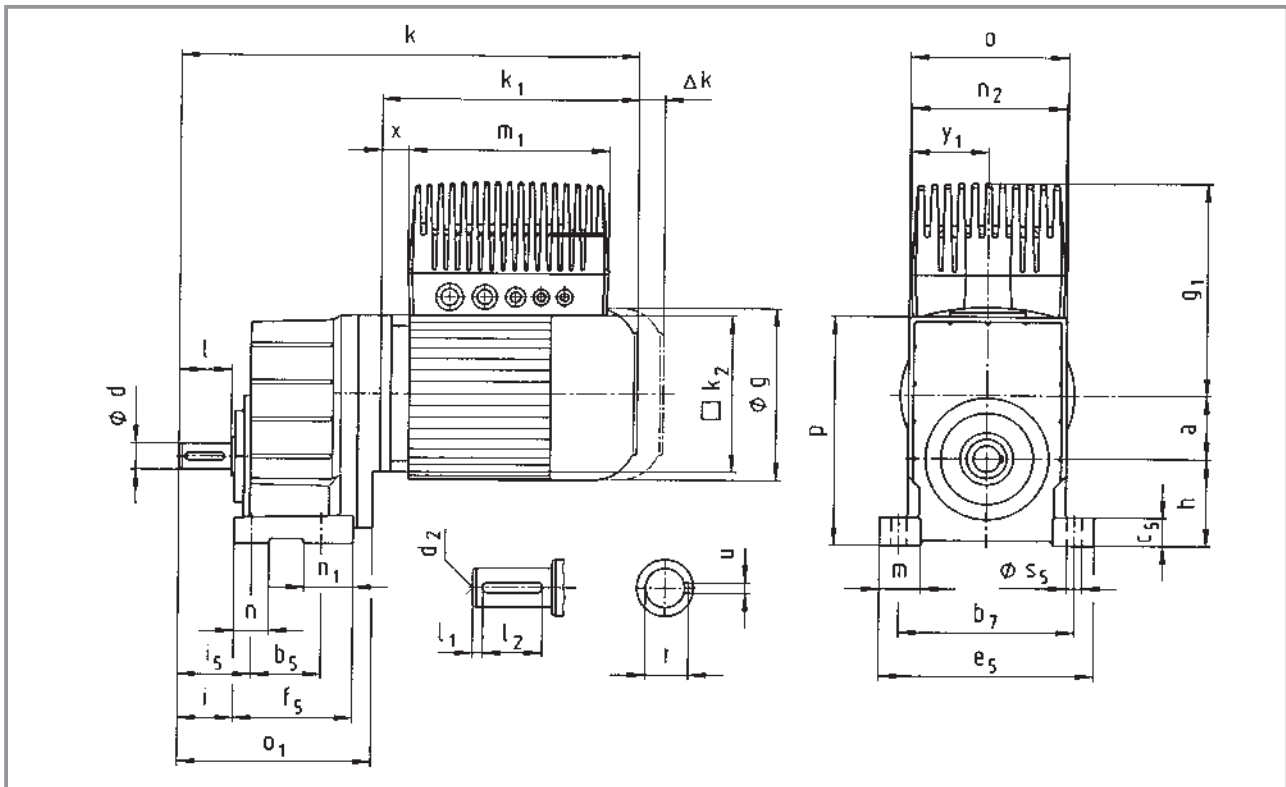
Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------------------------------|---------------------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|--|--|--|--|-----|--|--|--|--|-----|--|--|--|--|-----|--|--|--|--|-----|--|--|--|--|-----|--|--|--|--|
| GST□□ - 1E VBR | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length k | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | o* | o ₁ | p* | h* | a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | 100 | 134 | 138 | 50 | 36 | 331 | | | | | 351 | | | | | 373 | | | | | 434 | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 115 | 165 | 168 | 63 | 45 | 352 | | | | | 372 | | | | | 394 | | | | | 455 | | | | | 489 | | | | | | | | | | | | | | | | | | | |
| 06 | 145 | 191 | 211 | 80 | 56 | 375 | | | | | 395 | | | | | 417 | | | | | 478 | | | | | 512 | | | | | 528 | | | | | 572 | | | | | | | | | |
| 07 | 180 | 223 | 264 | 100 | 70 | | | | | | | | | | | 446 | | | | | 507 | | | | | 541 | | | | | 557 | | | | | 601 | | | | | 649 | | | | |
| 09 | 222 | 271 | 329 | 125 | 89 | | | | | | | | | | | | | | | | 550 | | | | | 584 | | | | | 600 | | | | | 644 | | | | | 692 | | | | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|----|----------------|------|----|----------------|----------------|--|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | i | i ₅ | m | n | n ₁ | s ₅ | |
| 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 | |
| 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 | |
| 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 | |
| 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 47.5 | 40 | 57 | 18 | |
| 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 50.5 | 45 | 56 | 18 | |

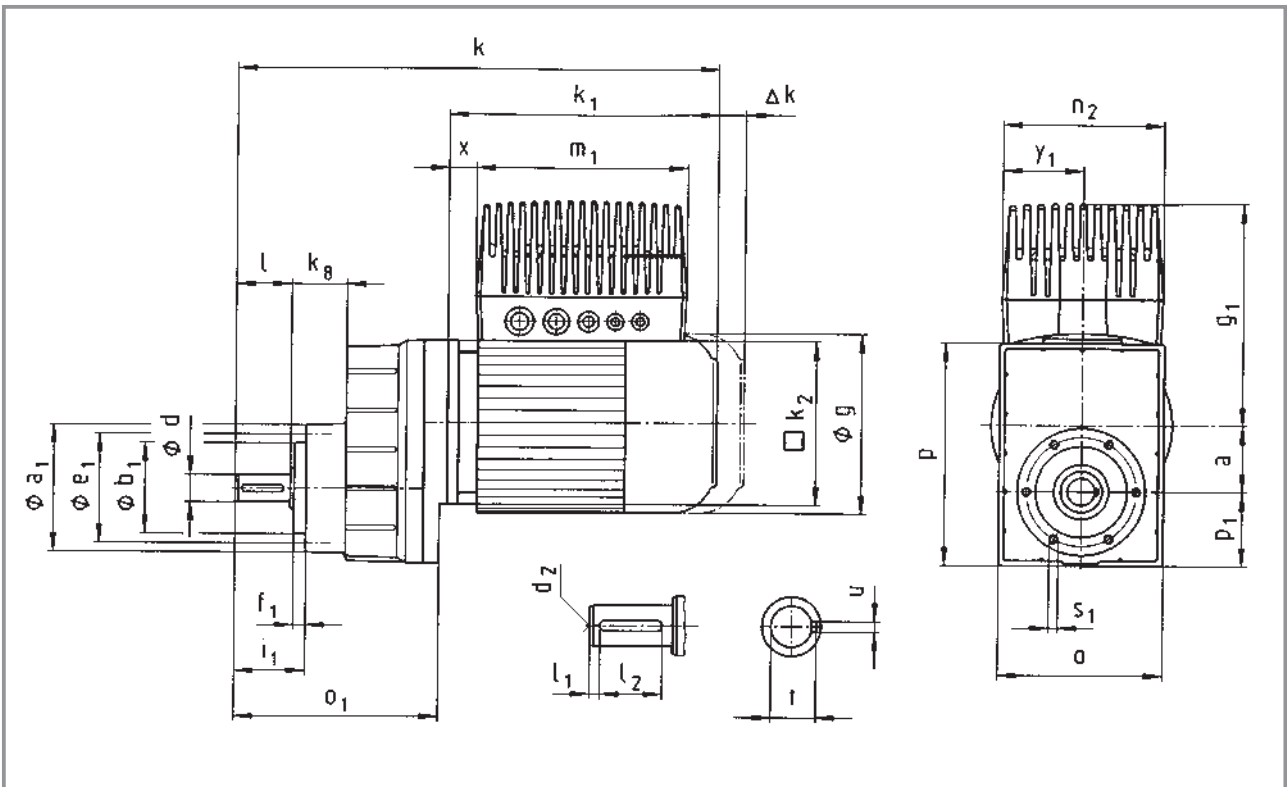
Dimensions in [mm] * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂/2 > h+a

** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical gearboxes

Geared motors with 8200 motec

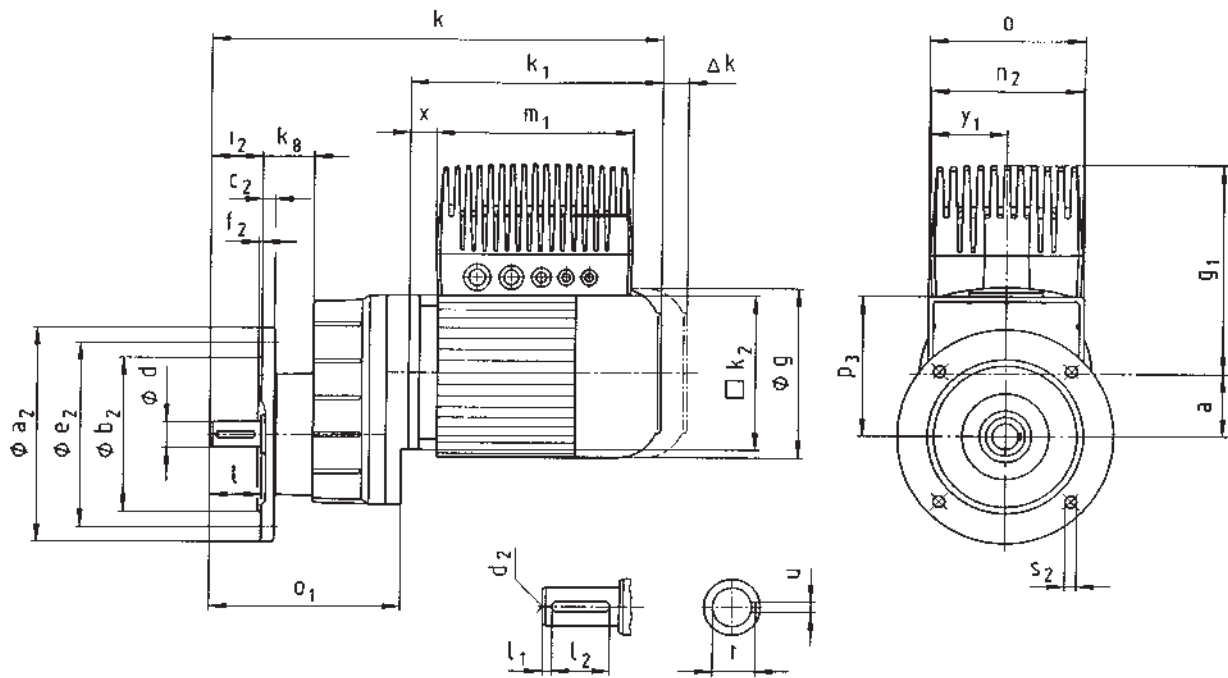


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
|-----------------------|------------------------------|---------------------|--------|----------------|--------|----------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| GST□□ - 1E VCR | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | k ₈ | | | | | | | | | |
| 04 | 100 | 134 | 129 | 41 | 36 | 35 | 331 | | 351 | | 373 | 434 | | | |
| 05 | 115 | 165 | 156 | 51 | 45 | 43 | 352 | | 372 | | 394 | 455 | 489 | | |
| 06 | 145 | 191 | 194 | 63 | 56 | 48 | 375 | | 395 | | 417 | 478 | 512 | 528 | 572 |
| 07 | 180 | 223 | 245 | 82 | 70 | 60 | | | | | 446 | 507 | 541 | 557 | 601 |
| 09 | 222 | 271 | 304 | 101 | 89 | 74 | | | | | | 550 | 584 | 600 | 644 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|---------------------------|--|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° | |
| 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 | |
| 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 | |
| 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 | |
| 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 | |
| 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 174 | 120 | 145 | 15 | 100 | M12x20 | |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GST□□ - 1E VCK



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|----------------|------------------|--------|----------------|----------------|--------|--------|--------|--------|--------|--------|--------|-------------|--|
| GST□□ - 1E VCK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | |
| | o* | o ₁ | p ₁ | p ₃ * | a | k ₈ | | | | | | | | | | |
| 04 | 100 | 134 | 41 | 88 | 36 | 35 | 331 | | 351 | | 373 | | 434 | | | |
| 05 | 115 | 165 | 51 | 105 | 45 | 43 | 352 | | 372 | | 394 | | 455 | | 489 | |
| 06 | 145 | 191 | 63 | 131 | 56 | 48 | 375 | | 395 | | 417 | | 478 | | 512 528 572 | |
| 07 | 180 | 223 | 82 | 164 | 70 | 60 | 0 | | 446 | | 507 | | 541 | | 557 601 649 | |
| 09 | 222 | 271 | 101 | 204 | 89 | 74 | | | | | 550 | | 584 | | 600 644 692 | |

| Gearbox size | Solid shaft | | | | | | | | Flange | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|-----|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 6 x 60° | |
| 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 | |
| | | | | | | | | 140 | 95 | | | | | 9 | |
| | | | | | | | | 160 | 110 | | | | | 9 | |
| 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 | |
| | | | | | | | | 140 | 95 | | | | | 9 | |
| | | | | | | | | 160 | 110 | | | | | 9 | |
| | | | | | | | | 200 | 130 | | | | | 12 | 165 |
| 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 12 | 130 | 3.5 | 50 | 9 | |
| | | | | | | | | 200 | 130 | | | | | 11 | |
| 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 | |
| | | | | | | | | 250 | 180 | | | | | 15 | 215 |
| 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 250 | 180 | 16 | 215 | 4 | 80 | 13.5 | |
| | | | | | | | | 300 | 230 | | | | | 18 | 265 |

Dimensions in [mm] * Please note dimension k₂

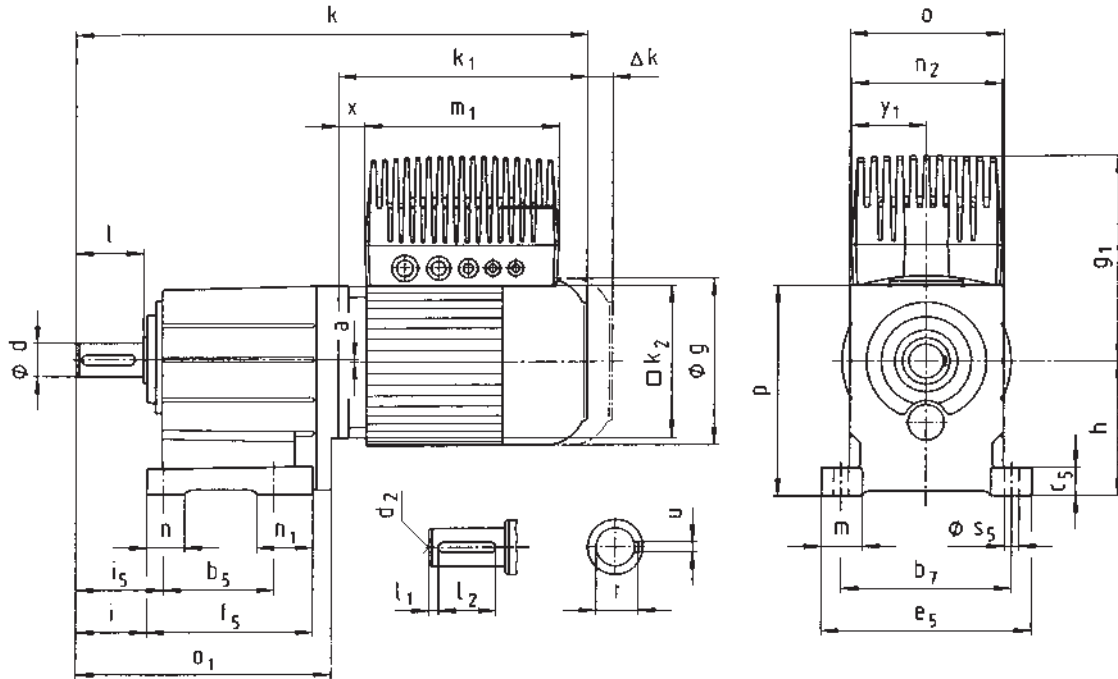
** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 2E VBR



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | | | | |
|-----------------------|-------------------------------------|---------------------|-----------------|-----------------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|
| GST□□ - 2E VBR | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | | | | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | | | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | | 363 | 404 | | | | | |
| | From gearbox size 04 k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | | | |
| | Δk** Brake | | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | | | |
| | Separate fan | | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | | | |
| | Brake + separate fan | | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | | | |
| 8200 motec | g ₁ | | 171 | | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | 278 | 297 | | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | | 202 | | 202 | | 230 | | 230 | | 230 | | 327 | | 327 | 327 | |
| | n ₂ | | 138 | | | 138 | | 156 | | 156 | | 176 | | 176 | | 176 | | 213 | | 213 | 213 | |
| | x | | 20 | | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | | 11 |
| | y ₁ | | 69 | | | 69 | | 78 | | 78 | | 88 | | 88 | | 88 | | 107 | | 107 | | 107 |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | | |
| | o ²⁾ | o ₁ | p ²⁾ | h ²⁾ | a | k | | | | | | | | | | | | | | | | |
| 03 | 90 | 127* | 139 | 101 | 65 | 2 | 317* | | 329 | | 337* | | 349 | | | | | | | | | |
| 04 | 100 | 174 | 132 | 80 | 0 | | 371 | | 391 | | 413 | | 474 | | | | | | | | | |
| 05 | 115 | 214 | 159 | 100 | 1 | | 401 | | 421 | | 443 | | 504 | | 538 | | | | | | | |
| 06 | 145 | 243 | 198 | 125 | 2 | | 427 | | 447 | | 469 | | 530 | | 564 | | 580 | | 624 | | | |
| 07 | 180 | 302 | 251 | 160 | 3 | | | | | | 525 | | 586 | | 620 | | 636 | | 680 | | 728 | |
| 09 | 222 | 370 | 311 | 200 | 4 | | | | | | | | 649 | | 683 | | 699 | | 743 | | 791 | |
| 11 | 270 | 433 | 385 | 250 | 4 | | | | | | | | | | 740 | | 756 | | 800 | | 848 | |
| 14 | 328 | 533 | 479 | 315 | 6 | | | | | | | | | | | | 846 | | 890 | | 938 | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|-----|----------------|------|----|----------------|----------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | i | i ₅ | m | n | n ₁ | s ₅ | |
| 03 | 14 | 28 | 4 | 20 | M5 | 5 | 16 | | | | | | 34 | 40 | | | | | |
| | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 60 | 91 | 11 | 105 | 84 | 46 | 52 | 20 | - | - | 6.6 | |
| 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 24.5 | 20 | 36 | 9 | |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 | |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 | |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 | |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 | |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 | |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 | |

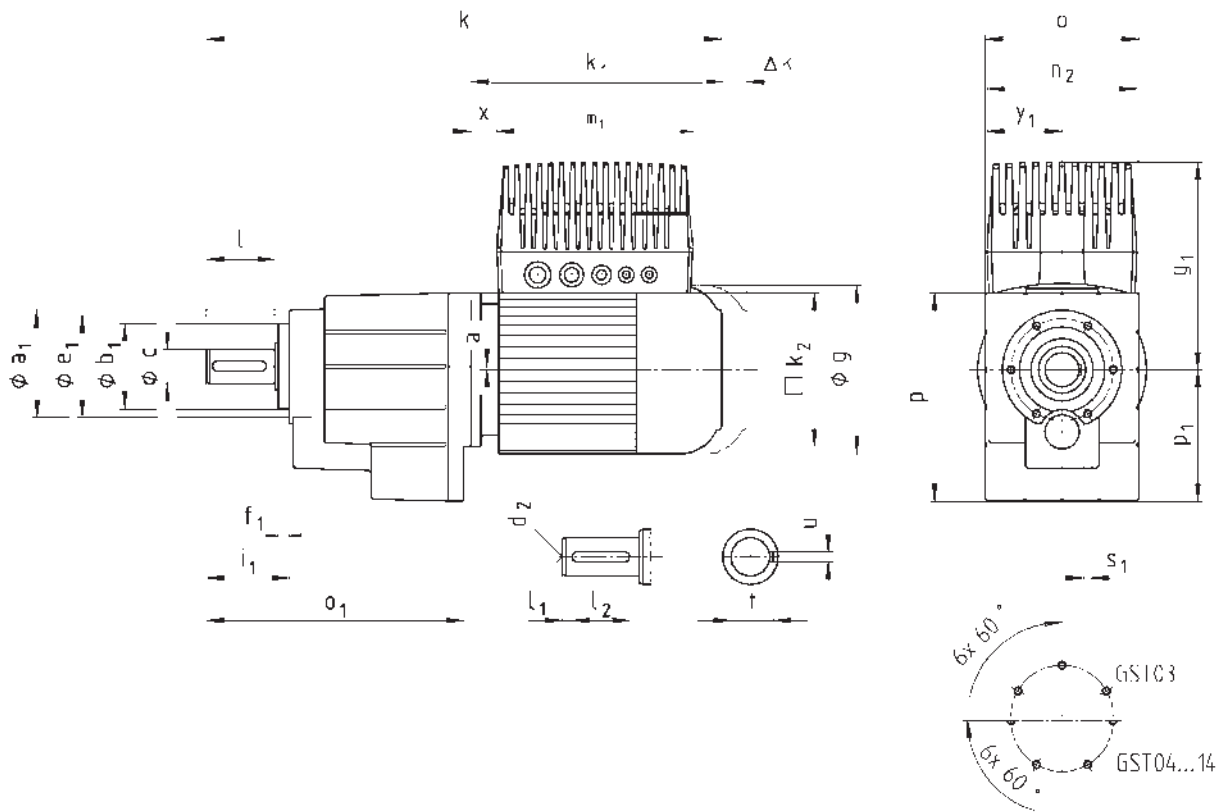
Dimensions in [mm] d ≤ 50 mm: k6 * Solid shaft d=14
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

- 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier
2) Please note dimension k₂. On gearbox size 03 with motor frame size 071, dimension g/2 > h-a and on gearbox size 04 with motor frame size 090, dimension k₂/2 > h-a

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 2E VCR



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|-------------------------------|--------|--------|----------------------|-------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--|
| GST□□ - 2E VCR | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 | |
| | k₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 | |
| | From gearbox size 04 | k₂ | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 | |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 | |
| 8200 motec | g₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 | |
| | g₁¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 | |
| | n₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 | |
| | x₁ | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 | |
| | y₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 | |
| Gearbox size | o²⁾ | o₁ | Gearbox p²⁾ | | | p₁ | a | Total length k | | | | | | | | |
| 03 | 90 | 127* 139 | 100 | 64 | 2 | 317* 329 | 337* 349 | | | | | | | | | |
| 04 | 100 | 174 | 129 | 77 | 0 | 371 | 391 | 413 | 474 | | | | | | | |
| 05 | 115 | 214 | 156 | 98 | 1 | 401 | 421 | 443 | 504 | 538 | | | | | | |
| 06 | 145 | 243 | 194 | 121 | 2 | 427 | 447 | 469 | 530 | 564 | 580 | 624 | | | | |
| 07 | 180 | 302 | 245 | 155 | 3 | | | 525 | 586 | 620 | 636 | 680 | 728 | | | |
| 09 | 222 | 370 | 304 | 194 | 4 | | | | 649 | 683 | 699 | 743 | 791 | | | |
| 11 | 270 | 433 | 378 | 243 | 4 | | | | | 740 | 756 | 800 | 848 | | | |
| 14 | 328 | 533 | 470 | 306 | 6 | | | | | | 846 | 890 | 938 | | | |

| Gearbox-size | d | l | l ₁ | Solid shaft | | | | Pitch circle | | | | | | |
|--------------|----|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|---------------------------|----|
| | | | | l ₂ | d ₂ | u | t | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 × 60° | |
| 03 | 14 | 28 | 4 | 20 | M5 | 5 | 16 | 71 | 48 | 61 | 8 | 39 | M5x10 | |
| | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | | | | | | | 51 |
| 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 72 | 48 | 61 | 8 | 51 | M5x10 | |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 | |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 | |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 | |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 | |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 | |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Solid shaft d=14
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

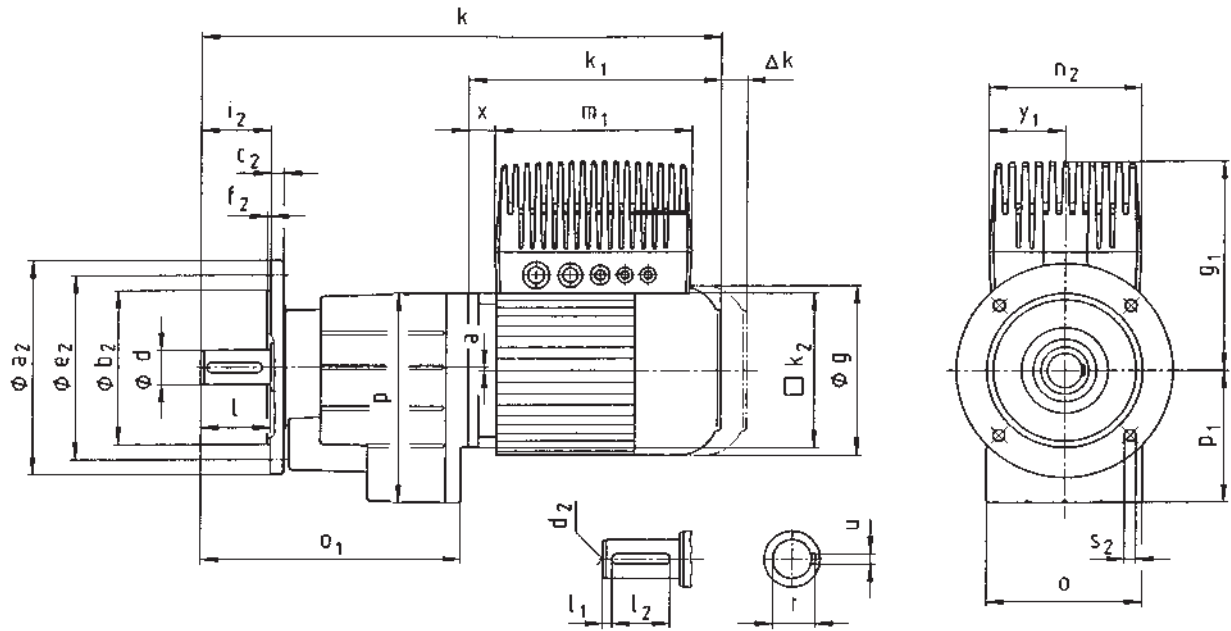
1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

2) Please note dimension k2

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 2E VCK



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
|-----------------------|------------------------------|----------------------|-------------------------|--------|--------|----------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| GST□□ - 2E VCK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 |
| | From gearbox size 04 | k ₂ | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 |
| Gearbox size | o ²⁾ | o ₁ | Gearbox p ²⁾ | | | Total length k | | | | | | | | | |
| 03 | 90 | 127* 139 | 100 | 64 | 2 | 317* 329 | 337* 349 | | | | | | | | |
| 04 | 100 | 174 | 129 | 77 | 0 | 371 | 391 | 413 | 474 | | | | | | |
| 05 | 115 | 214 | 156 | 98 | 1 | 401 | 421 | 443 | 504 | 538 | | | | | |
| 06 | 145 | 243 | 194 | 121 | 2 | 427 | 447 | 469 | 530 | 564 | 580 | 624 | | | |
| 07 | 180 | 302 | 245 | 155 | 3 | | | 525 | 586 | 620 | 636 | 680 | 728 | | |
| 09 | 222 | 370 | 304 | 194 | 4 | | | | 649 | 683 | 699 | 743 | 791 | | |
| 11 | 270 | 433 | 378 | 243 | 4 | | | | | 740 | 756 | 800 | 848 | | |
| 14 | 328 | 533 | 470 | 306 | 6 | | | | | | 846 | 890 | 938 | | |

| Gearbox size | Solid shaft | | | | | | | | Flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4 x 90° | |
| 03 | 14 | 28 | 4 | 20 | M5 | 5 | 16 | 120 | 80 | | 100 | 3 | 28 | 7 | |
| | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 140 | 95 | 10 | 115 | 3 | 40 | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 | 80 | | 100 | 3 | | 7 | |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | 40 | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | | 7 | |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | 50 | 9 | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3.5 | | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | 11 | |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 | |
| | | | | | | | | 200 | 130 | | 165 | | 11 | | |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | 14 | | |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 | |
| | | | | | | | | 300 | 230 | 18 | 265 | | | | |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | 18 | | |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 | |
| | | | | | | | | 400 | 300 | 24 | 350 | | | | |

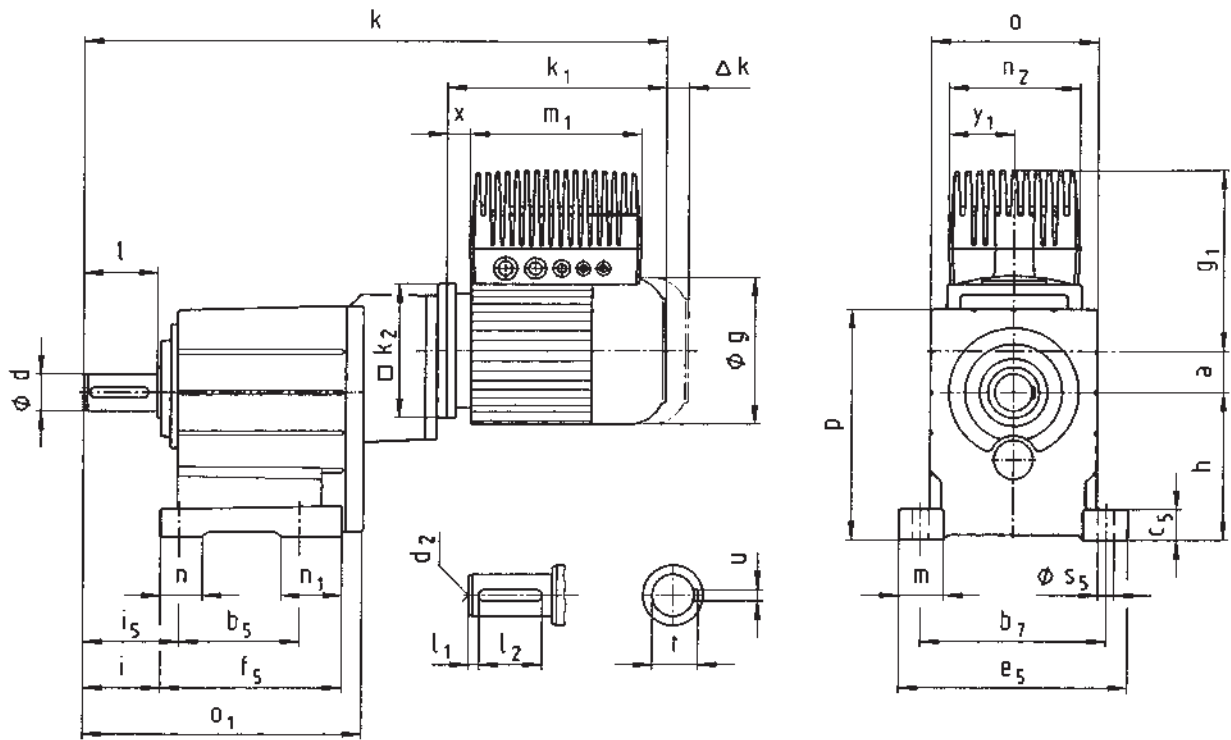
Dimensions in [mm] d ≤ 50 mm: k6 * Solid shaft d=14
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

- 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier
2) Please note dimension k2

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 3E VBR



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|---------------------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|
| GST□□ - 3E VBR | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk** Brake | | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | Separate fan | | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | Brake + separate fan | | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | Total length k | | | | | | | | | | | | |
| | o* | o ₁ | p* | h | a | | | | | | | | | | | | | |
| 05 | 115 | 208 | 159 | 100 | 35 | 478 | | 497 | | 520 | | | | | | | | |
| 06 | 145 | 240 | 198 | 125 | 34 | 521 | | 540 | | 563 | | 624 | | | | | | |
| 07 | 180 | 302 | 251 | 160 | 42 | 588 | | 607 | | 630 | | 691 | | 724 | | | | |
| 09 | 222 | 370 | 311 | 200 | 52 | 669 | | 688 | | 711 | | 772 | | 805 | | 821 | 865 | |
| 11 | 270 | 433 | 385 | 250 | 66 | | | | | 787 | | 848 | | 881 | | 897 | 941 | 990 |
| 14 | 328 | 533 | 479 | 315 | 83 | | | | | | | 972 | | 1005 | | 1021 | 1065 | 1114 |

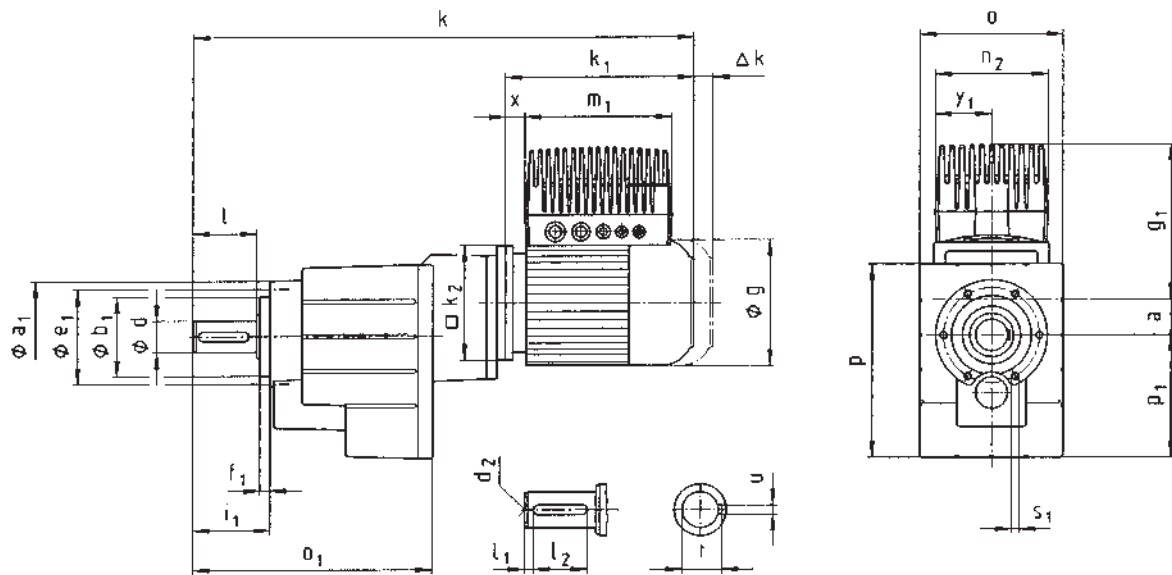
| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|-----|----------------|------|----|----------------|----------------|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | i | i ₅ | m | n | n ₁ | s ₅ |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 3E VCR



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | | | | | | | | | | | | | | |
|---------------------|-----------------------------------|----------------------|-----------|----------------------|----------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------|
| GST□□ - 3E VCR | | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | |
| 8200 motec E82MV□□□ | | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | |
| Motor | g | 123 | | | 138 | | 156 | | 176 | 196 | | 220 | | 261 | | |
| | k₁ | 188 | | | 207 | | 225 | | 276 | 309 | | 319 | 363 | 404 | | |
| | k₂ | 120 | | | 120 | | 145 | | 180 | 180 | | 222 | | 265 | | |
| | Δk** Brake | 40 | | | 52 | | 73 | | 70 | 79 | | 90 | | 109 | | |
| | Separate fan | 130 | | | 128 | | 128 | | 127 | 109 | | 102 | | 115 | | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | 170 | | 183 | | 201 | | |
| 8200 motec | g₁ | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | |
| | g₁¹⁾ | 207 | | | 216 | | | | | | | | | | | |
| | m₁ | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | |
| | n₂ | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | |
| | x | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | |
| | y₁ | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | |
| Gearbox size | Gearbox | | | | | Total length k | | | | | | | | | | |
| | o* | o₁ | p* | p₁ | a | | | | | | | | | | | |
| 05 | 115 | 208 | 156 | 98 | 35 | 478 | | 497 | | 520 | | | | | | |
| 06 | 145 | 240 | 194 | 121 | 34 | 521 | | 540 | | 563 | | 624 | | | | |
| 07 | 180 | 302 | 245 | 155 | 42 | 588 | | 607 | | 630 | | 691 | | 724 | | |
| 09 | 222 | 370 | 304 | 194 | 52 | 669 | | 688 | | 711 | | 772 | | 805 | | |
| 11 | 270 | 433 | 378 | 243 | 66 | | | | | 787 | | 848 | | 881 | | |
| 14 | 328 | 533 | 470 | 306 | 83 | | | | | | | 972 | | 1005 | | |
| | | | | | | | | | | | | 821 | 865 | | | |
| | | | | | | | | | | | | | | 897 | 941 | |
| | | | | | | | | | | | | | | | 990 | |
| | | | | | | | | | | | | | | | | 1114 |

| Gearbox size | d | l | l ₁ | Solid shaft | | | | | Pitch circle | | | | | | |
|--------------|----|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|---------------------------|--|--|
| | | | | l ₂ | d ₂ | u | t | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° | | |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 | | |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 | | |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 | | |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 | | |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 | | |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 | | |

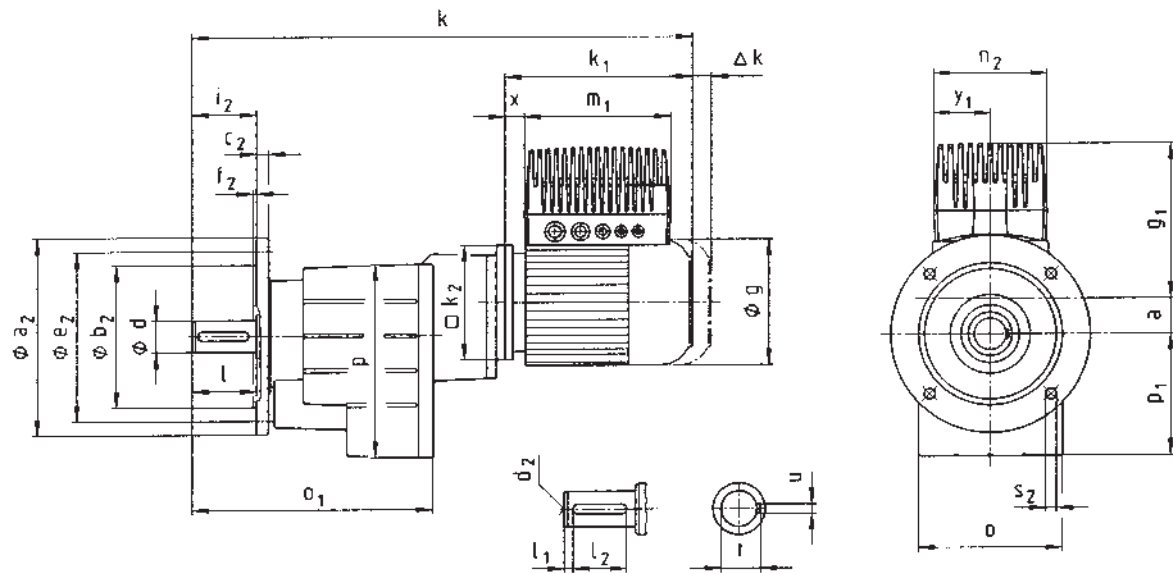
Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical gearboxes

Geared motors with 8200 motec

GST□□ - 3E VCK



Dimensions - Helical gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | | | | | | | | | | | | | | | |
|---------------------|------------------------------|------------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|
| GST□□ - 3E VCK | | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
| 8200 motec E82MV□□□ | | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | |
| | k ₁ | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | |
| | k ₂ | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | |
| | Δk** | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | |
| | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | |
| 8200 motec | g ₁ | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | |
| | g ₁ ¹⁾ | 207 | | | 216 | | | | | | | | | | | | |
| | m ₁ | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | |
| | n ₂ | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | |
| | x | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | |
| | y ₁ | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | |
| Gearbox size | Gearbox | | | | | Total length k | | | | | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | | | | | | | | | | | | |
| 05 | 115 | 208 | 156 | 98 | 35 | 478 | | 497 | | 520 | | | | | | | |
| 06 | 145 | 240 | 194 | 121 | 34 | 521 | | 540 | | 563 | | 624 | | | | | |
| 07 | 180 | 302 | 245 | 155 | 42 | 588 | | 607 | | 630 | | 691 | | 724 | | | |
| 09 | 222 | 370 | 304 | 194 | 52 | 669 | | 688 | | 711 | | 772 | | 805 | | | |
| 11 | 270 | 433 | 378 | 243 | 66 | | | | | 787 | | 848 | | 881 | | | |
| 14 | 328 | 533 | 470 | 306 | 83 | | | | | | | 972 | | 1005 | | | |
| | | | | | | | | | | | | | | | 1021 | 1065 | 1114 |

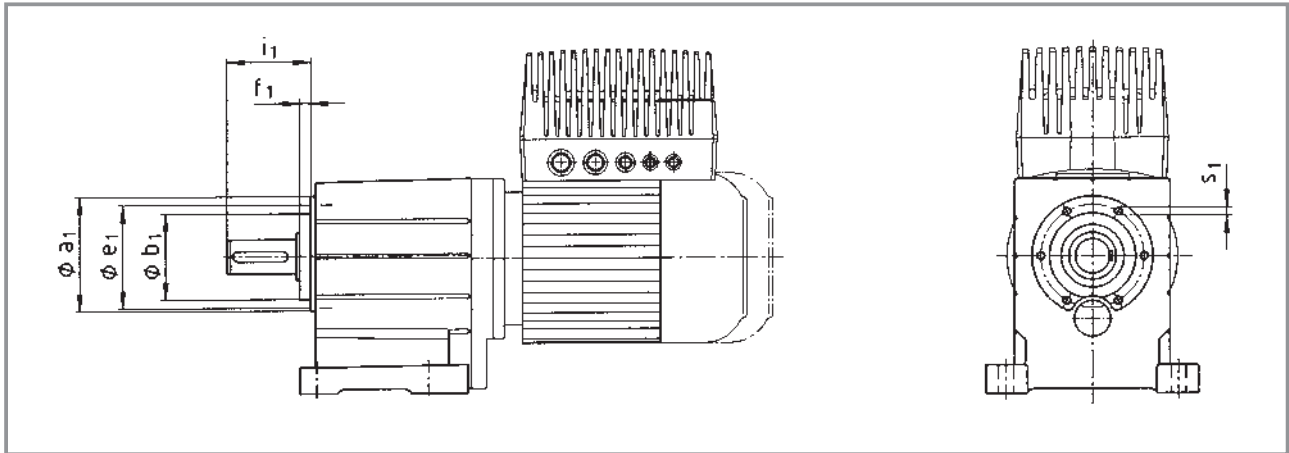
| Gearbox size | Solid shaft | | | | | | | | Flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4 x 90° | |
| 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 50 | 7 | |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3.5 | | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | 11 | |
| 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | 11 | |
| 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 14 | |
| 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 | |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | | 14 | |
| 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 | |
| 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 | |
| | | | | | | | | 400 | 300 | 24 | 350 | 5 | | 18 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical gearboxes

Further dimensions GST□□-2, 3

Output design VAR

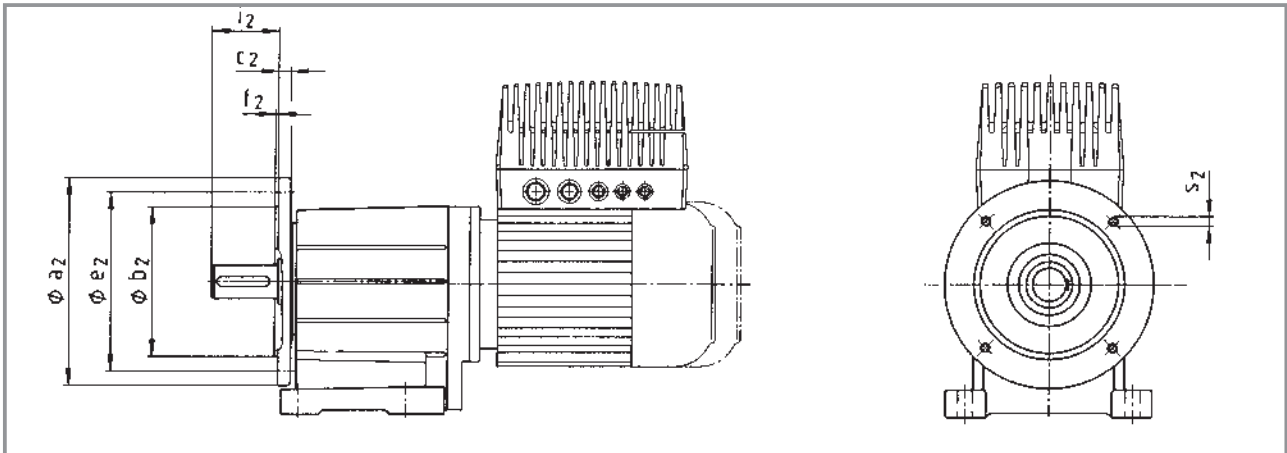


| Gearbox size | a_1 | b_1 h7 | e_1 | f_1 | i_1 | s_1 6 x 60° |
|--------------|-------|-------------|-------|-------|-------|------------------|
| 04 | 72 | 48 | 61 | 8 | 51 | M5x10 |
| 05 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| 06 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| 07 | 140 | 100 | 120 | 13 | 97 | M10x8 |
| 09 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| 11 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| 14 | 265 | 195 | 230 | 22 | 187 | M20x34 |

Dimensions in [mm]



Output design VAL



| Gearbox size | a_2 | b_2 j7 | c_2 | e_2 | f_2 | i_2 | s_2 4 x 90° |
|--------------|-------|-------------|-------|-------|-------|-------|------------------|
| 04 | 120 | 80 | 10 | 100 | 3 | 40 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| 05 | 120 | 80 | 10 | 100 | 3 | 50 | M6 |
| | 140 | 95 | | 115 | 3 | | M8 |
| | 160 | 110 | | 130 | 3.5 | | M8 |
| 06 | 160 | 110 | 12 | 130 | 3.5 | 60 | M8 |
| | 200 | 130 | | 165 | | | M10 |
| 07 | 200 | 130 | 14 | 165 | 3.5 | 80 | M10 |
| | 250 | 180 | 15 | 215 | 4 | | M12 |
| 09 | 250 | 180 | 16 | 215 | 4 | 100 | M12 |
| | 300 | 230 | 18 | 265 | | | |
| 11 | 300 | 230 | 18 | 265 | 4 | 120 | M12 |
| | 350 | 250 | 20 | 300 | | | 5 |
| 14 | 350 | 250 | 22 | 300 | 5 | 160 | M16 |
| | 400 | 300 | 24 | 350 | | | |

Dimensions in [mm]



Shaft-mounted helical gearboxes (low-profile gearboxes)

G-motion motec

Technical data

| | |
|--|-----|
| Permissible radial and axial forces | |
| Output _____ | 4-2 |
| Output backlash _____ | 4-4 |
| Ventilation _____ | 4-5 |
| Position of ventilation, oil filler plug and oil drain plug _____ | 4-5 |
| Reservoir for mounting position C _____ | 4-7 |
| Weights _____ | 4-8 |

Selection tables

| | |
|-------------------------------------|-----|
| Geared motors with 8200 motec _____ | 4-9 |
|-------------------------------------|-----|

Dimensions

| | |
|---|------|
| Geared motors with 8200 motec _____ | 4-32 |
| Further dimensions _____ | 4-48 |
| Hollow shaft with shrink disc _____ | 4-48 |
| Foot mounting _____ | 4-49 |
| Rubber buffer set _____ | 4-51 |
| Mounting set for hollow shaft circlip _____ | 4-52 |
| Proposed design for auxiliary tools _____ | 4-52 |

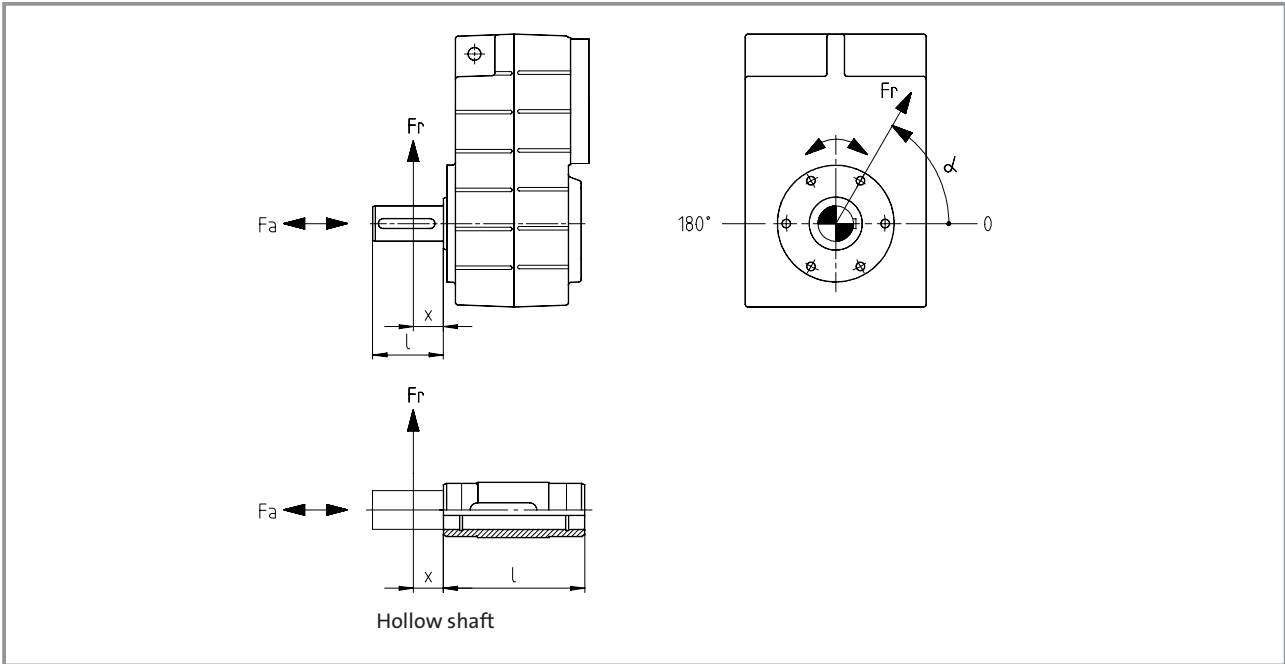
Permissible radial force

$$F_{rperm} = f_w \cdot f_\alpha \cdot F_{rTab} \leq f_w \cdot F_{rmax}$$

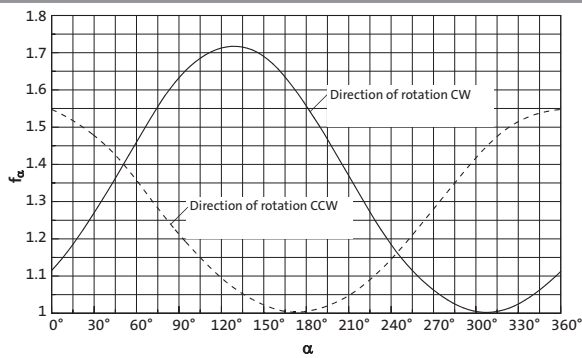
Permissible axial force

$$F_{aperm} = F_{aTab} \quad \text{at } F_r = 0$$

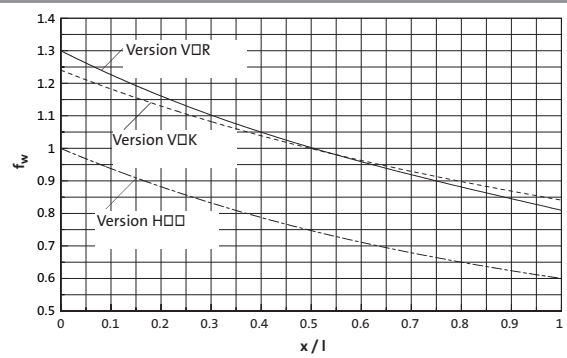
Contact Lenze if F_r and $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



Technical data - Shaft-mounted helical gearboxes (low-profile gearboxes)

Permissible radial and axial forces - Output



| VCK | Solid shaft with flange | | | | | | | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : Centre of shaft journal ($x = l/2$) | | | | | | | | | | | | | |
| | F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GFL 04 | | GFL 05 | | GFL 06 | | GFL 07 | | GFL 09 | | GFL 11 | | GFL 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 3200 | 2200 | 4300 | 3100 | 6100 | 4300 | 6400 | 6100 | 7800 | 6100 | 12500 | 6800 | 18000 | 6000 |
| 250 | 3700 | 2600 | 5100 | 3900 | 7000 | 5500 | 7400 | 6500 | 9000 | 6500 | 14500 | 8500 | 20000 | 8000 |
| 160 | 4400 | 3200 | 5900 | 4800 | 7800 | 6500 | 8900 | 7000 | 10500 | 7000 | 17000 | 10500 | 23000 | 10000 |
| 100 | 4600 | 4200 | 6800 | 6400 | 9600 | 8500 | 10500 | 9500 | 14000 | 9500 | 21500 | 17000 | 27500 | 13000 |
| 63 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 12000 | 11500 | 15000 | 11500 | 26000 | 22000 | 32000 | 19000 |
| 40 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 13000 | 11500 | 15000 | 11500 | 30000 | 27000 | 38000 | 26000 |
| 25 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 11500 | 30000 | 27000 | 43000 | 35000 |
| ≤ 16 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 11500 | 30000 | 27000 | 43000 | 35000 |
| $F_{r max}$ | 4600 | – | 7400 | – | 11000 | – | 16000 | – | 16000 | – | 32000 | – | 46000 | – |

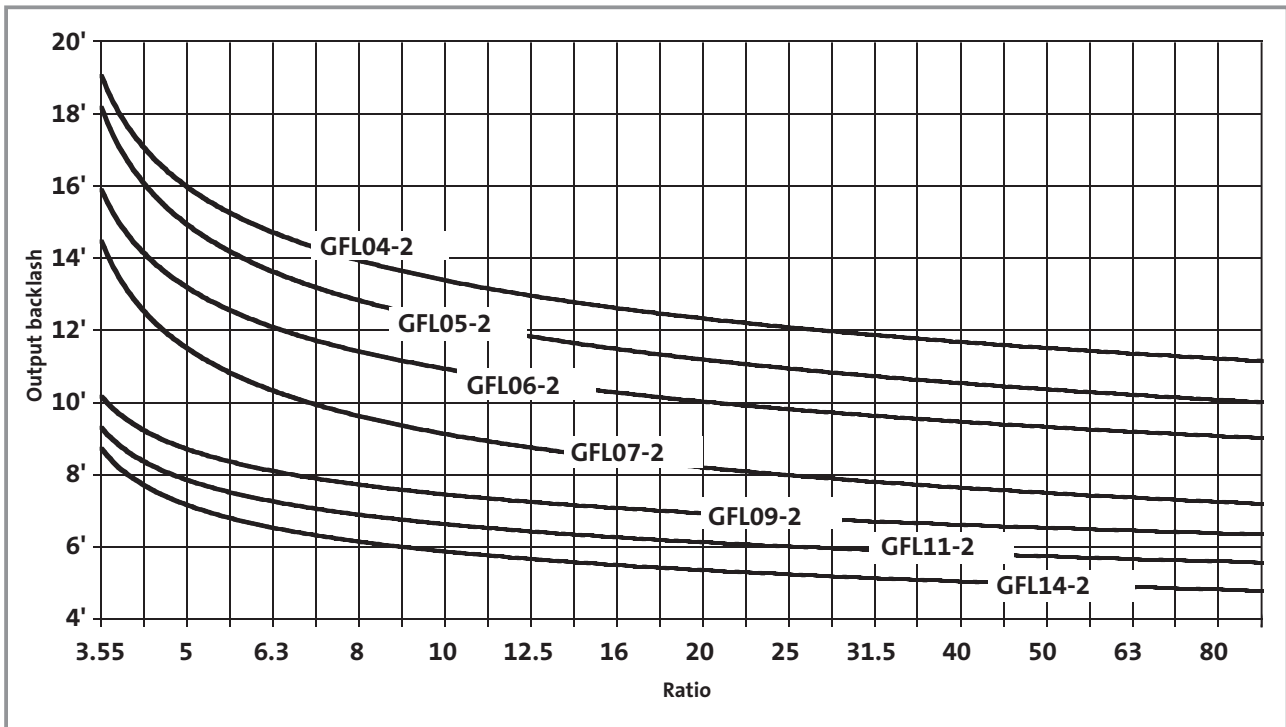
| VOR | Solid shaft without flange | | | | | | | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : Centre of shaft journal ($x = l/2$) | | | | | | | | | | | | | |
| | F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GFL 04 | | GFL 05 | | GFL 06 | | GFL 07 | | GFL 09* | | GFL 11* | | GFL 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 2300 | 2200 | 2400 | 2800 | 3200 | 4000 | 3200 | 3400 | 3800 | 3100 | 5500 | 4700 | 47000 | 25000 |
| 250 | 2700 | 2600 | 2700 | 3600 | 3600 | 5200 | 3600 | 4700 | 4400 | 4200 | 6300 | 6000 | 54000 | 27000 |
| 160 | 3200 | 3200 | 3200 | 4200 | 3900 | 6000 | 3900 | 6000 | 5500 | 5800 | 7300 | 7500 | 62000 | 29000 |
| 100 | 3600 | 4200 | 4000 | 5900 | 5100 | 8500 | 5100 | 8500 | 8000 | 10000 | 11200 | 14000 | 65000 | 32000 |
| 63 | 3600 | 5300 | 4800 | 6600 | 6500 | 10000 | 6500 | 12000 | 10000 | 13500 | 14500 | 19000 | 65000 | 35000 |
| 40 | 3600 | 5500 | 5800 | 6600 | 8400 | 10000 | 8400 | 14000 | 12000 | 17000 | 17400 | 25000 | 65000 | 35000 |
| 25 | 3600 | 5500 | 6200 | 6600 | 9000 | 10000 | 9000 | 14000 | 18000 | 21000 | 20500 | 27000 | 65000 | 35000 |
| ≤ 16 | 3600 | 5500 | 6200 | 6600 | 9000 | 10000 | 9000 | 14000 | 18000 | 21000 | 23000 | 27000 | 65000 | 35000 |
| $F_{r max}$ | 3600 | – | 7000 | – | 11000 | – | 11000 | – | 22000 | – | 28000 | – | 65000 | – |

| H00 | Hollow shaft | | | | | | | | | | | | | |
|----------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : At hollow shaft end face ($x = 0$) | | | | | | | | | | | | | |
| | F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GFL 04 | | GFL 05 | | GFL 06 | | GFL 07 | | GFL 09 | | GFL 11 | | GFL 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 2800 | 2200 | 3000 | 2800 | 4300 | 4000 | 4500 | 3400 | 5000 | 3100 | 7300 | 4700 | 8000 | 4000 |
| 250 | 3200 | 2600 | 3400 | 3600 | 4700 | 5200 | 5100 | 4700 | 6000 | 4200 | 8700 | 6000 | 9000 | 5000 |
| 160 | 3800 | 3200 | 4100 | 4200 | 5000 | 6000 | 6400 | 6000 | 7200 | 5800 | 10000 | 7500 | 9500 | 6200 |
| 100 | 4600 | 4200 | 5000 | 5900 | 6600 | 8500 | 7900 | 8500 | 10500 | 10000 | 14200 | 14000 | 11500 | 7500 |
| 63 | 5500 | 5300 | 6000 | 6600 | 8500 | 10000 | 9300 | 12000 | 13000 | 13500 | 19000 | 19000 | 14000 | 11000 |
| 40 | 6300 | 5500 | 7100 | 6600 | 10800 | 10000 | 11500 | 14000 | 15000 | 17000 | 23000 | 25000 | 18000 | 17500 |
| 25 | 7000 | 5500 | 8000 | 6600 | 12000 | 10000 | 15000 | 14000 | 22000 | 21000 | 27000 | 27000 | 30000 | 31000 |
| ≤ 16 | 7000 | 5500 | 8000 | 6600 | 12000 | 10000 | 16000 | 14000 | 24000 | 21000 | 30000 | 27000 | 45000 | 35000 |
| $F_{r max}$ | 7000 | – | 10000 | – | 15000 | – | 20000 | – | 30000 | – | 38000 | – | 56000 | – |

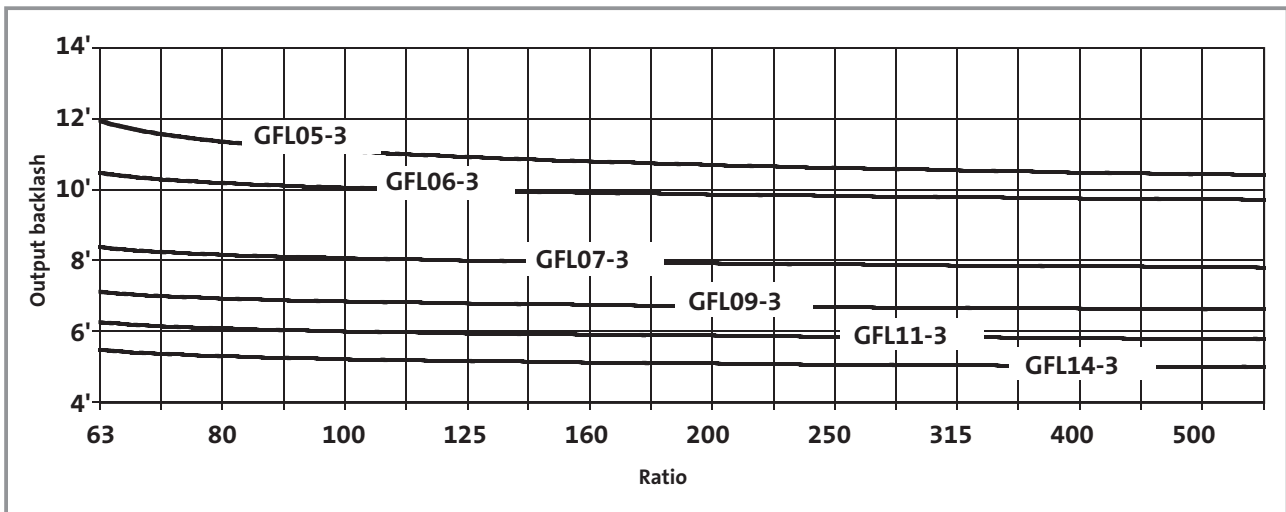
* A reinforced output shaft bearing is available on request for VOR versions.

Neither radial nor axial forces are permitted on hollow shafts with shrink disc (S□□).

GFL00-2



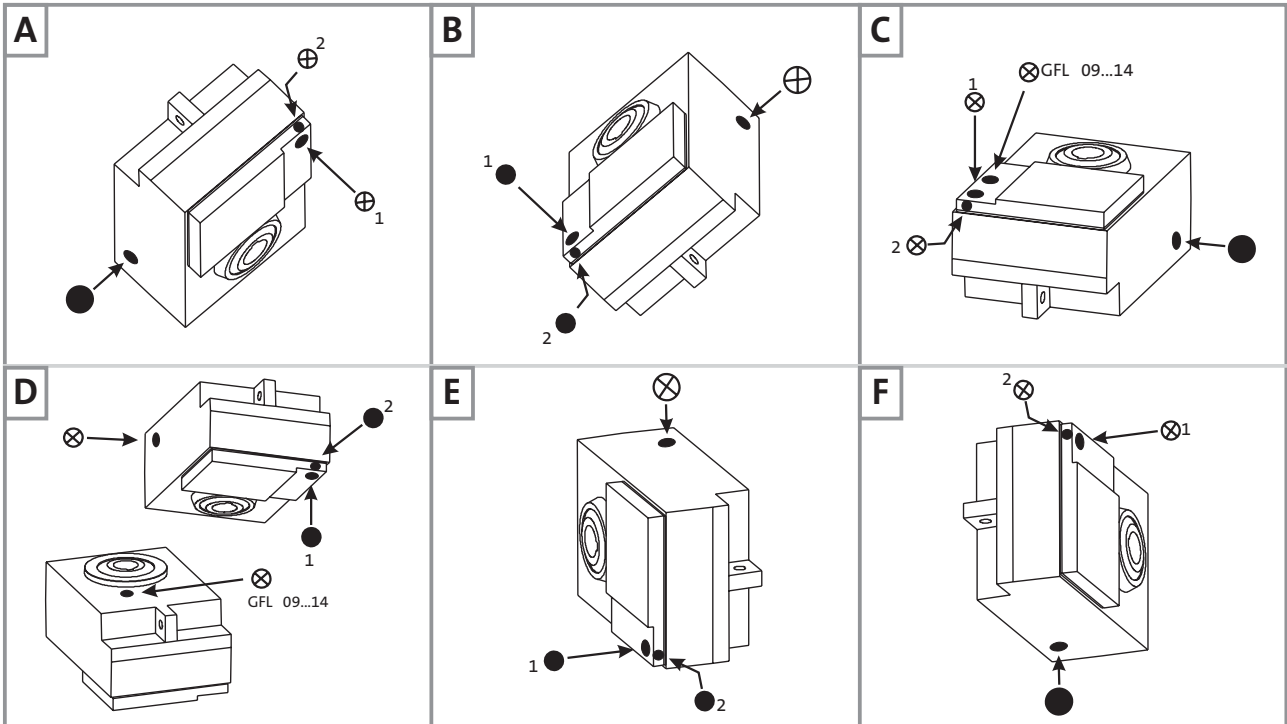
GFL00-3



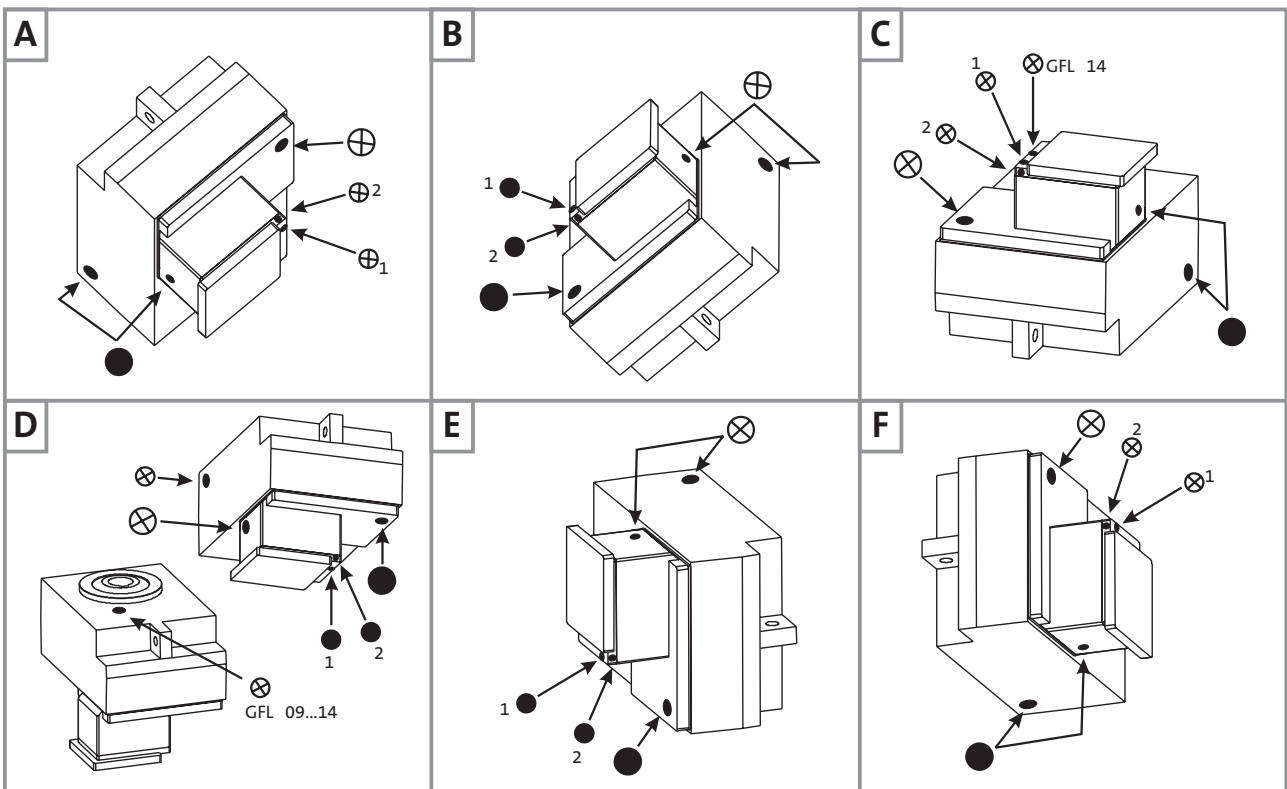


Position of ventilation, oil filler plug and oil drain plug

Shaft-mounted helical gearboxes (low-profile gearboxes) GFL 05 ... 14-2



Shaft-mounted helical gearboxes (low-profile gearboxes) GFL 05 ... 14-3



(A ... F) Mounting position

⊗ Ventilation/oil filler plug

● Oil drain plug

Pos. 1 or 2 depending on version
(see table on page 4-6)

On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

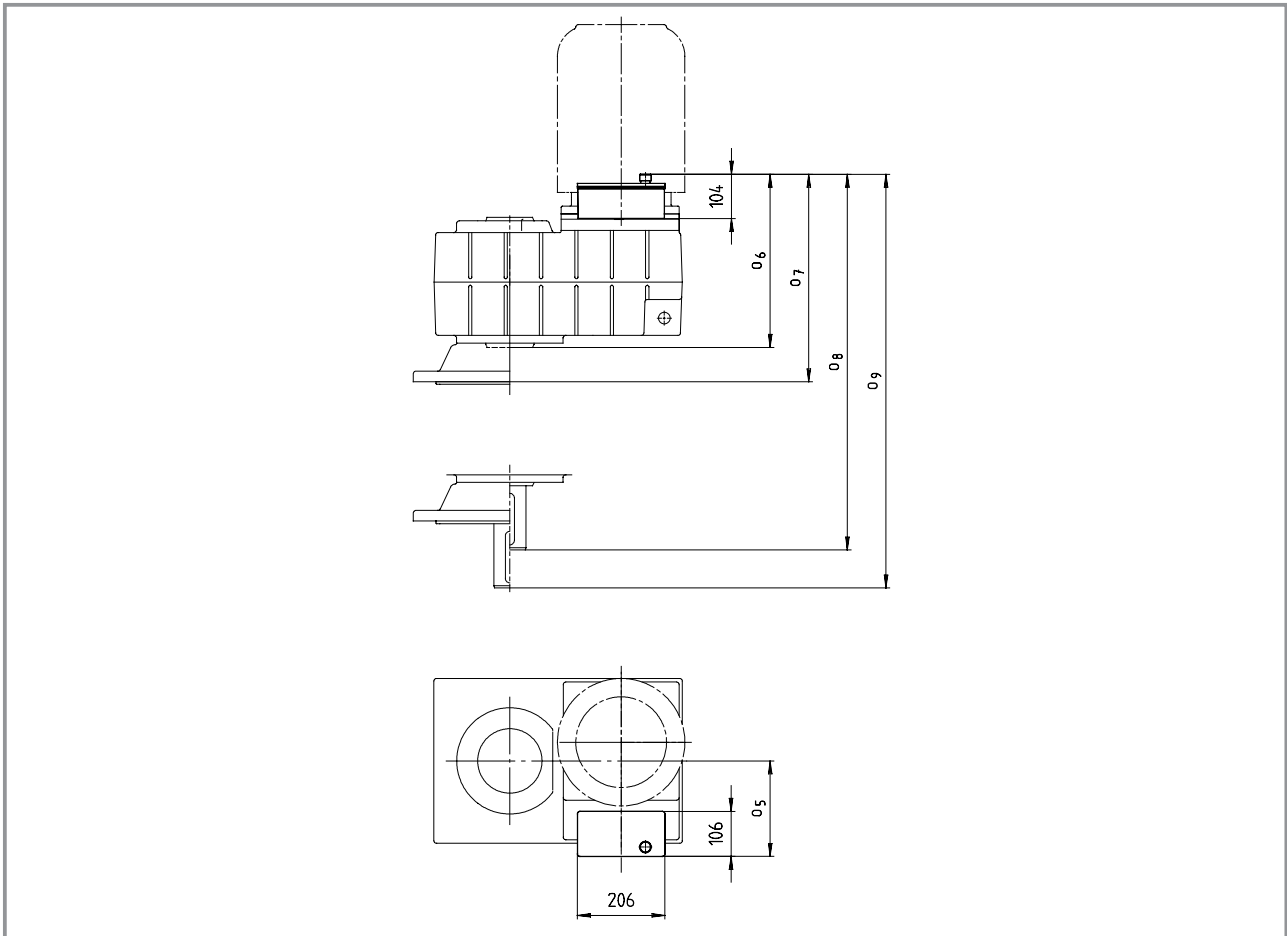
**Shaft-mounted helical gearboxes
(low-profile gearboxes)**

| | | | | | |
|-----|----|----|---|-----|------------|
| GFL | 05 | -2 | E | □□□ | 090 100 |
| | 06 | -2 | E | □□□ | 112 |
| | 07 | -3 | E | □□□ | 090 100 |
| | 09 | -3 | E | □□□ | 112 |



Reservoir for mounting position C

Shaft-mounted helical gearboxes (low-profile gearboxes) GFL



| Shaft-mounted helical gearboxes GFL□□ - 2E | | Motor frame size / Drive size | | |
|--|----------------|-------------------------------|-----|-----|
| | | 090 / 100 | 112 | 132 |
| 09 | o ₅ | 165 | 187 | 204 |
| | o ₆ | 344 | 344 | 344 |
| | o ₇ | 405 | 405 | 405 |
| | o ₈ | 464 | 464 | 464 |
| | o ₉ | 525 | 525 | 525 |
| 11 | o ₅ | 154 | 176 | 200 |
| | o ₆ | 387 | 391 | 391 |
| | o ₇ | 448 | 452 | 452 |
| | o ₈ | 547 | 551 | 551 |
| | o ₉ | 608 | 612 | 612 |
| 14 | o ₅ | | 181 | 211 |
| | o ₆ | | 446 | 446 |
| | o ₇ | | 507 | 507 |
| | o ₈ | | 646 | 646 |
| | o ₉ | | 707 | 707 |

Terminal box position 3 not permitted.
Foot cannot be in position 3.

Shaft-mounted helical gearboxes (low-profile gearboxes) GFL□□-2

| Geared motors GFL□□-2E HCR HDR | Motor frame size | | | | | | | | | | |
|--------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 04 | 13 | 15 | 16 | 21 | 22 | 29 | | | | | |
| 05 | 26 | 28 | 29 | 34 | 35 | 42 | 49 | 55 | | | |
| 06 | 40 | 42 | 43 | 47 | 49 | 56 | 63 | 69 | 77 | 84 | |
| 07 | | | | 73 | 75 | 82 | 89 | 95 | 103 | 110 | 140 |
| 09 | | | | | | 128 | 135 | 141 | 149 | 156 | 187 |
| 11 | | | | | | | 221 | 226 | 234 | 241 | 270 |
| 14 | | | | | | | | | 376 | 383 | 411 |

Shaft-mounted helical gearboxes (low-profile gearboxes) GFL□□-3

| Geared motors GFL□□-3E HCR HDR | Motor frame size | | | | | | | | | | |
|--------------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 05 | 27 | 29 | 30 | 35 | 36 | | | | | | |
| 06 | 44 | 46 | 47 | 52 | 53 | 60 | | | | | |
| 07 | 74 | 76 | 77 | 81 | 83 | 90 | 97 | 103 | | | |
| 09 | 125 | 127 | 128 | 133 | 134 | 141 | 148 | 154 | 163 | 170 | |
| 11 | | | | 226 | 227 | 234 | 241 | 247 | 256 | 263 | 293 |
| 14 | | | | | | 391 | 398 | 404 | 412 | 419 | 449 |

Additional weights

| Gearbox size | Solid shaft V□□ | Hollow shaft with shrink disc S□□ | Flange □□K | Foot □A□ □B□ |
|--------------|--------------------|---|---------------|--------------------|
| 04 | 0.6 | 0.6 | 2.5 | 1 |
| 05 | 1 | 0.8 | 4 | 1.5 |
| 06 | 2.5 | 1 | 7 | 2.5 |
| 07 | 5 | 1.5 | 11 | 4 |
| 09 | 8 | 3 | 16 | 7 |
| 11 | 16 | 5 | 24 | 14 |
| 14 | 33 | 11 | 33 | 23 |

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|---------------------------------|----------------|--|---|------------------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | |

Dimensions see page 4-32 onwards

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 20 | 6 | 59 | 4.9 | 81 | 203 | 6 | 5.4 | 353 | 3.2 | 7.025 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 8.9 | 13 | 26 | 11.2 | 35 | 89 | 13 | 5.4 | 154 | 7.2 | 16.087 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 8.0 | 14 | 23 | 12.4 | 32 | 80 | 14 | 5.4 | 138 | 8 | 17.920 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 6.9 | 16 | 20 | 14.2 | 28 | 69 | 16 | 5.0 | 121 | 9.2 | 20.519 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 6.2 | 18 | 18 | 16 | 25 | 62 | 18 | 5.0 | 108 | 10 | 22.857 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.5 | 25 | 13 | 22 | 18 | 45 | 25 | 5.5 | 78 | 14 | 31.600 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.1 | 28 | 12 | 24 | 16 | 41 | 28 | 5.5 | 70 | 16 | 35.200 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.5 | 32 | 10 | 28 | 14 | 35 | 32 | 4.6 | 61 | 18 | 40.697 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.1 | 35 | 9.1 | 31 | 13 | 31 | 35 | 4.6 | 55 | 20 | 45.333 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.8 | 40 | 8 | 36 | 11 | 28 | 40 | 4.0 | 48 | 23 | 51.579 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.5 | 45 | 7.2 | 40 | 9.9 | 25 | 45 | 3.9 | 43 | 26 | 57.455 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.2 | 50 | 6.4 | 45 | 8.8 | 22 | 50 | 3.2 | 38 | 29 | 64.636 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.0 | 56 | 5.7 | 50 | 7.9 | 20 | 56 | 3.2 | 34 | 32 | 72.000 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.7 | 66 | 4.9 | 59 | 6.7 | 17 | 66 | 1.6 | 29 | 38 | 85.156 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.5 | 74 | 4.4 | 66 | 6.0 | 15 | 74 | 1.6 | 26 | 43 | 94.857 | GFL04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.4 | 78 | 4.1 | 69 | 5.6 | 14 | 78 | 4.2 | 24 | 45 | 101.547 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.2 | 88 | 3.6 | 79 | 5.0 | 12 | 88 | 3.7 | 22 | 51 | 114.952 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.1 | 100 | 3.2 | 89 | 4.4 | 11 | 100 | 3.3 | 19 | 57 | 129.524 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.0 | 111 | 2.9 | 99 | 3.9 | 9.9 | 111 | 5.0 | 17 | 64 | 144.320 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.9 | 125 | 2.5 | 111 | 3.5 | 8.8 | 125 | 4.9 | 15 | 72 | 162.583 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.8 | 136 | 2.3 | 121 | 3.2 | 8.1 | 136 | 2.5 | 14 | 78 | 177.027 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.7 | 153 | 2.1 | 136 | 2.9 | 7.1 | 153 | 2.1 | 12 | 88 | 199.467 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 175 | 1.8 | 156 | 2.5 | 6.3 | 175 | 2.0 | 11 | 101 | 227.989 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 197 | 1.6 | 176 | 2.2 | 5.6 | 197 | 1.7 | 10 | 113 | 256.889 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 200 | 1.6 | 178 | 2.2 | 5.5 | 200 | 3.1 | 10 | 115 | 260.457 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 222 | 1.4 | 198 | 2.0 | 4.9 | 222 | 1.6 | 9 | 128 | 288.948 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 225 | 1.4 | 200 | 1.9 | 4.9 | 225 | 2.9 | 8 | 129 | 293.018 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 250 | 1.3 | 223 | 1.8 | 4.4 | 250 | 1.3 | 8 | 144 | 325.576 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 230 | 1.4 | 205 | 1.9 | 4.8 | 230 | 2.7 | 8 | 132 | 299.200 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 278 | 1.1 | 248 | 1.6 | 3.9 | 278 | 1.2 | 7 | 160 | 362.100 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 282 | 1.1 | 251 | 1.6 | 3.9 | 282 | 2.3 | 7 | 162 | 367.200 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 314 | 1 | 279 | 1.4 | 3.5 | 314 | 1.0 | 6 | 180 | 408.000 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 318 | 1 | 283 | 1.4 | 3.4 | 318 | 1.9 | 6 | 183 | 413.667 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 365 | 0.9 | 325 | 1.2 | 3.0 | 365 | 1.8 | 5 | 210 | 475.200 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 367 | 0.9 | 326 | 1.2 | 3.0 | 367 | 0.9 | 5 | 211 | 477.052 | GFL05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 411 | 0.8 | 366 | 1.1 | 2.7 | 411 | 1.5 | 5 | 236 | 535.333 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 443 | 0.7 | 394 | 1.0 | 2.5 | 443 | 1.4 | 4 | 255 | 576.720 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 499 | 0.6 | 444 | 0.9 | 2.2 | 499 | 1.2 | 4 | 287 | 649.700 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 584 | 0.5 | 520 | 0.8 | 1.9 | 584 | 0.9 | 3 | 336 | 759.806 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 658 | 0.5 | 585 | 0.7 | 1.7 | 658 | 0.9 | 3 | 378 | 855.954 | GFL06 - 3E □□□ 063C12 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz [rpm] | 50 Hz [rpm] | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | | |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 19 | 9 | 56 | 7.6 | 78 | 194 | 9 | 3.4 | 338 | 4.9 | 7.025 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 8.5 | 20 | 25 | 17 | 34 | 85 | 20 | 3.4 | 148 | 11 | 16.087 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 7.6 | 22 | 22 | 19 | 30 | 76 | 22 | 3.4 | 133 | 13 | 17.920 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.7 | 25 | 19 | 22 | 27 | 67 | 25 | 3.2 | 116 | 14 | 20.519 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.0 | 28 | 17 | 25 | 24 | 60 | 28 | 3.2 | 104 | 16 | 22.857 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.3 | 39 | 13 | 34 | 17 | 43 | 39 | 3.5 | 75 | 22 | 31.600 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.9 | 43 | 11 | 38 | 16 | 39 | 43 | 3.5 | 67 | 25 | 35.200 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.4 | 50 | 9.7 | 44 | 13 | 34 | 50 | 2.9 | 58 | 29 | 40.697 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.0 | 55 | 8.7 | 49 | 12 | 30 | 55 | 2.9 | 52 | 32 | 45.333 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.7 | 63 | 7.7 | 56 | 11 | 27 | 63 | 2.6 | 46 | 36 | 51.579 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.4 | 70 | 6.9 | 62 | 9.5 | 24 | 70 | 2.5 | 41 | 40 | 57.455 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.1 | 79 | 6.1 | 70 | 8.4 | 21 | 79 | 2.1 | 37 | 45 | 64.636 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.9 | 88 | 5.5 | 78 | 7.6 | 19 | 88 | 2.0 | 33 | 51 | 72.000 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.6 | 104 | 4.6 | 93 | 6.4 | 16 | 104 | 1.0 | 28 | 60 | 85.156 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.4 | 116 | 4.2 | 103 | 5.8 | 14 | 116 | 1.0 | 25 | 67 | 94.857 | GFL04 - 2E □□□ 063C32 | E82MV 251_2B |
| | | | | | | | | | | | | |
| 1.3 | 122 | 3.9 | 109 | 5.4 | 13 | 122 | 2.7 | 23 | 70 | 101.547 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 138 | 3.4 | 123 | 4.8 | 12 | 138 | 2.4 | 21 | 80 | 114.952 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 140 | 3.4 | 125 | 4.7 | 12 | 140 | 2.9 | 20 | 81 | 116.571 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.1 | 156 | 3.1 | 139 | 4.2 | 11 | 156 | 2.1 | 18 | 90 | 129.524 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.0 | 158 | 3 | 141 | 4.2 | 10 | 158 | 3.2 | 18 | 91 | 131.323 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.9 | 174 | 2.7 | 155 | 3.8 | 9.5 | 174 | 3.2 | 16 | 100 | 144.320 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 196 | 2.4 | 174 | 3.4 | 8.4 | 196 | 3.1 | 15 | 112 | 162.583 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 213 | 2.2 | 190 | 3.1 | 7.7 | 213 | 1.6 | 13 | 122 | 177.027 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 216 | 2.2 | 192 | 3.0 | 7.6 | 216 | 2.8 | 13 | 124 | 179.520 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 240 | 2 | 214 | 2.7 | 6.8 | 240 | 1.4 | 12 | 138 | 199.467 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 243 | 2 | 217 | 2.7 | 6.8 | 243 | 2.5 | 12 | 140 | 202.237 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 274 | 1.7 | 244 | 2.4 | 6.0 | 274 | 1.3 | 10 | 158 | 227.989 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 278 | 1.7 | 248 | 2.4 | 5.9 | 278 | 2.3 | 10 | 160 | 231.200 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 309 | 1.5 | 275 | 2.1 | 5.3 | 309 | 1.1 | 9 | 178 | 256.889 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 313 | 1.5 | 279 | 2.1 | 5.2 | 313 | 2.0 | 9 | 180 | 260.457 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 348 | 1.4 | 309 | 1.9 | 4.7 | 348 | 1.0 | 8 | 200 | 288.948 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 353 | 1.4 | 314 | 1.9 | 4.7 | 353 | 1.9 | 8 | 203 | 293.018 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 392 | 1.2 | 349 | 1.7 | 4.2 | 392 | 0.8 | 7 | 225 | 325.576 | GFL05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 360 | 1.3 | 320 | 1.8 | 4.6 | 360 | 1.7 | 8 | 207 | 299.200 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 442 | 1.1 | 393 | 1.5 | 3.7 | 442 | 1.5 | 6 | 254 | 367.200 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 498 | 1 | 443 | 1.3 | 3.3 | 498 | 1.2 | 6 | 286 | 413.667 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 572 | 0.8 | 509 | 1.1 | 2.9 | 572 | 1.1 | 5 | 329 | 475.200 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 644 | 0.7 | 573 | 1.0 | 2.6 | 644 | 1.0 | 4 | 370 | 535.333 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 694 | 0.7 | 618 | 0.9 | 2.4 | 694 | 0.9 | 4 | 399 | 576.720 | GFL06 - 3E □□□ 063C32 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 37 | 6 | 109 | 5.5 | 150 | 374 | 6 | 4.5 | 651 | 3.6 | 3.659 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 27 | 9 | 79 | 7.6 | 109 | 273 | 9 | 4.5 | 475 | 4.9 | 5.018 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 23 | 10 | 68 | 8.8 | 94 | 235 | 10 | 4.5 | 409 | 5.7 | 5.833 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 21 | 11 | 62 | 9.6 | 86 | 214 | 11 | 4.5 | 372 | 6.2 | 6.400 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 20 | 12 | 57 | 10.6 | 78 | 195 | 12 | 5.2 | 339 | 6.8 | 7.025 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 16 | 14 | 47 | 12.6 | 65 | 164 | 14 | 4.5 | 285 | 8.1 | 8.379 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 15 | 16 | 43 | 14 | 59 | 147 | 16 | 4.5 | 255 | 9.1 | 9.333 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 13 | 17 | 39 | 15.4 | 54 | 134 | 17 | 5.2 | 233 | 9.9 | 10.238 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 35 | 17 | 48 | 119 | 19 | 4.5 | 207 | 11 | 11.491 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 11 | 22 | 31 | 19 | 43 | 107 | 22 | 4.5 | 186 | 12 | 12.800 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.3 | 25 | 27 | 22 | 37 | 93 | 25 | 5.2 | 162 | 14 | 14.706 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 8.6 | 27 | 25 | 24 | 34 | 86 | 27 | 4.5 | 150 | 15 | 15.904 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.7 | 30 | 22 | 27 | 31 | 77 | 30 | 4.5 | 133 | 17 | 17.920 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.7 | 35 | 19 | 31 | 27 | 67 | 35 | 4.8 | 116 | 20 | 20.519 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.0 | 39 | 17 | 34 | 24 | 60 | 39 | 4.3 | 104 | 22 | 22.857 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.5 | 43 | 16 | 38 | 22 | 55 | 43 | 4.3 | 95 | 24 | 25.136 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.9 | 47 | 14 | 42 | 20 | 49 | 47 | 3.5 | 85 | 27 | 28.000 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 53 | 13 | 48 | 17 | 43 | 53 | 3.5 | 75 | 31 | 31.600 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.9 | 60 | 11 | 53 | 16 | 39 | 60 | 2.9 | 68 | 34 | 35.200 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.4 | 69 | 9.8 | 61 | 13 | 34 | 69 | 2.7 | 59 | 40 | 40.697 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.0 | 77 | 8.8 | 68 | 12 | 30 | 77 | 2.2 | 53 | 44 | 45.333 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.7 | 87 | 7.7 | 78 | 11 | 27 | 87 | 2.2 | 46 | 50 | 51.579 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.4 | 97 | 6.9 | 86 | 9.5 | 24 | 97 | 1.8 | 41 | 56 | 57.455 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.3 | 99 | 6.8 | 88 | 9.4 | 23 | 99 | 3.2 | 41 | 57 | 58.667 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.1 | 109 | 6.1 | 97 | 8.5 | 21 | 109 | 1.2 | 37 | 63 | 64.636 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.2 | 107 | 6.3 | 95 | 8.7 | 22 | 107 | 2.6 | 38 | 61 | 63.190 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.1 | 108 | 6.2 | 96 | 8.6 | 21 | 108 | 3.2 | 37 | 62 | 64.080 | GFL06 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.9 | 122 | 5.5 | 108 | 7.6 | 19 | 122 | 1.2 | 33 | 70 | 72.000 | GFL04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.9 | 120 | 5.6 | 107 | 7.7 | 19 | 120 | 2.5 | 33 | 69 | 71.200 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.9 | 122 | 5.5 | 109 | 7.6 | 19 | 122 | 3.2 | 33 | 70 | 72.189 | GFL06 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 137 | 4.9 | 122 | 6.8 | 17 | 137 | 1.4 | 30 | 78 | 80.763 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 137 | 4.9 | 122 | 6.8 | 17 | 137 | 2.6 | 29 | 79 | 81.000 | GFL06 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 154 | 4.4 | 137 | 6.0 | 15 | 154 | 1.4 | 26 | 88 | 91.000 | GFL05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 154 | 4.4 | 137 | 6.0 | 15 | 154 | 2.6 | 26 | 89 | 91.250 | GFL06 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 154 | 4.3 | 137 | 5.9 | 15 | 154 | 5.2 | 26 | 88 | 92.413 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 169 | 3.9 | 151 | 5.4 | 14 | 169 | 1.9 | 23 | 97 | 101.547 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 191 | 3.5 | 170 | 4.8 | 12 | 191 | 1.7 | 21 | 110 | 114.952 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 194 | 3.4 | 173 | 4.7 | 12 | 194 | 2.7 | 20 | 112 | 116.571 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 216 | 3.1 | 192 | 4.2 | 11 | 216 | 1.5 | 18 | 124 | 129.524 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 219 | 3 | 195 | 4.2 | 10 | 219 | 2.7 | 18 | 126 | 131.323 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 235 | 2.8 | 209 | 3.9 | 9.7 | 235 | 1.5 | 17 | 135 | 140.817 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 240 | 2.8 | 214 | 3.8 | 9.5 | 240 | 2.3 | 17 | 138 | 144.320 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |
| | | | | [rpm] | [rpm] | [Nm] | | | | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|-----|---------|-----------------------|--------------|
| 0.9 | 264 | 2.5 | 235 | 3.5 | 8.6 | 264 | 1.2 | 15 | 152 | 158.667 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 271 | 2.4 | 241 | 3.4 | 8.4 | 271 | 2.3 | 15 | 156 | 162.583 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 295 | 2.2 | 262 | 3.1 | 7.7 | 295 | 1.2 | 13 | 169 | 177.027 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 299 | 2.2 | 266 | 3.1 | 7.6 | 299 | 2.0 | 13 | 172 | 179.520 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 332 | 2 | 296 | 2.7 | 6.9 | 332 | 1.0 | 12 | 191 | 199.467 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 337 | 2 | 300 | 2.7 | 6.8 | 337 | 1.8 | 12 | 194 | 202.237 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 380 | 1.7 | 338 | 2.4 | 6.0 | 380 | 0.9 | 10 | 218 | 227.989 | GFL05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 385 | 1.7 | 343 | 2.4 | 5.9 | 385 | 1.6 | 10 | 221 | 231.200 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 434 | 1.5 | 386 | 2.1 | 5.3 | 434 | 1.4 | 9 | 249 | 260.457 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 422 | 1.6 | 375 | 2.2 | 5.4 | 422 | 3.0 | 9 | 242 | 253.111 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 488 | 1.4 | 434 | 1.9 | 4.7 | 488 | 1.3 | 8 | 280 | 293.018 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 484 | 1.4 | 431 | 1.9 | 4.7 | 484 | 2.8 | 8 | 278 | 290.706 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 498 | 1.3 | 443 | 1.8 | 4.6 | 498 | 1.2 | 8 | 286 | 299.200 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 546 | 1.2 | 485 | 1.7 | 4.2 | 546 | 2.3 | 7 | 313 | 327.556 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 612 | 1.1 | 544 | 1.5 | 3.7 | 612 | 1.1 | 6 | 351 | 367.200 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 588 | 1.1 | 523 | 1.6 | 3.9 | 588 | 2.3 | 7 | 338 | 352.811 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 588 | 1.1 | 523 | 1.6 | 3.9 | 588 | 3.2 | 7 | 338 | 353.033 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 689 | 1 | 613 | 1.3 | 3.3 | 689 | 0.9 | 6 | 396 | 413.667 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 662 | 1 | 589 | 1.4 | 3.5 | 662 | 1.9 | 6 | 380 | 397.533 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 663 | 1 | 590 | 1.4 | 3.4 | 663 | 3.2 | 6 | 381 | 397.863 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 791 | 0.8 | 704 | 1.2 | 2.9 | 791 | 0.8 | 5 | 455 | 475.200 | GFL06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 717 | 0.9 | 638 | 1.3 | 3.2 | 717 | 1.8 | 6 | 412 | 430.222 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 870 | 0.8 | 774 | 1.0 | 2.6 | 870 | 1.5 | 5 | 500 | 522.133 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 857 | 0.8 | 763 | 1.1 | 2.7 | 857 | 3.2 | 5 | 493 | 514.881 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 937 | 0.7 | 834 | 1.0 | 2.4 | 937 | 1.2 | 4 | 538 | 562.391 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 923 | 0.7 | 822 | 1.0 | 2.5 | 923 | 2.3 | 4 | 531 | 554.470 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1055 | 0.6 | 939 | 0.9 | 2.2 | 1055 | 1.2 | 4 | 606 | 633.680 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1041 | 0.6 | 926 | 0.9 | 2.2 | 1041 | 2.2 | 4 | 598 | 624.879 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1197 | 0.6 | 1065 | 0.8 | 1.9 | 1197 | 0.9 | 3 | 688 | 718.786 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1167 | 0.6 | 1039 | 0.8 | 2.0 | 1167 | 1.8 | 3 | 671 | 700.875 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1349 | 0.5 | 1200 | 0.7 | 1.7 | 1349 | 0.9 | 3 | 775 | 809.900 | GFL07 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1315 | 0.5 | 1171 | 0.7 | 1.7 | 1315 | 1.7 | 3 | 756 | 789.875 | GFL09 - 3E □□□ 063C42 | E82MV 251_2B |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 39 | 9 | 112 | 7.9 | 154 | 385 | 9 | 4.0 | 670 | 5.1 | 3.659 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 28 | 12 | 81 | 10.9 | 112 | 281 | 12 | 4.0 | 489 | 7 | 5.018 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 24 | 14 | 70 | 12.6 | 97 | 242 | 14 | 4.0 | 421 | 8.2 | 5.833 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 22 | 16 | 64 | 13.8 | 88 | 220 | 16 | 4.0 | 383 | 8.9 | 6.400 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 20 | 17 | 58 | 15.2 | 80 | 201 | 17 | 4.5 | 349 | 9.8 | 7.025 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 17 | 20 | 49 | 18 | 67 | 168 | 20 | 4.0 | 293 | 12 | 8.379 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 15 | 23 | 44 | 20 | 60 | 151 | 23 | 4.0 | 263 | 13 | 9.333 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 14 | 25 | 40 | 22 | 55 | 138 | 25 | 4.5 | 240 | 14 | 10.238 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 12 | 28 | 36 | 25 | 49 | 123 | 28 | 4.0 | 214 | 16 | 11.491 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 31 | 32 | 28 | 44 | 110 | 31 | 4.0 | 192 | 18 | 12.800 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.6 | 36 | 28 | 32 | 38 | 96 | 36 | 4.5 | 167 | 21 | 14.706 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 8.9 | 39 | 26 | 34 | 35 | 89 | 39 | 4.0 | 154 | 22 | 15.904 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | 87 Hz | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | n ₂ | M ₂ | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 7.9 | 44 | 23 | 39 | 31 | 79 | 44 | 3.8 | 137 | 25 | 17.920 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.9 | 50 | 20 | 44 | 27 | 69 | 50 | 3.7 | 120 | 29 | 20.519 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.2 | 56 | 18 | 49 | 25 | 62 | 56 | 3.0 | 107 | 32 | 22.857 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.6 | 61 | 16 | 54 | 22 | 56 | 61 | 3.0 | 98 | 35 | 25.136 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.0 | 68 | 15 | 61 | 20 | 50 | 68 | 2.5 | 88 | 39 | 28.000 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.5 | 77 | 13 | 68 | 18 | 45 | 77 | 2.4 | 78 | 44 | 31.600 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.0 | 86 | 12 | 76 | 16 | 40 | 86 | 2.0 | 70 | 49 | 35.200 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.5 | 99 | 10 | 88 | 14 | 35 | 99 | 1.9 | 60 | 57 | 40.697 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.5 | 98 | 10 | 87 | 14 | 35 | 98 | 3.2 | 61 | 56 | 40.233 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.1 | 110 | 9 | 98 | 12 | 31 | 110 | 1.6 | 54 | 63 | 45.333 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.1 | 110 | 9 | 98 | 12 | 31 | 110 | 2.9 | 54 | 63 | 45.333 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.7 | 125 | 7.9 | 112 | 11 | 27 | 125 | 1.5 | 48 | 72 | 51.579 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.7 | 127 | 7.9 | 113 | 11 | 27 | 127 | 2.4 | 47 | 73 | 52.067 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.7 | 128 | 7.7 | 114 | 11 | 27 | 128 | 3.2 | 46 | 74 | 52.800 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.5 | 140 | 7.1 | 124 | 9.8 | 25 | 140 | 1.2 | 43 | 80 | 57.455 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.4 | 143 | 7 | 127 | 9.6 | 24 | 143 | 2.3 | 42 | 82 | 58.667 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.4 | 145 | 6.9 | 129 | 9.5 | 24 | 145 | 3.2 | 41 | 83 | 59.481 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.2 | 157 | 6.3 | 140 | 8.7 | 22 | 157 | 1.0 | 38 | 90 | 64.636 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.2 | 154 | 6.5 | 137 | 8.9 | 22 | 154 | 1.8 | 39 | 88 | 63.190 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.2 | 156 | 6.4 | 139 | 8.8 | 22 | 156 | 2.8 | 38 | 90 | 64.080 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 175 | 5.7 | 156 | 7.8 | 20 | 175 | 1.0 | 34 | 101 | 72.000 | GFL04 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 173 | 5.7 | 154 | 7.9 | 20 | 173 | 1.8 | 34 | 99 | 71.200 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 176 | 5.7 | 156 | 7.8 | 20 | 176 | 2.8 | 34 | 101 | 72.189 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.8 | 196 | 5.1 | 175 | 7.0 | 18 | 196 | 1.1 | 30 | 113 | 80.763 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.7 | 197 | 5 | 175 | 7.0 | 17 | 197 | 2.2 | 30 | 113 | 81.000 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.6 | 221 | 4.5 | 197 | 6.2 | 16 | 221 | 1.1 | 27 | 127 | 91.000 | GFL05 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.6 | 222 | 4.5 | 197 | 6.2 | 16 | 222 | 2.1 | 27 | 128 | 91.250 | GFL06 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.5 | 221 | 4.4 | 197 | 6.1 | 15 | 221 | 4.3 | 27 | 127 | 92.413 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.4 | 243 | 4 | 216 | 5.6 | 14 | 243 | 1.3 | 24 | 140 | 101.547 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.4 | 238 | 4.1 | 212 | 5.7 | 14 | 238 | 2.3 | 25 | 137 | 99.361 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.2 | 275 | 3.6 | 245 | 4.9 | 12 | 275 | 1.2 | 21 | 158 | 114.952 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.2 | 279 | 3.5 | 248 | 4.8 | 12 | 279 | 1.9 | 21 | 160 | 116.571 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 310 | 3.2 | 276 | 4.4 | 11 | 310 | 1.1 | 19 | 178 | 129.524 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 315 | 3.1 | 280 | 4.3 | 11 | 315 | 1.9 | 19 | 181 | 131.323 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 337 | 2.9 | 300 | 4.0 | 10 | 337 | 1.0 | 17 | 194 | 140.817 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 346 | 2.8 | 308 | 3.9 | 9.8 | 346 | 1.6 | 17 | 199 | 144.320 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 353 | 2.8 | 314 | 3.8 | 9.6 | 353 | 3.2 | 17 | 203 | 147.347 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.9 | 380 | 2.6 | 338 | 3.6 | 8.9 | 380 | 0.9 | 15 | 218 | 158.667 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.9 | 389 | 2.5 | 347 | 3.5 | 8.7 | 389 | 1.6 | 15 | 224 | 162.583 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 398 | 2.5 | 354 | 3.4 | 8.5 | 398 | 3.1 | 15 | 229 | 166.025 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 424 | 2.3 | 377 | 3.2 | 8.0 | 424 | 0.8 | 14 | 244 | 177.027 | GFL05 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 430 | 2.3 | 383 | 3.1 | 7.9 | 430 | 1.4 | 14 | 247 | 179.520 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 439 | 2.2 | 391 | 3.1 | 7.7 | 439 | 2.8 | 13 | 252 | 183.285 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 484 | 2 | 431 | 2.8 | 7.0 | 484 | 1.3 | 12 | 278 | 202.237 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 495 | 2 | 440 | 2.7 | 6.8 | 495 | 2.5 | 12 | 284 | 206.519 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 554 | 1.8 | 493 | 2.4 | 6.1 | 554 | 1.1 | 11 | 318 | 231.200 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 538 | 1.8 | 479 | 2.5 | 6.3 | 538 | 2.5 | 11 | 309 | 224.636 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |
| | | | | [rpm] | [rpm] | [Nm] | | | | | | |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 0.5 | 624 | 1.6 | 555 | 2.2 | 5.4 | 624 | 1.0 | 9 | 358 | 260.457 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 606 | 1.6 | 539 | 2.2 | 5.6 | 606 | 2.1 | 10 | 348 | 253.111 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 702 | 1.4 | 625 | 1.9 | 4.8 | 702 | 0.9 | 8 | 403 | 293.018 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 696 | 1.4 | 620 | 1.9 | 4.9 | 696 | 2.0 | 8 | 400 | 290.706 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 697 | 1.4 | 620 | 1.9 | 4.9 | 697 | 3.2 | 8 | 400 | 290.889 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 717 | 1.4 | 638 | 1.9 | 4.7 | 717 | 0.9 | 8 | 412 | 299.200 | GFL06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 784 | 1.2 | 698 | 1.7 | 4.3 | 784 | 1.6 | 7 | 451 | 327.556 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 785 | 1.2 | 699 | 1.7 | 4.3 | 785 | 3.2 | 7 | 451 | 327.827 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 845 | 1.2 | 752 | 1.6 | 4.0 | 845 | 1.6 | 7 | 486 | 352.811 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 845 | 1.2 | 752 | 1.6 | 4.0 | 845 | 2.8 | 7 | 486 | 353.033 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 952 | 1 | 847 | 1.4 | 3.6 | 952 | 1.3 | 6 | 547 | 397.533 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 953 | 1 | 848 | 1.4 | 3.5 | 953 | 2.8 | 6 | 548 | 397.863 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1030 | 1 | 917 | 1.3 | 3.3 | 1030 | 1.2 | 6 | 592 | 430.222 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1016 | 1 | 904 | 1.3 | 3.3 | 1016 | 2.7 | 6 | 584 | 424.247 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1250 | 0.8 | 1113 | 1.1 | 2.7 | 1250 | 1.0 | 5 | 719 | 522.133 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1233 | 0.8 | 1097 | 1.1 | 2.7 | 1233 | 2.2 | 5 | 709 | 514.881 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1347 | 0.7 | 1199 | 1.0 | 2.5 | 1347 | 0.8 | 4 | 774 | 562.391 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1328 | 0.7 | 1182 | 1.0 | 2.5 | 1328 | 1.6 | 4 | 763 | 554.470 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1518 | 0.6 | 1351 | 0.9 | 2.2 | 1518 | 0.8 | 4 | 872 | 633.680 | GFL07 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1496 | 0.7 | 1332 | 0.9 | 2.3 | 1496 | 1.5 | 4 | 860 | 624.879 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1678 | 0.6 | 1494 | 0.8 | 2.0 | 1678 | 1.3 | 4 | 965 | 700.875 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1892 | 0.5 | 1683 | 0.7 | 1.8 | 1892 | 1.2 | 3 | 1087 | 789.875 | GFL09 - 3E □□□ 071C32 | E82MV 371_2B |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 38 | 13 | 111 | 11.8 | 154 | 384 | 13 | 4.5 | 668 | 7.6 | 3.659 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 28 | 18 | 81 | 16 | 112 | 280 | 18 | 4.5 | 487 | 10 | 5.018 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 24 | 21 | 70 | 19 | 96 | 241 | 21 | 4.5 | 419 | 12 | 5.833 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 22 | 23 | 63 | 21 | 88 | 219 | 23 | 4.2 | 381 | 13 | 6.422 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 20 | 26 | 58 | 23 | 80 | 200 | 26 | 4.2 | 348 | 15 | 7.025 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 17 | 30 | 49 | 27 | 67 | 168 | 30 | 4.5 | 292 | 17 | 8.379 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 16 | 33 | 45 | 29 | 62 | 156 | 33 | 4.5 | 271 | 19 | 9.010 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 14 | 37 | 40 | 33 | 55 | 137 | 37 | 4.2 | 239 | 21 | 10.238 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 12 | 42 | 35 | 37 | 49 | 122 | 42 | 4.3 | 213 | 24 | 11.491 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 46 | 32 | 41 | 44 | 110 | 46 | 3.6 | 191 | 27 | 12.800 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.6 | 53 | 28 | 47 | 38 | 96 | 53 | 3.4 | 166 | 31 | 14.706 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 8.7 | 58 | 25 | 52 | 35 | 87 | 58 | 3.1 | 152 | 34 | 16.087 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 7.8 | 65 | 23 | 58 | 31 | 78 | 65 | 2.6 | 136 | 37 | 17.920 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 6.9 | 74 | 20 | 66 | 27 | 69 | 74 | 2.5 | 119 | 43 | 20.519 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 6.2 | 83 | 18 | 74 | 25 | 62 | 83 | 2.0 | 107 | 48 | 22.857 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.6 | 91 | 16 | 81 | 22 | 56 | 91 | 2.0 | 97 | 52 | 25.136 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.0 | 102 | 15 | 90 | 20 | 50 | 102 | 1.7 | 87 | 58 | 28.000 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.0 | 102 | 15 | 90 | 20 | 50 | 102 | 3.1 | 87 | 58 | 28.000 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.5 | 115 | 13 | 102 | 18 | 45 | 115 | 1.6 | 77 | 66 | 31.600 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.3 | 117 | 13 | 104 | 17 | 43 | 117 | 2.9 | 76 | 67 | 32.344 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|---------------------------------|----------------|--|--|---|------------------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | |

Dimensions see page 4-32 onwards

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|-----|---------|-----------------------|--------------|
| 4.0 | 128 | 12 | 114 | 16 | 40 | 128 | 1.3 | 69 | 73 | 35.200 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.9 | 132 | 11 | 118 | 15 | 39 | 132 | 2.4 | 67 | 76 | 36.444 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.5 | 148 | 10 | 131 | 14 | 35 | 148 | 1.3 | 60 | 85 | 40.697 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.5 | 146 | 10 | 130 | 14 | 35 | 146 | 2.4 | 61 | 84 | 40.233 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.4 | 148 | 10 | 132 | 14 | 34 | 148 | 3.2 | 60 | 85 | 40.800 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.1 | 164 | 9 | 146 | 12 | 31 | 164 | 1.0 | 54 | 94 | 45.333 | GFL04 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.1 | 164 | 9 | 146 | 12 | 31 | 164 | 1.9 | 54 | 94 | 45.333 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.1 | 167 | 8.9 | 148 | 12 | 31 | 167 | 3.2 | 53 | 96 | 45.963 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.7 | 189 | 7.8 | 168 | 11 | 27 | 189 | 1.6 | 47 | 109 | 52.067 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.7 | 192 | 7.7 | 170 | 11 | 27 | 192 | 2.9 | 46 | 110 | 52.800 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.4 | 213 | 6.9 | 189 | 9.6 | 24 | 213 | 1.5 | 42 | 122 | 58.667 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.4 | 216 | 6.9 | 192 | 9.4 | 24 | 216 | 2.9 | 41 | 124 | 59.481 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.2 | 229 | 6.4 | 204 | 8.9 | 22 | 229 | 1.2 | 39 | 132 | 63.190 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.2 | 232 | 6.4 | 207 | 8.8 | 22 | 232 | 2.4 | 38 | 134 | 64.080 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 258 | 5.7 | 230 | 7.9 | 20 | 258 | 1.2 | 34 | 148 | 71.200 | GFL05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 262 | 5.6 | 233 | 7.8 | 20 | 262 | 2.4 | 34 | 150 | 72.189 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.7 | 294 | 5 | 261 | 6.9 | 17 | 294 | 1.4 | 30 | 169 | 81.000 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.5 | 331 | 4.5 | 295 | 6.2 | 15 | 331 | 1.4 | 27 | 190 | 91.250 | GFL06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.5 | 330 | 4.4 | 294 | 6.1 | 15 | 330 | 2.9 | 26 | 190 | 92.413 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 363 | 4 | 323 | 5.5 | 14 | 363 | 0.9 | 24 | 208 | 101.547 | GFL05 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 355 | 4.1 | 316 | 5.6 | 14 | 355 | 1.5 | 25 | 204 | 99.361 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 372 | 3.9 | 331 | 5.4 | 14 | 372 | 2.9 | 23 | 214 | 104.127 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 411 | 3.5 | 365 | 4.9 | 12 | 411 | 0.8 | 21 | 236 | 114.952 | GFL05 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 416 | 3.5 | 371 | 4.8 | 12 | 416 | 1.3 | 21 | 239 | 116.571 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 404 | 3.6 | 360 | 5.0 | 12 | 404 | 2.6 | 22 | 232 | 113.206 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 469 | 3.1 | 418 | 4.3 | 11 | 469 | 1.3 | 19 | 270 | 131.323 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 456 | 3.2 | 406 | 4.4 | 11 | 456 | 2.6 | 19 | 262 | 127.556 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 516 | 2.8 | 459 | 3.9 | 9.7 | 516 | 1.1 | 17 | 296 | 144.320 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 526 | 2.8 | 468 | 3.8 | 9.5 | 526 | 2.2 | 17 | 303 | 147.347 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.9 | 581 | 2.5 | 517 | 3.5 | 8.6 | 581 | 1.1 | 15 | 334 | 162.583 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 593 | 2.5 | 528 | 3.4 | 8.5 | 593 | 2.1 | 15 | 341 | 166.025 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 641 | 2.3 | 571 | 3.1 | 7.8 | 641 | 0.9 | 14 | 369 | 179.520 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 655 | 2.2 | 583 | 3.1 | 7.7 | 655 | 1.9 | 13 | 376 | 183.285 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 661 | 2.2 | 589 | 3.0 | 7.6 | 661 | 3.2 | 13 | 380 | 185.111 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 723 | 2 | 643 | 2.8 | 7.0 | 723 | 0.8 | 12 | 415 | 202.237 | GFL06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 738 | 2 | 657 | 2.7 | 6.8 | 738 | 1.7 | 12 | 424 | 206.519 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 745 | 2 | 663 | 2.7 | 6.7 | 745 | 3.2 | 12 | 428 | 208.617 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 803 | 1.8 | 714 | 2.5 | 6.3 | 803 | 1.7 | 11 | 461 | 224.636 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 803 | 1.8 | 715 | 2.5 | 6.3 | 803 | 3.0 | 11 | 461 | 224.778 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 904 | 1.6 | 805 | 2.2 | 5.6 | 904 | 1.4 | 10 | 520 | 253.111 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 905 | 1.6 | 805 | 2.2 | 5.6 | 905 | 3.0 | 10 | 520 | 253.321 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 1039 | 1.4 | 924 | 1.9 | 4.8 | 1039 | 1.3 | 8 | 597 | 290.706 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 1039 | 1.4 | 925 | 1.9 | 4.8 | 1039 | 2.5 | 8 | 597 | 290.889 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1170 | 1.2 | 1041 | 1.7 | 4.3 | 1170 | 1.1 | 7 | 673 | 327.556 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1171 | 1.2 | 1042 | 1.7 | 4.3 | 1171 | 2.5 | 7 | 673 | 327.827 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1260 | 1.2 | 1122 | 1.6 | 4.0 | 1260 | 1.1 | 7 | 724 | 352.811 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1261 | 1.2 | 1122 | 1.6 | 4.0 | 1261 | 2.2 | 7 | 725 | 353.033 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|---|------|---------|-----------------------|--------------|
| 0.4 | 1420 | 1 | 1264 | 1.4 | 3.5 | 1420 | 0.9 | 6 | 816 | 397.533 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1421 | 1 | 1265 | 1.4 | 3.5 | 1421 | 2.2 | 6 | 817 | 397.863 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1537 | 0.9 | 1368 | 1.3 | 3.3 | 1537 | 0.8 | 6 | 883 | 430.222 | GFL07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1516 | 1 | 1349 | 1.3 | 3.3 | 1516 | 1.8 | 6 | 871 | 424.247 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1839 | 0.8 | 1637 | 1.1 | 2.7 | 1839 | 1.5 | 5 | 1057 | 514.881 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1981 | 0.7 | 1763 | 1.0 | 2.5 | 1981 | 1.1 | 4 | 1138 | 554.470 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2232 | 0.7 | 1987 | 0.9 | 2.3 | 2232 | 1.0 | 4 | 1283 | 624.879 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2504 | 0.6 | 2228 | 0.8 | 2.0 | 2504 | 0.8 | 3 | 1439 | 700.875 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2822 | 0.5 | 2511 | 0.7 | 1.8 | 2822 | 0.8 | 3 | 1622 | 789.875 | GFL09 - 3E □□□ 071C42 | E82MV 551_4B |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 39 | 18 | 112 | 16 | 154 | 385 | 18 | 4.2 | 670 | 10 | 3.659 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 28 | 25 | 81 | 22 | 112 | 281 | 25 | 4.2 | 489 | 14 | 5.018 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 24 | 29 | 70 | 26 | 97 | 242 | 29 | 4.2 | 421 | 17 | 5.833 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 22 | 32 | 64 | 28 | 88 | 220 | 32 | 3.6 | 382 | 18 | 6.422 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 20 | 35 | 58 | 31 | 80 | 201 | 35 | 3.3 | 349 | 20 | 7.025 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 17 | 41 | 49 | 37 | 67 | 168 | 41 | 4.2 | 293 | 24 | 8.379 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 15 | 46 | 44 | 41 | 60 | 151 | 46 | 3.6 | 263 | 26 | 9.333 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 14 | 51 | 40 | 45 | 55 | 138 | 51 | 3.2 | 240 | 29 | 10.238 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 12 | 57 | 36 | 50 | 49 | 123 | 57 | 3.2 | 214 | 33 | 11.491 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 11 | 63 | 32 | 56 | 44 | 110 | 63 | 2.6 | 192 | 36 | 12.800 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.6 | 73 | 28 | 64 | 38 | 96 | 73 | 2.5 | 167 | 42 | 14.706 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.8 | 79 | 25 | 71 | 35 | 88 | 79 | 2.3 | 153 | 46 | 16.087 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 7.9 | 88 | 23 | 79 | 31 | 79 | 88 | 1.9 | 137 | 51 | 17.920 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.9 | 101 | 20 | 90 | 27 | 69 | 101 | 1.8 | 120 | 58 | 20.519 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.2 | 113 | 18 | 100 | 25 | 62 | 113 | 1.5 | 107 | 65 | 22.857 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.2 | 113 | 18 | 100 | 25 | 62 | 113 | 2.8 | 107 | 65 | 22.857 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.6 | 124 | 16 | 110 | 22 | 56 | 124 | 1.5 | 98 | 71 | 25.136 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.7 | 123 | 16 | 109 | 23 | 57 | 123 | 2.8 | 99 | 70 | 24.850 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.0 | 138 | 15 | 123 | 20 | 50 | 138 | 1.2 | 88 | 79 | 28.000 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.0 | 138 | 15 | 123 | 20 | 50 | 138 | 2.3 | 88 | 79 | 28.000 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.5 | 156 | 13 | 139 | 18 | 45 | 156 | 1.2 | 78 | 90 | 31.600 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.4 | 159 | 13 | 142 | 17 | 44 | 159 | 2.2 | 76 | 92 | 32.344 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.0 | 174 | 12 | 154 | 16 | 40 | 174 | 1.0 | 70 | 100 | 35.200 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.9 | 180 | 11 | 160 | 15 | 39 | 180 | 1.8 | 67 | 103 | 36.444 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.5 | 201 | 10 | 178 | 14 | 35 | 201 | 0.9 | 60 | 115 | 40.697 | GFL04 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.5 | 198 | 10 | 176 | 14 | 35 | 198 | 1.7 | 61 | 114 | 40.233 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.5 | 201 | 10 | 179 | 14 | 35 | 201 | 2.9 | 60 | 116 | 40.800 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.1 | 223 | 9 | 199 | 12 | 31 | 223 | 1.4 | 54 | 128 | 45.333 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.1 | 227 | 8.9 | 202 | 12 | 31 | 227 | 2.7 | 53 | 130 | 45.963 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.7 | 257 | 7.9 | 228 | 11 | 27 | 257 | 1.2 | 47 | 147 | 52.067 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.7 | 260 | 7.7 | 232 | 11 | 27 | 260 | 2.5 | 46 | 150 | 52.800 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.7 | 257 | 7.9 | 228 | 11 | 27 | 257 | 2.9 | 47 | 147 | 52.067 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec

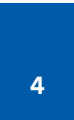


| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 2.4 | 289 | 7 | 257 | 9.6 | 24 | 289 | 1.1 | 42 | 166 | 58.667 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.4 | 293 | 6.9 | 261 | 9.5 | 24 | 293 | 2.1 | 41 | 168 | 59.481 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.4 | 289 | 7 | 257 | 9.6 | 24 | 289 | 2.9 | 42 | 166 | 58.667 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.2 | 311 | 6.5 | 277 | 8.9 | 22 | 311 | 0.9 | 39 | 179 | 63.190 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.2 | 316 | 6.4 | 281 | 8.8 | 22 | 316 | 1.8 | 38 | 181 | 64.080 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.2 | 311 | 6.5 | 277 | 8.9 | 22 | 311 | 2.5 | 39 | 179 | 63.190 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 351 | 5.7 | 312 | 7.9 | 20 | 351 | 0.9 | 34 | 202 | 71.200 | GFL05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 356 | 5.7 | 317 | 7.8 | 20 | 356 | 1.7 | 34 | 204 | 72.189 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 351 | 5.7 | 312 | 7.9 | 20 | 351 | 2.5 | 34 | 202 | 71.200 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |
| 1.7 | 399 | 5 | 355 | 7.0 | 17 | 399 | 1.1 | 30 | 229 | 81.000 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 1.8 | 394 | 5.1 | 350 | 7.1 | 18 | 394 | 2.0 | 31 | 226 | 79.875 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |
| 1.6 | 450 | 4.5 | 400 | 6.2 | 16 | 450 | 1.1 | 27 | 258 | 91.250 | GFL06 - 2E □□□ 080C32 | E82MV 751_4B |
| 1.6 | 444 | 4.5 | 395 | 6.3 | 16 | 444 | 2.0 | 27 | 255 | 90.000 | GFL07 - 2E □□□ 080C32 | E82MV 751_4B |
| 1.5 | 449 | 4.4 | 399 | 6.1 | 15 | 449 | 2.1 | 27 | 258 | 92.413 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.4 | 482 | 4.1 | 429 | 5.7 | 14 | 482 | 1.1 | 25 | 277 | 99.361 | GFL06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.4 | 506 | 3.9 | 450 | 5.4 | 14 | 506 | 2.1 | 24 | 290 | 104.127 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.2 | 566 | 3.5 | 504 | 4.8 | 12 | 566 | 0.9 | 21 | 325 | 116.571 | GFL06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.3 | 550 | 3.6 | 489 | 5.0 | 13 | 550 | 1.9 | 22 | 316 | 113.206 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 638 | 3.1 | 567 | 4.3 | 11 | 638 | 0.9 | 19 | 366 | 131.323 | GFL06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 619 | 3.2 | 551 | 4.4 | 11 | 619 | 1.9 | 19 | 356 | 127.556 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.0 | 715 | 2.8 | 637 | 3.8 | 9.6 | 715 | 1.6 | 17 | 411 | 147.347 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.9 | 722 | 2.7 | 643 | 3.8 | 9.5 | 722 | 2.8 | 16 | 415 | 148.815 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 806 | 2.5 | 717 | 3.4 | 8.5 | 806 | 1.5 | 15 | 463 | 166.025 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 814 | 2.4 | 725 | 3.4 | 8.4 | 814 | 2.8 | 15 | 468 | 167.712 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 890 | 2.2 | 792 | 3.1 | 7.7 | 890 | 1.4 | 13 | 511 | 183.285 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 899 | 2.2 | 800 | 3.0 | 7.6 | 899 | 2.5 | 13 | 516 | 185.111 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.7 | 1003 | 2 | 892 | 2.7 | 6.8 | 1003 | 1.2 | 12 | 576 | 206.519 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.7 | 1013 | 2 | 901 | 2.7 | 6.8 | 1013 | 2.5 | 12 | 582 | 208.617 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1090 | 1.8 | 970 | 2.5 | 6.3 | 1090 | 1.2 | 11 | 627 | 224.636 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1091 | 1.8 | 971 | 2.5 | 6.3 | 1091 | 2.2 | 11 | 627 | 224.778 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1229 | 1.6 | 1094 | 2.2 | 5.6 | 1229 | 1.0 | 10 | 706 | 253.111 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1230 | 1.6 | 1094 | 2.2 | 5.6 | 1230 | 2.2 | 10 | 707 | 253.321 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.5 | 1411 | 1.4 | 1256 | 1.9 | 4.9 | 1411 | 1.0 | 8 | 811 | 290.706 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.5 | 1412 | 1.4 | 1257 | 1.9 | 4.9 | 1412 | 1.9 | 8 | 812 | 290.889 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1591 | 1.2 | 1416 | 1.7 | 4.3 | 1591 | 1.9 | 7 | 915 | 327.827 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1713 | 1.2 | 1524 | 1.6 | 4.0 | 1713 | 0.8 | 7 | 984 | 352.811 | GFL07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1714 | 1.2 | 1525 | 1.6 | 4.0 | 1714 | 1.6 | 7 | 985 | 353.033 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1738 | 1.1 | 1547 | 1.6 | 3.9 | 1738 | 2.5 | 7 | 999 | 358.077 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1931 | 1 | 1719 | 1.4 | 3.5 | 1931 | 1.6 | 6 | 1110 | 397.863 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 1959 | 1 | 1743 | 1.4 | 3.5 | 1959 | 2.5 | 6 | 1126 | 403.467 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2059 | 1 | 1833 | 1.3 | 3.3 | 2059 | 1.3 | 6 | 1184 | 424.247 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2088 | 1 | 1859 | 1.3 | 3.3 | 2088 | 2.8 | 6 | 1200 | 430.222 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2499 | 0.8 | 2224 | 1.1 | 2.7 | 2499 | 1.1 | 5 | 1436 | 514.881 | GFL09 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2535 | 0.8 | 2256 | 1.1 | 2.7 | 2535 | 2.3 | 5 | 1457 | 522.133 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2730 | 0.7 | 2430 | 1.0 | 2.5 | 2730 | 1.9 | 4 | 1569 | 562.391 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 3076 | 0.6 | 2738 | 0.9 | 2.2 | 3076 | 1.9 | 4 | 1768 | 633.680 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 3451 | 0.6 | 3071 | 0.8 | 2.0 | 3451 | 1.5 | 3 | 1983 | 710.888 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 3888 | 0.5 | 3461 | 0.7 | 1.8 | 3888 | 1.5 | 3 | 2235 | 801.000 | GFL11 - 3E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)



Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 30 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 38 | 27 | 110 | 23 | 228 | 380 | 27 | 4.1 | 661 | 15 | 3.659 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 30 | 34 | 88 | 28 | 182 | 304 | 34 | 4.5 | 529 | 19 | 4.571 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 28 | 37 | 80 | 31 | 166 | 277 | 37 | 3.0 | 482 | 21 | 5.018 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 24 | 43 | 69 | 36 | 143 | 238 | 43 | 3.6 | 415 | 25 | 5.833 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 22 | 47 | 63 | 40 | 130 | 216 | 47 | 2.4 | 377 | 27 | 6.422 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 20 | 52 | 57 | 43 | 119 | 198 | 52 | 2.2 | 344 | 30 | 7.025 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 17 | 61 | 48 | 52 | 100 | 166 | 61 | 2.9 | 289 | 35 | 8.379 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 15 | 68 | 43 | 57 | 89 | 149 | 68 | 2.4 | 259 | 39 | 9.333 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 14 | 75 | 39 | 63 | 81 | 136 | 75 | 2.1 | 236 | 43 | 10.238 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 12 | 84 | 35 | 71 | 73 | 121 | 84 | 2.1 | 210 | 48 | 11.491 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 94 | 31 | 79 | 65 | 109 | 94 | 1.8 | 189 | 54 | 12.800 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 94 | 31 | 79 | 65 | 109 | 94 | 3.0 | 189 | 54 | 12.800 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.5 | 108 | 27 | 91 | 57 | 95 | 108 | 1.7 | 164 | 62 | 14.706 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.6 | 107 | 28 | 90 | 57 | 96 | 107 | 2.8 | 166 | 61 | 14.538 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 8.6 | 118 | 25 | 99 | 52 | 86 | 118 | 1.5 | 150 | 68 | 16.087 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 8.7 | 117 | 25 | 98 | 52 | 87 | 117 | 2.7 | 152 | 67 | 15.904 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 7.8 | 131 | 22 | 110 | 47 | 78 | 131 | 1.3 | 135 | 76 | 17.920 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 7.8 | 131 | 22 | 110 | 47 | 78 | 131 | 2.4 | 135 | 76 | 17.920 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.8 | 150 | 20 | 126 | 41 | 68 | 150 | 1.2 | 118 | 86 | 20.519 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.9 | 149 | 20 | 125 | 41 | 69 | 149 | 2.2 | 119 | 85 | 20.286 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.1 | 168 | 18 | 141 | 36 | 61 | 168 | 1.0 | 106 | 96 | 22.857 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.1 | 168 | 18 | 141 | 36 | 61 | 168 | 1.9 | 106 | 96 | 22.857 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.5 | 184 | 16 | 155 | 33 | 55 | 184 | 1.0 | 96 | 106 | 25.136 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.6 | 182 | 16 | 153 | 34 | 56 | 182 | 1.9 | 97 | 105 | 24.850 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.0 | 205 | 14 | 172 | 30 | 50 | 205 | 0.8 | 86 | 118 | 28.000 | GFL04 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.0 | 205 | 14 | 172 | 30 | 50 | 205 | 1.5 | 86 | 118 | 28.000 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.9 | 208 | 14 | 175 | 29 | 49 | 208 | 2.9 | 85 | 120 | 28.389 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.3 | 237 | 12 | 199 | 26 | 43 | 237 | 1.5 | 75 | 136 | 32.344 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.2 | 241 | 12 | 202 | 25 | 42 | 241 | 2.7 | 74 | 138 | 32.800 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 267 | 11 | 224 | 23 | 38 | 267 | 1.2 | 66 | 154 | 36.444 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 271 | 11 | 228 | 23 | 38 | 271 | 2.3 | 65 | 156 | 36.951 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.5 | 295 | 10 | 248 | 21 | 35 | 295 | 1.2 | 60 | 170 | 40.233 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.4 | 299 | 9.9 | 251 | 20 | 34 | 299 | 2.2 | 59 | 172 | 40.800 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.5 | 291 | 10 | 244 | 21 | 35 | 291 | 3.1 | 61 | 167 | 39.642 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 332 | 8.9 | 279 | 18 | 31 | 332 | 1.0 | 53 | 191 | 45.333 | GFL05 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.0 | 337 | 8.8 | 283 | 18 | 30 | 337 | 1.8 | 53 | 194 | 45.963 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 328 | 9 | 275 | 19 | 31 | 328 | 3.1 | 54 | 188 | 44.667 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.6 | 387 | 7.6 | 325 | 16 | 26 | 387 | 1.7 | 46 | 222 | 52.800 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.7 | 382 | 7.7 | 321 | 16 | 27 | 382 | 2.9 | 46 | 219 | 52.067 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.3 | 436 | 6.8 | 366 | 14 | 23 | 436 | 1.4 | 41 | 251 | 59.481 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.4 | 430 | 6.9 | 361 | 14 | 24 | 430 | 2.9 | 41 | 247 | 58.667 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.2 | 470 | 6.3 | 395 | 13 | 22 | 470 | 1.2 | 38 | 270 | 64.080 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.2 | 463 | 6.4 | 389 | 13 | 22 | 463 | 2.3 | 38 | 266 | 63.190 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 1.9 | 529 | 5.6 | 445 | 12 | 19 | 529 | 1.2 | 34 | 304 | 72.189 | GFL06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.0 | 522 | 5.7 | 439 | 12 | 20 | 522 | 2.3 | 34 | 300 | 71.200 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 1.7 | 586 | 5 | 492 | 10 | 17 | 586 | 1.4 | 30 | 337 | 79.875 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |
| 1.5 | 660 | 4.5 | 554 | 9.2 | 15 | 660 | 1.4 | 27 | 379 | 90.000 | GFL07 - 2E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 30 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 1.5 | 667 | 4.4 | 561 | 9.0 | 15 | 667 | 1.4 | 26 | 384 | 92.413 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.5 | 674 | 4.3 | 566 | 8.9 | 15 | 674 | 2.5 | 26 | 387 | 93.333 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.3 | 752 | 3.9 | 632 | 8.0 | 13 | 752 | 1.4 | 23 | 432 | 104.127 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.3 | 760 | 3.8 | 638 | 7.9 | 13 | 760 | 2.5 | 23 | 437 | 105.185 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.2 | 818 | 3.6 | 687 | 7.4 | 12 | 818 | 1.3 | 21 | 470 | 113.206 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.2 | 826 | 3.5 | 694 | 7.3 | 12 | 826 | 2.2 | 21 | 475 | 114.333 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.1 | 921 | 3.2 | 774 | 6.5 | 11 | 921 | 1.3 | 19 | 529 | 127.556 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.1 | 931 | 3.1 | 782 | 6.5 | 11 | 931 | 2.2 | 19 | 535 | 128.852 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1064 | 2.7 | 894 | 5.7 | 9.4 | 1064 | 1.1 | 16 | 612 | 147.347 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1075 | 2.7 | 903 | 5.6 | 9.3 | 1075 | 1.9 | 16 | 618 | 148.815 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1199 | 2.4 | 1007 | 5.0 | 8.4 | 1199 | 1.0 | 15 | 689 | 166.025 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1211 | 2.4 | 1017 | 5.0 | 8.3 | 1211 | 1.9 | 14 | 696 | 167.712 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1324 | 2.2 | 1112 | 4.5 | 7.6 | 1324 | 0.9 | 13 | 761 | 183.285 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1337 | 2.2 | 1123 | 4.5 | 7.5 | 1337 | 1.7 | 13 | 768 | 185.111 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1320 | 2.2 | 1109 | 4.6 | 7.6 | 1320 | 3.1 | 13 | 759 | 182.792 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1492 | 2 | 1253 | 4.0 | 6.7 | 1492 | 0.8 | 12 | 857 | 206.519 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1507 | 1.9 | 1266 | 4.0 | 6.7 | 1507 | 1.7 | 12 | 866 | 208.617 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1488 | 2 | 1249 | 4.1 | 6.8 | 1488 | 3.1 | 12 | 855 | 205.963 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1622 | 1.8 | 1363 | 3.7 | 6.2 | 1622 | 0.8 | 11 | 932 | 224.636 | GFL07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1623 | 1.8 | 1364 | 3.7 | 6.2 | 1623 | 1.5 | 11 | 933 | 224.778 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1622 | 1.8 | 1363 | 3.7 | 6.2 | 1622 | 2.8 | 11 | 932 | 224.636 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 1830 | 1.6 | 1537 | 3.3 | 5.5 | 1830 | 1.5 | 10 | 1051 | 253.321 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 1828 | 1.6 | 1535 | 3.3 | 5.5 | 1828 | 2.8 | 10 | 1051 | 253.111 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 2101 | 1.4 | 1765 | 2.9 | 4.8 | 2101 | 1.3 | 8 | 1207 | 290.889 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 1930 | 1.5 | 1621 | 3.1 | 5.2 | 1930 | 2.6 | 9 | 1109 | 267.259 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2368 | 1.2 | 1989 | 2.5 | 4.2 | 2368 | 1.3 | 7 | 1361 | 327.827 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2366 | 1.2 | 1987 | 2.5 | 4.2 | 2366 | 2.3 | 7 | 1360 | 327.556 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2550 | 1.1 | 2142 | 2.4 | 3.9 | 2550 | 1.1 | 7 | 1465 | 353.033 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2586 | 1.1 | 2172 | 2.3 | 3.9 | 2586 | 2.0 | 7 | 1486 | 358.077 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 2873 | 1 | 2414 | 2.1 | 3.5 | 2873 | 1.1 | 6 | 1651 | 397.863 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 2914 | 1 | 2448 | 2.1 | 3.5 | 2914 | 2.0 | 6 | 1675 | 403.467 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3064 | 1 | 2574 | 2.0 | 3.3 | 3064 | 0.9 | 6 | 1761 | 424.247 | GFL09 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3107 | 0.9 | 2610 | 1.9 | 3.2 | 3107 | 1.9 | 6 | 1786 | 430.222 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3771 | 0.8 | 3168 | 1.6 | 2.7 | 3771 | 1.6 | 5 | 2167 | 522.133 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 4062 | 0.7 | 3412 | 1.5 | 2.5 | 4062 | 1.3 | 4 | 2334 | 562.391 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 4576 | 0.6 | 3844 | 1.3 | 2.2 | 4576 | 1.3 | 4 | 2630 | 633.680 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 5134 | 0.6 | 4313 | 1.2 | 2.0 | 5134 | 1.0 | 3 | 2951 | 710.888 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 5785 | 0.5 | 4859 | 1.0 | 1.7 | 5785 | 1.0 | 3 | 3325 | 801.000 | GFL11 - 3E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | | |
| | | | | [rpm] | [rpm] | | | | | | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-------------------------|--------------|
| 38 | 37 | 110 | 33 | 152 | 380 | 37 | 3.0 | 661 | 21 | 3.659 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 30 | 46 | 88 | 41 | 122 | 304 | 46 | 3.7 | 529 | 26 | 4.571 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 28 | 50 | 80 | 45 | 111 | 277 | 50 | 2.2 | 482 | 29 | 5.018 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 24 | 58 | 69 | 52 | 95 | 238 | 58 | 2.6 | 415 | 34 | 5.833 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 22 | 64 | 63 | 57 | 87 | 216 | 64 | 1.8 | 377 | 37 | 6.422 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 22 | 64 | 63 | 57 | 87 | 217 | 64 | 2.7 | 378 | 37 | 6.400 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 20 | 70 | 57 | 63 | 79 | 198 | 70 | 1.6 | 344 | 40 | 7.025 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 17 | 84 | 48 | 75 | 66 | 166 | 84 | 2.1 | 289 | 48 | 8.379 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 93 | 43 | 83 | 60 | 149 | 93 | 1.8 | 259 | 54 | 9.333 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 90 | 45 | 80 | 62 | 154 | 90 | 2.9 | 268 | 52 | 9.010 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 14 | 102 | 39 | 91 | 54 | 136 | 102 | 1.6 | 236 | 59 | 10.238 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 14 | 99 | 41 | 88 | 56 | 140 | 99 | 2.8 | 243 | 57 | 9.946 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 115 | 35 | 102 | 48 | 121 | 115 | 1.6 | 210 | 66 | 11.491 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 114 | 35 | 101 | 49 | 122 | 114 | 2.5 | 213 | 65 | 11.360 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 11 | 128 | 31 | 114 | 43 | 109 | 128 | 1.3 | 189 | 74 | 12.800 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 11 | 128 | 31 | 114 | 43 | 109 | 128 | 2.2 | 189 | 74 | 12.800 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.5 | 147 | 27 | 131 | 38 | 95 | 147 | 1.2 | 164 | 84 | 14.706 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.6 | 145 | 28 | 129 | 38 | 96 | 145 | 2.1 | 166 | 84 | 14.538 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 8.6 | 161 | 25 | 143 | 35 | 86 | 161 | 1.1 | 150 | 92 | 16.087 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 8.7 | 159 | 25 | 142 | 35 | 87 | 159 | 1.9 | 152 | 91 | 15.904 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.8 | 179 | 22 | 159 | 31 | 78 | 179 | 0.9 | 135 | 103 | 17.920 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.8 | 179 | 22 | 159 | 31 | 78 | 179 | 1.7 | 135 | 103 | 17.920 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.8 | 205 | 20 | 183 | 27 | 68 | 205 | 0.9 | 118 | 118 | 20.519 | * GFL04 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.9 | 203 | 20 | 181 | 27 | 69 | 203 | 1.6 | 119 | 117 | 20.286 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.8 | 206 | 20 | 183 | 27 | 68 | 206 | 3.1 | 118 | 118 | 20.571 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.1 | 229 | 18 | 203 | 24 | 61 | 229 | 1.4 | 106 | 131 | 22.857 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.0 | 232 | 17 | 206 | 24 | 60 | 232 | 2.6 | 104 | 133 | 23.175 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.6 | 249 | 16 | 221 | 22 | 56 | 249 | 1.4 | 97 | 143 | 24.850 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.5 | 252 | 16 | 224 | 22 | 55 | 252 | 2.6 | 96 | 145 | 25.200 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.0 | 280 | 14 | 249 | 20 | 50 | 280 | 1.1 | 86 | 161 | 28.000 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.9 | 284 | 14 | 253 | 20 | 49 | 284 | 2.1 | 85 | 163 | 28.389 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 323 | 12 | 288 | 17 | 43 | 323 | 1.1 | 75 | 186 | 32.344 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.2 | 328 | 12 | 292 | 17 | 42 | 328 | 2.0 | 74 | 188 | 32.800 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 364 | 11 | 324 | 15 | 38 | 364 | 0.9 | 66 | 209 | 36.444 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 369 | 11 | 329 | 15 | 38 | 369 | 1.7 | 65 | 212 | 36.951 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.5 | 402 | 10 | 358 | 14 | 35 | 402 | 0.9 | 60 | 231 | 40.233 | GFL05 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.4 | 408 | 9.9 | 363 | 14 | 34 | 408 | 1.6 | 59 | 234 | 40.800 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.5 | 396 | 10 | 353 | 14 | 35 | 396 | 2.8 | 61 | 228 | 39.642 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.0 | 460 | 8.8 | 409 | 12 | 30 | 460 | 1.3 | 53 | 264 | 45.963 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.1 | 447 | 9 | 397 | 12 | 31 | 447 | 2.8 | 54 | 257 | 44.667 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.6 | 528 | 7.6 | 470 | 11 | 26 | 528 | 1.2 | 46 | 303 | 52.800 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.7 | 521 | 7.7 | 463 | 11 | 27 | 521 | 2.4 | 46 | 299 | 52.067 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.7 | 513 | 7.9 | 457 | 11 | 27 | 513 | 2.8 | 47 | 295 | 51.333 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.3 | 595 | 6.8 | 529 | 9.4 | 23 | 595 | 1.0 | 41 | 342 | 59.481 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.4 | 587 | 6.9 | 522 | 9.5 | 24 | 587 | 2.2 | 41 | 337 | 58.667 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.4 | 578 | 7 | 515 | 9.6 | 24 | 578 | 2.8 | 42 | 332 | 57.852 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.2 | 641 | 6.3 | 570 | 8.7 | 22 | 641 | 0.9 | 38 | 368 | 64.080 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.2 | 632 | 6.4 | 562 | 8.8 | 22 | 632 | 2.0 | 38 | 363 | 63.190 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.2 | 623 | 6.5 | 554 | 8.9 | 22 | 623 | 2.5 | 39 | 358 | 62.300 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

* Not possible with hollow shaft (H□□)!

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|-------|------------------------------------|----------------------------------|
| Motor cooling with integral fan | | | | | | | | 87 Hz | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | n ₂ | M ₂ | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | [rpm] | [Nm] | Dimensions see page 4-32 onwards |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | 50 Hz | | [rpm] | [Nm] | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 1.9 | 722 | 5.6 | 642 | 7.7 | 19 | 722 | 0.9 | 34 | 415 | 72.189 | GFL06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.0 | 712 | 5.7 | 634 | 7.8 | 20 | 712 | 1.8 | 34 | 409 | 71.200 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.0 | 702 | 5.7 | 625 | 7.9 | 20 | 702 | 2.5 | 34 | 403 | 70.211 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.7 | 799 | 5 | 711 | 7.0 | 17 | 799 | 1.1 | 30 | 459 | 79.875 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.8 | 787 | 5.1 | 701 | 7.1 | 18 | 787 | 1.9 | 31 | 453 | 78.750 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 900 | 4.5 | 801 | 6.2 | 15 | 900 | 1.0 | 27 | 517 | 90.000 | GFL07 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.6 | 887 | 4.5 | 790 | 6.3 | 16 | 887 | 1.9 | 27 | 510 | 88.750 | GFL09 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 910 | 4.4 | 810 | 6.0 | 15 | 910 | 1.1 | 26 | 523 | 92.413 | GFL07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 919 | 4.3 | 818 | 6.0 | 15 | 919 | 1.8 | 26 | 528 | 93.333 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.3 | 1026 | 3.9 | 913 | 5.3 | 13 | 1026 | 1.1 | 23 | 589 | 104.127 | GFL07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.3 | 1036 | 3.8 | 922 | 5.3 | 13 | 1036 | 1.8 | 23 | 595 | 105.185 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.2 | 1115 | 3.6 | 992 | 4.9 | 12 | 1115 | 0.9 | 21 | 641 | 113.206 | GFL07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.2 | 1126 | 3.5 | 1002 | 4.9 | 12 | 1126 | 1.6 | 21 | 647 | 114.333 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.1 | 1256 | 3.2 | 1118 | 4.4 | 11 | 1256 | 0.9 | 19 | 722 | 127.556 | GFL07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.1 | 1269 | 3.1 | 1129 | 4.3 | 11 | 1269 | 1.6 | 19 | 729 | 128.852 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1466 | 2.7 | 1304 | 3.7 | 9.3 | 1466 | 1.4 | 16 | 842 | 148.815 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1469 | 2.7 | 1307 | 3.7 | 9.3 | 1469 | 2.7 | 16 | 844 | 149.144 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1652 | 2.4 | 1470 | 3.3 | 8.3 | 1652 | 1.4 | 14 | 949 | 167.712 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1655 | 2.4 | 1473 | 3.3 | 8.3 | 1655 | 2.7 | 14 | 951 | 168.049 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1823 | 2.2 | 1622 | 3.0 | 7.5 | 1823 | 1.2 | 13 | 1048 | 185.111 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1800 | 2.2 | 1602 | 3.0 | 7.6 | 1800 | 2.4 | 13 | 1035 | 182.792 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 2055 | 1.9 | 1829 | 2.7 | 6.7 | 2055 | 1.2 | 12 | 1181 | 208.617 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 2028 | 2 | 1805 | 2.7 | 6.8 | 2028 | 2.4 | 12 | 1166 | 205.963 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 1990 | 2 | 1771 | 2.8 | 6.9 | 1990 | 2.8 | 12 | 1144 | 202.074 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2214 | 1.8 | 1970 | 2.5 | 6.2 | 2214 | 1.1 | 11 | 1272 | 224.778 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2212 | 1.8 | 1969 | 2.5 | 6.2 | 2212 | 2.0 | 11 | 1271 | 224.636 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2495 | 1.6 | 2220 | 2.2 | 5.5 | 2495 | 1.1 | 10 | 1434 | 253.321 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2493 | 1.6 | 2218 | 2.2 | 5.5 | 2493 | 2.0 | 10 | 1433 | 253.111 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2865 | 1.4 | 2550 | 1.9 | 4.8 | 2865 | 0.9 | 8 | 1646 | 290.889 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2632 | 1.5 | 2342 | 2.1 | 5.2 | 2632 | 1.9 | 9 | 1513 | 267.259 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3229 | 1.2 | 2873 | 1.7 | 4.2 | 3229 | 0.9 | 7 | 1855 | 327.827 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3226 | 1.2 | 2871 | 1.7 | 4.2 | 3226 | 1.7 | 7 | 1854 | 327.556 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3477 | 1.1 | 3094 | 1.6 | 3.9 | 3477 | 0.8 | 7 | 1998 | 353.033 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3526 | 1.1 | 3139 | 1.6 | 3.9 | 3526 | 1.5 | 7 | 2027 | 358.077 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3475 | 1.1 | 3092 | 1.6 | 3.9 | 3475 | 2.5 | 7 | 1997 | 352.811 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 3918 | 1 | 3487 | 1.4 | 3.5 | 3918 | 0.8 | 6 | 2252 | 397.863 | GFL09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 3973 | 1 | 3536 | 1.4 | 3.5 | 3973 | 1.5 | 6 | 2284 | 403.467 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3915 | 1 | 3484 | 1.4 | 3.5 | 3915 | 2.5 | 6 | 2250 | 397.533 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 4237 | 0.9 | 3771 | 1.3 | 3.2 | 4237 | 1.4 | 6 | 2435 | 430.222 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 4237 | 0.9 | 3771 | 1.3 | 3.2 | 4237 | 2.5 | 6 | 2435 | 430.222 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 5142 | 0.8 | 4576 | 1.1 | 2.7 | 5142 | 1.2 | 5 | 2955 | 522.133 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 5142 | 0.8 | 4576 | 1.1 | 2.7 | 5142 | 2.1 | 5 | 2955 | 522.133 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 5539 | 0.7 | 4929 | 1.0 | 2.5 | 5539 | 1.0 | 4 | 3183 | 562.391 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 5539 | 0.7 | 4929 | 1.0 | 2.5 | 5539 | 1.6 | 4 | 3183 | 562.391 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 6241 | 0.6 | 5554 | 0.9 | 2.2 | 6241 | 0.9 | 4 | 3587 | 633.680 | GFL11 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 6241 | 0.6 | 5554 | 0.9 | 2.2 | 6241 | 1.6 | 4 | 3587 | 633.680 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 7001 | 0.6 | 6231 | 0.8 | 2.0 | 7001 | 1.3 | 3 | 4024 | 710.888 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 7888 | 0.5 | 7021 | 0.7 | 1.7 | 7888 | 1.2 | 3 | 4534 | 801.000 | GFL14 - 3E □□□ 090C32 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|------|-----|-----|------|-----|------|-----|-----|-----|--------|-----------------------|--------------|
| 43 | 47 | 125 | 42 | 173 | 432 | 47 | 3.5 | 752 | 27 | 3.333 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 32 | 65 | 91 | 58 | 126 | 315 | 65 | 2.6 | 548 | 37 | 4.571 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 28 | 73 | 81 | 65 | 112 | 281 | 73 | 3.1 | 488 | 42 | 5.133 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 25 | 80 | 74 | 71 | 102 | 254 | 80 | 2.9 | 442 | 46 | 5.667 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 23 | 91 | 65 | 81 | 90 | 225 | 91 | 1.9 | 392 | 52 | 6.400 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 20 | 100 | 59 | 89 | 82 | 205 | 100 | 2.5 | 356 | 57 | 7.040 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 19 | 110 | 54 | 98 | 74 | 185 | 110 | 2.3 | 322 | 63 | 7.771 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 16 | 128 | 46 | 114 | 64 | 160 | 128 | 2.1 | 278 | 73 | 9.010 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 14 | 141 | 42 | 125 | 58 | 145 | 141 | 2.0 | 252 | 81 | 9.946 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 14 | 143 | 41 | 127 | 57 | 143 | 143 | 3.2 | 248 | 82 | 10.092 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 161 | 37 | 143 | 51 | 127 | 161 | 1.7 | 221 | 92 | 11.360 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 181 | 33 | 161 | 45 | 113 | 181 | 1.6 | 196 | 104 | 12.800 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 184 | 32 | 163 | 44 | 111 | 184 | 3.2 | 193 | 106 | 12.978 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.9 | 206 | 29 | 183 | 40 | 99 | 206 | 1.5 | 172 | 118 | 14.538 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.8 | 209 | 28 | 186 | 39 | 98 | 209 | 3.1 | 170 | 120 | 14.743 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.1 | 225 | 26 | 200 | 36 | 91 | 225 | 1.4 | 158 | 129 | 15.904 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.9 | 228 | 26 | 203 | 36 | 89 | 228 | 2.8 | 155 | 131 | 16.128 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.0 | 254 | 23 | 226 | 32 | 80 | 254 | 1.2 | 140 | 146 | 17.920 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.9 | 257 | 23 | 229 | 32 | 79 | 257 | 2.3 | 138 | 148 | 18.169 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.1 | 287 | 21 | 256 | 28 | 71 | 287 | 1.2 | 124 | 165 | 20.286 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.0 | 291 | 20 | 259 | 28 | 70 | 291 | 2.2 | 122 | 167 | 20.571 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.3 | 324 | 18 | 288 | 25 | 63 | 324 | 1.0 | 110 | 186 | 22.857 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.2 | 328 | 18 | 292 | 25 | 62 | 328 | 1.8 | 108 | 189 | 23.175 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.8 | 352 | 17 | 313 | 23 | 58 | 352 | 1.0 | 101 | 202 | 24.850 | GFL05 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.7 | 357 | 17 | 317 | 23 | 57 | 357 | 1.8 | 99 | 205 | 25.200 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.1 | 402 | 15 | 358 | 20 | 51 | 402 | 1.5 | 88 | 231 | 28.389 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.1 | 396 | 15 | 353 | 21 | 51 | 396 | 3.1 | 89 | 228 | 28.000 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.4 | 464 | 13 | 413 | 18 | 44 | 464 | 1.4 | 76 | 267 | 32.800 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 458 | 13 | 407 | 18 | 45 | 458 | 3.0 | 77 | 263 | 32.344 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.9 | 523 | 11 | 465 | 16 | 39 | 523 | 1.2 | 68 | 301 | 36.951 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.0 | 516 | 11 | 459 | 16 | 40 | 516 | 2.4 | 69 | 296 | 36.444 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.5 | 578 | 10 | 514 | 14 | 35 | 578 | 1.1 | 61 | 332 | 40.800 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.6 | 561 | 11 | 499 | 15 | 36 | 561 | 2.5 | 63 | 322 | 39.642 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.1 | 651 | 9.1 | 579 | 13 | 31 | 651 | 0.9 | 55 | 374 | 45.963 | GFL06 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.2 | 632 | 9.3 | 563 | 13 | 32 | 632 | 2.0 | 56 | 363 | 44.667 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.8 | 737 | 8 | 656 | 11 | 28 | 737 | 1.8 | 48 | 424 | 52.067 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.8 | 727 | 8.1 | 647 | 11 | 28 | 727 | 2.8 | 49 | 418 | 51.333 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.5 | 830 | 7.1 | 739 | 9.8 | 25 | 830 | 1.5 | 43 | 477 | 58.667 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.5 | 819 | 7.2 | 729 | 10.0 | 25 | 819 | 2.8 | 43 | 471 | 57.852 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.3 | 894 | 6.6 | 796 | 9.1 | 23 | 894 | 1.4 | 40 | 514 | 63.190 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.3 | 882 | 6.7 | 785 | 9.2 | 23 | 882 | 2.3 | 40 | 507 | 62.300 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.3 | 894 | 6.6 | 796 | 9.1 | 23 | 894 | 2.9 | 40 | 514 | 63.190 | GFL11 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 1008 | 5.9 | 897 | 8.1 | 20 | 1008 | 1.3 | 35 | 579 | 71.200 | GFL07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.1 | 994 | 5.9 | 885 | 8.2 | 21 | 994 | 2.3 | 36 | 571 | 70.211 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 1008 | 5.9 | 897 | 8.1 | 20 | 1008 | 2.9 | 35 | 579 | 71.200 | GFL11 - 2E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|-------|-----|------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 1.8 | 1115 | 5.3 | 992 | 7.3 | 18 | 1115 | 1.5 | 32 | 641 | 78.750 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 1.8 | 1131 | 5.2 | 1006 | 7.2 | 18 | 1131 | 2.3 | 31 | 650 | 79.875 | GFL11 - 2E □□□ 100C12 | E82MV 222_4B |
| 1.6 | 1256 | 4.7 | 1118 | 6.5 | 16 | 1256 | 1.4 | 28 | 722 | 88.750 | GFL09 - 2E □□□ 100C12 | E82MV 222_4B |
| 1.6 | 1274 | 4.6 | 1134 | 6.4 | 16 | 1274 | 2.3 | 28 | 732 | 90.000 | GFL11 - 2E □□□ 100C12 | E82MV 222_4B |
| 1.5 | 1301 | 4.5 | 1158 | 6.2 | 15 | 1301 | 1.3 | 27 | 748 | 93.333 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.5 | 1304 | 4.5 | 1161 | 6.2 | 15 | 1304 | 2.5 | 27 | 750 | 93.540 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.4 | 1467 | 4 | 1305 | 5.5 | 14 | 1467 | 1.3 | 24 | 843 | 105.185 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.4 | 1470 | 4 | 1308 | 5.5 | 14 | 1470 | 2.5 | 24 | 845 | 105.397 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1594 | 3.7 | 1419 | 5.0 | 13 | 1594 | 1.2 | 22 | 916 | 114.333 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1598 | 3.6 | 1422 | 5.0 | 13 | 1598 | 2.2 | 22 | 918 | 114.586 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.1 | 1797 | 3.2 | 1599 | 4.5 | 11 | 1797 | 1.2 | 19 | 1032 | 128.852 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.1 | 1800 | 3.2 | 1602 | 4.5 | 11 | 1800 | 2.2 | 19 | 1035 | 129.111 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 2075 | 2.8 | 1847 | 3.9 | 9.7 | 2075 | 1.0 | 17 | 1192 | 148.815 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 2079 | 2.8 | 1851 | 3.9 | 9.7 | 2079 | 1.9 | 17 | 1195 | 149.144 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2338 | 2.5 | 2081 | 3.4 | 8.6 | 2338 | 1.0 | 15 | 1344 | 167.712 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2343 | 2.5 | 2085 | 3.4 | 8.6 | 2343 | 1.9 | 15 | 1347 | 168.049 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2581 | 2.3 | 2297 | 3.1 | 7.8 | 2581 | 0.9 | 14 | 1483 | 185.111 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2549 | 2.3 | 2268 | 3.2 | 7.9 | 2549 | 1.7 | 14 | 1465 | 182.792 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2909 | 2 | 2589 | 2.8 | 6.9 | 2909 | 0.9 | 12 | 1672 | 208.617 | GFL09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2872 | 2 | 2556 | 2.8 | 7.0 | 2872 | 1.7 | 12 | 1650 | 205.963 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2817 | 2.1 | 2508 | 2.9 | 7.1 | 2817 | 2.8 | 12 | 1619 | 202.074 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3132 | 1.9 | 2787 | 2.6 | 6.4 | 3132 | 1.4 | 11 | 1800 | 224.636 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3132 | 1.9 | 2787 | 2.6 | 6.4 | 3132 | 2.8 | 11 | 1800 | 224.636 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3529 | 1.6 | 3141 | 2.3 | 5.7 | 3529 | 1.4 | 10 | 2028 | 253.111 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3529 | 1.6 | 3141 | 2.3 | 5.7 | 3529 | 2.8 | 10 | 2028 | 253.111 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.5 | 3726 | 1.6 | 3316 | 2.2 | 5.4 | 3726 | 1.4 | 9 | 2142 | 267.259 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.5 | 3817 | 1.5 | 3397 | 2.1 | 5.3 | 3817 | 2.6 | 9 | 2194 | 273.778 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4567 | 1.3 | 4065 | 1.8 | 4.4 | 4567 | 1.2 | 8 | 2625 | 327.556 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4635 | 1.3 | 4125 | 1.7 | 4.3 | 4635 | 2.3 | 8 | 2664 | 332.444 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4993 | 1.2 | 4443 | 1.6 | 4.0 | 4993 | 1.1 | 7 | 2869 | 358.077 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4919 | 1.2 | 4378 | 1.6 | 4.1 | 4919 | 2.1 | 7 | 2827 | 352.811 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 5625 | 1 | 5007 | 1.4 | 3.6 | 5625 | 1.1 | 6 | 3233 | 403.467 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 5543 | 1.1 | 4933 | 1.4 | 3.6 | 5543 | 2.1 | 6 | 3185 | 397.533 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 5998 | 1 | 5339 | 1.3 | 3.4 | 5998 | 1.0 | 6 | 3447 | 430.222 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 5998 | 1 | 5339 | 1.3 | 3.4 | 5998 | 1.8 | 6 | 3447 | 430.222 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 7280 | 0.8 | 6479 | 1.1 | 2.8 | 7280 | 0.8 | 5 | 4184 | 522.133 | GFL11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 7280 | 0.8 | 6479 | 1.1 | 2.8 | 7280 | 1.5 | 5 | 4184 | 522.133 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 7841 | 0.7 | 6979 | 1.0 | 2.6 | 7841 | 1.2 | 4 | 4506 | 562.391 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 8835 | 0.7 | 7863 | 0.9 | 2.3 | 8835 | 1.1 | 4 | 5078 | 633.680 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 9912 | 0.6 | 8821 | 0.8 | 2.0 | 9912 | 0.9 | 4 | 5696 | 710.888 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 11168 | 0.5 | 9939 | 0.7 | 1.8 | 11168 | 0.9 | 3 | 6418 | 801.000 | GFL14 - 3E □□□ 100C12 | E82MV 222_4B |

P₁ = 3 kW

| | | | | | | | | | | | | |
|----|-----|-----|----|-----|-----|-----|-----|-----|----|-------|-----------------------|--------------|
| 43 | 65 | 124 | 58 | 172 | 429 | 65 | 2.6 | 746 | 37 | 3.333 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 31 | 89 | 91 | 79 | 125 | 313 | 89 | 1.9 | 544 | 51 | 4.571 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 28 | 100 | 81 | 89 | 111 | 279 | 100 | 2.2 | 485 | 57 | 5.133 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 4-32 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|-----|--------|-----------------------|--------------|
| 25 | 110 | 73 | 98 | 101 | 252 | 110 | 2.1 | 439 | 63 | 5.667 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 22 | 124 | 65 | 111 | 89 | 223 | 124 | 1.4 | 389 | 71 | 6.400 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 22 | 125 | 64 | 112 | 89 | 222 | 125 | 2.8 | 386 | 72 | 6.450 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 20 | 137 | 59 | 122 | 81 | 203 | 137 | 1.8 | 353 | 79 | 7.040 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 20 | 139 | 58 | 124 | 80 | 200 | 139 | 3.1 | 348 | 80 | 7.147 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 18 | 151 | 53 | 134 | 74 | 184 | 151 | 1.7 | 320 | 87 | 7.771 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 16 | 175 | 46 | 156 | 63 | 159 | 175 | 1.5 | 276 | 101 | 9.010 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 15 | 184 | 44 | 164 | 60 | 151 | 184 | 3.2 | 263 | 106 | 9.463 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 14 | 193 | 42 | 172 | 58 | 144 | 193 | 1.4 | 250 | 111 | 9.946 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 14 | 196 | 41 | 175 | 57 | 142 | 196 | 2.3 | 247 | 113 | 10.092 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 13 | 221 | 37 | 197 | 50 | 126 | 221 | 1.3 | 219 | 127 | 11.360 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 12 | 224 | 36 | 199 | 50 | 124 | 224 | 2.8 | 216 | 129 | 11.520 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 249 | 32 | 221 | 45 | 112 | 249 | 1.1 | 194 | 143 | 12.800 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 252 | 32 | 225 | 44 | 110 | 252 | 2.3 | 192 | 145 | 12.978 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.8 | 283 | 29 | 251 | 39 | 98 | 283 | 1.1 | 171 | 162 | 14.538 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.7 | 287 | 28 | 255 | 39 | 97 | 287 | 2.2 | 169 | 165 | 14.743 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.0 | 309 | 26 | 275 | 36 | 90 | 309 | 1.0 | 156 | 178 | 15.904 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 8.9 | 314 | 26 | 279 | 35 | 89 | 314 | 2.1 | 154 | 180 | 16.128 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 8.0 | 348 | 23 | 310 | 32 | 80 | 348 | 0.9 | 139 | 200 | 17.920 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.9 | 353 | 23 | 314 | 31 | 79 | 353 | 1.7 | 137 | 203 | 18.169 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.1 | 394 | 20 | 351 | 28 | 71 | 394 | 0.8 | 123 | 227 | 20.286 | GFL05 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.0 | 400 | 20 | 356 | 28 | 70 | 400 | 1.6 | 121 | 230 | 20.571 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 7.1 | 394 | 20 | 351 | 28 | 71 | 394 | 3.2 | 123 | 227 | 20.286 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 6.2 | 450 | 18 | 401 | 25 | 62 | 450 | 1.3 | 107 | 259 | 23.175 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 6.3 | 444 | 18 | 395 | 25 | 63 | 444 | 2.8 | 109 | 255 | 22.857 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.7 | 490 | 16 | 436 | 23 | 57 | 490 | 1.3 | 99 | 282 | 25.200 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.8 | 483 | 17 | 430 | 23 | 58 | 483 | 2.8 | 100 | 278 | 24.850 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.0 | 552 | 15 | 491 | 20 | 50 | 552 | 1.1 | 88 | 317 | 28.389 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.1 | 544 | 15 | 484 | 20 | 51 | 544 | 2.3 | 89 | 313 | 28.000 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 638 | 13 | 567 | 17 | 44 | 638 | 1.0 | 76 | 366 | 32.800 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 629 | 13 | 560 | 18 | 44 | 629 | 2.2 | 77 | 361 | 32.344 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 4.4 | 635 | 13 | 565 | 18 | 44 | 635 | 2.9 | 76 | 365 | 32.667 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 718 | 11 | 639 | 15 | 39 | 718 | 0.9 | 67 | 413 | 36.951 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 708 | 11 | 630 | 16 | 39 | 708 | 1.8 | 68 | 407 | 36.444 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 716 | 11 | 637 | 16 | 39 | 716 | 2.9 | 68 | 411 | 36.815 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.5 | 793 | 10 | 706 | 14 | 35 | 793 | 0.8 | 61 | 456 | 40.800 | GFL06 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.6 | 771 | 10 | 686 | 14 | 36 | 771 | 1.8 | 63 | 443 | 39.642 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.6 | 771 | 10 | 686 | 14 | 36 | 771 | 2.5 | 63 | 443 | 39.667 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 868 | 9.3 | 773 | 13 | 32 | 868 | 1.4 | 56 | 499 | 44.667 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 869 | 9.3 | 773 | 13 | 32 | 869 | 2.5 | 56 | 499 | 44.704 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.8 | 1012 | 8 | 901 | 11 | 28 | 1012 | 1.3 | 48 | 582 | 52.067 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.8 | 998 | 8.1 | 888 | 11 | 28 | 998 | 2.0 | 48 | 573 | 51.333 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.8 | 1012 | 8 | 901 | 11 | 28 | 1012 | 2.5 | 48 | 582 | 52.067 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.4 | 1140 | 7.1 | 1015 | 9.8 | 24 | 1140 | 1.1 | 42 | 655 | 58.667 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1125 | 7.2 | 1001 | 9.9 | 25 | 1125 | 2.0 | 43 | 646 | 57.852 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.4 | 1140 | 7.1 | 1015 | 9.8 | 24 | 1140 | 2.5 | 42 | 655 | 58.667 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.3 | 1228 | 6.6 | 1093 | 9.0 | 23 | 1228 | 1.0 | 39 | 706 | 63.190 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.3 | 1211 | 6.7 | 1078 | 9.2 | 23 | 1211 | 1.7 | 40 | 696 | 62.300 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.3 | 1228 | 6.6 | 1093 | 9.0 | 23 | 1228 | 2.1 | 39 | 706 | 63.190 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|--|--|---|------------------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | |

Dimensions see page 4-32 onwards

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 2.0 | 1384 | 5.8 | 1232 | 8.0 | 20 | 1384 | 0.9 | 35 | 795 | 71.200 | GFL07 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1365 | 5.9 | 1215 | 8.2 | 20 | 1365 | 1.7 | 35 | 784 | 70.211 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1384 | 5.8 | 1232 | 8.0 | 20 | 1384 | 2.1 | 35 | 795 | 71.200 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1531 | 5.3 | 1362 | 7.3 | 18 | 1531 | 1.1 | 32 | 880 | 78.750 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1553 | 5.2 | 1382 | 7.2 | 18 | 1553 | 1.7 | 31 | 892 | 79.875 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.6 | 1725 | 4.7 | 1535 | 6.4 | 16 | 1725 | 1.0 | 28 | 991 | 88.750 | GFL09 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.6 | 1749 | 4.6 | 1557 | 6.4 | 16 | 1749 | 1.7 | 28 | 1005 | 90.000 | GFL11 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.5 | 1787 | 4.4 | 1590 | 6.1 | 15 | 1787 | 0.9 | 27 | 1027 | 93.333 | GFL09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.5 | 1791 | 4.4 | 1594 | 6.1 | 15 | 1791 | 1.8 | 27 | 1029 | 93.540 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 2014 | 3.9 | 1792 | 5.4 | 14 | 2014 | 0.9 | 24 | 1157 | 105.185 | GFL09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 2018 | 3.9 | 1796 | 5.4 | 14 | 2018 | 1.8 | 24 | 1160 | 105.397 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 2008 | 4 | 1787 | 5.4 | 14 | 2008 | 2.9 | 24 | 1154 | 104.889 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2189 | 3.6 | 1948 | 5.0 | 13 | 2189 | 0.8 | 22 | 1258 | 114.333 | GFL09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2194 | 3.6 | 1952 | 5.0 | 13 | 2194 | 1.6 | 22 | 1261 | 114.586 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2185 | 3.6 | 1945 | 5.0 | 13 | 2185 | 2.9 | 22 | 1256 | 114.126 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2467 | 3.2 | 2196 | 4.4 | 11 | 2467 | 0.8 | 19 | 1418 | 128.852 | GFL09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2472 | 3.2 | 2200 | 4.4 | 11 | 2472 | 1.6 | 19 | 1421 | 129.111 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2462 | 3.2 | 2191 | 4.4 | 11 | 2462 | 2.9 | 19 | 1415 | 128.593 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.0 | 2855 | 2.8 | 2541 | 3.8 | 9.6 | 2855 | 1.4 | 17 | 1641 | 149.144 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 3217 | 2.5 | 2863 | 3.4 | 8.5 | 3217 | 1.4 | 15 | 1849 | 168.049 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 2990 | 2.7 | 2661 | 3.7 | 9.2 | 2990 | 2.5 | 16 | 1718 | 156.148 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.8 | 3500 | 2.3 | 3115 | 3.1 | 7.8 | 3500 | 1.2 | 14 | 2011 | 182.792 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.8 | 3256 | 2.4 | 2898 | 3.4 | 8.4 | 3256 | 2.6 | 15 | 1871 | 170.074 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.7 | 3943 | 2 | 3509 | 2.8 | 6.9 | 3943 | 1.2 | 12 | 2266 | 205.963 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.7 | 3869 | 2.1 | 3443 | 2.8 | 7.1 | 3869 | 2.0 | 12 | 2223 | 202.074 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4301 | 1.8 | 3828 | 2.5 | 6.4 | 4301 | 1.1 | 11 | 2472 | 224.636 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4301 | 1.8 | 3828 | 2.5 | 6.4 | 4301 | 2.0 | 11 | 2472 | 224.636 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4846 | 1.6 | 4313 | 2.3 | 5.7 | 4846 | 1.1 | 10 | 2785 | 253.111 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4846 | 1.6 | 4313 | 2.3 | 5.7 | 4846 | 2.0 | 10 | 2785 | 253.111 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.5 | 5117 | 1.6 | 4554 | 2.1 | 5.4 | 5117 | 1.0 | 9 | 2941 | 267.259 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.5 | 5242 | 1.5 | 4665 | 2.1 | 5.2 | 5242 | 1.9 | 9 | 3012 | 273.778 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6271 | 1.3 | 5581 | 1.7 | 4.4 | 6271 | 0.9 | 8 | 3604 | 327.556 | GFL11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6365 | 1.2 | 5665 | 1.7 | 4.3 | 6365 | 1.7 | 7 | 3658 | 332.444 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6755 | 1.2 | 6012 | 1.6 | 4.1 | 6755 | 1.5 | 7 | 3882 | 352.811 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 7611 | 1 | 6774 | 1.4 | 3.6 | 7611 | 1.5 | 6 | 4374 | 397.533 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.3 | 8237 | 1 | 7331 | 1.3 | 3.3 | 8237 | 1.3 | 6 | 4734 | 430.222 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.3 | 9997 | 0.8 | 8897 | 1.1 | 2.7 | 9997 | 1.1 | 5 | 5745 | 522.133 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.3 | 10767 | 0.7 | 9583 | 1.0 | 2.5 | 10767 | 0.8 | 4 | 6188 | 562.391 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.2 | 12132 | 0.7 | 10798 | 0.9 | 2.3 | 12132 | 0.8 | 4 | 6972 | 633.680 | GFL14 - 3E □□□ 100C32 | E82MV 302_4B |

P₁ = 4 kW

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-------|-----------------------|--------------|
| 39 | 94 | 114 | 81 | 158 | 395 | 94 | 3.4 | 687 | 54 | 3.675 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 31 | 119 | 91 | 102 | 125 | 312 | 119 | 4.2 | 543 | 68 | 4.643 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 28 | 133 | 81 | 115 | 111 | 278 | 133 | 3.2 | 484 | 77 | 5.211 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 25 | 147 | 73 | 126 | 101 | 252 | 147 | 3.0 | 439 | 84 | 5.750 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|--------|------------------------------------|--------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz [rpm] | 50 Hz [rpm] | [Nm] | 50 Hz [Nm] | [rpm] | [Nm] | | | |
| P₁ = 4 kW | | | | | | | | | | | | |
| 22 | 165 | 65 | 142 | 90 | 225 | 165 | 2.1 | 391 | 95 | 6.450 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 20 | 183 | 59 | 157 | 81 | 203 | 183 | 2.4 | 353 | 105 | 7.147 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 17 | 215 | 50 | 185 | 69 | 173 | 215 | 2.8 | 300 | 123 | 8.400 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 15 | 242 | 44 | 208 | 61 | 153 | 242 | 2.4 | 267 | 139 | 9.463 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 14 | 258 | 42 | 222 | 57 | 144 | 258 | 1.8 | 250 | 148 | 10.092 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 294 | 37 | 253 | 50 | 126 | 294 | 2.1 | 219 | 169 | 11.520 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 11 | 332 | 32 | 285 | 45 | 112 | 332 | 1.8 | 194 | 191 | 12.978 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.8 | 377 | 29 | 324 | 39 | 98 | 377 | 1.7 | 171 | 217 | 14.743 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 10 | 363 | 30 | 312 | 41 | 102 | 363 | 3.2 | 178 | 209 | 14.200 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.0 | 412 | 26 | 354 | 36 | 90 | 412 | 1.6 | 156 | 237 | 16.128 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.1 | 407 | 26 | 350 | 36 | 91 | 407 | 2.9 | 159 | 234 | 15.904 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.0 | 464 | 23 | 399 | 32 | 80 | 464 | 1.3 | 139 | 267 | 18.169 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.1 | 458 | 23 | 394 | 32 | 81 | 458 | 2.6 | 141 | 263 | 17.920 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 526 | 20 | 452 | 28 | 71 | 526 | 1.2 | 123 | 302 | 20.571 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.2 | 519 | 21 | 446 | 29 | 72 | 519 | 2.4 | 124 | 298 | 20.286 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.3 | 592 | 18 | 509 | 25 | 63 | 592 | 1.0 | 109 | 340 | 23.175 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.3 | 584 | 18 | 502 | 25 | 63 | 584 | 2.1 | 110 | 336 | 22.857 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.8 | 644 | 17 | 554 | 23 | 58 | 644 | 1.0 | 100 | 370 | 25.200 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.8 | 635 | 17 | 546 | 23 | 58 | 635 | 2.1 | 102 | 365 | 24.850 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.1 | 726 | 15 | 624 | 20 | 51 | 726 | 0.8 | 89 | 417 | 28.389 | GFL06 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.2 | 716 | 15 | 615 | 21 | 52 | 716 | 1.7 | 90 | 411 | 28.000 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.5 | 827 | 13 | 711 | 18 | 45 | 827 | 1.7 | 78 | 475 | 32.344 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.4 | 835 | 13 | 718 | 18 | 44 | 835 | 2.6 | 77 | 480 | 32.667 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.4 | 837 | 13 | 720 | 18 | 44 | 837 | 3.2 | 77 | 481 | 32.739 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.0 | 932 | 12 | 801 | 16 | 40 | 932 | 1.3 | 69 | 535 | 36.444 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.9 | 941 | 11 | 809 | 16 | 39 | 941 | 2.6 | 69 | 541 | 36.815 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.9 | 943 | 11 | 811 | 16 | 39 | 943 | 3.2 | 68 | 542 | 36.889 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 1013 | 11 | 871 | 15 | 37 | 1013 | 1.4 | 64 | 582 | 39.642 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 1014 | 11 | 872 | 15 | 37 | 1014 | 2.2 | 64 | 583 | 39.667 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.6 | 1028 | 10 | 884 | 14 | 36 | 1028 | 2.7 | 63 | 591 | 40.233 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.3 | 1142 | 9.4 | 982 | 13 | 33 | 1142 | 1.1 | 56 | 656 | 44.667 | GFL07 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.2 | 1143 | 9.4 | 983 | 13 | 32 | 1143 | 2.2 | 56 | 657 | 44.704 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.2 | 1159 | 9.3 | 996 | 13 | 32 | 1159 | 2.7 | 56 | 666 | 45.333 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.8 | 1312 | 8.2 | 1128 | 11 | 28 | 1312 | 1.7 | 49 | 754 | 51.333 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.8 | 1331 | 8.1 | 1144 | 11 | 28 | 1331 | 2.2 | 48 | 765 | 52.067 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.8 | 1331 | 8.1 | 1144 | 11 | 28 | 1331 | 2.7 | 48 | 765 | 52.067 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1479 | 7.3 | 1272 | 10 | 25 | 1479 | 1.7 | 44 | 850 | 57.852 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1499 | 7.2 | 1290 | 9.9 | 25 | 1499 | 2.2 | 43 | 862 | 58.667 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1499 | 7.2 | 1290 | 9.9 | 25 | 1499 | 2.7 | 43 | 862 | 58.667 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.3 | 1592 | 6.7 | 1369 | 9.3 | 23 | 1592 | 1.5 | 40 | 915 | 62.300 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.3 | 1615 | 6.7 | 1389 | 9.2 | 23 | 1615 | 1.8 | 40 | 928 | 63.190 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.3 | 1615 | 6.7 | 1389 | 9.2 | 23 | 1615 | 2.3 | 40 | 928 | 63.190 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.1 | 1795 | 6 | 1543 | 8.3 | 21 | 1795 | 1.4 | 36 | 1031 | 70.211 | GFL09 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.0 | 1820 | 5.9 | 1565 | 8.2 | 20 | 1820 | 1.8 | 35 | 1046 | 71.200 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.0 | 1820 | 5.9 | 1565 | 8.2 | 20 | 1820 | 2.3 | 35 | 1046 | 71.200 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |
| 1.8 | 2042 | 5.3 | 1756 | 7.3 | 18 | 2042 | 1.5 | 32 | 1173 | 79.875 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 1.8 | 2042 | 5.3 | 1756 | 7.3 | 18 | 2042 | 1.8 | 32 | 1173 | 79.875 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2300 | 4.7 | 1978 | 6.4 | 16 | 2300 | 1.5 | 28 | 1322 | 90.000 | GFL11 - 2E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2300 | 4.7 | 1978 | 6.4 | 16 | 2300 | 1.8 | 28 | 1322 | 90.000 | GFL14 - 2E □□□ 112C22 | E82MV 402_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|--|--|---|------------------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | |

Dimensions see page 4-32 onwards

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 1.6 | 2355 | 4.5 | 2025 | 6.2 | 16 | 2355 | 1.4 | 27 | 1353 | 93.540 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2653 | 4 | 2282 | 5.5 | 14 | 2653 | 1.4 | 24 | 1525 | 105.397 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2641 | 4 | 2271 | 5.5 | 14 | 2641 | 2.6 | 24 | 1518 | 104.889 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.3 | 2885 | 3.7 | 2481 | 5.1 | 13 | 2885 | 1.2 | 22 | 1658 | 114.586 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.3 | 2873 | 3.7 | 2471 | 5.1 | 13 | 2873 | 2.3 | 22 | 1651 | 114.126 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.1 | 3250 | 3.3 | 2795 | 4.5 | 11 | 3250 | 1.2 | 20 | 1868 | 129.111 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.1 | 3237 | 3.3 | 2784 | 4.5 | 11 | 3237 | 2.3 | 20 | 1861 | 128.593 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.0 | 3755 | 2.8 | 3229 | 3.9 | 9.7 | 3755 | 1.0 | 17 | 2158 | 149.144 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.1 | 3446 | 3.1 | 2964 | 4.2 | 11 | 3446 | 2.1 | 18 | 1981 | 136.889 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 4231 | 2.5 | 3638 | 3.5 | 8.6 | 4231 | 1.0 | 15 | 2431 | 168.049 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 3931 | 2.7 | 3381 | 3.7 | 9.3 | 3931 | 2.1 | 16 | 2259 | 156.148 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.8 | 4602 | 2.3 | 3958 | 3.2 | 7.9 | 4602 | 0.9 | 14 | 2645 | 182.792 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 4282 | 2.5 | 3682 | 3.4 | 8.5 | 4282 | 2.0 | 15 | 2461 | 170.074 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.7 | 5185 | 2 | 4459 | 2.8 | 7.0 | 5185 | 0.9 | 12 | 2980 | 205.963 | GFL11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.7 | 5087 | 2.1 | 4375 | 2.9 | 7.2 | 5087 | 1.7 | 12 | 2924 | 202.074 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 5655 | 1.9 | 4864 | 2.6 | 6.5 | 5655 | 1.5 | 11 | 3250 | 224.636 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 6372 | 1.7 | 5480 | 2.3 | 5.7 | 6372 | 1.5 | 10 | 3662 | 253.111 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.5 | 6892 | 1.5 | 5927 | 2.1 | 5.3 | 6892 | 1.4 | 9 | 3961 | 273.778 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.4 | 8369 | 1.3 | 7198 | 1.7 | 4.4 | 8369 | 1.3 | 8 | 4810 | 332.444 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.4 | 8882 | 1.2 | 7639 | 1.6 | 4.1 | 8882 | 1.2 | 7 | 5105 | 352.811 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.4 | 10008 | 1.1 | 8607 | 1.5 | 3.7 | 10008 | 1.2 | 6 | 5752 | 397.533 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.3 | 10831 | 1 | 9315 | 1.3 | 3.4 | 10831 | 1.0 | 6 | 6225 | 430.222 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.3 | 13145 | 0.8 | 11305 | 1.1 | 2.8 | 13145 | 0.8 | 5 | 7554 | 522.133 | GFL14 - 3E □□□ 112C22 | E82MV 402_4B |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 39 | 130 | 114 | 111 | 157 | 393 | 130 | 2.5 | 684 | 74 | 3.675 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 43 | 118 | 125 | 102 | 173 | 431 | 118 | 3.0 | 751 | 68 | 3.350 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 31 | 164 | 90 | 141 | 124 | 311 | 164 | 3.0 | 542 | 94 | 4.643 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 28 | 184 | 80 | 158 | 111 | 277 | 184 | 2.3 | 482 | 106 | 5.211 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 28 | 182 | 81 | 156 | 112 | 280 | 182 | 3.0 | 487 | 105 | 5.159 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 25 | 203 | 73 | 174 | 101 | 251 | 203 | 2.2 | 437 | 117 | 5.750 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 25 | 201 | 74 | 173 | 102 | 254 | 201 | 3.0 | 442 | 115 | 5.695 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 22 | 228 | 65 | 196 | 90 | 224 | 228 | 1.5 | 390 | 131 | 6.450 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 23 | 226 | 65 | 194 | 90 | 226 | 226 | 2.5 | 393 | 130 | 6.400 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 20 | 252 | 59 | 217 | 81 | 202 | 252 | 1.7 | 352 | 145 | 7.147 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 20 | 252 | 59 | 217 | 81 | 202 | 252 | 3.0 | 352 | 145 | 7.150 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 17 | 296 | 50 | 255 | 69 | 172 | 296 | 2.0 | 299 | 170 | 8.400 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 17 | 294 | 50 | 252 | 69 | 174 | 294 | 3.0 | 302 | 169 | 8.324 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 15 | 334 | 44 | 287 | 61 | 153 | 334 | 1.7 | 266 | 192 | 9.463 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 15 | 331 | 45 | 284 | 62 | 154 | 331 | 3.0 | 268 | 190 | 9.379 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 14 | 356 | 42 | 306 | 57 | 143 | 356 | 1.3 | 249 | 205 | 10.092 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 15 | 343 | 43 | 295 | 60 | 149 | 343 | 2.7 | 259 | 197 | 9.714 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 406 | 36 | 349 | 50 | 125 | 406 | 1.6 | 218 | 233 | 11.520 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 407 | 36 | 350 | 50 | 125 | 407 | 2.7 | 218 | 234 | 11.538 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 394 | 38 | 339 | 52 | 129 | 394 | 3.1 | 225 | 226 | 11.167 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 11 | 458 | 32 | 394 | 45 | 111 | 458 | 1.3 | 194 | 263 | 12.978 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 11 | 458 | 32 | 394 | 44 | 111 | 458 | 2.4 | 193 | 263 | 13.000 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| 5 Hz | | Motor cooling with separate fan | | | | Motor cooling with integral fan *) | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|----------------|----------------|---------------------------------|----------------|----------------|----------------|------------------------------------|-------|----------------|----------------|-------|------------------------------------|----------------------------------|
| | | 14.5 Hz | | 20 - 50 Hz | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | [rpm] | [Nm] | Dimensions see page 4-32 onwards |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 9.8 | 520 | 28 | 447 | 39 | 98 | 520 | 1.2 | 171 | 299 | 14.743 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 10 | 501 | 30 | 431 | 41 | 102 | 501 | 2.3 | 177 | 288 | 14.200 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.0 | 569 | 26 | 489 | 36 | 90 | 569 | 1.1 | 156 | 327 | 16.128 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.1 | 561 | 26 | 482 | 36 | 91 | 561 | 2.1 | 158 | 322 | 15.904 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.9 | 576 | 26 | 495 | 35 | 89 | 576 | 3.1 | 154 | 331 | 16.333 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.0 | 641 | 23 | 551 | 32 | 80 | 641 | 0.9 | 138 | 368 | 18.169 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.1 | 632 | 23 | 543 | 32 | 81 | 632 | 1.9 | 140 | 363 | 17.920 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.9 | 649 | 23 | 558 | 31 | 79 | 649 | 3.1 | 137 | 373 | 18.407 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.0 | 725 | 20 | 624 | 28 | 70 | 725 | 0.9 | 122 | 417 | 20.571 | GFL06 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.1 | 715 | 21 | 615 | 28 | 71 | 715 | 1.8 | 124 | 411 | 20.286 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.4 | 694 | 21 | 596 | 29 | 74 | 694 | 2.8 | 128 | 399 | 19.667 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.3 | 806 | 18 | 693 | 25 | 63 | 806 | 1.5 | 110 | 463 | 22.857 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.5 | 782 | 19 | 672 | 26 | 65 | 782 | 2.8 | 113 | 449 | 22.164 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.8 | 876 | 17 | 754 | 23 | 58 | 876 | 1.5 | 101 | 504 | 24.850 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.0 | 850 | 17 | 731 | 24 | 60 | 850 | 2.4 | 104 | 489 | 24.111 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.2 | 987 | 15 | 849 | 21 | 52 | 987 | 1.3 | 90 | 567 | 28.000 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.3 | 958 | 15 | 824 | 21 | 53 | 958 | 2.4 | 93 | 551 | 27.173 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.5 | 1141 | 13 | 981 | 18 | 45 | 1141 | 1.2 | 78 | 656 | 32.344 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.4 | 1152 | 13 | 991 | 18 | 44 | 1152 | 1.9 | 77 | 662 | 32.667 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.4 | 1155 | 13 | 993 | 18 | 44 | 1155 | 2.4 | 77 | 664 | 32.739 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.0 | 1285 | 11 | 1105 | 16 | 40 | 1285 | 1.0 | 69 | 739 | 36.444 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.9 | 1298 | 11 | 1117 | 16 | 39 | 1298 | 1.9 | 68 | 746 | 36.815 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.9 | 1301 | 11 | 1119 | 16 | 39 | 1301 | 2.4 | 68 | 748 | 36.889 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.7 | 1398 | 11 | 1202 | 15 | 37 | 1398 | 1.0 | 63 | 803 | 39.642 | GFL07 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.6 | 1399 | 11 | 1203 | 15 | 36 | 1399 | 1.6 | 63 | 804 | 39.667 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.6 | 1419 | 10 | 1220 | 14 | 36 | 1419 | 2.0 | 62 | 815 | 40.233 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.2 | 1577 | 9.4 | 1356 | 13 | 32 | 1577 | 1.6 | 56 | 906 | 44.704 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.2 | 1599 | 9.2 | 1375 | 13 | 32 | 1599 | 2.0 | 55 | 919 | 45.333 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.8 | 1810 | 8.2 | 1557 | 11 | 28 | 1810 | 1.3 | 49 | 1040 | 51.333 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.8 | 1836 | 8 | 1579 | 11 | 28 | 1836 | 1.6 | 48 | 1055 | 52.067 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.8 | 1836 | 8 | 1579 | 11 | 28 | 1836 | 2.0 | 48 | 1055 | 52.067 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 2040 | 7.2 | 1755 | 10 | 25 | 2040 | 1.3 | 43 | 1172 | 57.852 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 2069 | 7.1 | 1779 | 9.8 | 25 | 2069 | 1.6 | 43 | 1189 | 58.667 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 2069 | 7.1 | 1779 | 9.8 | 25 | 2069 | 2.0 | 43 | 1189 | 58.667 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.3 | 2197 | 6.7 | 1889 | 9.3 | 23 | 2197 | 1.1 | 40 | 1263 | 62.300 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.3 | 2228 | 6.6 | 1916 | 9.2 | 23 | 2228 | 1.3 | 40 | 1281 | 63.190 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.3 | 2228 | 6.6 | 1916 | 9.2 | 23 | 2228 | 1.6 | 40 | 1281 | 63.190 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.1 | 2476 | 6 | 2129 | 8.2 | 21 | 2476 | 1.0 | 36 | 1423 | 70.211 | GFL09 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.0 | 2511 | 5.9 | 2159 | 8.1 | 20 | 2511 | 1.3 | 35 | 1443 | 71.200 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.0 | 2511 | 5.9 | 2159 | 8.1 | 20 | 2511 | 1.6 | 35 | 1443 | 71.200 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2817 | 5.2 | 2422 | 7.2 | 18 | 2817 | 1.1 | 31 | 1619 | 79.875 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2817 | 5.2 | 2422 | 7.2 | 18 | 2817 | 1.3 | 31 | 1619 | 79.875 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 1.6 | 3174 | 4.7 | 2729 | 6.4 | 16 | 3174 | 1.1 | 28 | 1824 | 90.000 | GFL11 - 2E □□□ 112C32 | E82MV 552_4B |
| 1.6 | 3174 | 4.7 | 2729 | 6.4 | 16 | 3174 | 1.3 | 28 | 1824 | 90.000 | GFL14 - 2E □□□ 112C32 | E82MV 552_4B |
| 1.5 | 3249 | 4.5 | 2794 | 6.2 | 15 | 3249 | 1.0 | 27 | 1867 | 93.540 | GFL11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3661 | 4 | 3148 | 5.5 | 14 | 3661 | 1.0 | 24 | 2104 | 105.397 | GFL11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3643 | 4 | 3133 | 5.5 | 14 | 3643 | 1.9 | 24 | 2094 | 104.889 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.3 | 3980 | 3.7 | 3423 | 5.0 | 13 | 3980 | 0.9 | 22 | 2287 | 114.586 | GFL11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.3 | 3964 | 3.7 | 3409 | 5.1 | 13 | 3964 | 1.7 | 22 | 2278 | 114.126 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes)
Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | | i | Shaft-mounted helical geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|------------------------------------|----------------|--|--|---|------------------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | |

Dimensions see page 4-32 onwards

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 1.1 | 4485 | 3.2 | 3857 | 4.5 | 11 | 4485 | 0.9 | 19 | 2577 | 129.111 | GFL11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.1 | 4467 | 3.3 | 3841 | 4.5 | 11 | 4467 | 1.7 | 20 | 2567 | 128.593 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.1 | 4755 | 3.1 | 4089 | 4.2 | 11 | 4755 | 1.5 | 18 | 2733 | 136.889 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.9 | 5424 | 2.7 | 4665 | 3.7 | 9.3 | 5424 | 1.5 | 16 | 3117 | 156.148 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.9 | 5908 | 2.5 | 5081 | 3.4 | 8.5 | 5908 | 1.4 | 15 | 3395 | 170.074 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.7 | 7019 | 2.1 | 6036 | 2.9 | 7.2 | 7019 | 1.3 | 12 | 4034 | 202.074 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.6 | 7803 | 1.9 | 6710 | 2.6 | 6.4 | 7803 | 1.1 | 11 | 4484 | 224.636 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.6 | 8792 | 1.7 | 7561 | 2.3 | 5.7 | 8792 | 1.1 | 10 | 5053 | 253.111 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.5 | 9510 | 1.5 | 8178 | 2.1 | 5.3 | 9510 | 1.0 | 9 | 5465 | 273.778 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 11548 | 1.3 | 9931 | 1.7 | 4.4 | 11548 | 0.9 | 8 | 6637 | 332.444 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 12255 | 1.2 | 10539 | 1.6 | 4.1 | 12255 | 0.8 | 7 | 7043 | 352.811 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 13809 | 1.1 | 11875 | 1.5 | 3.6 | 13809 | 0.8 | 6 | 7936 | 397.533 | GFL14 - 3E □□□ 112C32 | E82MV 552_4B |

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|------|--------|-----------------------|--------------|
| 43 | 160 | 126 | 138 | 174 | 434 | 160 | 4.0 | 756 | 92 | 3.350 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 31 | 222 | 91 | 191 | 125 | 313 | 222 | 2.9 | 545 | 127 | 4.643 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 28 | 246 | 82 | 212 | 113 | 282 | 246 | 3.4 | 491 | 142 | 5.159 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 26 | 272 | 74 | 234 | 102 | 256 | 272 | 3.4 | 445 | 156 | 5.695 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 23 | 306 | 66 | 263 | 91 | 227 | 306 | 2.2 | 396 | 176 | 6.400 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 20 | 342 | 59 | 294 | 81 | 204 | 342 | 2.7 | 354 | 196 | 7.150 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 17 | 398 | 51 | 342 | 70 | 175 | 398 | 2.5 | 304 | 228 | 8.324 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 16 | 448 | 45 | 385 | 62 | 155 | 448 | 2.2 | 270 | 257 | 9.379 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 15 | 464 | 43 | 399 | 60 | 150 | 464 | 2.1 | 261 | 267 | 9.714 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 13 | 551 | 37 | 474 | 50 | 126 | 551 | 2.0 | 219 | 317 | 11.538 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 11 | 621 | 32 | 534 | 45 | 112 | 621 | 1.8 | 195 | 357 | 13.000 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 10 | 678 | 30 | 583 | 41 | 103 | 678 | 1.7 | 178 | 390 | 14.200 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 9.2 | 760 | 27 | 653 | 37 | 92 | 760 | 1.6 | 159 | 437 | 15.904 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 8.9 | 780 | 26 | 671 | 36 | 89 | 780 | 3.2 | 155 | 448 | 16.333 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 8.1 | 856 | 24 | 736 | 32 | 81 | 856 | 1.4 | 141 | 492 | 17.920 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.9 | 879 | 23 | 756 | 32 | 79 | 879 | 2.8 | 138 | 505 | 18.407 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.2 | 969 | 21 | 833 | 29 | 72 | 969 | 1.3 | 125 | 557 | 20.286 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.4 | 939 | 21 | 808 | 30 | 74 | 939 | 2.7 | 129 | 540 | 19.667 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.4 | 1092 | 18 | 939 | 25 | 64 | 1092 | 1.1 | 111 | 627 | 22.857 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.6 | 1059 | 19 | 910 | 26 | 66 | 1059 | 2.5 | 114 | 608 | 22.164 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.9 | 1187 | 17 | 1021 | 23 | 59 | 1187 | 1.1 | 102 | 682 | 24.850 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.0 | 1152 | 18 | 990 | 24 | 60 | 1152 | 2.4 | 105 | 662 | 24.111 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.2 | 1337 | 15 | 1150 | 21 | 52 | 1337 | 0.9 | 90 | 769 | 28.000 | GFL07 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.4 | 1298 | 16 | 1116 | 21 | 54 | 1298 | 2.1 | 93 | 746 | 27.173 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.2 | 1337 | 15 | 1150 | 21 | 52 | 1337 | 3.2 | 90 | 769 | 28.000 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.5 | 1560 | 13 | 1342 | 18 | 45 | 1560 | 1.9 | 78 | 897 | 32.667 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.4 | 1564 | 13 | 1345 | 18 | 44 | 1564 | 2.9 | 77 | 899 | 32.739 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.0 | 1758 | 11 | 1512 | 16 | 40 | 1758 | 1.7 | 69 | 1010 | 36.815 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.9 | 1762 | 11 | 1515 | 16 | 39 | 1762 | 2.6 | 69 | 1012 | 36.889 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|------------------------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Shaft-mounted helical geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | | 50 Hz | [rpm] | [Nm] | Dimensions see page 4-32 onwards | | |
| | | | | [rpm] | [rpm] | [Nm] | | | | | | |

P₁ = 7.5 kW

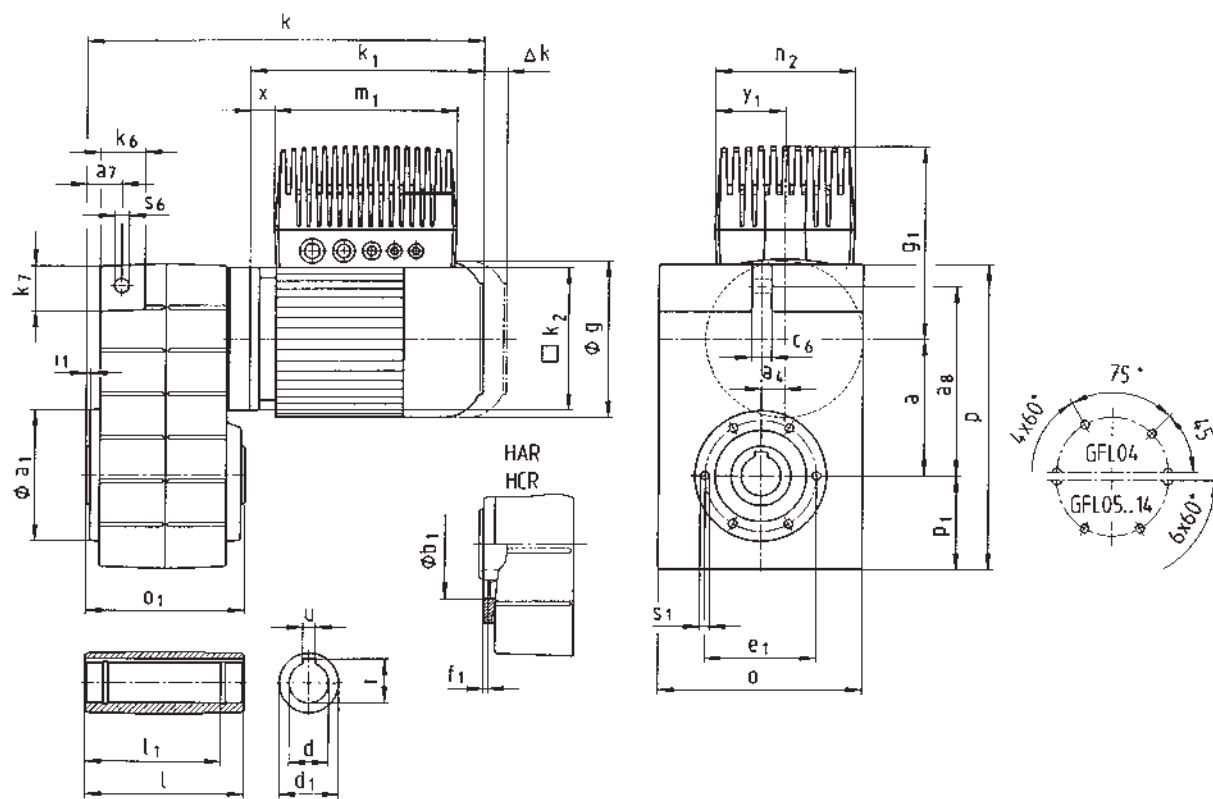
| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 3.7 | 1894 | 11 | 1629 | 15 | 37 | 1894 | 1.6 | 64 | 1089 | 39.667 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.6 | 1921 | 10 | 1652 | 14 | 36 | 1921 | 2.5 | 63 | 1104 | 40.233 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.3 | 2135 | 9.4 | 1836 | 13 | 33 | 2135 | 1.4 | 57 | 1227 | 44.704 | GFL09 - 2E □□□ 132C22 | E82MV 752_4B |
| 3.2 | 2165 | 9.3 | 1862 | 13 | 32 | 2165 | 2.3 | 56 | 1244 | 45.333 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.8 | 2487 | 8.1 | 2138 | 11 | 28 | 2487 | 2.1 | 49 | 1429 | 52.067 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.8 | 2487 | 8.1 | 2138 | 11 | 28 | 2487 | 3.1 | 49 | 1429 | 52.067 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2802 | 7.2 | 2410 | 9.9 | 25 | 2802 | 1.9 | 43 | 1610 | 58.667 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2802 | 7.2 | 2410 | 9.9 | 25 | 2802 | 3.1 | 43 | 1610 | 58.667 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.3 | 3018 | 6.7 | 2595 | 9.2 | 23 | 3018 | 1.8 | 40 | 1734 | 63.190 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.3 | 3018 | 6.7 | 2595 | 9.2 | 23 | 3018 | 2.6 | 40 | 1734 | 63.190 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.0 | 3400 | 5.9 | 2924 | 8.2 | 20 | 3400 | 1.6 | 36 | 1954 | 71.200 | GFL11 - 2E □□□ 132C22 | E82MV 752_4B |
| 2.0 | 3400 | 5.9 | 2924 | 8.2 | 20 | 3400 | 2.6 | 36 | 1954 | 71.200 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 1.8 | 3815 | 5.3 | 3281 | 7.3 | 18 | 3815 | 1.8 | 32 | 2192 | 79.875 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 1.6 | 4298 | 4.7 | 3696 | 6.5 | 16 | 4298 | 1.8 | 28 | 2470 | 90.000 | GFL14 - 2E □□□ 132C22 | E82MV 752_4B |
| 1.4 | 4934 | 4 | 4243 | 5.6 | 14 | 4934 | 1.4 | 24 | 2836 | 104.889 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.3 | 5369 | 3.7 | 4617 | 5.1 | 13 | 5369 | 1.3 | 22 | 3085 | 114.126 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.1 | 6049 | 3.3 | 5202 | 4.5 | 11 | 6049 | 1.3 | 20 | 3477 | 128.593 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.1 | 6439 | 3.1 | 5538 | 4.2 | 11 | 6439 | 1.1 | 18 | 3701 | 136.889 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.9 | 7345 | 2.7 | 6317 | 3.7 | 9.3 | 7345 | 1.1 | 16 | 4221 | 156.148 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.9 | 8001 | 2.5 | 6880 | 3.4 | 8.6 | 8001 | 1.1 | 15 | 4598 | 170.074 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.6 | 10567 | 1.9 | 9088 | 2.6 | 6.5 | 10567 | 0.8 | 11 | 6073 | 224.636 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.6 | 11907 | 1.7 | 10240 | 2.3 | 5.8 | 11907 | 0.8 | 10 | 6843 | 253.111 | GFL14 - 3E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)



GFL□□ - 2E H□R



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

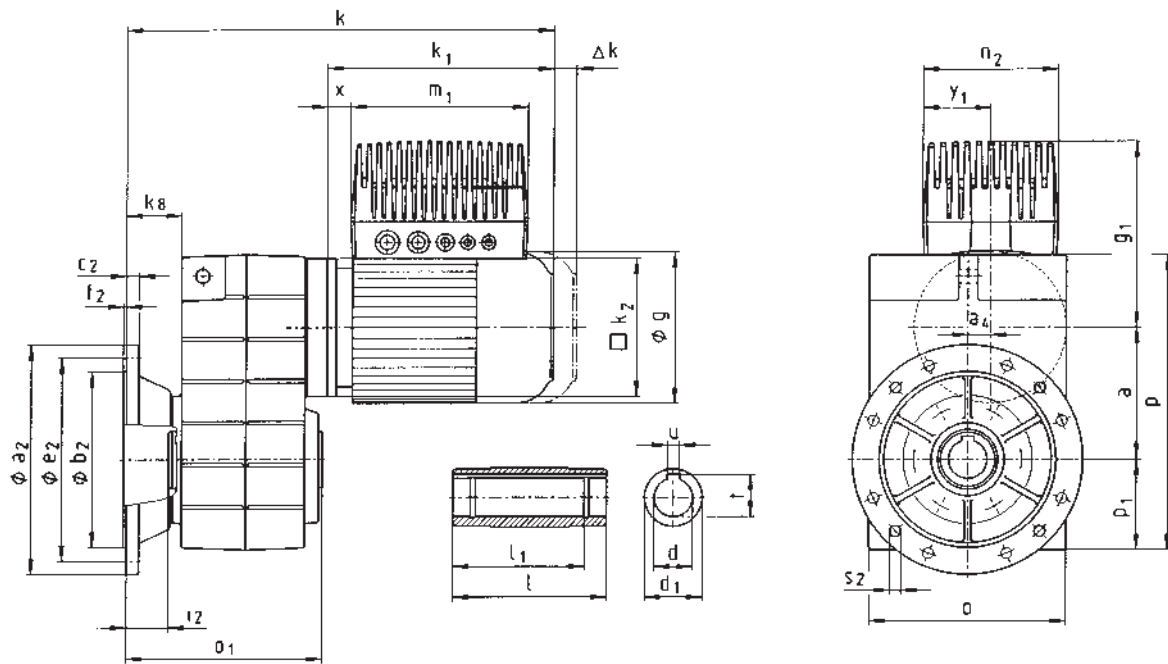


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|--------|----------------|--------|----------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| GFL□□ - 2E H□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | a ₄ | | | | | | | | | | |
| 04 | 148 | 115 | 214 | 69 | 90.5 | 12.5 | 312 | | 332 | | 354 | | | | | |
| 05 | 165 | 140 | 252 | 78 | 112.5 | 18.5 | 334 | | 353 | | 376 | | 437 | | 470 | |
| 06 | 206 | 160 | 315 | 98 | 140 | 22 | 347 | | 366 | | 389 | | 450 | | 483 | |
| 07 | 256 | 200 | 386 | 118 | 173 | 29 | | | | | 422 | | 483 | | 516 | |
| 09 | 318 | 240 | 486 | 149 | 220 | 37.5 | | | | | 517 | | 550 | | 566 | |
| 11 | 395 | 290 | 600 | 181 | 276.5 | 50 | | | | | | | 591 | | 607 | |
| 14 | 490 | 350 | 740 | 228 | 339 | 65 | | | | | | | | | 652 | |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Torque plate | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ | a ₇ | a ₈ | c ₆ | s ₆ | k ₆ | k ₇ |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 110 | 75 | 90 | 3 | 2.5 | M6x12 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 29 | 155 | 16 | 14 | 35 | 38 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 35 | 195 | 20 | 14 | 46 | 46 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 44 | 240 | 25 | 18 | 56 | 56 |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 205 | 145 | 175 | 6 | 5 | M16x24 | 50 | 300 | 32 | 22 | 70 | 70 |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 240 | 140 | 205 | 6 | 6 | M20x32 | 65 | 375 | 40 | 26 | 84 | 90 |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 80 | 455 | 50 | 32 | 100 | 114 |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 2E HCK



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|--------|----------------|--------|----------------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|-----|
| GFL□□ - 2E HCK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 |
| | k₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 |
| | k₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 |
| | Δk^{**} | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 |
| 8200 motec | g₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | |
| | g₁¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | |
| | n₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | |
| | y₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | a ₄ | k _g | | | | | | | | | |
| 04 | 148 | 148 | 214 | 69 | 90.5 | 12.5 | 41 | 345 | | 365 | | 387 | | | | |
| 05 | 165 | 173 | 252 | 78 | 112.5 | 18.5 | 46 | 367 | | 386 | | 409 | | 470 | | 503 |
| 06 | 206 | 201 | 315 | 98 | 140 | 22 | 55 | 388 | | 407 | | 430 | | 491 | | 524 |
| 07 | 256 | 255 | 386 | 118 | 173 | 29 | 72 | | | 477 | | 538 | | 571 | | 587 |
| 09 | 318 | 300 | 486 | 149 | 220 | 37.5 | 77 | | | | | 577 | | 610 | | 626 |
| 11 | 395 | 350 | 600 | 181 | 276.5 | 50 | 85 | | | | | | | 651 | | 667 |
| 14 | 490 | 410 | 740 | 228 | 339 | 65 | 89 | | | | | | | | | 712 |

| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 | |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | 12 14.5 | 165 215 | 3.5 4 | 42 41 | 4 x 11 4 x 14 | |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 55 | 4 x 14 | |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 60 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 | |

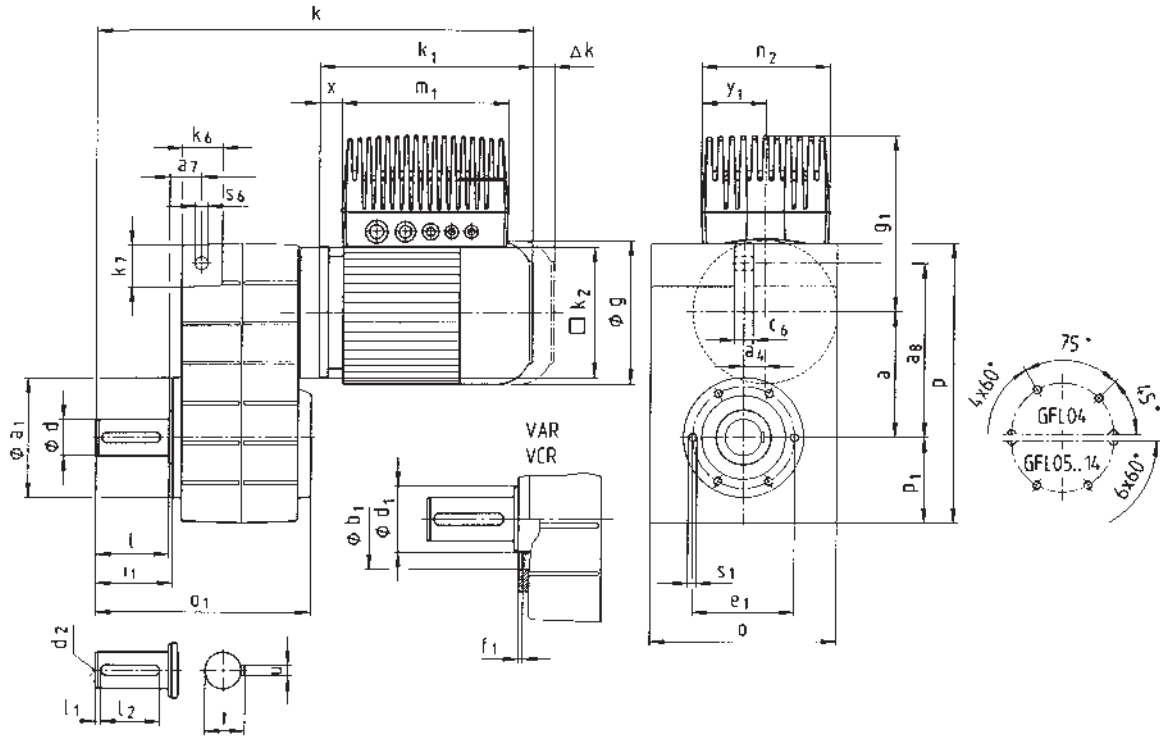
Dimensions in [mm]

* Please note dimension k₂

** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 2E V□R



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

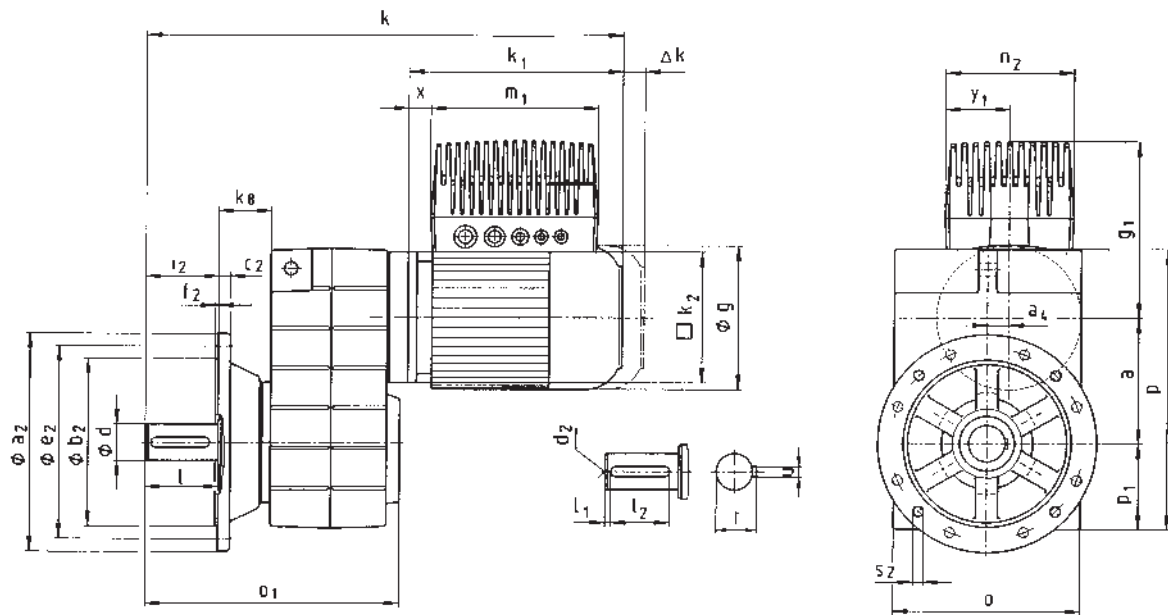


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | | |
|-----------------------|-----------------------------------|----------------------|-----------|----------------------|----------|----------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|
| GFL□□ - 2E V□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | | 363 | 404 | | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | | |
| | Δk** Brake | | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | | |
| | Separate fan | | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | | |
| | Brake + separate fan | | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | | |
| 8200 motec | g₁ | | 171 | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | 278 | 297 | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | | 202 | | 202 | | 230 | | 230 | | 327 | | 327 | | 327 | |
| | n₂ | | 138 | | 138 | | 156 | | 156 | | 176 | | 176 | | 213 | | 213 | | 213 | |
| | x₁ | | 20 | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | 11 |
| | y₁ | | 69 | | 69 | | 78 | | 78 | | 88 | | 88 | | 107 | | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | | | | | |
| | o* | o₁ | p* | p₁ | a | a₄ | | | | | | | | | | | | | | |
| 04 | 148 | 163 | 214 | 69 | 90.5 | 12.5 | 362 | | 382 | | 404 | | 465 | | | | | | | |
| 05 | 165 | 197 | 252 | 78 | 112.5 | 18.5 | 394 | | 413 | | 436 | | 497 | | 530 | | | | | |
| 06 | 206 | 236 | 315 | 98 | 140 | 22 | 427 | | 446 | | 469 | | 530 | | 563 | | 579 | | 623 | |
| 07 | 256 | 296 | 386 | 118 | 173 | 29 | | | | | 522 | | 583 | | 616 | | 632 | | 676 | 725 |
| 09 | 318 | 356 | 486 | 149 | 220 | 37.5 | | | | | | | 637 | | 670 | | 686 | | 730 | 779 |
| 11 | 395 | 445 | 600 | 181 | 276.5 | 50 | | | | | | | | | 751 | | 767 | | 811 | 860 |
| 14 | 490 | 544 | 740 | 228 | 339 | 65 | | | | | | | | | | | 852 | | 896 | 945 |

| Gearbox size | Solid shaft | | | | | | | | | Pitch circle | | | | | Torque plate | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | d | l | d₁ | l₁ | l₂ | d₂ | u | t | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ | a₇ | a₈ | c₆ | s₆ | k₆ | k₇ |
| 04 | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 110 | 75 | 90 | 3 | 52.5 | M6x12 | 22.5 | 128 | 14 | 12.5 | 32 | 35 |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 | 29 | 155 | 16 | 14 | 35 | 38 |
| 06 | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 4 | 85 | M10x16 | 35 | 195 | 20 | 14 | 46 | 46 |
| 07 | 50 | 100 | 75 | 8 | 80 | M16 | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 | 44 | 240 | 25 | 18 | 56 | 56 |
| 09 | 60 | 120 | 95 | 8 | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 | 50 | 300 | 32 | 22 | 70 | 70 |
| 11 | 80 | 160 | 105 | 15 | 125 | M20 | 22 | 85 | 240 | 140 | 205 | 6 | 166 | M20x32 | 65 | 375 | 40 | 26 | 84 | 90 |
| 14 | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | 6 | 207 | M24x35 | 80 | 455 | 50 | 32 | 100 | 114 |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
 d > 50 mm: m6 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 2E VCK



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

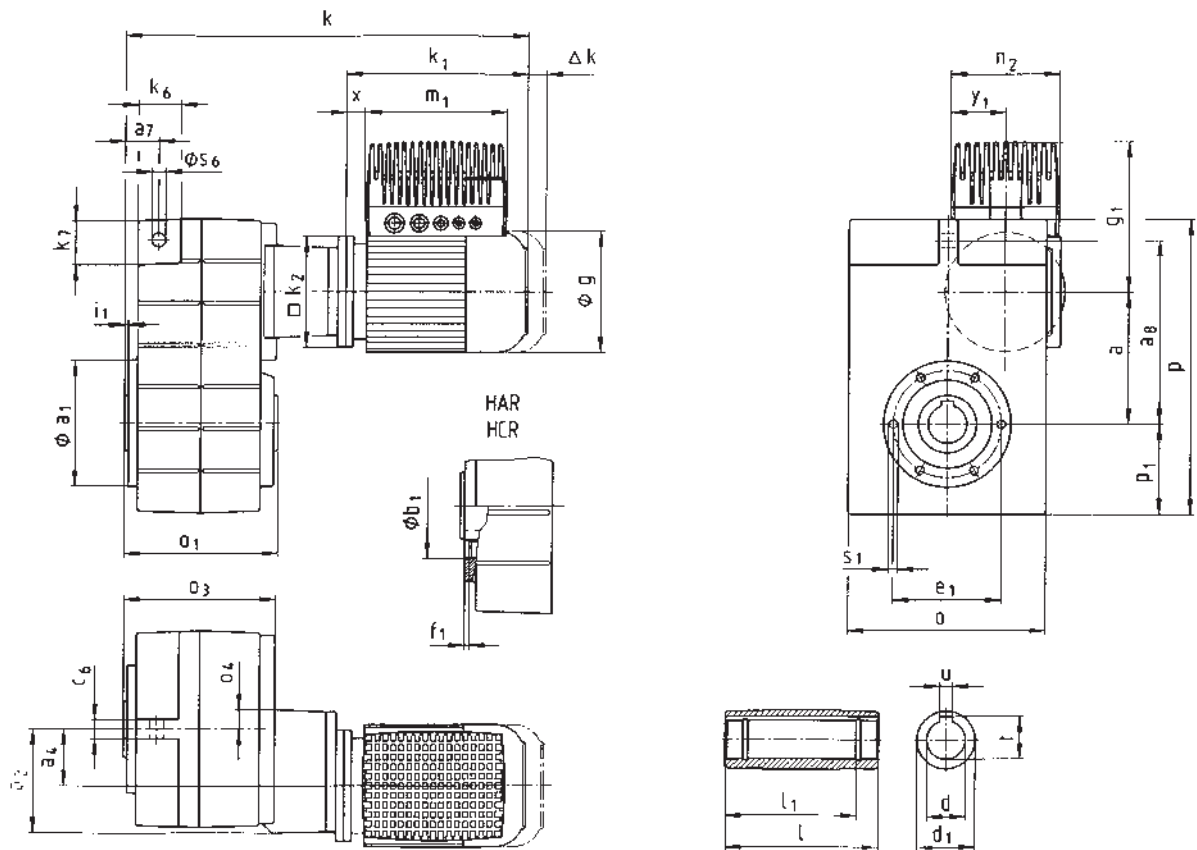


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|--------|----------------|--------|----------------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|-----|
| GFL□□ - 2E VCK | | 8200 motec E82MV□□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 |
| | k₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 |
| | k₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 |
| 8200 motec | g₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | |
| | g₁¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | |
| | n₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | |
| | y₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | a ₄ | k _g | | | | | | | | | |
| 04 | 148 | 196 | 214 | 69 | 90.5 | 12.5 | 41 | 395 | | 415 | | 437 | | 498 | | |
| 05 | 165 | 230 | 252 | 78 | 112.5 | 18.5 | 46 | 427 | | 446 | | 469 | | 530 | | 563 |
| 06 | 206 | 277 | 315 | 98 | 140 | 22 | 55 | 468 | | 487 | | 510 | | 571 | | 604 |
| 07 | 256 | 351 | 386 | 118 | 173 | 29 | 72 | | | 577 | | 638 | | 671 | | 687 |
| 09 | 318 | 416 | 486 | 149 | 220 | 37.5 | 77 | | | | | 697 | | 730 | | 746 |
| 11 | 395 | 505 | 600 | 181 | 276.5 | 50 | 85 | | | | | | | 811 | | 827 |
| 14 | 490 | 604 | 740 | 228 | 339 | 65 | 89 | | | | | | | | | 912 |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| 11 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 160 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 3E H□R



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes)

Geared motors with 8200 motec

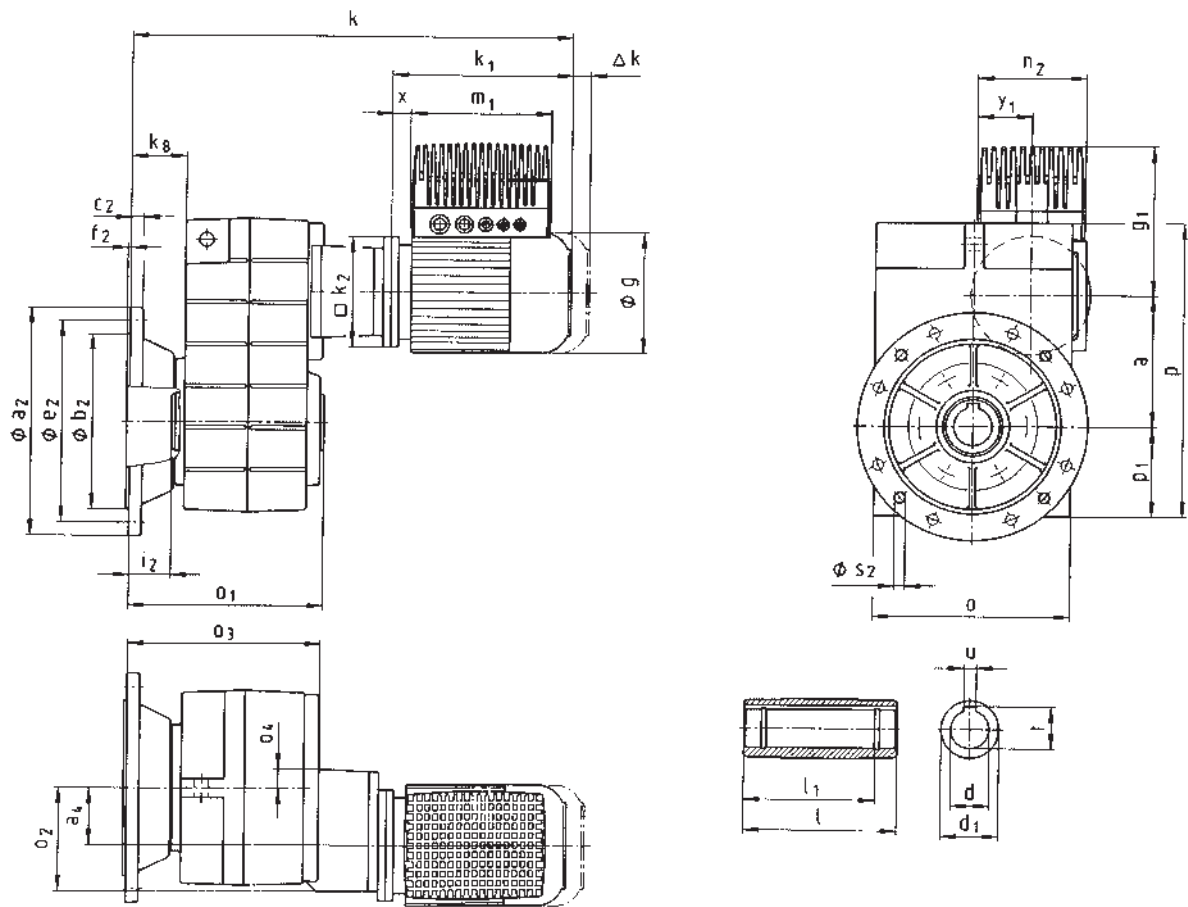


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | |
|-----------------------|-----------------------------------|----------------------|----------------|----------------|----------------|--------|----------------|--------|----------------|----------------|--------|--------|--------|--------|--------|-----|--|-----|--|
| GFL□□ - 3 EH□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | | |
| Gearbox size | Gearbox | | | | | | | | | Total length k | | | | | | | | | |
| | o* | o ₁ | o ₂ | o ₃ | o ₄ | p* | p ₁ | a | a ₄ | | | | | | | | | | |
| 05 | 165 | 140 | 107 | 141 | 23 | 252 | 78 | 112.5 | 54.5 | 410 | | 430 | | 452 | | 543 | | | |
| 06 | 206 | 160 | 111 | 160 | 20 | 315 | 98 | 140 | 58 | 440 | | 460 | | 482 | | 543 | | | |
| 07 | 256 | 200 | 135 | 199 | 24 | 386 | 118 | 173 | 74 | 484 | | 504 | | 526 | | 587 | | 621 | |
| 09 | 318 | 240 | 170 | 238 | 27 | 486 | 149 | 220 | 93.5 | 536 | | 556 | | 578 | | 639 | | 673 | |
| 11 | 395 | 290 | 216 | 285 | 34 | 600 | 181 | 276.5 | 120 | | | 638 | | 699 | | 733 | | 749 | |
| 14 | 490 | 350 | 271 | 340 | 38 | 740 | 228 | 339 | 154 | | | | | 778 | | 812 | | 828 | |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Torque plate | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° | a ₇ | a ₈ | c ₆ | s ₆ | k ₆ | k ₇ |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 29 | 155 | 16 | 14 | 35 | 38 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 35 | 195 | 20 | 14 | 46 | 46 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 44 | 240 | 25 | 18 | 56 | 56 |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 205 | 145 | 175 | 6 | 5 | M16x24 | 50 | 300 | 32 | 22 | 70 | 70 |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 240 | 140 | 205 | 6 | 6 | M20x32 | 65 | 375 | 40 | 26 | 84 | 90 |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 80 | 455 | 50 | 32 | 100 | 114 |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 3E HCK



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|----------------------|----------------|----------------|----------------|--------|----------------|--------|----------------|----------------|----------------|--------|--------|--------|--------|--|-----|--|
| GFL□□ - 3E HCK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | | | | | Total length k | | | | | | | |
| | o* | o ₁ | o ₂ | o ₃ | o ₄ | p* | p ₁ | a | a ₄ | k ₈ | | | | | | | | |
| 05 | 165 | 173 | 107 | 174 | 23 | 252 | 78 | 112.5 | 54.5 | 46 | 443 | | 463 | | 485 | | | |
| 06 | 206 | 201 | 111 | 201 | 20 | 315 | 98 | 140 | 58 | 55 | 481 | | 501 | | 523 | | 584 | |
| 07 | 256 | 255 | 135 | 254 | 24 | 386 | 118 | 173 | 74 | 72 | 539 | | 559 | | 581 | | 642 | |
| 09 | 318 | 300 | 170 | 298 | 27 | 486 | 149 | 220 | 93.5 | 77 | 596 | | 616 | | 638 | | 699 | |
| 11 | 395 | 350 | 216 | 345 | 34 | 600 | 181 | 276.5 | 120 | 85 | | | | | 698 | | 759 | |
| 14 | 490 | 410 | 271 | 400 | 38 | 740 | 228 | 339 | 154 | 89 | | | | | | | 838 | |
| | | | | | | | | | | | | | | | | | 872 | |
| | | | | | | | | | | | | | | | | | 888 | |
| | | | | | | | | | | | | | | | | | 932 | |
| | | | | | | | | | | | | | | | | | 980 | |

| Gearbox size | Hollow shaft | | Output flange | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | 12 14.5 | 165 215 | 3.5 4 | 42 41 | 4 x 11 4 x 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 55 | 4 x 14 |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 60 | 4 x 17.5 8 x 17.5 |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 |

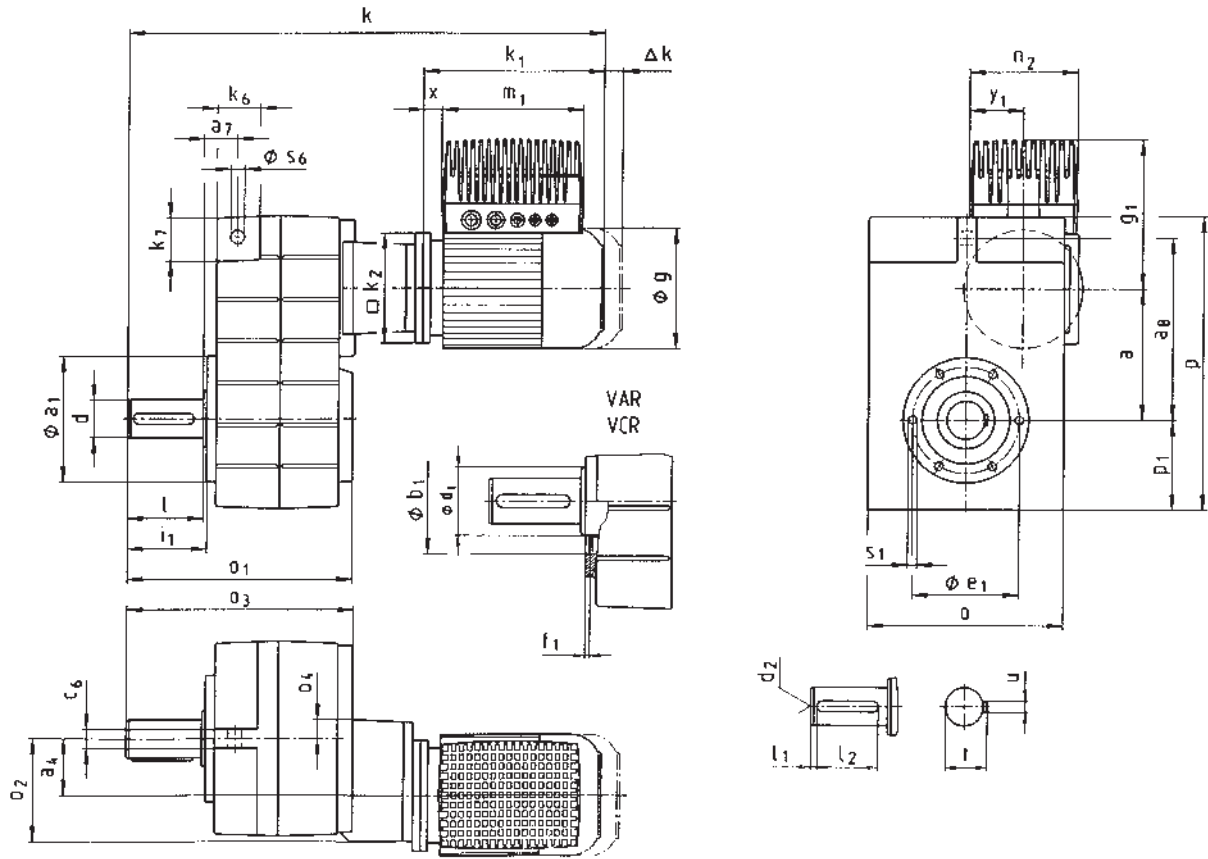
Dimensions in [mm]

* Please note dimension k₂

** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 3E V□R



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes)

Geared motors with 8200 motec

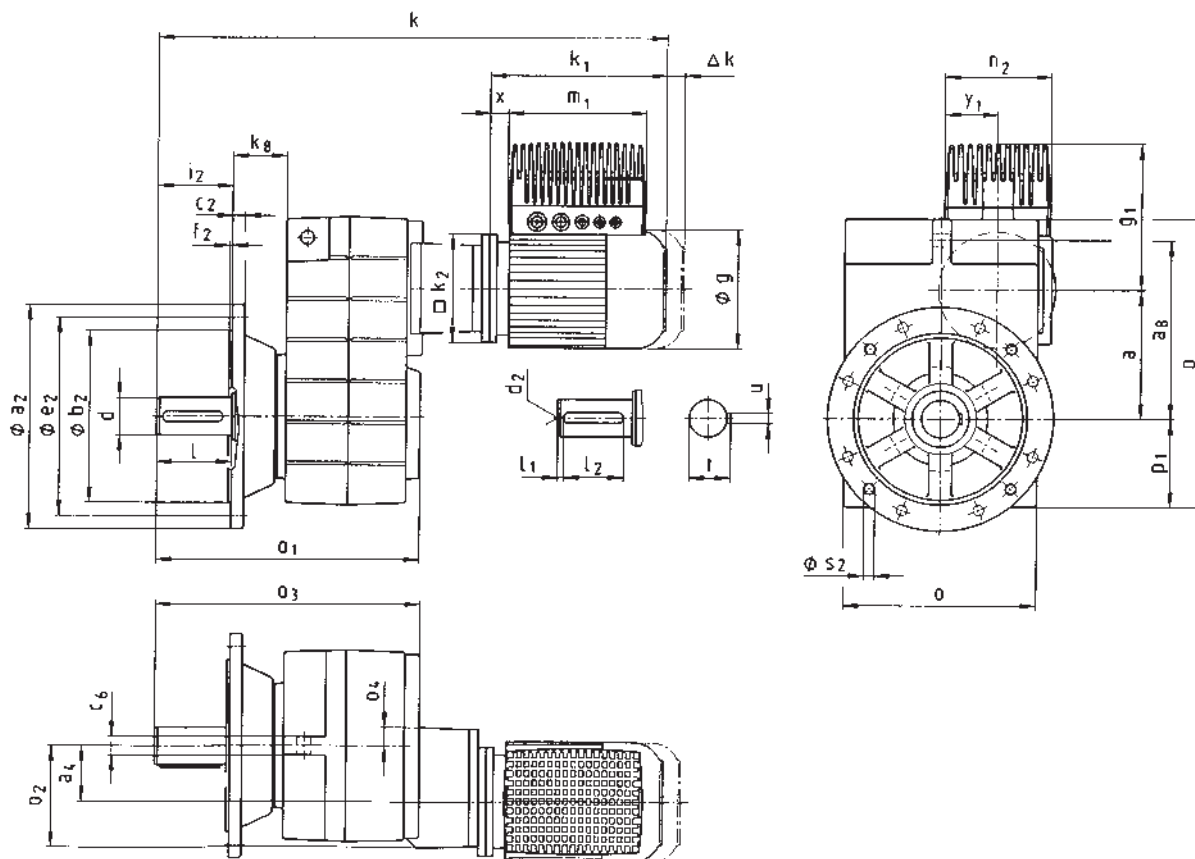


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | |
|-----------------------|-----------------------------------|----------------------|----------------|----------------|----------------|--------|----------------|--------|----------------|----------------|--------|--------|--------|--------|--------|------|--|------|--|
| GFL□□ - 3E V□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | | |
| Gearbox size | Gearbox | | | | | | | | | Total length k | | | | | | | | | |
| | o* | o ₁ | o ₂ | o ₃ | o ₄ | p* | p ₁ | a | a ₄ | | | | | | | | | | |
| 05 | 165 | 197 | 107 | 201 | 23 | 252 | 78 | 112.5 | 54.5 | 470 | | 490 | | 512 | | | | | |
| 06 | 206 | 236 | 111 | 240 | 20 | 315 | 98 | 140 | 58 | 520 | | 540 | | 562 | | 623 | | | |
| 07 | 256 | 296 | 135 | 299 | 24 | 386 | 118 | 173 | 74 | 584 | | 604 | | 626 | | 687 | | 721 | |
| 09 | 318 | 356 | 170 | 358 | 27 | 486 | 149 | 220 | 93.5 | 656 | | 676 | | 698 | | 759 | | 793 | |
| 11 | 395 | 445 | 216 | 445 | 34 | 600 | 181 | 276.5 | 120 | | | 798 | | 859 | | 893 | | 909 | |
| 14 | 490 | 544 | 271 | 540 | 38 | 740 | 228 | 339 | 154 | | | | | | | 1012 | | 1028 | |

| Gearbox size | Solid shaft | | | | | | | | | Pitch circle | | | | | Torque plate | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₇ | a ₈ | c ₆ | s ₆ | k ₆ | k ₇ | |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 | 29 | 155 | 16 | 14 | 35 | 38 | |
| 06 | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 4 | 85 | M10x16 | 35 | 195 | 20 | 14 | 46 | 46 | |
| 07 | 50 | 100 | 75 | 8 | 80 | M16 | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 | 44 | 240 | 25 | 18 | 56 | 56 | |
| 09 | 60 | 120 | 95 | 8 | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 | 50 | 300 | 32 | 22 | 70 | 70 | |
| 11 | 80 | 160 | 105 | 15 | 125 | M20 | 22 | 85 | 240 | 140 | 205 | 6 | 166 | M20x32 | 65 | 375 | 40 | 26 | 84 | 90 | |
| 14 | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | 6 | 207 | M24x35 | 80 | 455 | 50 | 32 | 100 | 114 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

GFL□□ - 3E VCK



Dimensions - Shaft-mounted helical gearboxes (low-profile gearboxes) Geared motors with 8200 motec

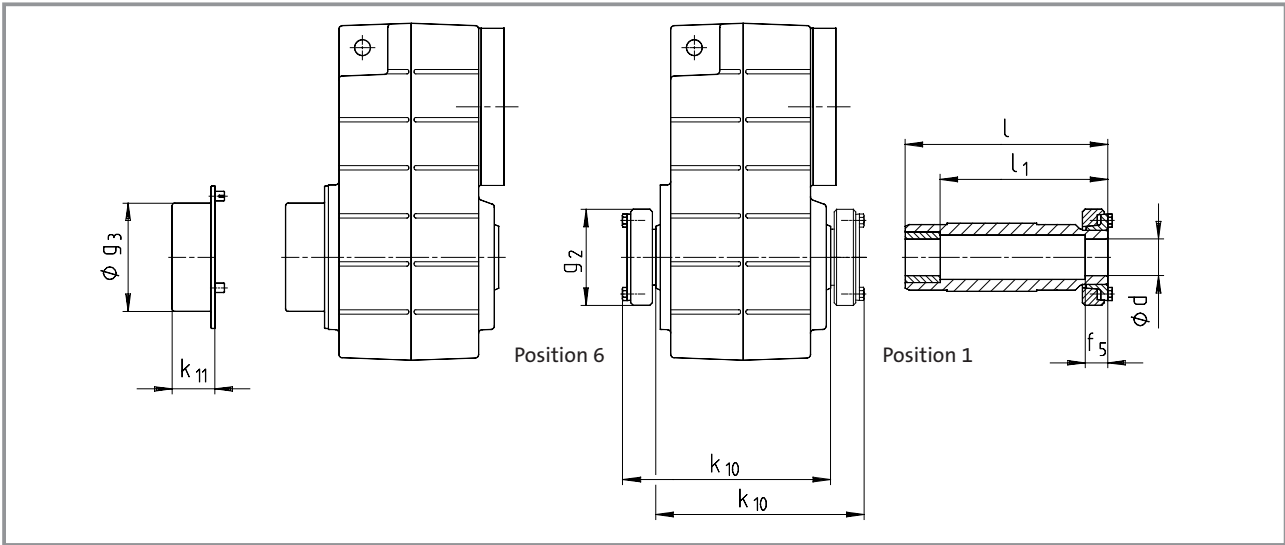


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|----------------------|----------------|----------------|----------------|--------|----------------|--------|----------------|----------------|--------------|--------|--------|--------|--------|--|------|--|
| GFL□□ - 3E VCK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | | | | | Total length | | | | | | | |
| | o* | o ₁ | o ₂ | o ₃ | o ₄ | p* | p ₁ | a | a ₄ | k ₈ | k | | | | | | | |
| 05 | 165 | 230 | 107 | 234 | 23 | 252 | 78 | 112.5 | 54.5 | 46 | 503 | | 523 | | 545 | | | |
| 06 | 206 | 277 | 111 | 281 | 20 | 315 | 98 | 140 | 58 | 55 | 561 | | 581 | | 603 | | 664 | |
| 07 | 256 | 351 | 135 | 354 | 24 | 386 | 118 | 173 | 74 | 72 | 639 | | 659 | | 681 | | 742 | |
| 09 | 318 | 416 | 170 | 418 | 27 | 486 | 149 | 220 | 93.5 | 77 | 716 | | 736 | | 758 | | 819 | |
| 11 | 395 | 505 | 216 | 505 | 34 | 600 | 181 | 276.5 | 120 | 85 | | | 858 | | 919 | | 953 | |
| 14 | 490 | 604 | 271 | 600 | 38 | 740 | 228 | 339 | 154 | 89 | | | | | 1038 | | 1072 | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| 11 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 160 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k2
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Hollow shaft with shrink disc



| Gearbox size | Machine shaft *) | | Hollow shaft | | | Gearbox | | Cover | |
|--------------|------------------|-----|--------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
| | d | Fit | l | l ₁ | f ₅ | g ₂ | k ₁₀ | g ₃ | k ₁₁ |
| 04 | 25 30 | h6 | 142 | 122 | 26 | 72 | 146 | 79 | 41 |
| 05 | 35 | h6 | 168 | 148 | 28 | 80 | 171 | 90 | 43 |
| 06 | 40 | h6 | 194 | 164 | 30 | 90 | 197 | 100 | 49 |
| 07 | 50 | h6 | 232 | 192 | 26 | 110 | 234 | 124 | 49 |
| 09 | 65 | h6 | 278 | 228 | 30 | 141 | 281 | 159 | 52 |
| 11 | 80 | h6 | 338 | 238 | 42 | 170 | 344 | 191 | 65 |
| 14 | 100 | h6 | 407 | 307 | 55 | 215 | 415 | 253 | 78 |

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4), the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness Rz should not exceed 15 µm (turning is sufficient).

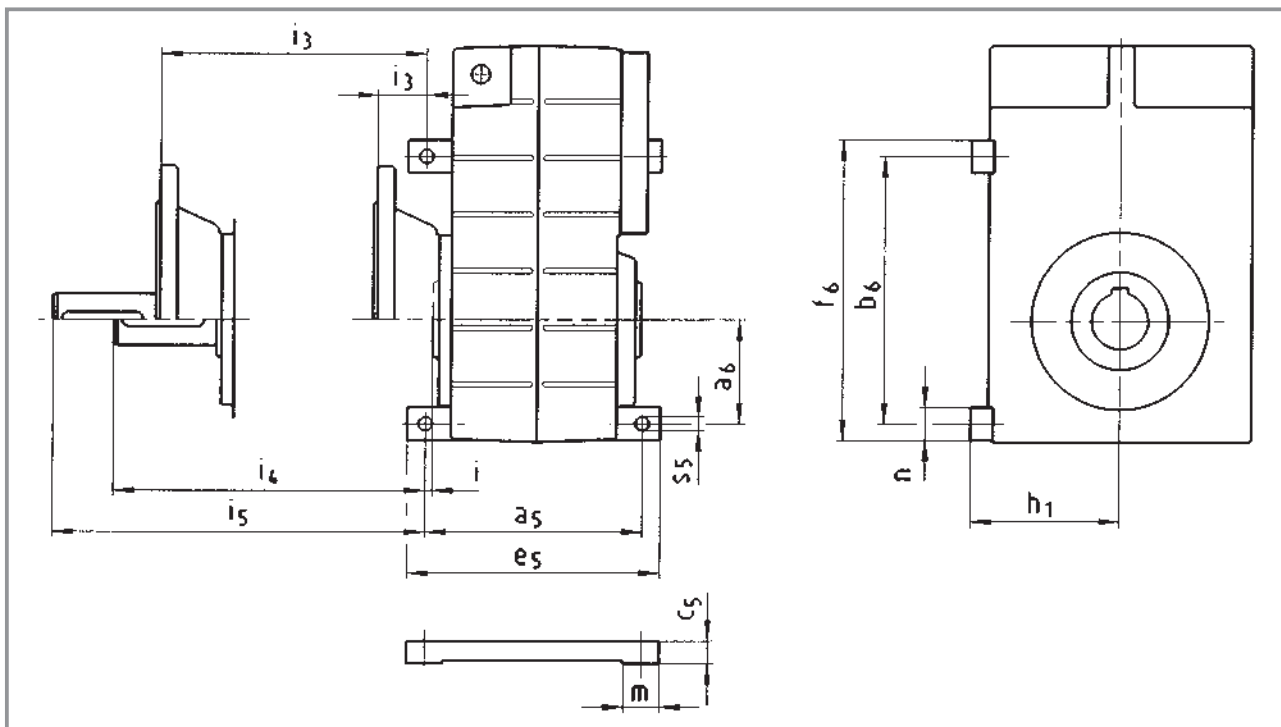
Possible combinations of shrinks discs on the drive side (position 1)

| Gearbox size | Geared motors GFL□□-2E with motor frame size | | | | | | |
|--------------|--|------|-----|------|------|------|-----|
| | 063 | 071 | 080 | 090 | 100 | 112 | 132 |
| 04 | | | | | | | |
| 05 | ● 1) | ● 1) | | | | | |
| 06 | ● | ● | ● | ● 1) | ● 1) | | |
| 07 | | | ● | ● | ● | ● 1) | |
| 09 | | | | ● | ● | ● | ● |
| 11 | | | | | ● | ● | ● |
| 14 | | | | | | ● | ● |

1) Without cover
On the GFL□□-2E with shrink disc in position 1, the 8200 motec cannot be in position 4.
All combinations are possible on the GFL□□-3E.
Dimensions in [mm]



Foot mounting in position 3

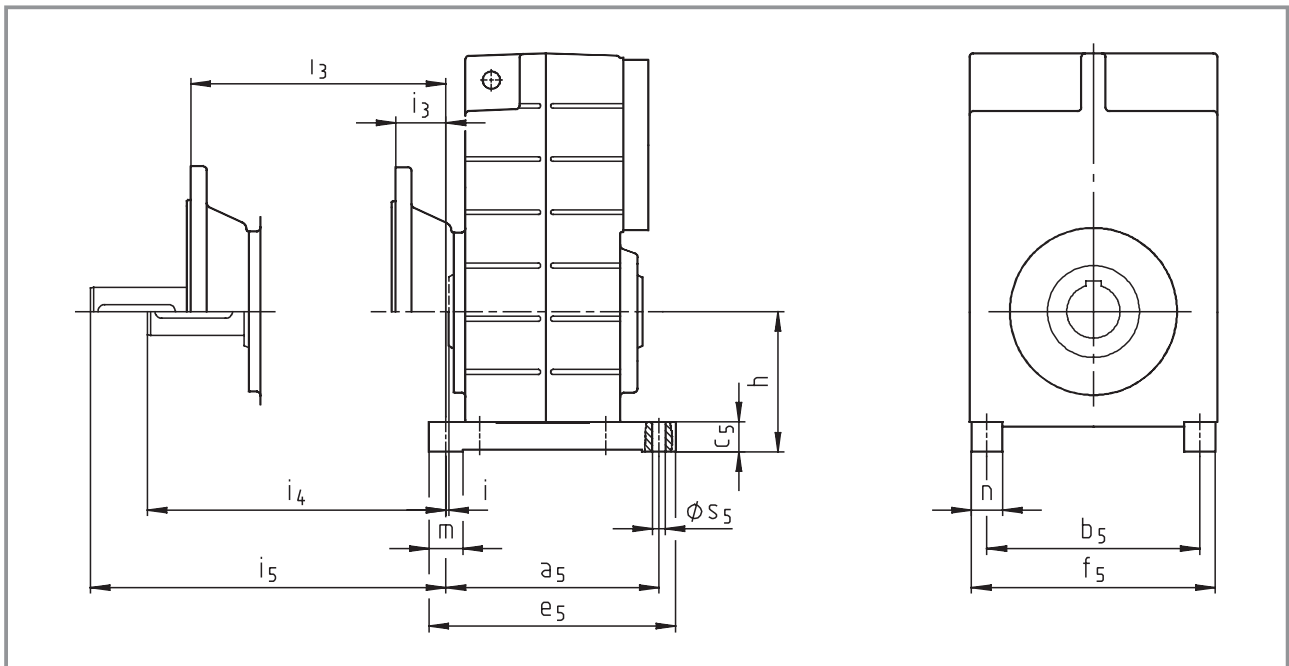


| Gearbox size | Gearbox | | | | | | Foot (in position 3) | | | | | | | | | Foot not possible on GFL□□ -2 with motor frame size |
|--------------|----------------|----------------|----------|-----------------------|-----------------------|-----------------------|----------------------|----------------|----------------|----------------|----------------|----|----|----------------|-------|---|
| | a ₆ | h ₁ | HØR i | HØK i ₃ | VØR i ₄ | VØK i ₅ | a ₅ | b ₆ | c ₅ | e ₅ | f ₆ | n | m | s ₅ | | |
| 04 | 47 | 90 | 4.5 | 28.5 | 45.5 | 78.5 | 130 | 115 | 18 | 152 | 140 | 25 | 22 | 6.6 | > 080 | |
| 05 | 65 | 100 | 2 | 31 | 58 | 91 | 160 | 167 | 21 | 185 | 192 | 25 | 25 | 9 | > 080 | |
| 06 | 80 | 125 | 2 | 39 | 78 | 119 | 175 | 205 | 27 | 205 | 233 | 28 | 30 | 11 | > 100 | |
| 07 | 100 | 155 | 3 | 52 | 97 | 152 | 220 | 260 | 31 | 255 | 292 | 32 | 35 | 13.5 | > 132 | |
| 09 | 125 | 190 | 3 | 57 | 117 | 177 | 260 | 335 | 36 | 300 | 375 | 40 | 40 | 17.5 | | |
| 11 | 155 | 240 | 3 | 57 | 157 | 217 | 315 | 435 | 48 | 365 | 485 | 50 | 50 | 22 | | |
| 14 | 200 | 295 | 3 | 57 | 197 | 257 | 375 | 540 | 57 | 430 | 600 | 60 | 55 | 26 | | |

Dimensions in [mm]

On the GFL□□ -2, the 8200 motec cannot be in position 3.

Foot mounting in position 4



4

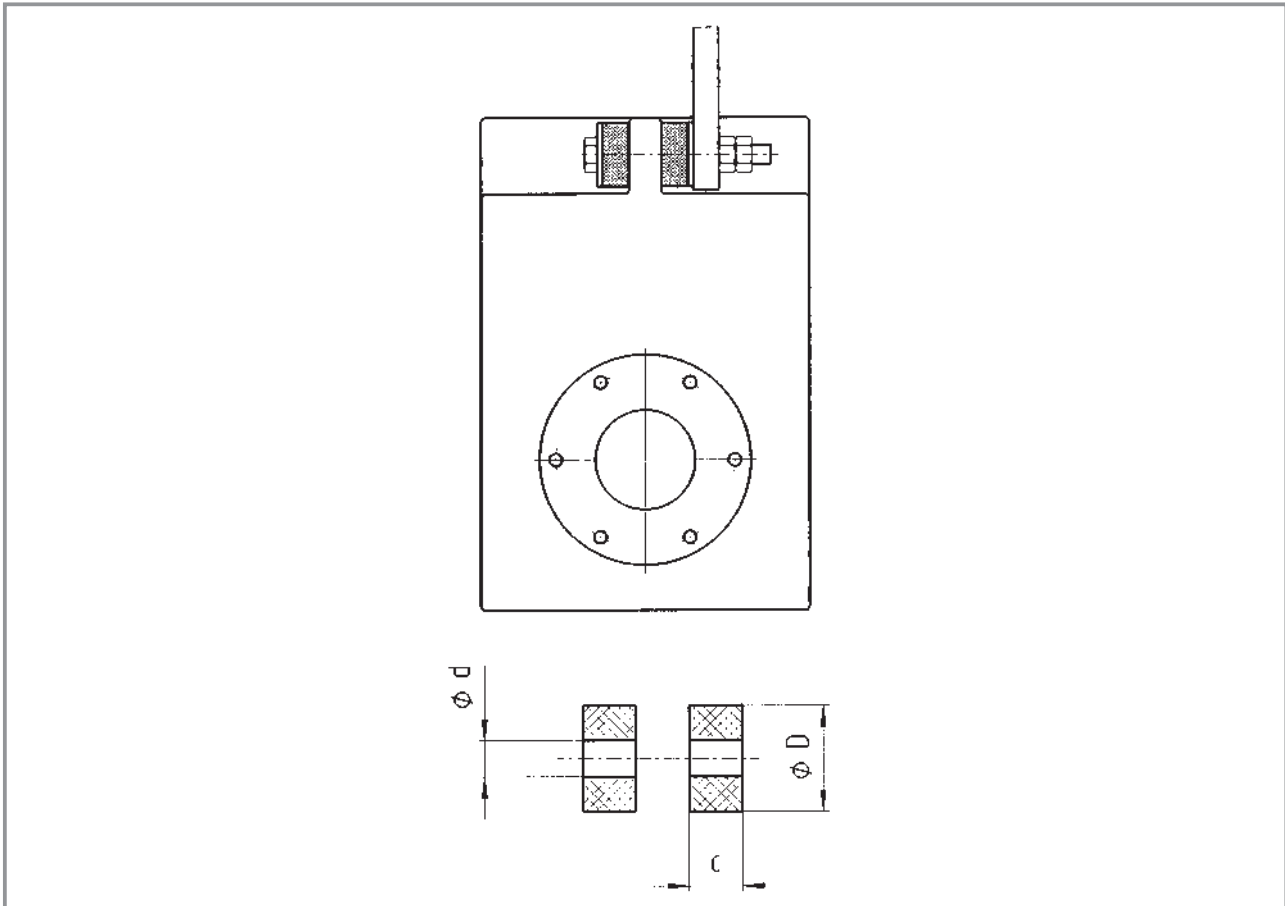
| Gearbox-size | Gearbox* | | | | | Foot (in position 4) | | | | | | | | |
|--------------|----------|----------|-----------------------|-----------------------|-----------------------|----------------------|----------------|----------------|----------------|----------------|----|----|----------------|--|
| | h | HQR i | HOK i ₃ | VQR i ₄ | VOK i ₅ | a ₅ | b ₅ | c ₅ | e ₅ | f ₅ | n | m | s ₅ | |
| 04 | 85 | 4.5 | 28.5 | 45.5 | 78.5 | 130 | 108 | 18 | 152 | 133 | 25 | 22 | 6.6 | |
| 05 | 95 | 2 | 31 | 58 | 91 | 160 | 140 | 21 | 185 | 165 | 25 | 25 | 9 | |
| 06 | 120 | 2 | 39 | 78 | 119 | 175 | 175 | 27 | 205 | 203 | 28 | 30 | 11 | |
| 07 | 145 | 3 | 52 | 97 | 152 | 220 | 220 | 31 | 255 | 252 | 32 | 35 | 13.5 | |
| 09 | 180 | 3 | 57 | 117 | 177 | 260 | 275 | 36 | 300 | 315 | 40 | 40 | 17.5 | |
| 11 | 224 | 3 | 57 | 157 | 217 | 315 | 340 | 48 | 365 | 390 | 50 | 50 | 22 | |
| 14 | 278 | 3 | 57 | 197 | 257 | 375 | 425 | 57 | 430 | 485 | 60 | 60 | 26 | |

Dimensions in [mm]

On the GFL□□ -2, the 8200 motec cannot be in position 4.



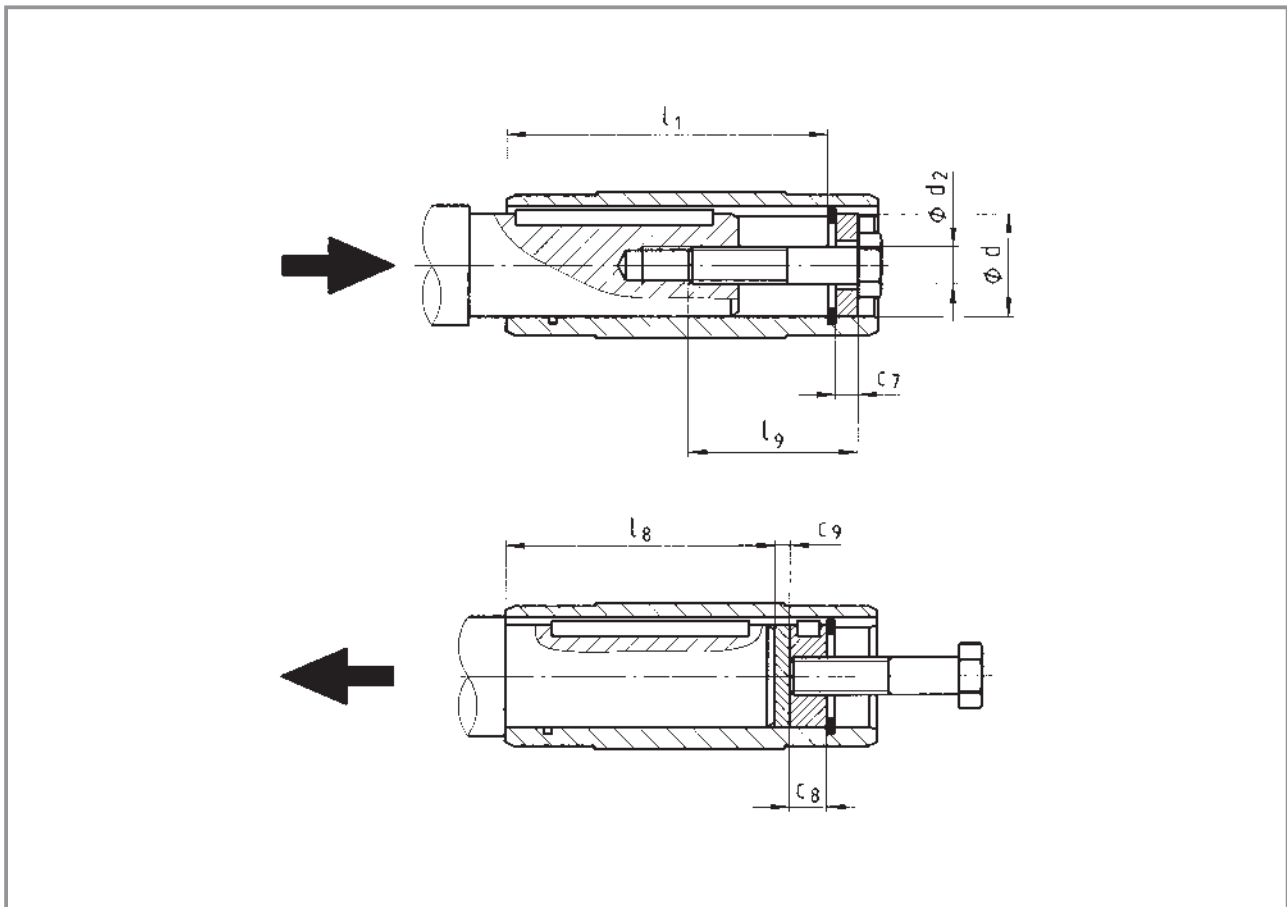
Rubber buffer set



| Gearbox size | d | D | c |
|--------------|----|----|------|
| 04 | 11 | 30 | 14.5 |
| 05 | 11 | 30 | 14.5 |
| 06 | 13 | 40 | 15 |
| 07 | 17 | 50 | 27 |
| 09 | 21 | 60 | 28 |
| 11 | 26 | 72 | 29 |
| 14 | 33 | 92 | 30 |

Dimensions in [mm]

Mounting set for hollow shaft circlip - Proposed design for auxiliary tools



| Gearbox-size | Hollow shaft (design H) | | | Mounting set for hollow shaft circlip (auxiliary tool assembly) | | | Auxiliary tool disassembly | | Machine shaft max l_8 |
|--------------|-------------------------|-------|-----------|---|----------|----------|----------------------------|-------|-------------------------|
| | l | l_1 | d H7 | d_2 | l_9 | c_7 | c_8 | c_9 | |
| 04 | 115 | 100 | 25 30 | M10 M10 | 40 | 5 6 | 10 | 3 | 85 |
| 05 | 140 | 124 | 30 35 | M10 M12 | 40 50 | 6 7 | 10 12 | 3 | 107 |
| 06 | 160 | 140 | 40 45 | M16 | 60 | 8 9 | 16 | 4 | 118 |
| 07 | 200 | 175 | 50 55 | M16 M20 | 60 80 | 10 11 | 16 20 | 5 | 148 |
| 09 | 240 | 210 | 60 70 | M20 | 80 | 13 14 | 20 | 5 | 182 |
| 11 | 290 | 250 | 70 80 | M20 | 80 | 14 16 | 20 | 6 | 221 |
| 14 | 350 | 305 | 100 | M24 | 100 | 20 | 24 | 8 | 270 |

Dimensions in [mm]





Technical data

Permissible radial and axial forces

| | |
|-----------------------|-----|
| Output _____ | 5-2 |
| Output backlash _____ | 5-4 |
| Weights _____ | 5-6 |

Selection tables

| | |
|-------------------------------------|-----|
| Geared motors with 8200 motec _____ | 5-7 |
|-------------------------------------|-----|

Dimensions

| | |
|---|------|
| Geared motors with 8200 motec _____ | 5-16 |
| Further dimensions _____ | 5-24 |
| Hollow shaft with shrink disc _____ | 5-24 |
| Gearbox with 2nd output shaft end _____ | 5-24 |
| Hoseproof hollow shaft cover _____ | 5-25 |
| Rubber buffer set for torque plate _____ | 5-25 |
| Torque plate at pitch circle _____ | 5-26 |
| Torque plate at housing foot _____ | 5-28 |
| Mounting set for hollow shaft circlip _____ | 5-28 |
| Proposed design for auxiliary tools _____ | 5-28 |

Bevel gearboxes GKR□□

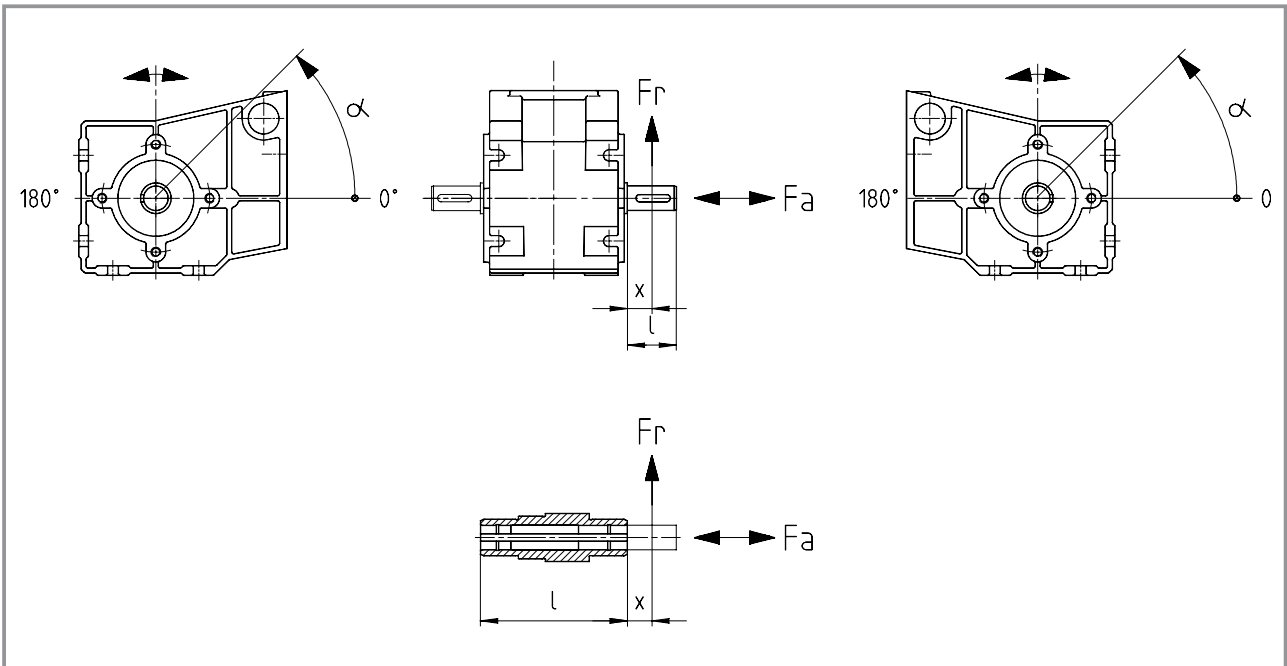
Permissible radial force

$$F_{rperm} = f_w \cdot f_\alpha \cdot F_{rTab} \leq f_w \cdot F_{rmax}$$

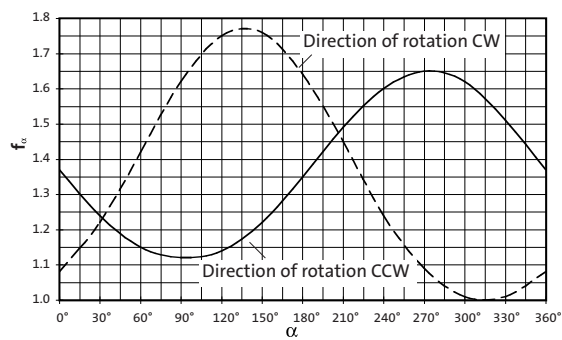
Permissible axial force

$$F_{aperm} = F_{aTab} \quad \text{at } F_r = 0$$

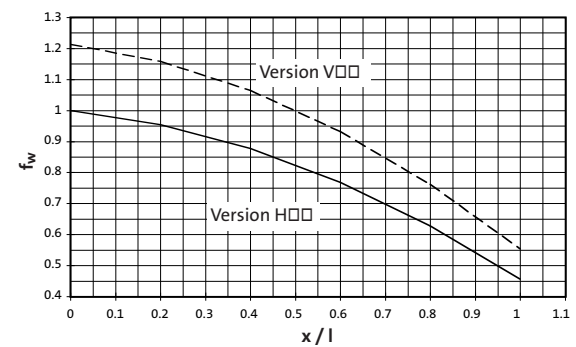
Contact Lenze if F_r and $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



Technical data - Bevel gearboxes

Permissible radial and axial forces - Output



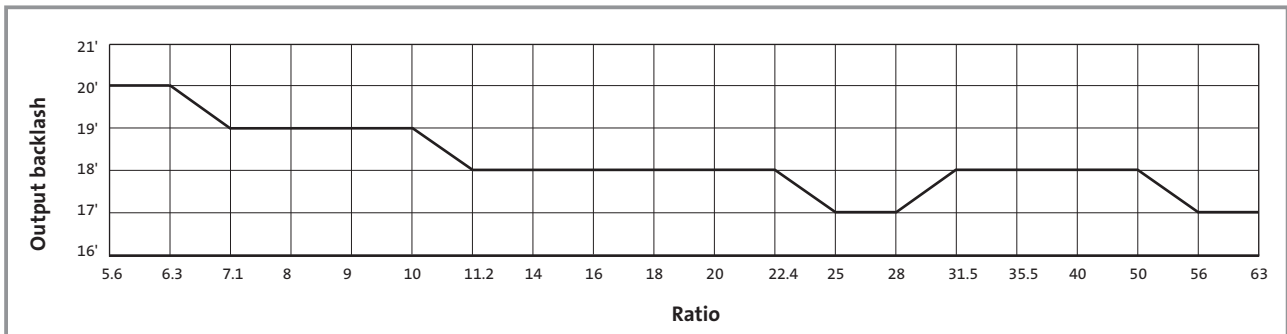
| H□□ | Hollow shaft Application of force F_r : At hollow shaft end face ($x = 0$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GKR03 | | GKR04 | | GKR05 | | GKR06 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 2200 | 1000 | 2550 | 1275 | 3800 | 1900 | 5000 | 2500 |
| 250 | 2500 | 1100 | 3000 | 1500 | 4500 | 2200 | 5200 | 2600 |
| 160 | 2800 | 1250 | 3300 | 1650 | 5100 | 2500 | 5500 | 2750 |
| 100 | 3000 | 1400 | 3600 | 1800 | 6200 | 3100 | 7000 | 3500 |
| 63 | 3000 | 1400 | 3600 | 1800 | 7400 | 3700 | 9000 | 4500 |
| 40 | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| 25 | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| ≤16 | 3000 | 1400 | 3600 | 1800 | 7800 | 3900 | 10000 | 5000 |
| F_{rmax} | 3000 | – | 3600 | – | 7800 | – | 10000 | – |

| V□□ | Solid shaft Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GKR03 | | GKR04 | | GKR05 | | GKR06 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 1800 | 1000 | 2100 | 1275 | 3000 | 1900 | 4000 | 2500 |
| 250 | 2100 | 1100 | 2500 | 1500 | 3600 | 2200 | 4200 | 2600 |
| 160 | 2400 | 1250 | 2700 | 1650 | 4500 | 2500 | 4500 | 2750 |
| 100 | 2800 | 1400 | 3000 | 1800 | 5000 | 3100 | 5600 | 3500 |
| 63 | 3000 | 1400 | 3000 | 1800 | 6000 | 3700 | 7300 | 4500 |
| 40 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 8600 | 5000 |
| 25 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| ≤16 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| F_{rmax} | 3000 | – | 3000 | – | 6500 | – | 9000 | – |

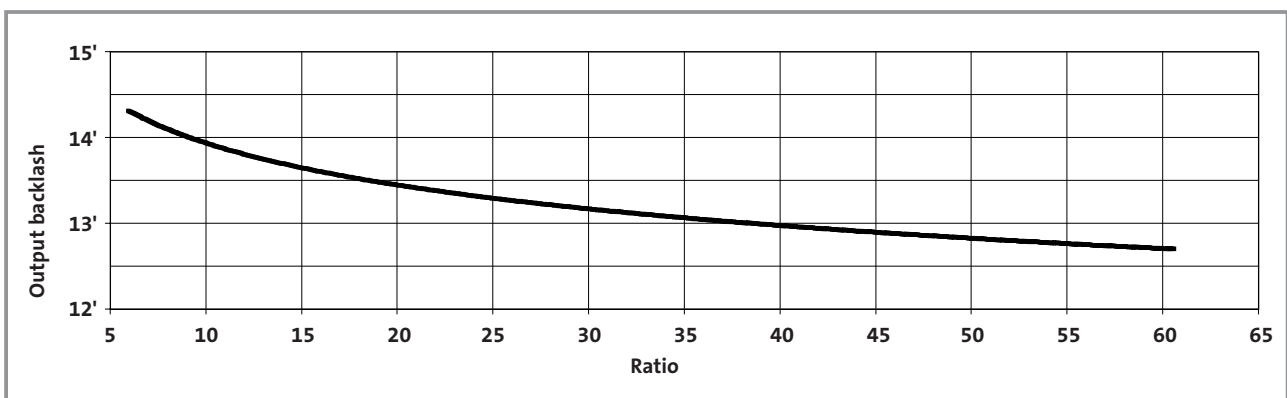
| VAK | Solid shaft Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GKR03 | | GKR04 | | GKR05 | | GKR06 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 1800 | 1000 | 2100 | 1275 | 5200 | 1900 | 5500 | 2500 |
| 250 | 2100 | 1100 | 2500 | 1500 | 6000 | 2200 | 6200 | 2600 |
| 160 | 2400 | 1250 | 2700 | 1650 | 6500 | 2500 | 7000 | 2750 |
| 100 | 2800 | 1400 | 3000 | 1800 | 6500 | 3100 | 9000 | 3500 |
| 63 | 3000 | 1400 | 3000 | 1800 | 6500 | 3700 | 9000 | 4500 |
| 40 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| 25 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| ≤16 | 3000 | 1400 | 3000 | 1800 | 6500 | 3900 | 9000 | 5000 |
| F_{rmax} | 3000 | – | 3000 | – | 6500 | – | 9000 | – |

Neither radial nor axial forces are permitted on hollow shafts with shrink discs (S□□).

GKR 03-2



GKR 04-2

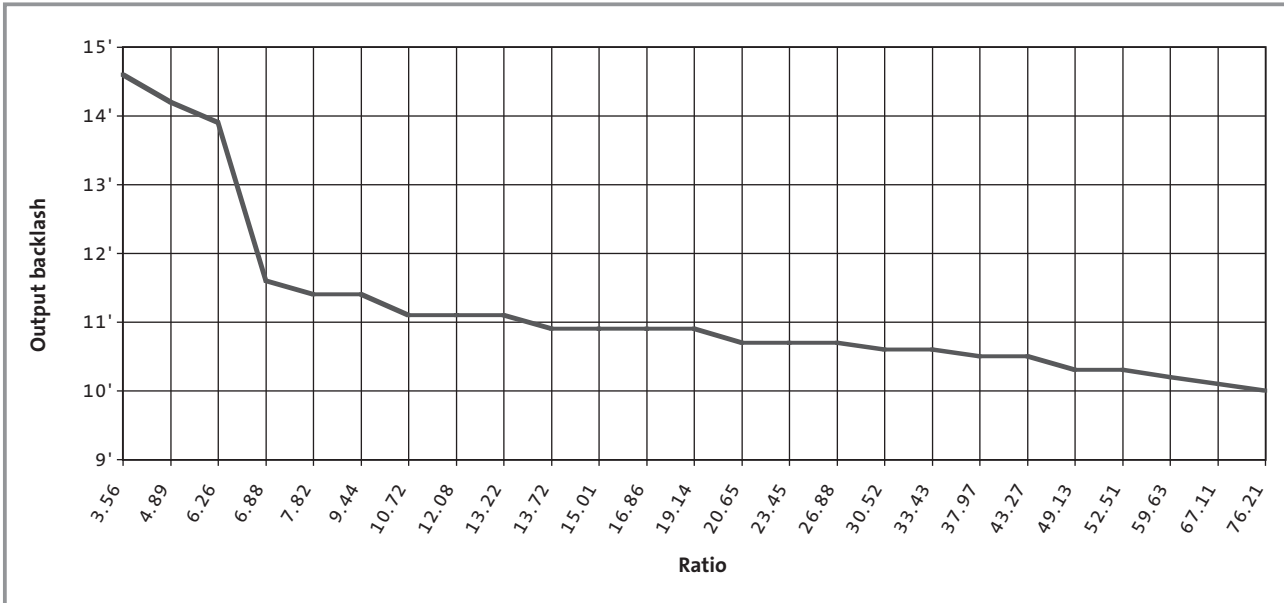


Technical data - Bevel gearboxes

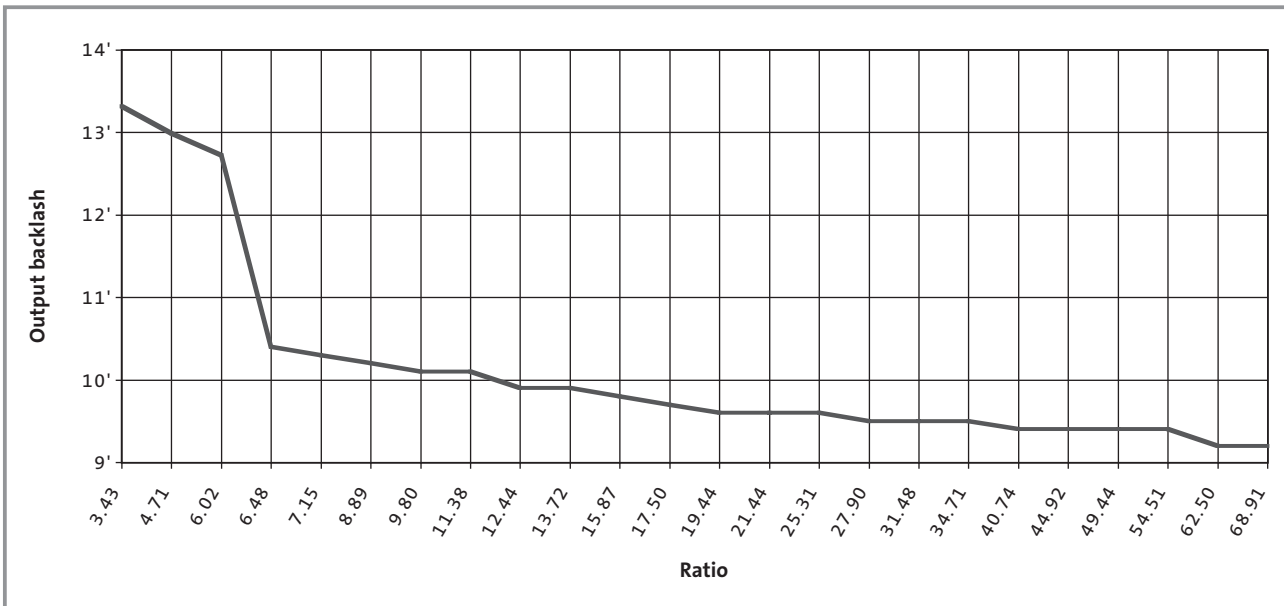
Output backlash in angular minutes



GKR 05-2



GKR 06-2



Bevel gearboxes GKR□□-2

| Geared motors GKR□□-2E H□R | Motor frame size | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 |
| | 8200 motec E82MV □□□ | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 |
| 03 | 9 | 11 | 12 | | | | | | | |
| 04 | 11 | 13 | 14 | 19 | 20 | | | | | |
| 05 | 15 | 18 | 19 | 23 | 25 | 32 | 39 | 44 | | |
| 06 | 24 | 26 | 27 | 31 | 33 | 40 | 47 | 53 | 61 | 68 |

Additional weights

| Gearbox size | Solid shaft | 2nd output shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------|-------------|----------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □AK | Pitch circle | Housing foot |
| 03 | 0.2 | 0.1 | 0.3 | 0.4 | 0.3 | |
| 04 | 0.3 | 0.1 | 0.3 | 0.5 | 0.4 | |
| 05 | 1.0 | 0.3 | 0.8 | 1.0 | 1.3 | 2.0 |
| 06 | 1.7 | 0.5 | 1.0 | 1.0 | 2.1 | 3.7 |

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Selection tables - Bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|--------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 5-16 onwards

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 14 | 8 | 39 | 7.1 | 54 | 136 | 8 | 5.6 | 237 | 4.6 | 10.466 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 12 | 9 | 36 | 7.9 | 49 | 122 | 9 | 5.1 | 213 | 5.1 | 11.640 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 11 | 10 | 33 | 8.6 | 45 | 112 | 10 | 5.0 | 195 | 5.6 | 12.698 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 11 | 10 | 31 | 9.1 | 43 | 107 | 10 | 4.4 | 185 | 5.9 | 13.386 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 9.4 | 12 | 27 | 10.3 | 38 | 94 | 12 | 3.9 | 164 | 6.6 | 15.111 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 8.2 | 13 | 24 | 11.8 | 33 | 82 | 13 | 3.4 | 143 | 7.6 | 17.378 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 7.4 | 15 | 21 | 13.2 | 29 | 74 | 15 | 3.0 | 128 | 8.5 | 19.365 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 6.4 | 17 | 19 | 15.1 | 26 | 64 | 17 | 2.6 | 111 | 9.8 | 22.270 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 5.7 | 19 | 16 | 17 | 23 | 57 | 19 | 2.4 | 99 | 11 | 25.051 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 5.0 | 22 | 14 | 20 | 20 | 50 | 22 | 2.0 | 86 | 13 | 28.808 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.4 | 25 | 13 | 22 | 17 | 44 | 25 | 1.8 | 76 | 14 | 32.593 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.8 | 29 | 11 | 25 | 15 | 38 | 29 | 1.6 | 66 | 16 | 37.481 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.9 | 28 | 11 | 25 | 16 | 39 | 28 | 3.2 | 68 | 16 | 36.707 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.4 | 32 | 9.8 | 29 | 14 | 34 | 32 | 1.4 | 59 | 19 | 42.222 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.6 | 31 | 10 | 27 | 14 | 36 | 31 | 2.9 | 62 | 18 | 40.000 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.1 | 35 | 9 | 31 | 12 | 31 | 35 | 2.6 | 54 | 20 | 46.000 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.9 | 37 | 8.5 | 33 | 12 | 29 | 37 | 1.2 | 51 | 21 | 48.556 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.7 | 40 | 7.8 | 36 | 11 | 27 | 40 | 1.7 | 47 | 23 | 52.698 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.6 | 41 | 7.7 | 37 | 11 | 26 | 41 | 1.1 | 46 | 24 | 53.889 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.4 | 46 | 6.8 | 41 | 9.4 | 24 | 46 | 1.7 | 41 | 27 | 60.603 | GKR04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.3 | 47 | 6.7 | 42 | 9.2 | 23 | 47 | 1.0 | 40 | 27 | 61.972 | GKR03 - 2E □□□ 063C12 | E82MV 251_2B |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|----|----|------|----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 22 | 7 | 64 | 6.6 | 88 | 219 | 7 | 5.4 | 382 | 4.3 | 6.222 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 19 | 9 | 56 | 7.6 | 77 | 192 | 9 | 5.1 | 334 | 4.9 | 7.111 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 17 | 10 | 48 | 8.7 | 67 | 167 | 10 | 4.5 | 290 | 5.6 | 8.178 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 15 | 11 | 43 | 9.7 | 60 | 150 | 11 | 4.1 | 261 | 6.3 | 9.101 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 13 | 13 | 38 | 11.1 | 52 | 130 | 13 | 3.6 | 227 | 7.2 | 10.466 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 12 | 14 | 34 | 12.4 | 47 | 117 | 14 | 3.2 | 204 | 8 | 11.640 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 11 | 15 | 31 | 13.5 | 43 | 108 | 15 | 3.2 | 187 | 8.7 | 12.698 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 10 | 16 | 30 | 14.3 | 41 | 102 | 16 | 2.8 | 177 | 9.2 | 13.386 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 9.4 | 18 | 27 | 16 | 37 | 94 | 18 | 3.2 | 163 | 10 | 14.603 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 9.0 | 18 | 26 | 16 | 36 | 90 | 18 | 2.5 | 157 | 10 | 15.111 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 7.9 | 21 | 23 | 19 | 31 | 79 | 21 | 2.2 | 137 | 12 | 17.378 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 7.1 | 23 | 20 | 21 | 28 | 71 | 23 | 1.9 | 123 | 13 | 19.365 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.1 | 27 | 18 | 24 | 25 | 61 | 27 | 1.7 | 107 | 15 | 22.270 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.1 | 27 | 18 | 24 | 24 | 61 | 27 | 3.3 | 106 | 15 | 22.489 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 5.5 | 30 | 16 | 27 | 22 | 55 | 30 | 1.5 | 95 | 17 | 25.051 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 5.4 | 30 | 16 | 27 | 22 | 54 | 30 | 2.9 | 94 | 17 | 25.185 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.7 | 35 | 14 | 31 | 19 | 47 | 35 | 1.3 | 82 | 20 | 28.808 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.7 | 35 | 14 | 31 | 19 | 47 | 35 | 2.6 | 82 | 20 | 28.963 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.2 | 39 | 12 | 35 | 17 | 42 | 39 | 1.2 | 73 | 22 | 32.593 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.3 | 38 | 12 | 34 | 17 | 43 | 38 | 2.4 | 74 | 22 | 31.919 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|--------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 5-16 onwards

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|----|-----|----|-----|----|----|-----|----|----|--------|-----------------------|--------------|
| 3.6 | 45 | 11 | 40 | 15 | 36 | 45 | 1.0 | 63 | 26 | 37.481 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.7 | 44 | 11 | 39 | 15 | 37 | 44 | 2.0 | 65 | 25 | 36.707 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.2 | 51 | 9.4 | 45 | 13 | 32 | 51 | 0.9 | 56 | 29 | 42.222 | GKR03 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.4 | 48 | 9.9 | 43 | 14 | 34 | 48 | 1.9 | 59 | 28 | 40.000 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.0 | 55 | 8.6 | 49 | 12 | 30 | 55 | 1.6 | 52 | 32 | 46.000 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.6 | 63 | 7.5 | 56 | 10 | 26 | 63 | 1.1 | 45 | 36 | 52.698 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.3 | 73 | 6.5 | 65 | 9.0 | 23 | 73 | 1.1 | 39 | 42 | 60.603 | GKR04 - 2E □□□ 063C32 | E82MV 251_2B |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|----|-----|------|-----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 26 | 9 | 77 | 7.6 | 106 | 264 | 9 | 4.5 | 460 | 4.9 | 5.185 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 25 | 9 | 73 | 8 | 101 | 253 | 9 | 4.4 | 441 | 5.1 | 5.411 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 22 | 10 | 64 | 9.2 | 88 | 220 | 10 | 3.9 | 383 | 5.9 | 6.222 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 19 | 12 | 56 | 10.5 | 77 | 193 | 12 | 3.7 | 335 | 6.8 | 7.111 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 17 | 14 | 49 | 12 | 67 | 168 | 14 | 3.3 | 291 | 7.8 | 8.178 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 44 | 13.4 | 60 | 151 | 15 | 3.0 | 262 | 8.7 | 9.101 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 13 | 17 | 38 | 15.4 | 52 | 131 | 17 | 2.6 | 228 | 10 | 10.466 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 34 | 17 | 47 | 118 | 19 | 2.3 | 205 | 11 | 11.640 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 11 | 21 | 31 | 19 | 43 | 108 | 21 | 4.3 | 188 | 12 | 12.698 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 10 | 22 | 30 | 19 | 41 | 104 | 22 | 4.5 | 180 | 13 | 13.216 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 10 | 22 | 30 | 20 | 41 | 102 | 22 | 2.0 | 178 | 13 | 13.386 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.1 | 25 | 26 | 22 | 37 | 91 | 25 | 4.5 | 159 | 14 | 15.008 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.1 | 25 | 26 | 22 | 36 | 91 | 25 | 1.8 | 158 | 14 | 15.111 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.9 | 29 | 23 | 26 | 32 | 79 | 29 | 1.6 | 137 | 17 | 17.378 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.7 | 30 | 22 | 26 | 31 | 77 | 30 | 3.0 | 133 | 17 | 17.889 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.1 | 32 | 21 | 29 | 28 | 71 | 32 | 1.4 | 123 | 18 | 19.365 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.0 | 32 | 20 | 29 | 28 | 70 | 32 | 2.8 | 122 | 19 | 19.556 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.2 | 37 | 18 | 33 | 25 | 62 | 37 | 1.2 | 107 | 21 | 22.270 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.1 | 37 | 18 | 33 | 24 | 61 | 37 | 2.4 | 106 | 21 | 22.489 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.5 | 42 | 16 | 37 | 22 | 55 | 42 | 1.1 | 95 | 24 | 25.051 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.4 | 42 | 16 | 37 | 22 | 54 | 42 | 2.2 | 95 | 24 | 25.185 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.8 | 48 | 14 | 42 | 19 | 48 | 48 | 0.9 | 83 | 27 | 28.808 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.7 | 48 | 14 | 43 | 19 | 47 | 48 | 1.9 | 82 | 28 | 28.963 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.5 | 51 | 13 | 45 | 18 | 45 | 51 | 4.3 | 78 | 29 | 30.522 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.2 | 54 | 12 | 48 | 17 | 42 | 54 | 0.8 | 73 | 31 | 32.593 | GKR03 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 53 | 12 | 47 | 17 | 43 | 53 | 1.7 | 75 | 30 | 31.919 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.7 | 61 | 11 | 54 | 15 | 37 | 61 | 1.5 | 65 | 35 | 36.707 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.4 | 66 | 9.9 | 59 | 14 | 34 | 66 | 1.2 | 60 | 38 | 40.000 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.0 | 76 | 8.6 | 68 | 12 | 30 | 76 | 1.2 | 52 | 44 | 46.000 | GKR04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.8 | 81 | 8.1 | 72 | 11 | 28 | 81 | 3.0 | 49 | 47 | 49.133 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.8 | 82 | 8 | 73 | 11 | 28 | 82 | 3.2 | 48 | 47 | 49.444 | GKR06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.6 | 87 | 7.6 | 77 | 10 | 26 | 87 | 2.8 | 45 | 50 | 52.510 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.5 | 90 | 7.3 | 80 | 10 | 25 | 90 | 3.2 | 44 | 52 | 54.513 | GKR06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.3 | 99 | 6.7 | 88 | 9.2 | 23 | 99 | 2.4 | 40 | 57 | 59.630 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|--------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 5-16 onwards

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|-----|-----|----|----|--------|-----------------------|--------------|
| 2.2 | 104 | 6.4 | 92 | 8.8 | 22 | 104 | 2.6 | 38 | 59 | 62.500 | GKR06 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.0 | 111 | 5.9 | 99 | 8.2 | 20 | 111 | 1.4 | 36 | 64 | 67.113 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.0 | 114 | 5.8 | 102 | 8.0 | 20 | 114 | 2.6 | 35 | 66 | 68.906 | GKR06 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.8 | 126 | 5.2 | 112 | 7.2 | 18 | 126 | 1.4 | 31 | 73 | 76.213 | GKR05 - 2E □□□ 063C42 | E82MV 251_2B |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 27 | 12 | 79 | 11 | 109 | 272 | 12 | 4.0 | 473 | 7.1 | 5.185 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 26 | 13 | 76 | 11.5 | 104 | 261 | 13 | 3.1 | 453 | 7.4 | 5.411 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 23 | 15 | 66 | 13.2 | 91 | 227 | 15 | 2.7 | 394 | 8.5 | 6.222 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 20 | 17 | 58 | 15.1 | 79 | 198 | 17 | 2.5 | 345 | 9.7 | 7.111 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 17 | 20 | 50 | 17 | 69 | 172 | 20 | 2.3 | 300 | 11 | 8.178 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 15 | 22 | 45 | 19 | 62 | 155 | 22 | 2.1 | 270 | 12 | 9.101 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 13 | 25 | 39 | 22 | 54 | 135 | 25 | 1.8 | 234 | 14 | 10.466 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 12 | 28 | 35 | 25 | 48 | 121 | 28 | 1.6 | 211 | 16 | 11.640 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 12 | 27 | 36 | 24 | 49 | 123 | 27 | 3.3 | 214 | 16 | 11.449 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 30 | 32 | 27 | 44 | 111 | 30 | 3.0 | 193 | 17 | 12.698 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 32 | 31 | 28 | 43 | 107 | 32 | 4.0 | 186 | 18 | 13.216 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 11 | 32 | 31 | 28 | 42 | 105 | 32 | 1.4 | 183 | 18 | 13.386 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.7 | 35 | 28 | 31 | 39 | 97 | 35 | 2.6 | 168 | 20 | 14.603 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.4 | 36 | 27 | 32 | 38 | 94 | 36 | 4.0 | 163 | 21 | 15.008 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.3 | 36 | 27 | 32 | 37 | 93 | 36 | 1.3 | 162 | 21 | 15.111 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 9.1 | 37 | 26 | 33 | 36 | 91 | 37 | 2.4 | 158 | 21 | 15.556 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 8.1 | 41 | 24 | 37 | 32 | 81 | 41 | 1.1 | 141 | 24 | 17.378 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 7.9 | 43 | 23 | 38 | 32 | 79 | 43 | 2.1 | 137 | 24 | 17.889 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 7.3 | 46 | 21 | 41 | 29 | 73 | 46 | 1.0 | 127 | 26 | 19.365 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 7.2 | 47 | 21 | 41 | 29 | 72 | 47 | 1.9 | 125 | 27 | 19.556 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.3 | 53 | 18 | 47 | 25 | 63 | 53 | 0.8 | 110 | 30 | 22.270 | GKR03 - 2E □□□ 071C32 | E82MV 371_2B |
| 6.3 | 54 | 18 | 48 | 25 | 63 | 54 | 1.7 | 109 | 31 | 22.489 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 5.6 | 60 | 16 | 53 | 22 | 56 | 60 | 1.5 | 97 | 34 | 25.185 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.9 | 69 | 14 | 61 | 19 | 49 | 69 | 1.3 | 85 | 40 | 28.963 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.6 | 73 | 13 | 65 | 18 | 46 | 73 | 3.3 | 80 | 42 | 30.522 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.4 | 76 | 13 | 68 | 18 | 44 | 76 | 1.2 | 77 | 44 | 31.919 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.8 | 87 | 11 | 78 | 15 | 38 | 87 | 1.0 | 67 | 50 | 36.707 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 4.2 | 80 | 12 | 71 | 17 | 42 | 80 | 3.0 | 73 | 46 | 33.433 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.5 | 95 | 10 | 85 | 14 | 35 | 95 | 0.9 | 61 | 55 | 40.000 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.7 | 90 | 11 | 80 | 15 | 37 | 90 | 2.7 | 65 | 52 | 37.967 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.5 | 97 | 10 | 86 | 14 | 35 | 97 | 3.2 | 60 | 56 | 40.741 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.1 | 110 | 8.9 | 97 | 12 | 31 | 110 | 0.8 | 53 | 63 | 46.000 | GKR04 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.3 | 103 | 9.5 | 92 | 13 | 33 | 103 | 2.3 | 57 | 59 | 43.267 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 3.1 | 107 | 9.1 | 95 | 13 | 31 | 107 | 3.2 | 55 | 61 | 44.917 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.9 | 117 | 8.3 | 104 | 11 | 29 | 117 | 2.1 | 50 | 67 | 49.133 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.9 | 118 | 8.3 | 105 | 11 | 29 | 118 | 2.8 | 50 | 68 | 49.444 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.7 | 125 | 7.8 | 111 | 11 | 27 | 125 | 1.9 | 47 | 72 | 52.510 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.6 | 130 | 7.5 | 116 | 10 | 26 | 130 | 2.8 | 45 | 75 | 54.513 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|--------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 5-16 onwards

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|-----|-----|----|-----|--------|-----------------------|--------------|
| 2.4 | 142 | 6.9 | 126 | 9.4 | 24 | 142 | 1.7 | 41 | 82 | 59.630 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.3 | 149 | 6.5 | 132 | 9.0 | 23 | 149 | 2.2 | 39 | 86 | 62.500 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.1 | 160 | 6.1 | 142 | 8.4 | 21 | 160 | 1.1 | 37 | 92 | 67.113 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |
| 2.1 | 164 | 5.9 | 146 | 8.2 | 21 | 164 | 2.2 | 36 | 94 | 68.906 | GKR06 - 2E □□□ 071C32 | E82MV 371_2B |
| 1.9 | 181 | 5.4 | 161 | 7.4 | 19 | 181 | 1.1 | 32 | 104 | 76.213 | GKR05 - 2E □□□ 071C32 | E82MV 371_2B |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 27 | 18 | 79 | 16 | 108 | 271 | 18 | 3.7 | 471 | 11 | 5.185 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 26 | 19 | 75 | 17 | 104 | 260 | 19 | 2.0 | 452 | 11 | 5.411 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 23 | 22 | 65 | 20 | 90 | 226 | 22 | 1.8 | 393 | 13 | 6.222 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 20 | 25 | 57 | 22 | 79 | 198 | 25 | 1.7 | 344 | 15 | 7.111 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 20 | 25 | 57 | 22 | 79 | 198 | 25 | 3.1 | 344 | 15 | 7.111 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 17 | 29 | 50 | 26 | 69 | 172 | 29 | 1.5 | 299 | 17 | 8.178 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 17 | 29 | 50 | 26 | 69 | 172 | 29 | 2.8 | 299 | 17 | 8.178 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 15 | 32 | 45 | 29 | 62 | 154 | 32 | 1.4 | 269 | 19 | 9.101 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 15 | 32 | 45 | 29 | 62 | 154 | 32 | 2.6 | 269 | 19 | 9.101 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 13 | 37 | 39 | 33 | 54 | 134 | 37 | 1.2 | 234 | 21 | 10.466 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 13 | 37 | 39 | 33 | 54 | 134 | 37 | 2.4 | 234 | 21 | 10.466 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 12 | 41 | 35 | 37 | 48 | 121 | 41 | 1.1 | 210 | 24 | 11.640 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 12 | 41 | 36 | 36 | 49 | 123 | 41 | 2.2 | 214 | 23 | 11.449 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 45 | 32 | 40 | 44 | 111 | 45 | 2.0 | 193 | 26 | 12.698 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 47 | 31 | 42 | 43 | 106 | 47 | 4.5 | 185 | 27 | 13.216 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 11 | 48 | 30 | 42 | 42 | 105 | 48 | 0.9 | 183 | 27 | 13.386 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.6 | 52 | 28 | 46 | 38 | 96 | 52 | 1.7 | 167 | 30 | 14.603 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.4 | 53 | 27 | 47 | 37 | 94 | 53 | 4.2 | 163 | 31 | 15.008 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.3 | 54 | 27 | 48 | 37 | 93 | 54 | 0.8 | 162 | 31 | 15.111 | GKR03 - 2E □□□ 071C42 | E82MV 551_4B |
| 9.0 | 55 | 26 | 49 | 36 | 90 | 55 | 1.6 | 157 | 32 | 15.556 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 7.9 | 64 | 23 | 57 | 31 | 79 | 64 | 1.4 | 137 | 37 | 17.889 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 7.2 | 69 | 21 | 62 | 29 | 72 | 69 | 1.3 | 125 | 40 | 19.556 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 6.3 | 80 | 18 | 71 | 25 | 63 | 80 | 1.1 | 109 | 46 | 22.489 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 6.0 | 83 | 17 | 74 | 24 | 60 | 83 | 2.9 | 104 | 48 | 23.450 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.6 | 89 | 16 | 80 | 22 | 56 | 89 | 1.0 | 97 | 51 | 25.185 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 5.2 | 96 | 15 | 85 | 21 | 52 | 96 | 2.5 | 91 | 55 | 26.878 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.9 | 103 | 14 | 92 | 19 | 49 | 103 | 0.9 | 84 | 59 | 28.963 | GKR04 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.6 | 108 | 13 | 96 | 18 | 46 | 108 | 2.2 | 80 | 62 | 30.522 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.5 | 112 | 13 | 100 | 18 | 45 | 112 | 3.2 | 78 | 64 | 31.481 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.2 | 119 | 12 | 106 | 17 | 42 | 119 | 2.0 | 73 | 68 | 33.433 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 4.1 | 123 | 12 | 110 | 16 | 41 | 123 | 3.2 | 70 | 71 | 34.708 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.7 | 135 | 11 | 120 | 15 | 37 | 135 | 1.8 | 64 | 77 | 37.967 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.5 | 145 | 10 | 129 | 14 | 35 | 145 | 2.9 | 60 | 83 | 40.741 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.3 | 154 | 9.4 | 137 | 13 | 33 | 154 | 1.6 | 57 | 88 | 43.267 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 3.1 | 160 | 9.1 | 142 | 13 | 31 | 160 | 2.8 | 54 | 92 | 44.917 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.9 | 175 | 8.3 | 155 | 11 | 29 | 175 | 1.4 | 50 | 100 | 49.133 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.8 | 176 | 8.2 | 156 | 11 | 28 | 176 | 2.4 | 49 | 101 | 49.444 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.7 | 187 | 7.8 | 166 | 11 | 27 | 187 | 1.3 | 47 | 107 | 52.510 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|--------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Bevel geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 5-16 onwards | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|-----|-----|----|-----|--------|-----------------------|--------------|
| 2.6 | 194 | 7.5 | 172 | 10 | 26 | 194 | 2.3 | 45 | 111 | 54.513 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.4 | 212 | 6.8 | 188 | 9.4 | 24 | 212 | 1.1 | 41 | 122 | 59.630 | GKR05 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.3 | 222 | 6.5 | 198 | 9.0 | 23 | 222 | 1.4 | 39 | 128 | 62.500 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 245 | 5.9 | 218 | 8.2 | 20 | 245 | 1.4 | 35 | 141 | 68.906 | GKR06 - 2E □□□ 071C42 | E82MV 551_4B |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 27 | 25 | 79 | 22 | 109 | 272 | 25 | 2.8 | 473 | 14 | 5.185 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 24 | 29 | 69 | 26 | 95 | 237 | 29 | 2.5 | 411 | 17 | 5.963 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 23 | 30 | 65 | 27 | 90 | 225 | 30 | 4.1 | 392 | 17 | 6.257 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 20 | 34 | 58 | 31 | 79 | 198 | 34 | 2.3 | 345 | 20 | 7.111 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 17 | 40 | 50 | 35 | 69 | 172 | 40 | 2.1 | 300 | 23 | 8.178 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 15 | 44 | 45 | 39 | 62 | 155 | 44 | 1.9 | 270 | 25 | 9.101 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 13 | 51 | 39 | 45 | 54 | 135 | 51 | 1.8 | 234 | 29 | 10.466 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 12 | 55 | 36 | 49 | 49 | 123 | 55 | 1.6 | 214 | 32 | 11.449 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 11 | 61 | 32 | 55 | 44 | 111 | 61 | 1.5 | 193 | 35 | 12.698 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 11 | 64 | 31 | 57 | 43 | 107 | 64 | 3.4 | 186 | 37 | 13.216 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.7 | 71 | 28 | 63 | 39 | 97 | 71 | 1.3 | 168 | 40 | 14.603 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.4 | 72 | 27 | 64 | 38 | 94 | 72 | 3.1 | 163 | 42 | 15.008 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 9.1 | 75 | 26 | 67 | 36 | 91 | 75 | 1.2 | 158 | 43 | 15.556 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.4 | 81 | 24 | 72 | 33 | 84 | 81 | 3.0 | 146 | 47 | 16.857 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 7.9 | 86 | 23 | 77 | 32 | 79 | 86 | 1.0 | 137 | 50 | 17.889 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 7.4 | 92 | 21 | 82 | 29 | 74 | 92 | 2.6 | 128 | 53 | 19.143 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 7.2 | 94 | 21 | 84 | 29 | 72 | 94 | 1.0 | 125 | 54 | 19.556 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.8 | 100 | 20 | 89 | 27 | 68 | 100 | 2.4 | 119 | 57 | 20.650 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.3 | 109 | 18 | 97 | 25 | 63 | 109 | 0.8 | 109 | 62 | 22.489 | GKR04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.0 | 113 | 17 | 101 | 24 | 60 | 113 | 2.1 | 105 | 65 | 23.450 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.3 | 130 | 15 | 115 | 21 | 53 | 130 | 1.9 | 91 | 75 | 26.878 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 5.1 | 135 | 15 | 120 | 20 | 51 | 135 | 3.3 | 88 | 77 | 27.903 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.6 | 147 | 13 | 131 | 18 | 46 | 147 | 1.6 | 80 | 85 | 30.522 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.5 | 152 | 13 | 135 | 18 | 45 | 152 | 2.9 | 78 | 87 | 31.481 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.2 | 161 | 12 | 144 | 17 | 42 | 161 | 1.5 | 73 | 93 | 33.433 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 4.1 | 168 | 12 | 149 | 16 | 41 | 168 | 2.7 | 71 | 96 | 34.708 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.7 | 183 | 11 | 163 | 15 | 37 | 183 | 1.3 | 65 | 105 | 37.967 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.5 | 197 | 10 | 175 | 14 | 35 | 197 | 2.3 | 60 | 113 | 40.741 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.3 | 209 | 9.5 | 186 | 13 | 33 | 209 | 1.1 | 57 | 120 | 43.267 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 3.1 | 217 | 9.1 | 193 | 13 | 31 | 217 | 2.1 | 55 | 125 | 44.917 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.9 | 237 | 8.3 | 211 | 11 | 29 | 237 | 1.0 | 50 | 136 | 49.133 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.9 | 239 | 8.3 | 212 | 11 | 29 | 239 | 1.9 | 50 | 137 | 49.444 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.7 | 253 | 7.8 | 226 | 11 | 27 | 253 | 0.9 | 47 | 146 | 52.510 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.6 | 263 | 7.5 | 234 | 10 | 26 | 263 | 1.7 | 45 | 151 | 54.513 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.4 | 288 | 6.9 | 256 | 9.4 | 24 | 288 | 0.8 | 41 | 165 | 59.630 | GKR05 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.3 | 302 | 6.5 | 268 | 9.0 | 23 | 302 | 1.3 | 39 | 173 | 62.500 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |
| 2.1 | 333 | 5.9 | 296 | 8.2 | 21 | 333 | 1.3 | 36 | 191 | 68.906 | GKR06 - 2E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|--------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Bevel geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 30 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 5-16 onwards | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 39 | 26 | 113 | 21 | 234 | 390 | 26 | 4.5 | 678 | 15 | 3.565 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 27 | 37 | 78 | 31 | 161 | 268 | 37 | 1.8 | 466 | 21 | 5.185 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 23 | 43 | 68 | 36 | 140 | 233 | 43 | 1.7 | 406 | 25 | 5.963 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 22 | 45 | 64 | 38 | 133 | 222 | 45 | 3.5 | 387 | 26 | 6.257 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 20 | 51 | 57 | 43 | 117 | 196 | 51 | 1.5 | 340 | 29 | 7.111 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 17 | 59 | 49 | 49 | 102 | 170 | 59 | 1.4 | 296 | 34 | 8.178 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 15 | 65 | 44 | 55 | 92 | 153 | 65 | 1.3 | 266 | 38 | 9.101 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 15 | 68 | 43 | 57 | 88 | 147 | 68 | 2.8 | 256 | 39 | 9.440 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 13 | 75 | 39 | 63 | 80 | 133 | 75 | 1.2 | 231 | 43 | 10.466 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 13 | 77 | 38 | 65 | 78 | 130 | 77 | 2.6 | 226 | 44 | 10.720 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 12 | 82 | 35 | 69 | 73 | 121 | 82 | 1.1 | 211 | 47 | 11.449 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 91 | 32 | 77 | 66 | 110 | 91 | 1.0 | 190 | 52 | 12.698 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 12 | 87 | 33 | 73 | 69 | 115 | 87 | 2.4 | 200 | 50 | 12.081 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 11 | 95 | 31 | 80 | 63 | 105 | 95 | 2.3 | 183 | 55 | 13.216 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.5 | 105 | 28 | 88 | 57 | 95 | 105 | 0.9 | 166 | 60 | 14.603 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 10 | 99 | 29 | 83 | 61 | 101 | 99 | 2.2 | 176 | 57 | 13.719 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 9.3 | 108 | 27 | 91 | 56 | 93 | 108 | 2.1 | 161 | 62 | 15.008 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 8.9 | 112 | 26 | 94 | 54 | 89 | 112 | 0.8 | 155 | 64 | 15.556 | GKR04 - 2E □□□ 080C42 | E82MV 152_4B |
| 8.3 | 121 | 24 | 102 | 50 | 83 | 121 | 2.0 | 143 | 70 | 16.857 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 7.3 | 137 | 21 | 115 | 44 | 73 | 137 | 1.7 | 126 | 79 | 19.143 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.7 | 148 | 20 | 125 | 40 | 67 | 148 | 1.6 | 117 | 85 | 20.650 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 7.2 | 140 | 21 | 117 | 43 | 72 | 140 | 3.2 | 124 | 80 | 19.444 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.9 | 168 | 17 | 141 | 36 | 59 | 168 | 1.4 | 103 | 97 | 23.450 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 6.5 | 154 | 19 | 129 | 39 | 65 | 154 | 2.9 | 113 | 88 | 21.438 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.2 | 193 | 15 | 162 | 31 | 52 | 193 | 1.2 | 90 | 111 | 26.878 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.5 | 182 | 16 | 153 | 33 | 55 | 182 | 2.5 | 96 | 104 | 25.309 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 5.0 | 200 | 14 | 168 | 30 | 50 | 200 | 2.2 | 87 | 115 | 27.903 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.6 | 219 | 13 | 184 | 27 | 46 | 219 | 1.1 | 79 | 126 | 30.522 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.4 | 226 | 13 | 190 | 27 | 44 | 226 | 2.0 | 77 | 130 | 31.481 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.2 | 240 | 12 | 202 | 25 | 42 | 240 | 1.0 | 72 | 138 | 33.433 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 4.0 | 249 | 12 | 209 | 24 | 40 | 249 | 1.8 | 70 | 143 | 34.708 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.7 | 273 | 11 | 229 | 22 | 37 | 273 | 0.9 | 64 | 157 | 37.967 | GKR05 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.4 | 293 | 9.9 | 246 | 20 | 34 | 293 | 1.5 | 59 | 168 | 40.741 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 323 | 9 | 271 | 19 | 31 | 323 | 1.4 | 54 | 185 | 44.917 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.8 | 355 | 8.2 | 298 | 17 | 28 | 355 | 1.3 | 49 | 204 | 49.444 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |
| 2.6 | 391 | 7.4 | 329 | 15 | 26 | 391 | 1.2 | 44 | 225 | 54.513 | GKR06 - 2E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|--------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Bevel geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 5-16 onwards | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 39 | 35 | 113 | 31 | 156 | 390 | 35 | 3.9 | 678 | 20 | 3.565 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 27 | 51 | 78 | 45 | 107 | 268 | 51 | 1.4 | 466 | 29 | 5.185 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 28 | 48 | 82 | 43 | 114 | 284 | 48 | 3.1 | 495 | 28 | 4.889 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 23 | 58 | 68 | 52 | 93 | 233 | 58 | 1.2 | 406 | 34 | 5.963 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 22 | 61 | 64 | 55 | 89 | 222 | 61 | 2.5 | 387 | 35 | 6.257 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 20 | 70 | 57 | 62 | 78 | 196 | 70 | 1.1 | 340 | 40 | 7.111 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 20 | 67 | 59 | 60 | 81 | 202 | 67 | 2.7 | 351 | 39 | 6.883 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 17 | 80 | 49 | 71 | 68 | 170 | 80 | 1.0 | 296 | 46 | 8.178 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 18 | 77 | 52 | 68 | 71 | 178 | 77 | 2.4 | 309 | 44 | 7.817 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 89 | 44 | 79 | 61 | 153 | 89 | 0.9 | 266 | 51 | 9.101 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 15 | 92 | 43 | 82 | 59 | 147 | 92 | 2.1 | 256 | 53 | 9.440 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 13 | 103 | 39 | 91 | 53 | 133 | 103 | 0.9 | 231 | 59 | 10.466 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 13 | 105 | 38 | 93 | 52 | 130 | 105 | 1.9 | 226 | 60 | 10.720 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 112 | 35 | 100 | 49 | 121 | 112 | 0.8 | 211 | 64 | 11.449 | GKR04 - 2E □□□ 090C32 | E82MV 152_4B |
| 12 | 118 | 33 | 105 | 46 | 115 | 118 | 1.8 | 200 | 68 | 12.081 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 11 | 129 | 31 | 115 | 42 | 105 | 129 | 1.7 | 183 | 74 | 13.216 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 10 | 134 | 29 | 120 | 41 | 101 | 134 | 1.6 | 176 | 77 | 13.719 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 10 | 134 | 29 | 120 | 41 | 101 | 134 | 3.2 | 176 | 77 | 13.720 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 9.3 | 147 | 27 | 131 | 37 | 93 | 147 | 1.5 | 161 | 84 | 15.008 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 8.3 | 165 | 24 | 147 | 33 | 83 | 165 | 1.5 | 143 | 95 | 16.857 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 8.8 | 155 | 25 | 138 | 35 | 88 | 155 | 2.9 | 152 | 89 | 15.873 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.3 | 187 | 21 | 167 | 29 | 73 | 187 | 1.3 | 126 | 108 | 19.143 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.9 | 171 | 23 | 152 | 32 | 79 | 171 | 2.6 | 138 | 98 | 17.500 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.7 | 202 | 20 | 180 | 27 | 67 | 202 | 1.2 | 117 | 116 | 20.650 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 7.2 | 190 | 21 | 169 | 29 | 72 | 190 | 2.4 | 124 | 109 | 19.444 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.9 | 230 | 17 | 204 | 24 | 59 | 230 | 1.0 | 103 | 132 | 23.450 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 6.5 | 210 | 19 | 187 | 26 | 65 | 210 | 2.1 | 113 | 121 | 21.438 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.2 | 263 | 15 | 234 | 21 | 52 | 263 | 0.9 | 90 | 151 | 26.878 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.5 | 248 | 16 | 221 | 22 | 55 | 248 | 1.8 | 96 | 142 | 25.309 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 5.0 | 273 | 14 | 243 | 20 | 50 | 273 | 1.6 | 87 | 157 | 27.903 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.6 | 299 | 13 | 266 | 18 | 46 | 299 | 0.8 | 79 | 172 | 30.522 | GKR05 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.4 | 308 | 13 | 274 | 18 | 44 | 308 | 1.5 | 77 | 177 | 31.481 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 4.0 | 340 | 12 | 302 | 16 | 40 | 340 | 1.3 | 70 | 195 | 34.708 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.4 | 399 | 9.9 | 355 | 14 | 34 | 399 | 1.1 | 59 | 229 | 40.741 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 3.1 | 440 | 9 | 391 | 12 | 31 | 440 | 1.0 | 54 | 253 | 44.917 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.8 | 484 | 8.2 | 431 | 11 | 28 | 484 | 0.9 | 49 | 278 | 49.444 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |
| 2.6 | 534 | 7.4 | 475 | 10 | 26 | 534 | 0.8 | 44 | 307 | 54.513 | GKR06 - 2E □□□ 090C32 | E82MV 152_4B |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|----|-----|-----|----|-----|-----|-----|-----|-----|----|-------|-----------------------|--------------|
| 40 | 49 | 117 | 44 | 162 | 404 | 49 | 2.8 | 703 | 28 | 3.565 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 29 | 68 | 85 | 60 | 118 | 295 | 68 | 2.2 | 513 | 39 | 4.889 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 23 | 87 | 67 | 77 | 92 | 230 | 87 | 1.8 | 400 | 50 | 6.257 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 21 | 95 | 61 | 85 | 84 | 209 | 95 | 1.9 | 364 | 55 | 6.883 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 18 | 108 | 53 | 96 | 74 | 184 | 108 | 1.7 | 321 | 62 | 7.817 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Bevel geared motor | 8200 motec |
|---|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|--------------------|------------|
| Motor cooling with integral fan ^{*)} | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 5-16 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 15 | 131 | 44 | 116 | 61 | 153 | 131 | 1.5 | 265 | 75 | 9.440 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 149 | 39 | 132 | 54 | 134 | 149 | 1.4 | 234 | 85 | 10.720 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 15 | 136 | 43 | 121 | 59 | 147 | 136 | 2.8 | 256 | 78 | 9.800 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 158 | 37 | 140 | 51 | 127 | 158 | 2.8 | 220 | 91 | 11.376 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 12 | 167 | 35 | 149 | 48 | 119 | 167 | 1.2 | 207 | 96 | 12.081 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 12 | 173 | 34 | 154 | 46 | 116 | 173 | 2.6 | 201 | 99 | 12.444 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 183 | 32 | 163 | 44 | 109 | 183 | 1.2 | 190 | 105 | 13.216 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 190 | 30 | 169 | 42 | 105 | 190 | 1.1 | 183 | 109 | 13.719 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 11 | 190 | 30 | 169 | 42 | 105 | 190 | 2.2 | 183 | 109 | 13.720 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.6 | 208 | 28 | 185 | 38 | 96 | 208 | 1.1 | 167 | 120 | 15.008 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.5 | 234 | 25 | 208 | 34 | 85 | 234 | 1.0 | 149 | 134 | 16.857 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.1 | 220 | 26 | 196 | 36 | 91 | 220 | 2.0 | 158 | 126 | 15.873 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.5 | 265 | 22 | 236 | 30 | 75 | 265 | 0.9 | 131 | 152 | 19.143 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.2 | 243 | 24 | 216 | 33 | 82 | 243 | 1.9 | 143 | 139 | 17.500 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.0 | 286 | 20 | 255 | 28 | 70 | 286 | 0.8 | 121 | 164 | 20.650 | GKR05 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.4 | 270 | 21 | 240 | 30 | 74 | 270 | 1.7 | 129 | 155 | 19.444 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.7 | 297 | 19 | 264 | 27 | 67 | 297 | 1.5 | 117 | 171 | 21.438 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.7 | 351 | 17 | 312 | 23 | 57 | 351 | 1.3 | 99 | 202 | 25.309 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.2 | 387 | 15 | 344 | 21 | 52 | 387 | 1.2 | 90 | 222 | 27.903 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.6 | 436 | 13 | 388 | 18 | 46 | 436 | 1.0 | 80 | 251 | 31.481 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.2 | 481 | 12 | 428 | 17 | 42 | 481 | 0.9 | 72 | 276 | 34.708 | GKR06 - 2E □□□ 100C12 | E82MV 222_4B |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 40 | 68 | 116 | 60 | 160 | 401 | 68 | 2.0 | 698 | 39 | 3.565 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 42 | 65 | 121 | 58 | 167 | 417 | 65 | 3.1 | 725 | 38 | 3.431 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 29 | 93 | 85 | 83 | 117 | 293 | 93 | 1.6 | 509 | 53 | 4.889 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 30 | 90 | 88 | 80 | 122 | 304 | 90 | 2.8 | 529 | 51 | 4.706 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 23 | 119 | 66 | 106 | 91 | 229 | 119 | 1.3 | 398 | 68 | 6.257 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 24 | 115 | 69 | 102 | 95 | 237 | 115 | 2.4 | 413 | 66 | 6.022 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 22 | 123 | 64 | 110 | 88 | 221 | 123 | 2.8 | 384 | 71 | 6.481 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 21 | 131 | 60 | 117 | 83 | 208 | 131 | 1.4 | 361 | 75 | 6.883 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 20 | 136 | 58 | 121 | 80 | 200 | 136 | 2.6 | 348 | 78 | 7.146 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 18 | 149 | 53 | 132 | 73 | 183 | 149 | 1.3 | 318 | 86 | 7.817 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 15 | 180 | 44 | 160 | 61 | 152 | 180 | 1.1 | 264 | 103 | 9.440 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 16 | 169 | 47 | 151 | 64 | 161 | 169 | 2.4 | 280 | 97 | 8.889 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 13 | 204 | 39 | 182 | 53 | 133 | 204 | 1.0 | 232 | 117 | 10.720 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 15 | 187 | 42 | 166 | 58 | 146 | 187 | 2.1 | 254 | 107 | 9.800 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 13 | 217 | 36 | 193 | 50 | 126 | 217 | 2.0 | 219 | 124 | 11.376 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 12 | 230 | 34 | 205 | 47 | 118 | 230 | 0.9 | 206 | 132 | 12.081 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 237 | 33 | 211 | 46 | 115 | 237 | 1.9 | 200 | 136 | 12.444 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 11 | 252 | 31 | 224 | 43 | 108 | 252 | 0.9 | 188 | 145 | 13.216 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 10 | 261 | 30 | 232 | 42 | 104 | 261 | 0.8 | 181 | 150 | 13.719 | GKR05 - 2E □□□ 100C32 | E82MV 302_4B |
| 10 | 261 | 30 | 232 | 42 | 104 | 261 | 1.6 | 181 | 150 | 13.720 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 9.0 | 302 | 26 | 269 | 36 | 90 | 302 | 1.5 | 157 | 174 | 15.873 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 8.2 | 333 | 24 | 296 | 33 | 82 | 333 | 1.4 | 142 | 191 | 17.500 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

^{*)} Observe current derating (see page 2-2)

Selection tables - Bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan ^{*)} | | | i | Bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---|------------------------|--|---|--------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 5-16 onwards

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 7.4 | 370 | 21 | 329 | 29 | 74 | 370 | 1.2 | 128 | 213 | 19.444 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 6.7 | 408 | 19 | 363 | 27 | 67 | 408 | 1.1 | 116 | 234 | 21.438 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.7 | 482 | 16 | 429 | 23 | 57 | 482 | 0.9 | 98 | 277 | 25.309 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |
| 5.1 | 531 | 15 | 473 | 20 | 51 | 531 | 0.8 | 89 | 305 | 27.903 | GKR06 - 2E □□□ 100C32 | E82MV 302_4B |

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 42 | 86 | 123 | 74 | 169 | 423 | 86 | 2.3 | 735 | 49 | 3.431 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 31 | 118 | 89 | 101 | 123 | 308 | 118 | 2.1 | 536 | 68 | 4.706 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 24 | 151 | 70 | 130 | 96 | 241 | 151 | 1.9 | 419 | 87 | 6.022 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 22 | 162 | 65 | 140 | 89 | 224 | 162 | 2.2 | 389 | 93 | 6.481 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 20 | 179 | 59 | 154 | 81 | 203 | 179 | 1.9 | 353 | 103 | 7.146 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 16 | 223 | 47 | 191 | 65 | 163 | 223 | 1.8 | 284 | 128 | 8.889 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 15 | 245 | 43 | 211 | 59 | 148 | 245 | 1.6 | 257 | 141 | 9.800 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 285 | 37 | 245 | 51 | 128 | 285 | 1.5 | 222 | 164 | 11.376 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 12 | 311 | 34 | 268 | 47 | 117 | 311 | 1.4 | 203 | 179 | 12.444 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 11 | 343 | 31 | 295 | 42 | 106 | 343 | 1.2 | 184 | 197 | 13.720 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.1 | 397 | 26 | 342 | 37 | 91 | 397 | 1.1 | 159 | 228 | 15.873 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.3 | 438 | 24 | 377 | 33 | 83 | 438 | 1.0 | 144 | 252 | 17.500 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.5 | 487 | 22 | 419 | 30 | 75 | 487 | 0.9 | 130 | 280 | 19.444 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.8 | 537 | 20 | 461 | 27 | 68 | 537 | 0.8 | 118 | 308 | 21.438 | GKR06 - 2E □□□ 112C22 | E82MV 402_4B |

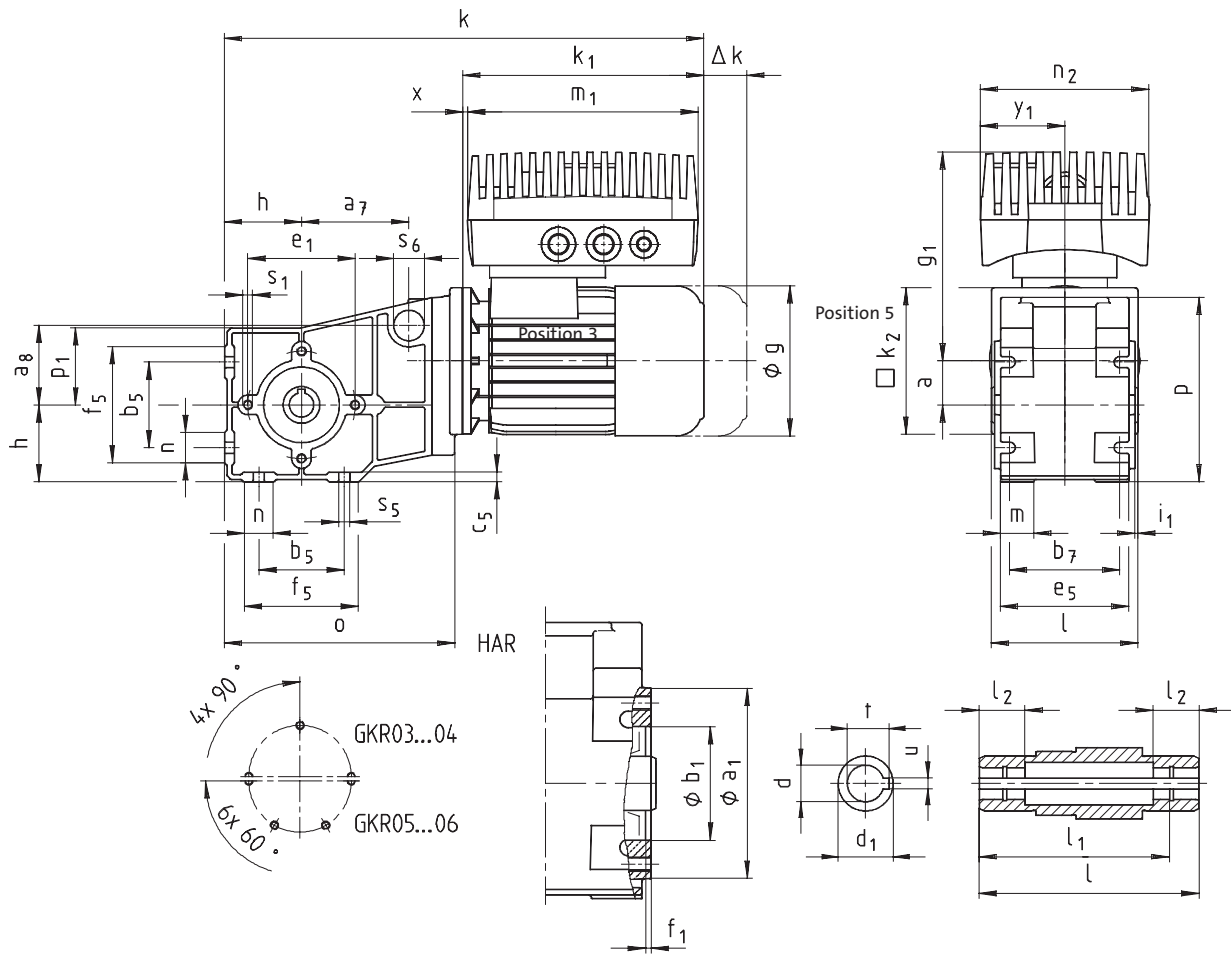
P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 42 | 119 | 122 | 102 | 168 | 421 | 119 | 1.7 | 733 | 68 | 3.431 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 31 | 163 | 89 | 140 | 123 | 307 | 163 | 1.5 | 534 | 93 | 4.706 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 24 | 208 | 70 | 179 | 96 | 240 | 208 | 1.3 | 417 | 120 | 6.022 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 22 | 224 | 65 | 192 | 89 | 223 | 224 | 1.6 | 388 | 129 | 6.481 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 20 | 247 | 59 | 212 | 81 | 202 | 247 | 1.4 | 352 | 142 | 7.146 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 16 | 307 | 47 | 264 | 65 | 163 | 307 | 1.3 | 283 | 176 | 8.889 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 15 | 338 | 43 | 291 | 59 | 147 | 338 | 1.1 | 257 | 194 | 9.800 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 393 | 37 | 338 | 51 | 127 | 393 | 1.1 | 221 | 226 | 11.376 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 12 | 430 | 34 | 370 | 46 | 116 | 430 | 1.0 | 202 | 247 | 12.444 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 11 | 474 | 31 | 407 | 42 | 105 | 474 | 0.9 | 183 | 272 | 13.720 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.1 | 548 | 26 | 471 | 36 | 91 | 548 | 0.8 | 158 | 315 | 15.873 | GKR06 - 2E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

^{*)} Observe current derating (see page 2-2)

GKR□□ - 2E H□R



Dimensions - Bevel gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | | | | | | |
|-----------------------|------------------------------|----------------------|----------------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|-----|--|-----|--|-----|--|
| GKR□□ - 2E H□R | | 8200 motec E82MV□□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | | | | | | |
| | k ₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 363 | | | | | | | |
| | From gearbox size 04 | k ₂ | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | | | | | | |
| 8200 motec | g ₁ | | 171 | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | | 278 | |
| | g ₁ ¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | 190 | | 202 | | 202 | | 230 | | 230 | | 230 | | 327 | | 327 | |
| | n ₂ | | 138 | | 138 | | 156 | | 156 | | 176 | | 176 | | 176 | | 213 | | 213 | |
| | x | | 20 | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | |
| | y ₁ | | 69 | | 69 | | 78 | | 78 | | 88 | | 88 | | 88 | | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | | | | | |
| | l* | p* | p ₁ | a | h | o | | | | | | | | | | | | | | |
| 03 | 100 | 117 | 48 | 29 | 50 | 142 | 332 | | 352 | | | | | | | | | | | |
| 04 | 120 | 151 | 63 | 36 | 63 | 189 | 383 | | 403 | | 425 | | 486 | | | | | | | |
| 05 | 143 | 181 | 82 | 40 | 80 | 251 | 437 | | 456 | | 479 | | 540 | | 573 | | | | | |
| 06 | 170 | 226 | 100 | 51 | 100 | 307 | 488 | | 508 | | 530 | | 591 | | 625 | | 641 | | 685 | |

| Gearbox size | d ³⁾ H7 | l | Hollow shaft | | | | | t ²⁾ +0.1 | Pitch circle | | | | | |
|--------------|-----------------------|-----|----------------|----------------|----------------|----------|----------------|-------------------------|----------------------|----------------|----------------|----------------|----------------|--|
| | | | d ₁ | l ₁ | l ₂ | u JS9 | a ₁ | | b ₁ J7 | e ₁ | f ₁ | i ₁ | s ₁ | |
| 03 | 18 20 | 100 | 30 | 85 | 22 | 6 | 20.8 22.8 | 85 | 55 | 70 | 2.5 | 2.5 | M6x12 | |
| 04 | 20 25 | 120 | 30 35 | 105 | 25 | 6 8 | 22.8 27.0 | 104 | 62 | 88 | 3 | 2.5 | M8x16 | |
| 05 | 30 35 | 143 | 50 | 127 | 25 | 8 10 | 33.3 38.3 | 116 | 80 | 100 | 4 | 4 | M8x15 | |
| 06 | 40 45 | 170 | 65 | 150 | 30 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x22 | |

| Gearbox size | Foot | | | | | | | | Torque plate | | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|----------------|----------------|----------------|--|
| | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | n | m | s ₅ | a ₇ | a ₈ | s ₆ | |
| 03 | 60 | 75 | 7 | 90 | 80 | 20 | 22 | 6.6 | 66 | 39 | 25x12 | |
| 04 | 70 | 90 | 8 | 105 | 95 | 25 | 28 | 9 | 88 | 65 | 25x17 | |
| 05 | 100 | 100 | 11 | 115 | 138 | 48 | 27 | 9 | - | - | - | |
| 06 | 120 | 125 | 12 | 145 | 164 | 53 | 32 | 11 | - | - | - | |

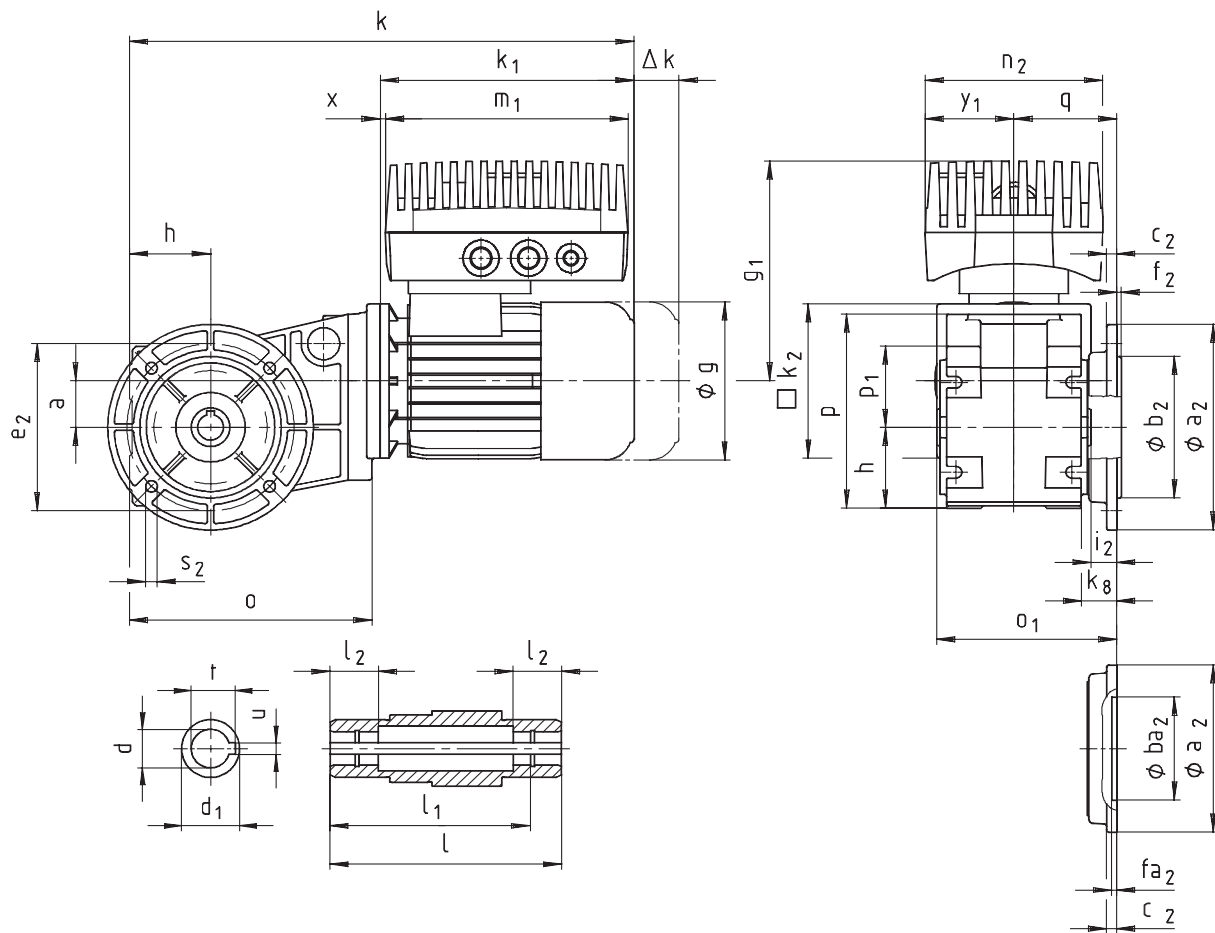
Dimensions in [mm] * Please note dimension k₂ ** See chapter 8 for more built-on accessories

¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

²⁾ If the hollow shaft diameter d = 25 mm, use a featherkey to DIN 6885/3

³⁾ Only for the range l₂

GKR□□ - 2E HAK



Dimensions - Bevel gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | | | | | | | | |
|-----------------------|------------------------------|----------------------|----------------|--------|--------|----------------|--------|--------|----------------|--------|--------|--------|--------|--------|-----|--|-----|--|-----|--|-----|--|
| GKR□□ - 2E HAK | | 8200 motec E82MV□□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | | | | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | | | | | | | | |
| | k ₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 363 | | | | | | | | | |
| | From gearbox size 04 | k ₂ | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | | | | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | | | | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | | | | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | | | | | | | | |
| 8200 motec | g ₁ | | 171 | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | | 278 | | | |
| | g ₁ ¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | 190 | | 202 | | 202 | | 230 | | 230 | | 230 | | 327 | | 327 | | | |
| | n ₂ | | 138 | | 138 | | 156 | | 156 | | 176 | | 176 | | 176 | | 213 | | 213 | | | |
| | x | | 20 | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | | | |
| | y ₁ | | 69 | | 69 | | 78 | | 78 | | 88 | | 88 | | 88 | | 107 | | 107 | | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | | | | | | | |
| | o ₁ * | p* | p ₁ | a | h | k ₈ | o | q | | | | | | | | | | | | | | |
| 03 | 130 | 117 | 48 | 29 | 50 | 35 | 142 | 80 | 332 | | 352 | | | | | | | | | | | |
| 04 | 140 | 151 | 63 | 36 | 63 | 28 | 189 | 80 | 383 | | 403 | | 425 | | 486 | | | | | | | |
| 05 | 177 | 181 | 82 | 40 | 80 | 47 | 251 | 105 | 437 | | 456 | | 479 | | 540 | | 573 | | | | | |
| 06 | 212 | 226 | 100 | 51 | 100 | 54 | 307 | 126.5 | 488 | | 508 | | 530 | | 591 | | 625 | | 641 | | 685 | |

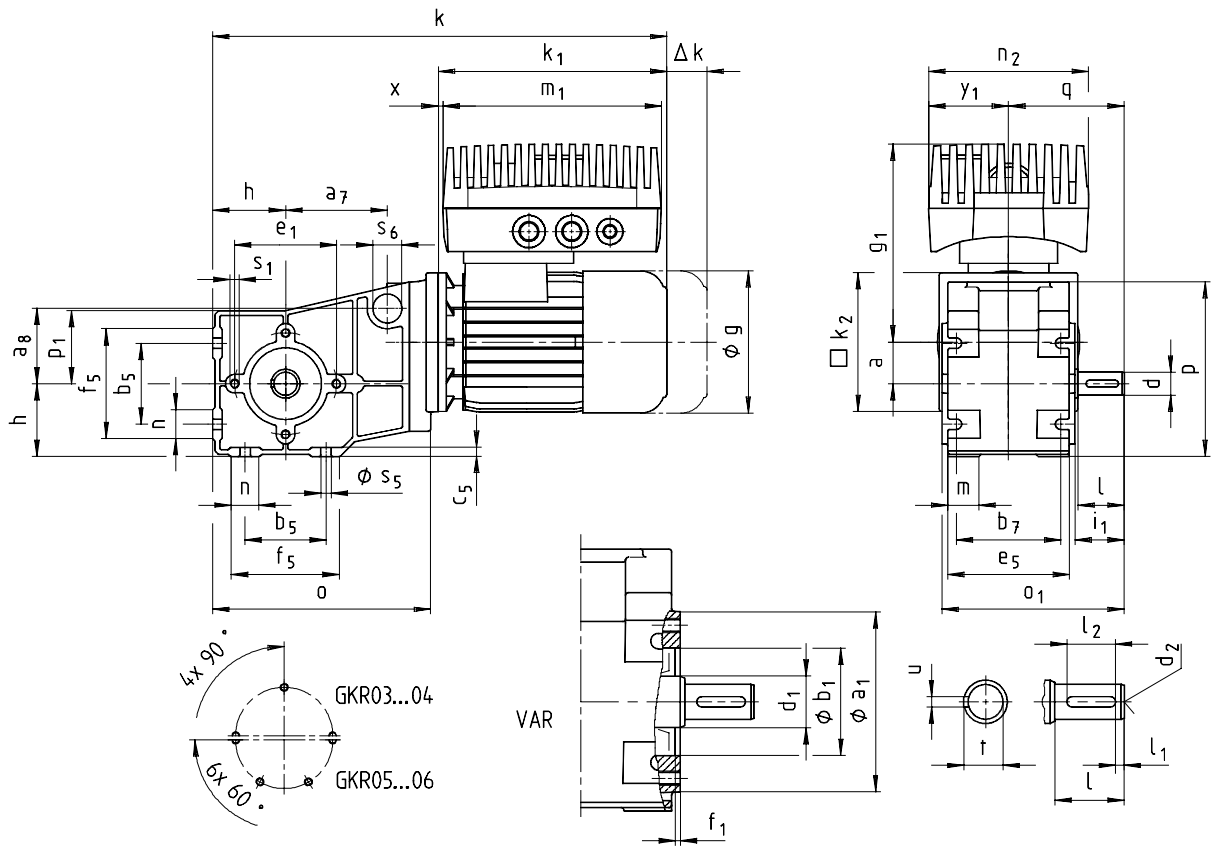
| Gearbox size | Hollow shaft | | | | | | | Output flange | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------------|----------|-------------------------|----------------|----------------------|-----------------------|----------------|----------------|----------------|-----------------|----------------|-------------------------|
| | d H7 | l | d ₁ | l ₁ | l ₂ | u JS9 | t ²⁾ +0.1 | a ₂ | b ₂ j7 | ba ₂ H7 | c ₂ | e ₂ | f ₂ | fa ₂ | i ₂ | s ₂ 4x90° |
| 03 | 18 20 | 100 | 30 | 85 | 22 | 6 | 20.8 22.8 | 110 120 | - 80 | 60 - | 8 | 87 100 | - 3 | 4 - | 30 | 9 7 |
| 04 | 20 25 | 120 | 30 35 | 105 | 25 | 6 8 | 22.8 27.0 | 120 160 | 80 110 | - | 8 | 100 130 | 3 3.5 | - | 20 | 7 9 |
| 05 | 30 35 | 143 | 50 | 127 | 25 | 8 10 | 33.3 38.3 | 160 200 | 110 130 | - | 12 | 130 165 | 3.5 | - | 33.5 | 9 11 |
| 06 | 40 45 | 170 | 65 | 150 | 30 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | - | 12 | 165 215 | 3.5 | - | 41.5 | 11 14 |

Dimensions in [mm] * Please note dimension k₂ ** See chapter 8 for more built-on accessories
¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier
²⁾ If the hollow shaft diameter d = 25 mm, use a featherkey to DIN 6885/3

Dimensions - Bevel gearboxes

Geared motors with 8200 motec

GKR□□ - 2E V□R



Dimensions - Bevel gearboxes

Geared motors with 8200 motec



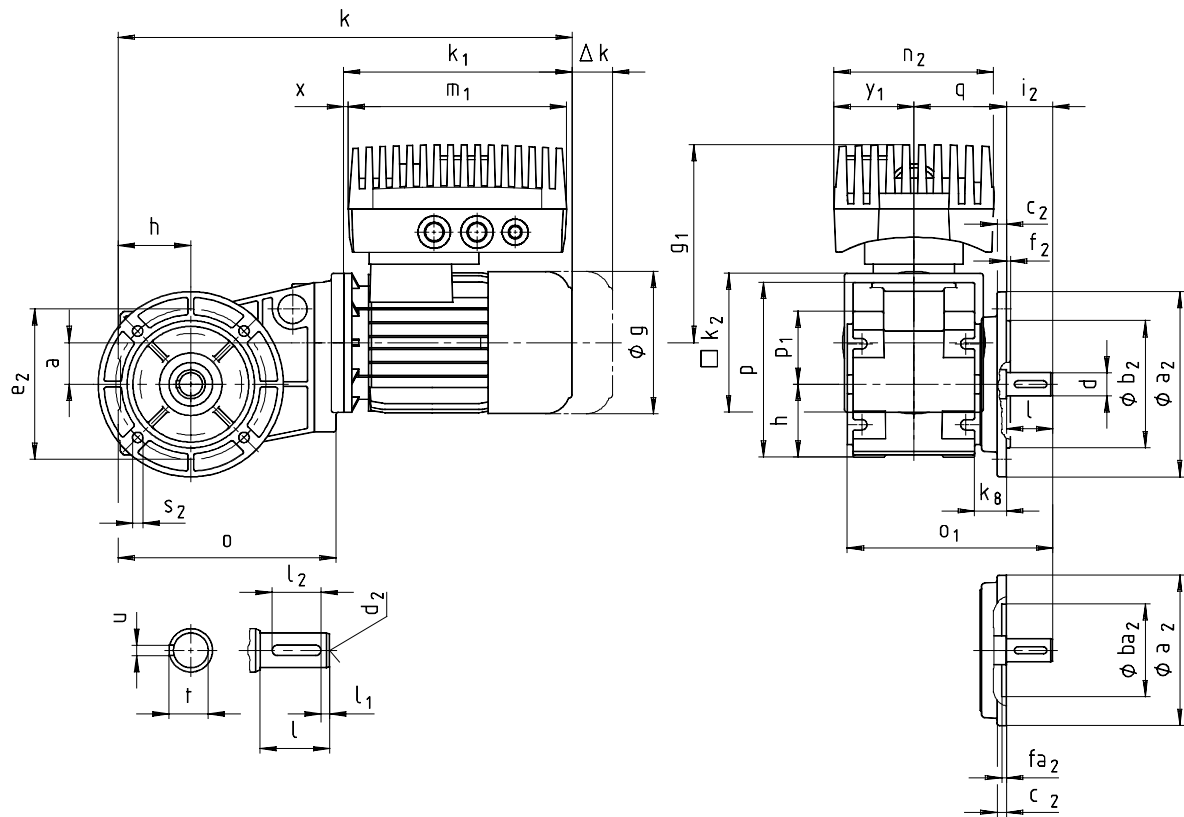
| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | | | | | | |
|-----------------------|------------------------------|----------------------|----------------|--------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|-----|-----|-----|---------|-----|--|
| GKR□□ - 2E V□R | | 8200 motec E82MV□□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | | | | | | |
| | k ₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 363 | | | | | | | |
| | From gearbox size 04 | k ₂ | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | | | | | | |
| 8200 motec | g ₁ | | 171 | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | | 278 | |
| | g ₁ ¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | 190 | | 202 | | 202 | | 230 | | 230 | | 230 | | 327 | | 327 | |
| | n ₂ | | 138 | | 138 | | 156 | | 156 | | 176 | | 176 | | 176 | | 213 | | 213 | |
| | x | | 20 | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | |
| | y ₁ | | 69 | | 69 | | 78 | | 78 | | 88 | | 88 | | 88 | | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | | |
| | o ₁ * | p* | p ₁ | a | h | o | q | k | | | | | | | | | | | | |
| 03 | 138 | 117 | 48 | 29 | 50 | 142 | 90 | 332 | | 352 | | | | | | | | | | |
| 04 | 158 | 151 | 63 | 36 | 63 | 189 | 100 | 383 | | 403 | | 425 | | 486 | | | | | | |
| 05 | 199 | 181 | 82 | 40 | 80 | 251 | 131.5 | 437 | | 456 | | 479 | | 540 | | 573 | | | | |
| 06 | 235 | 226 | 100 | 51 | 100 | 307 | 155 | 488 | | 508 | | 530 | | 591 | | 625 | | 641 685 | | |

| Gearbox size | Solid shaft | | | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|--|
| | d k6 | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ J7 | e ₁ | f ₁ | i ₁ | s ₁ | |
| 03 | 20 | 40 | 30 | 5 | 28 | M6 | 6 | 22.5 | 85 | 55 | 70 | 2.5 | 42.5 | M6x12 | |
| 04 | 20 | 40 | 30 | 5 | 28 | M6 | 6 | 22.5 | 104 | 62 | 88 | 3 | 42.5 | M8x16 | |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 116 | 80 | 100 | 4 | 64 | M8x15 | |
| 06 | 35 | 70 | 65 | 7 | 56 | M12 | 10 | 38 | 140 | 100 | 120 | 4 | 75 | M10x22 | |

| Gearbox size | Foot | | | | | | | | | Torque plate | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|----------------|----------------|----------------|--|
| | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | n | m | s ₅ | a ₇ | a ₈ | s ₆ | |
| 03 | 60 | 75 | 7 | 90 | 80 | 20 | 22 | 6.6 | 66 | 39 | 25x12 | |
| 04 | 70 | 90 | 8 | 105 | 95 | 25 | 28 | 9 | 88 | 65 | 25x17 | |
| 05 | 100 | 100 | 11 | 115 | 138 | 48 | 27 | 9 | | - | | |
| 06 | 120 | 125 | 12 | 145 | 164 | 53 | 32 | 11 | | - | | |

Dimensions in [mm] * Please note dimension k₂ ** See chapter 8 for more built-on accessories
¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

GKR□□ - 2E VAK



Dimensions - Bevel gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | | | | | | | | |
|-----------------------|------------------------------|----------------------|----------------|--------|--------|--------|--------|----------------|----------------|--------|--------|--------|--------|--------|-----|--|-----|--|-----|--|-----|--|
| GKR□□ - 2E VAK | | 8200 motec E82MV□□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | | | | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | | | | | | | | |
| | k ₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 363 | | | | | | | | | |
| | From gearbox size 04 | k ₂ | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | | | | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | | | | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | | | | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | | | | | | | | |
| 8200 motec | g ₁ | | 171 | | 180 | | 225 | | 221 | | 237 | | 242 | | 253 | | 268 | | 278 | | | |
| | g ₁ ¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | 190 | | 202 | | 202 | | 230 | | 230 | | 230 | | 327 | | 327 | | | |
| | n ₂ | | 138 | | 138 | | 156 | | 156 | | 176 | | 176 | | 176 | | 213 | | 213 | | | |
| | x | | 20 | | 23 | | 10 | | 3 | | 3 | | 8 | | 9 | | 0 | | 2 | | | |
| | y ₁ | | 69 | | 69 | | 78 | | 78 | | 88 | | 88 | | 88 | | 107 | | 107 | | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | | | | | | | |
| | o ₁ * | p* | p ₁ | a | h | o | q | k _g | | | | | | | | | | | | | | |
| 03 | 168 | 117 | 48 | 29 | 50 | 142 | 80 | 35 | 332 | | 352 | | | | | | | | | | | |
| 04 | 178 | 151 | 63 | 36 | 63 | 189 | 80.5 | 28 | 383 | | 403 | | 425 | | 486 | | | | | | | |
| 05 | 233 | 181 | 82 | 40 | 80 | 251 | 105 | 47 | 437 | | 456 | | 479 | | 540 | | 573 | | | | | |
| 06 | 277 | 226 | 100 | 51 | 100 | 307 | 126.5 | 54 | 488 | | 508 | | 530 | | 591 | | 625 | | 641 | | 685 | |

| Gearbox size | Solid shaft | | | | | | | Output flange | | | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------|-----------------------|----------------|----------------|----------------|-----------------|----------------|-------------------------|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | ba ₂ H7 | c ₂ | e ₂ | f ₂ | fa ₂ | i ₂ | s ₂ 4x90° |
| 03 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 110 120 | - 80 | 60 - | 8 | 87 100 | - 3 | 4 - | 40 | 9 7 |
| 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 160 | 80 110 | - | 8 | 100 130 | 3 3.5 | - | 40 | 7 9 |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 200 | 110 130 | - | 12 | 130 165 | 3.5 | - | 60 | 9 11 |
| 06 | 35 | 70 | 7 | 56 | M12 | 10 | 38 | 200 250 | 130 180 | - | 12 | 165 215 | 3.5 4 | - | 70 | 11 14 |

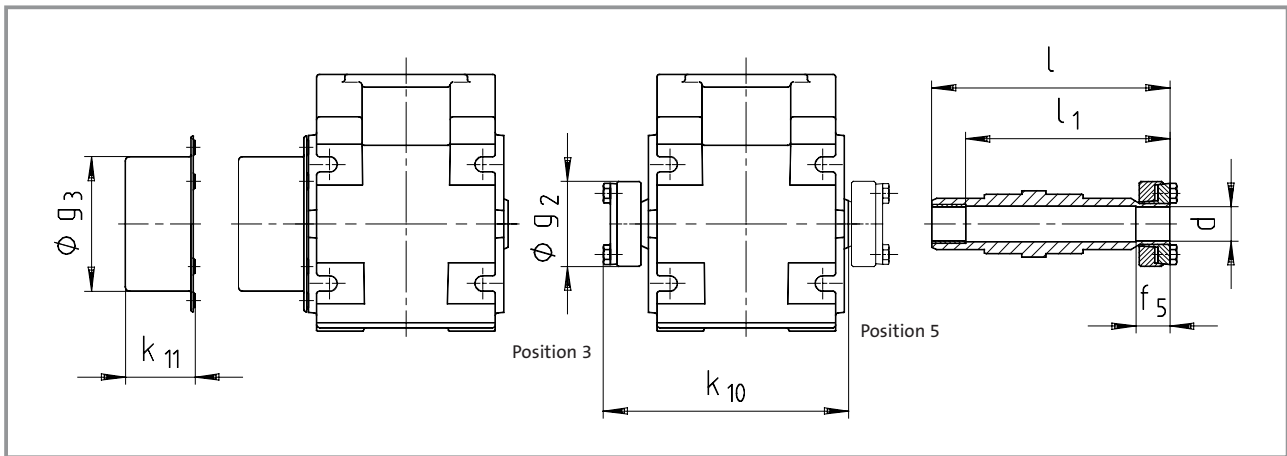
Dimensions in [mm]

* Please note dimension k₂

** See chapter 8 for more built-on accessories

¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

Hollow shaft with shrink disc



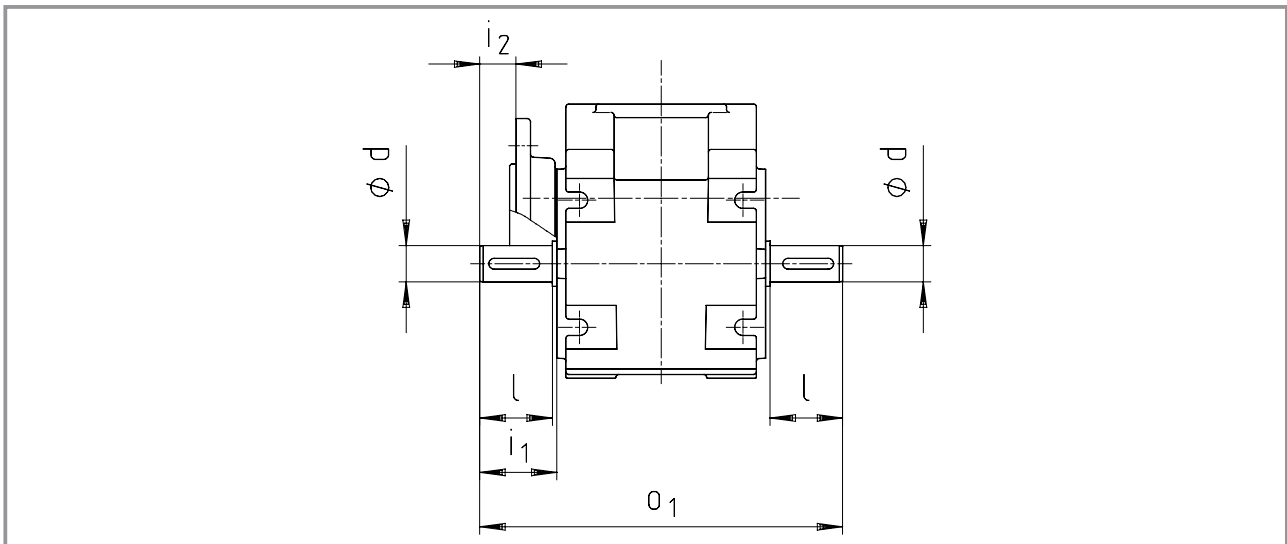
| Gearbox size | Machine shaft * | | Hollow shaft | | | Gearbox | | Cover | |
|--------------|-----------------|-----|--------------|-------|-------|---------|----------|-------|----------|
| | d | Fit | l | l_1 | f_5 | g_2 | k_{10} | g_3 | k_{11} |
| 03 | 20 | h6 | 120 | 100 | 20 | 50 | 124 | 65 | 41 |
| 04 | 20 | h6 | 140 | 120 | 20 | 50 | 144 | 79 | 41 |
| 05 | 30/35 | h6 | 171 | 151 | 28 | 80 | 177 | 90 | 43 |
| 06 | 40 | h6 | 204 | 174 | 30 | 90 | 210 | 100 | 49 |

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4), the torque values given in the selection tables can be transmitted without restrictions. If less rigid materials are being used, please contact us. The average surface roughness R_z should not exceed 15 μm (turning is sufficient).

5

Gearbox with 2nd output shaft end

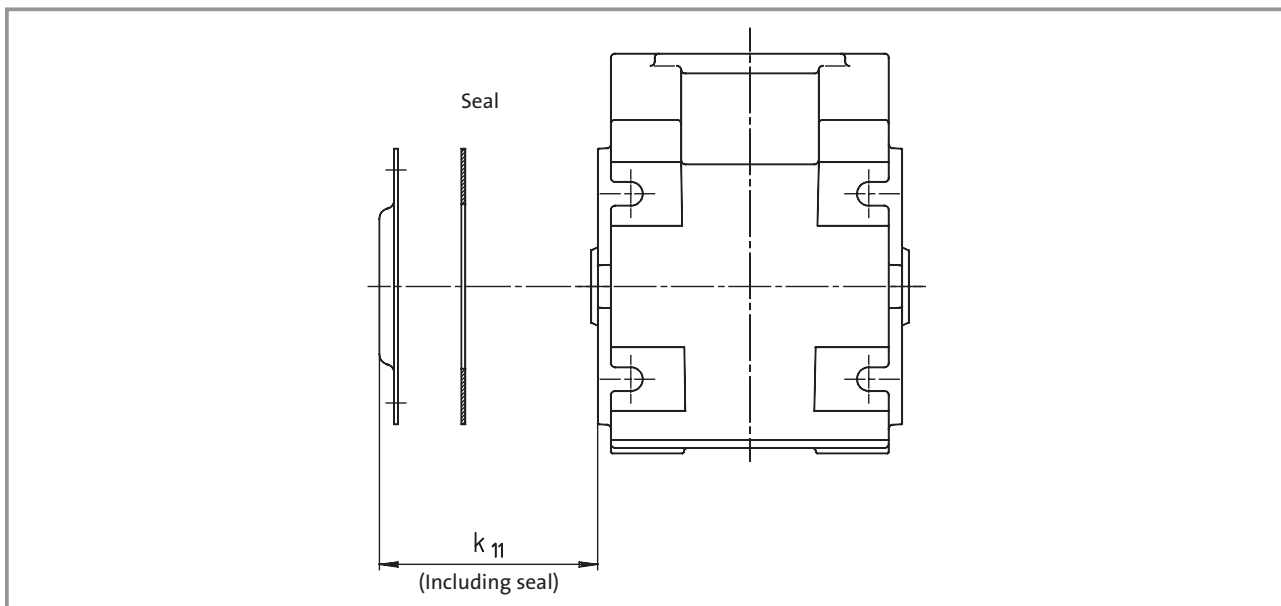


| Gearbox size | d | l | l_1 | l_2 | o_1 |
|--------------|----------|----|-------|-------|-------|
| 03 | k6 20 | 40 | 42.5 | 9.5 | 180 |
| 04 | 20 | 40 | 42.5 | 19.5 | 200 |
| 05 | 30 | 60 | 64 | 27 | 263 |
| 06 | 35 | 70 | 75 | 28.5 | 310 |

Dimensions in [mm]

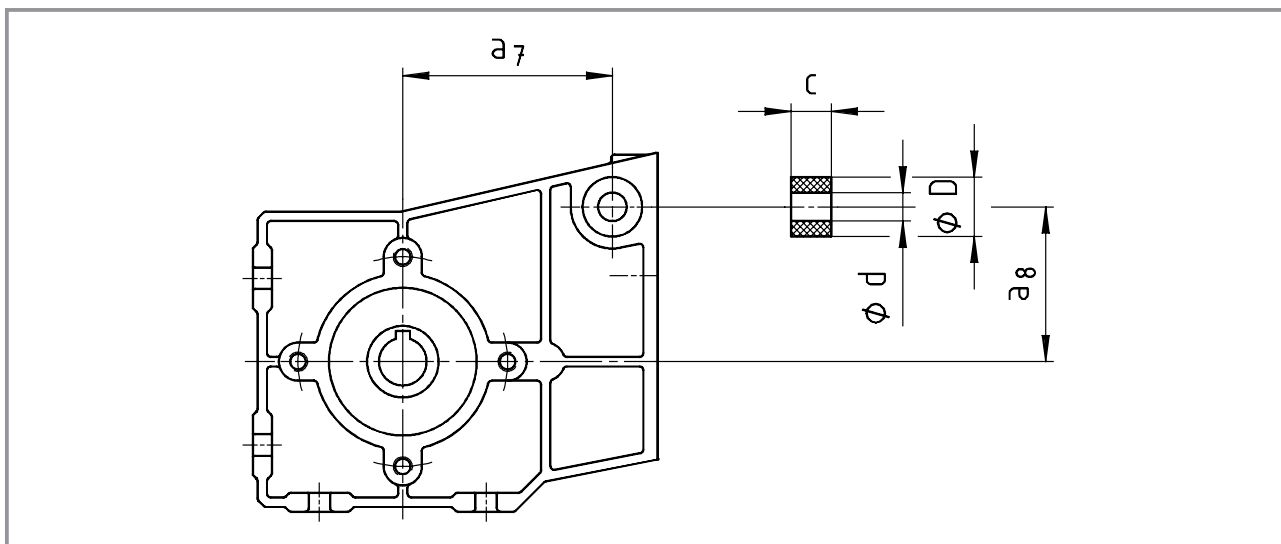


Hoseproof hollow shaft cover



| Gearbox size | Protection cover |
|--------------|------------------|
| | k_{11} |
| 03 | 9 |
| 04 | 9 |
| 05 | 10 |
| 06 | 11 |

Rubber buffer set for torque plate

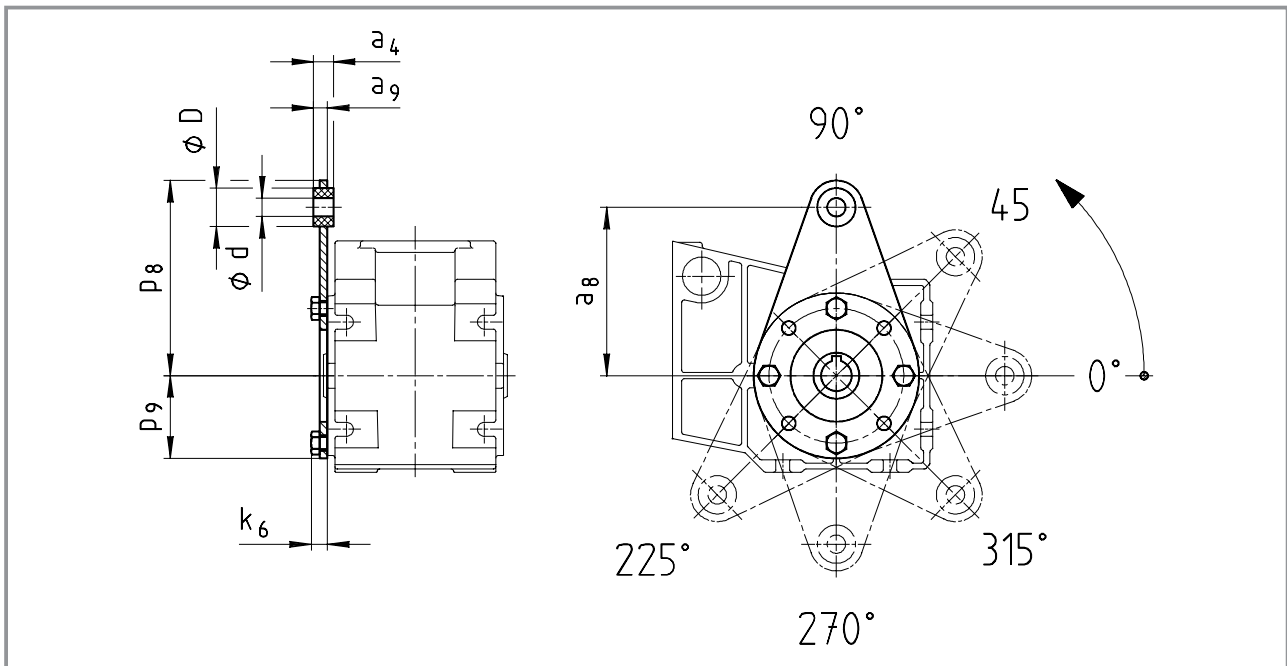


| Gearbox size | d | D | c | a_7 | a_8 |
|--------------|----|----|----|-------|-------|
| 03 | 10 | 25 | 13 | 66 | 39 |
| 04 | 10 | 25 | 13 | 88 | 65 |

Dimensions in [mm]

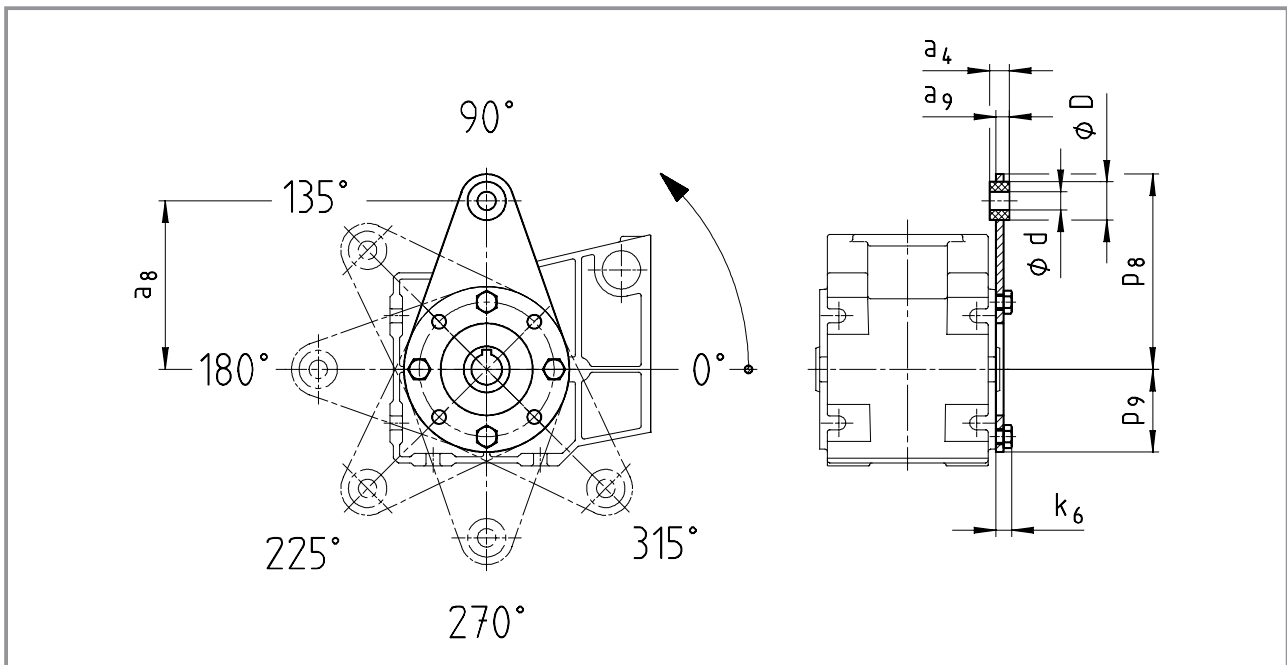
GKR 03/04

Torque plate at pitch circle, position 3



GKR 03/04

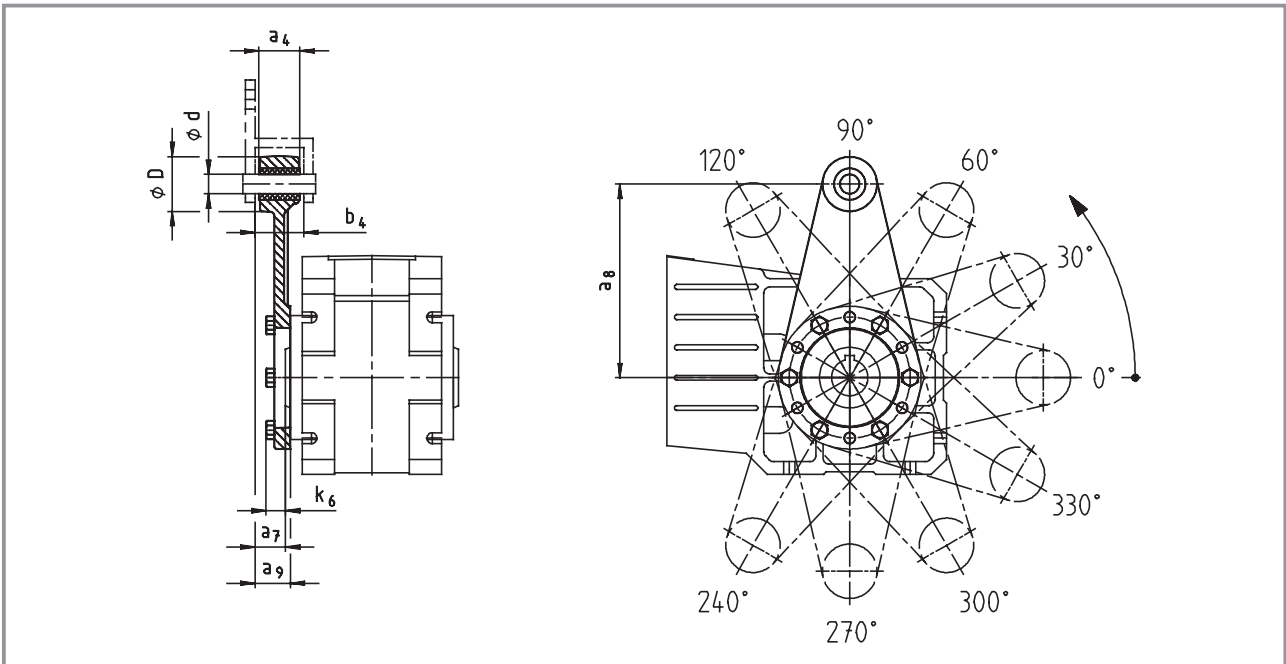
Torque plate at pitch circle, position 5



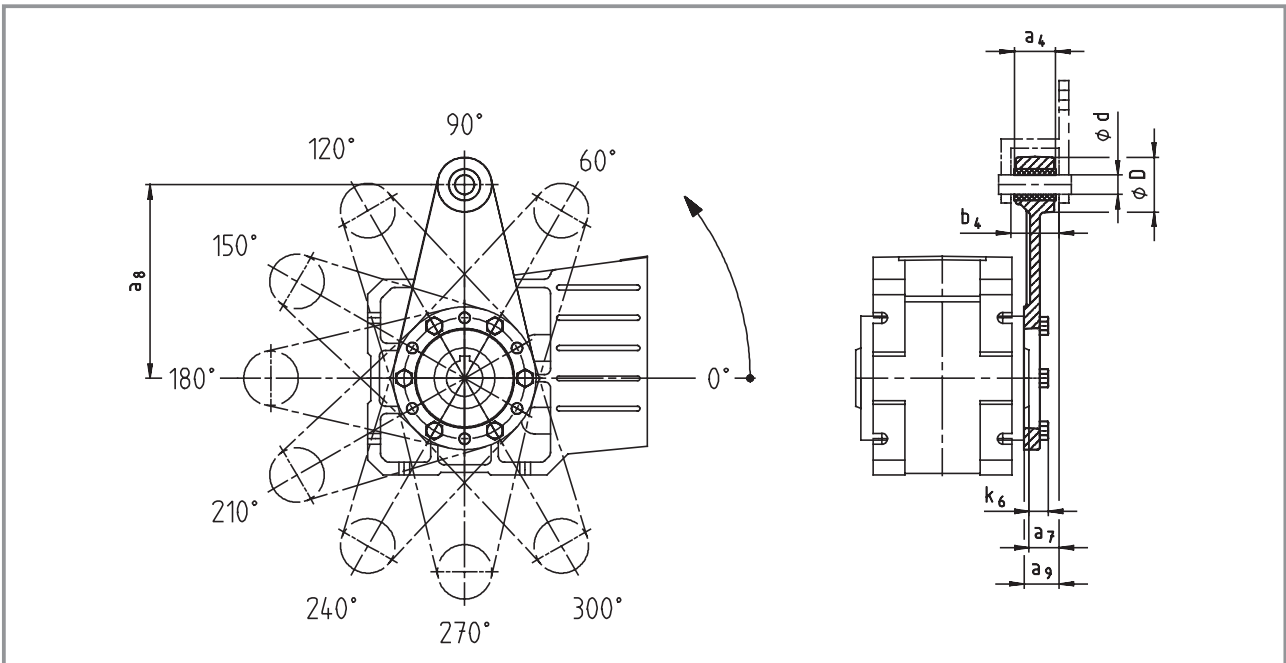
| Gearbox size | Torque plate | | | | | | | |
|--------------|----------------|----------------|----------------|----|----|----------------|----------------|----------------|
| | a ₄ | a ₈ | a ₉ | d | D | k ₆ | P ₈ | P ₉ |
| 03 | 12 | 100 | 8 | 8 | 20 | 9 | 115 | 42 |
| 04 | 13 | 110 | 9 | 10 | 25 | 11 | 128 | 52 |

Dimensions in [mm]

GKR 05/06 Torque plate at pitch circle, position 3



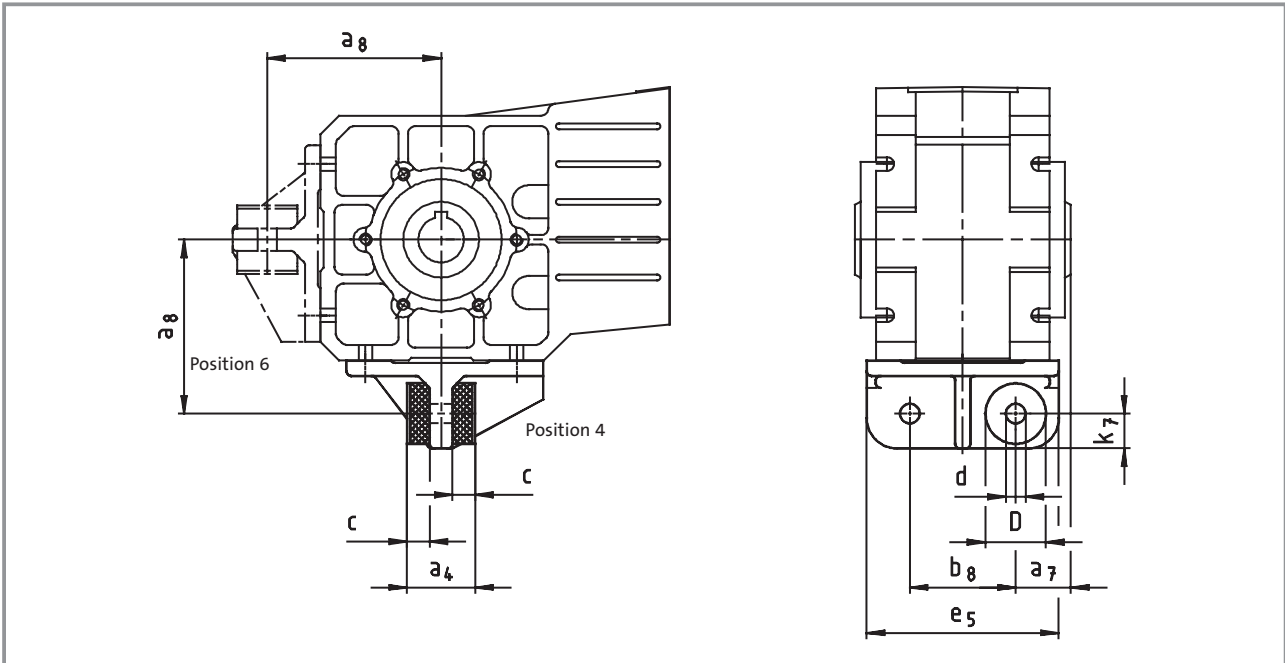
GKR 05/06 Torque plate at pitch circle, position 5



| Gearbox size | Assembly space | | Torque plate | | | | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | a ₇ | b ₄ | a ₄ | a ₈ | a ₉ | d | D | k ₆ |
| 05 | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 16 |
| 06 | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 |

Dimensions in [mm]

Torque plate at housing foot

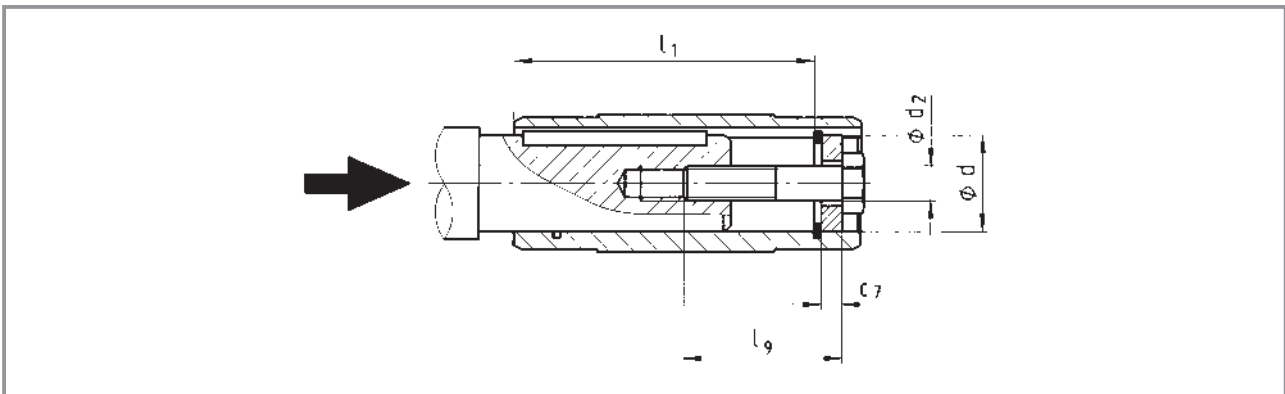


| Gearbox size | a ₄ | a ₇ | a ₈ | b ₈ | c | d | D | e ₅ | k ₇ |
|--------------|----------------|----------------|----------------|----------------|----|----|----|----------------|----------------|
| 05 | 45 | 36.5 | 115 | 70 | 15 | 13 | 40 | 127 | 23 |
| 06 | 72 | 45 | 145 | 80 | 27 | 17 | 50 | 145 | 28 |

Dimensions in [mm]

5

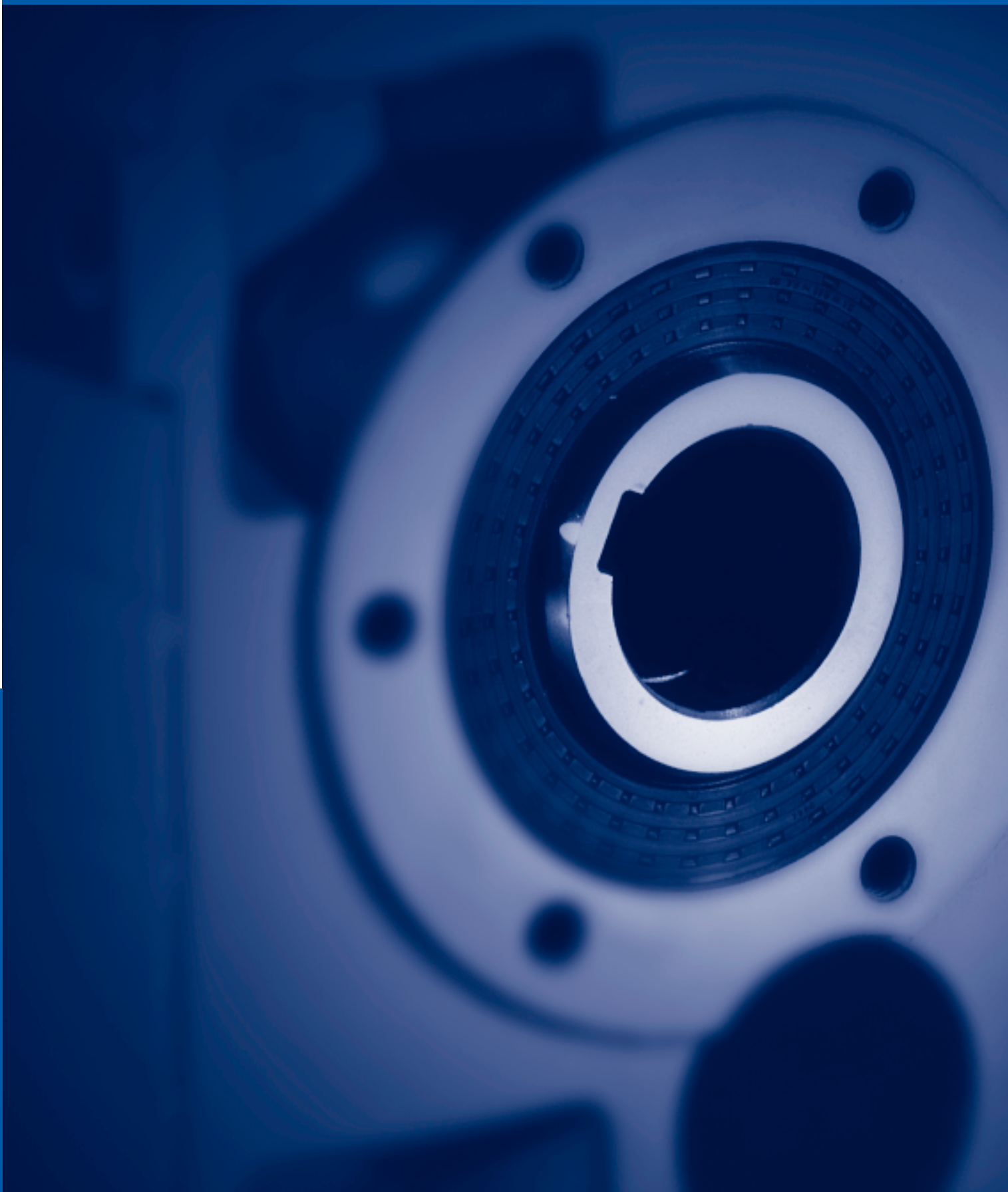
Mounting set for hollow shaft circlip - Proposed design for auxiliary tools



| Gearbox size | Hollow shaft (version H) | | | Mounting set for hollow shaft circlip (auxiliary tool assembly) | | |
|--------------|--------------------------|----------------|----------|---|----------------|----------------|
| | l | l ₁ | d H7 | d ₂ | l ₉ | c ₇ |
| 03 | 100 | 85 | 18 20 | M6 | 40 | 4 |
| 04 | 120 | 105 | 20 25 | M6 M10 | 40 | 4 5 |
| 05 | 143 | 127 | 30 35 | M10 M12 | 40 50 | 6 7 |
| 06 | 170 | 150 | 40 45 | M16 | 60 | 8 9 |

Dimensions in [mm]





Technical data

| | |
|--|-----|
| Permissible radial and axial forces | |
| Output _____ | 6-2 |
| Output backlash _____ | 6-4 |
| Ventilation _____ | 6-5 |
| Position of ventilation, oil filler plug and oil drain plug _____ | 6-5 |
| Reservoir for mounting position C _____ | 6-7 |
| Weights _____ | 6-8 |

Selection tables

| | |
|-------------------------------------|-----|
| Geared motors with 8200 motec _____ | 6-9 |
|-------------------------------------|-----|

Dimensions

| | |
|---|------|
| Geared motors with 8200 motec _____ | 6-30 |
| Further dimensions _____ | 6-46 |
| Hollow shaft with shrink disc _____ | 6-46 |
| Gearbox with 2nd output shaft end _____ | 6-47 |
| Hoseproof hollow shaft cover _____ | 6-48 |
| Torque plate at pitch circle _____ | 6-49 |
| Torque plate at housing foot _____ | 6-50 |
| Mounting set for hollow shaft circlip _____ | 6-51 |
| Proposed design for auxiliary tools _____ | 6-51 |

Helical-bevel gearboxes GKS□□

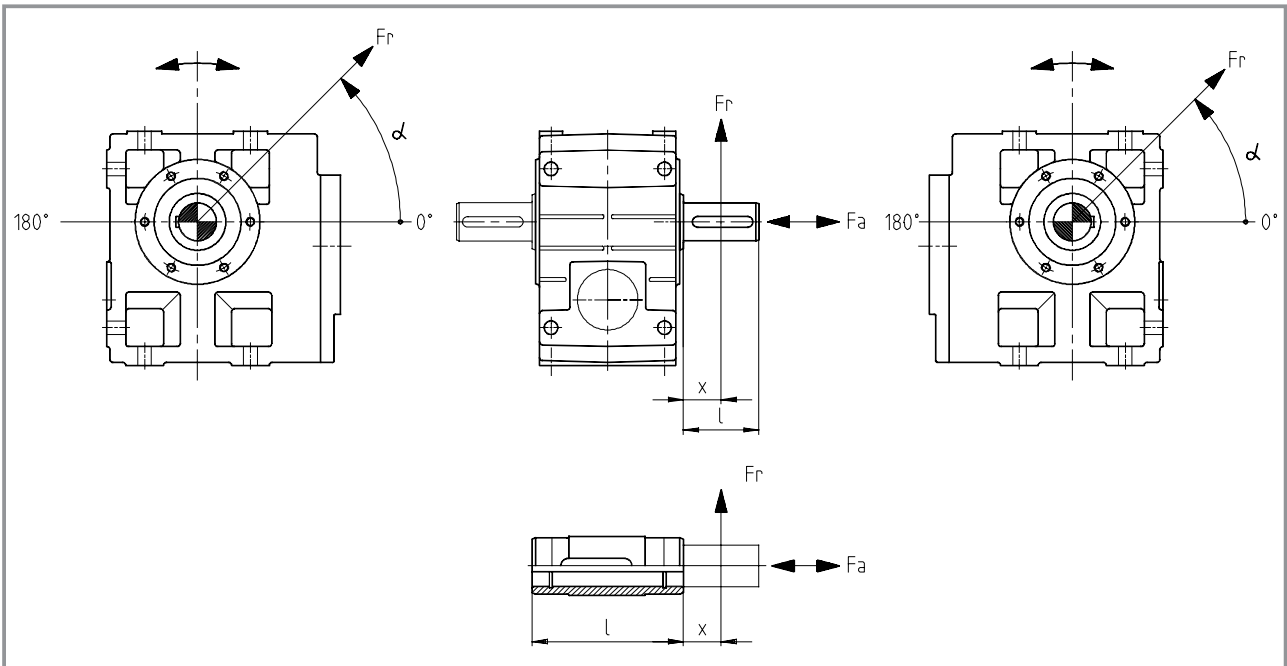
Permissible radial force

$$F_{rperm} = f_w \cdot f_\alpha \cdot F_{rTab} \leq f_w \cdot F_{rmax}$$

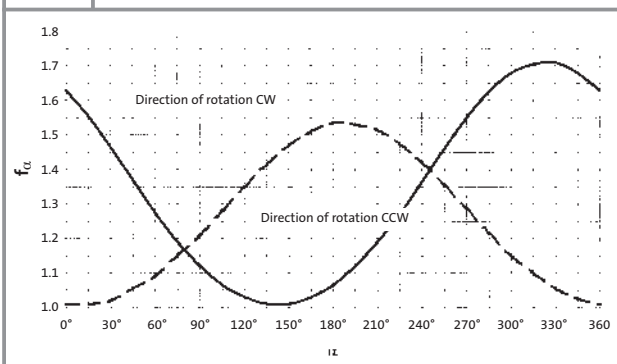
Permissible axial force

$$F_{aperm} = F_{aTab} \quad \text{at } F_r = 0$$

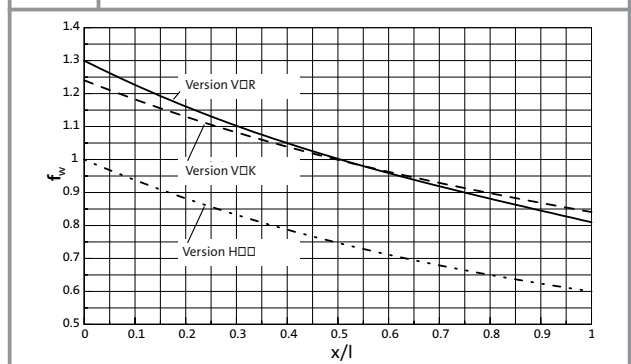
Contact Lenze if F_r and $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



Technical data - Helical-bevel gearboxes

Permissible radial and axial forces - Output

Helical-bevel gearboxes GKS□□

| VAK | Solid shaft with flange | | | | | | | | | | | | | |
|----------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09 | | GKS 11 | | GKS 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 3800 | 4200 | 4640 | 3630 | 6400 | 4660 | 7000 | 5700 | 9900 | 6000 | 14500 | 7000 | 20500 | 8400 |
| 250 | 4300 | 4400 | 5420 | 4440 | 7500 | 5880 | 8250 | 7000 | 10500 | 6600 | 16000 | 7500 | 23700 | 10000 |
| 160 | 4600 | 4400 | 6280 | 5420 | 8800 | 7320 | 9630 | 8500 | 12000 | 7600 | 17600 | 8500 | 27200 | 11500 |
| 100 | 4600 | 4400 | 7000 | 6600 | 9800 | 9230 | 11000 | 10400 | 14000 | 10000 | 21000 | 10500 | 31300 | 13000 |
| 63 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 13000 | 11500 | 15000 | 12000 | 24500 | 13000 | 35000 | 15000 |
| 40 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 15000 | 28000 | 17500 | 41000 | 19000 |
| 25 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 17000 | 30000 | 27000 | 43000 | 28000 |
| ≤ 16 | 4600 | 4400 | 7000 | 6600 | 10000 | 10000 | 14000 | 11500 | 15000 | 17000 | 30000 | 27000 | 43000 | 35000 |
| $F_{r max}$ | 4600 | – | 7000 | – | 10000 | – | 14000 | – | 15000 | – | 30000 | – | 43000 | – |

| VOR | Solid shaft without flange | | | | | | | | | | | | | |
|----------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09* | | GKS 11* | | GKS 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 3000 | 4200 | 2800 | 3500 | 3700 | 4440 | 4000 | 4900 | 6200 | 6500 | 7100 | 7000 | 57900 | 35000 |
| 250 | 3400 | 5000 | 3200 | 4240 | 4300 | 5580 | 4900 | 6230 | 6400 | 7400 | 7500 | 8000 | 61000 | 35000 |
| 160 | 3600 | 5500 | 3600 | 5090 | 4900 | 6930 | 5800 | 7820 | 7100 | 8000 | 8200 | 9200 | 64100 | 35000 |
| 100 | 3600 | 5500 | 4100 | 6160 | 5300 | 8710 | 6600 | 9940 | 8400 | 10500 | 10000 | 12000 | 65000 | 35000 |
| 63 | 3600 | 5500 | 4900 | 6600 | 6200 | 10000 | 8000 | 12600 | 9500 | 13000 | 11200 | 14500 | 65000 | 35000 |
| 40 | 3600 | 5500 | 5800 | 6600 | 7900 | 10000 | 9600 | 14000 | 11800 | 17000 | 13000 | 18500 | 65000 | 35000 |
| 25 | 3600 | 5500 | 5800 | 6600 | 9000 | 10000 | 12000 | 14000 | 16000 | 21000 | 19000 | 27000 | 65000 | 35000 |
| ≤ 16 | 3600 | 5500 | 5800 | 6600 | 9000 | 10000 | 12000 | 14000 | 18000 | 21000 | 23000 | 27000 | 65000 | 35000 |
| $F_{r max}$ | 3600 | – | 5800 | – | 9000 | – | 12000 | – | 18000 | – | 23000 | – | 65000 | – |

| H□□ | Hollow shaft | | | | | | | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | Application of force F_r : At hollow shaft end face ($x = 0$) F_{aTab} only valid for $F_r = 0$ | | | | | | | | | | | | | |
| n_2 [rpm] | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09 | | GKS 11 | | GKS 14 | |
| | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 400 | 3900 | 4200 | 3500 | 3500 | 4600 | 4440 | 5400 | 4900 | 7500 | 6500 | 9000 | 7000 | 15000 | 6000 |
| 250 | 4500 | 5000 | 4200 | 4240 | 5600 | 5580 | 6300 | 6230 | 8200 | 7400 | 10000 | 8000 | 15500 | 8000 |
| 160 | 5100 | 5500 | 4630 | 5090 | 6400 | 6930 | 7400 | 7820 | 9400 | 8000 | 11000 | 9200 | 16500 | 10000 |
| 100 | 5900 | 5500 | 5000 | 6160 | 7000 | 8710 | 8700 | 9940 | 10600 | 10500 | 14000 | 12000 | 17500 | 13000 |
| 63 | 6800 | 5500 | 6200 | 6600 | 8200 | 10000 | 10500 | 12600 | 12200 | 13000 | 16000 | 14500 | 18500 | 16000 |
| 40 | 7000 | 5500 | 7300 | 6600 | 10400 | 10000 | 12500 | 14000 | 15500 | 17000 | 18500 | 18500 | 21000 | 20000 |
| 25 | 7000 | 5500 | 7300 | 6600 | 12000 | 10000 | 15100 | 14000 | 21000 | 21000 | 25000 | 27000 | 28000 | 28000 |
| ≤ 16 | 7000 | 5500 | 7300 | 6600 | 12000 | 10000 | 16000 | 14000 | 24000 | 21000 | 30000 | 27000 | 40000 | 35000 |
| $F_{r max}$ | 7000 | – | 7300 | – | 12000 | – | 16000 | – | 24000 | – | 30000 | – | 45000 | – |

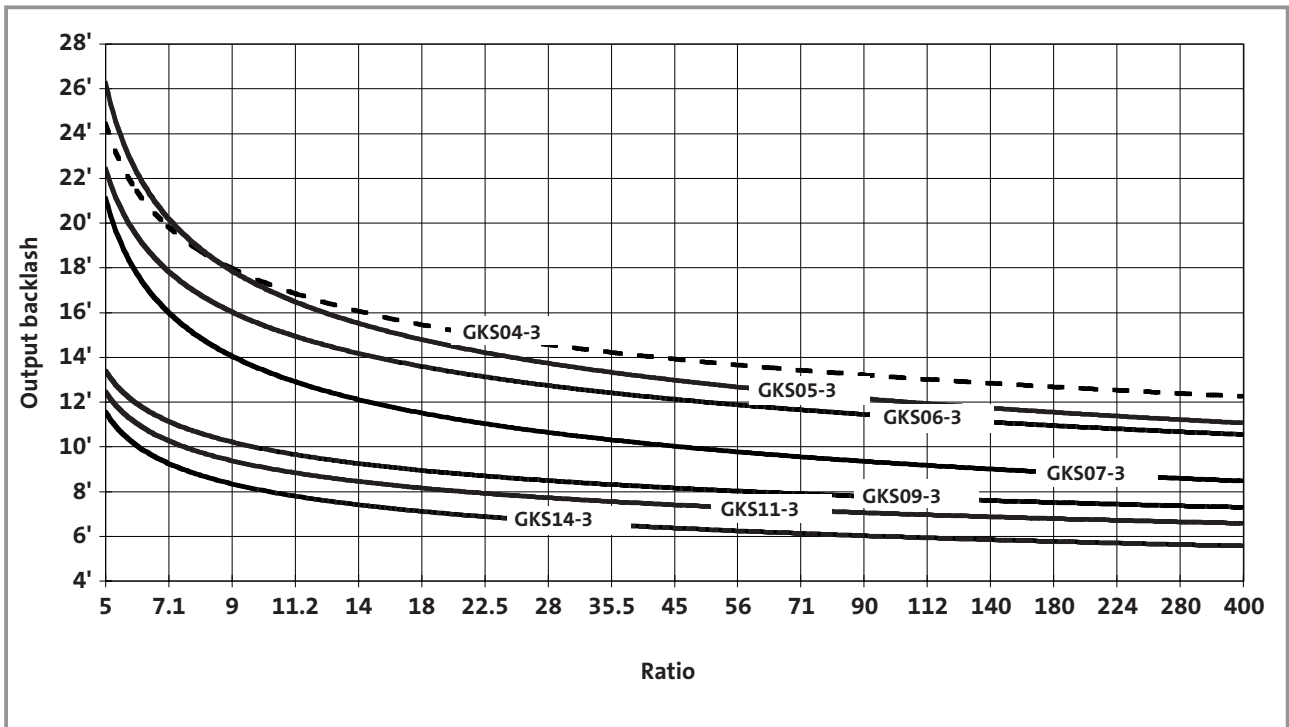
* A reinforced output shaft bearing is available on request for VOR versions.

Neither radial nor axial forces are permitted on hollow shafts with shrink disc (S□□).

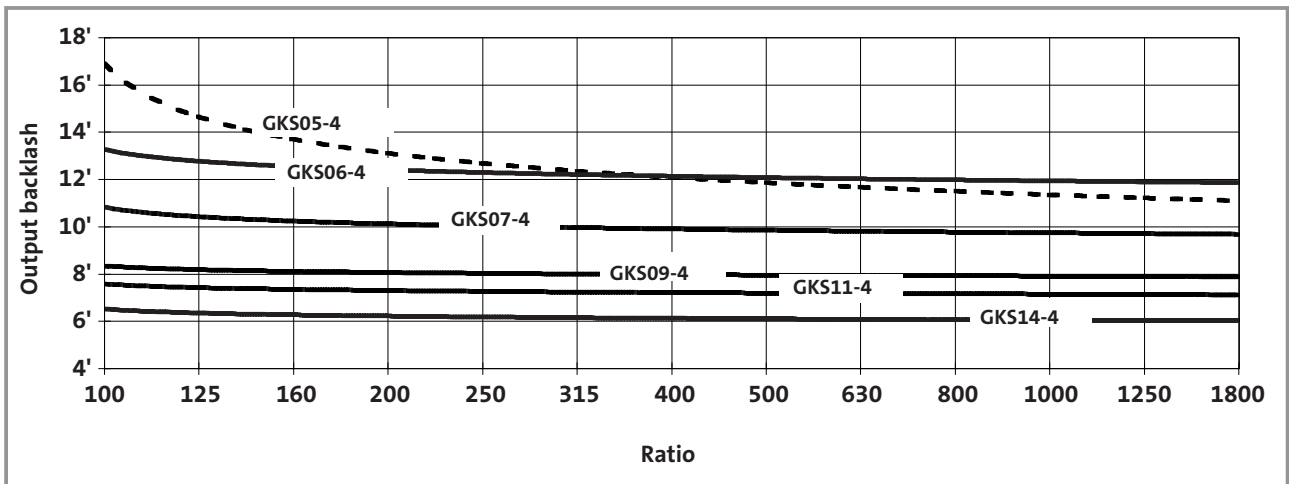
Technical data - Helical-bevel gearboxes

Output backlash in angular minutes

Helical-bevel gearboxes GKS□□-3

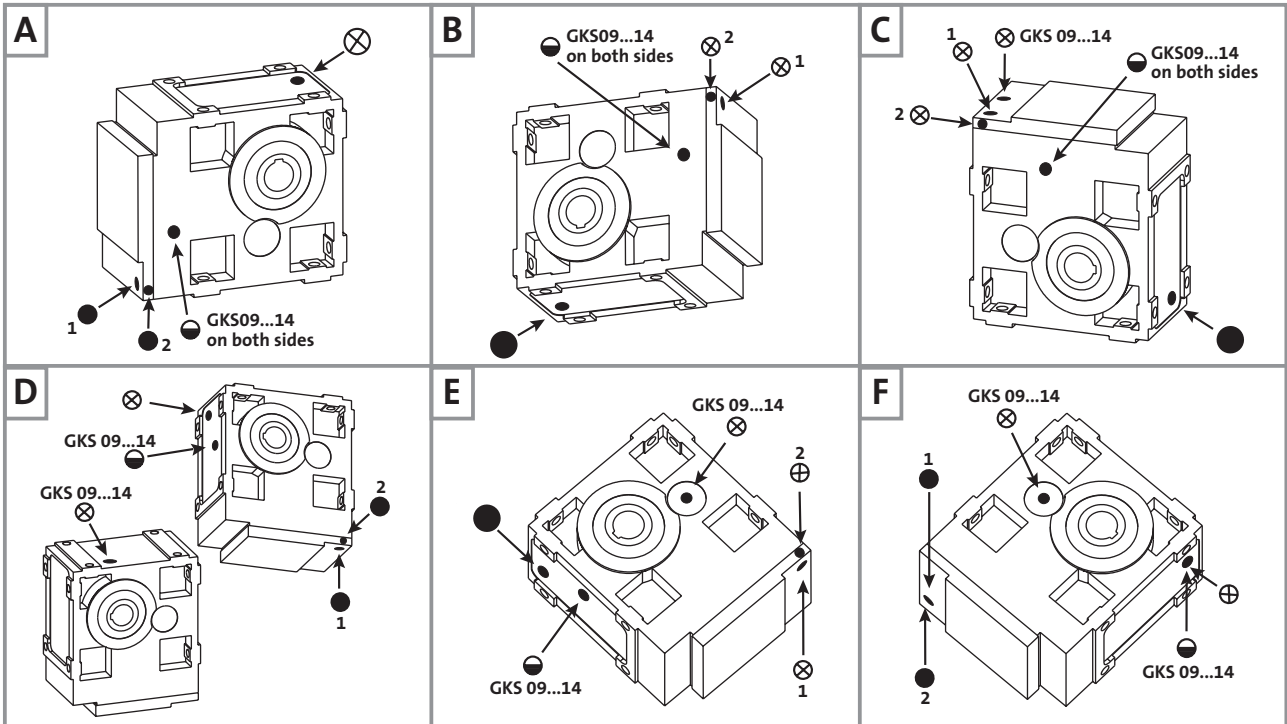


Helical-bevel gearboxes GKS□□-4

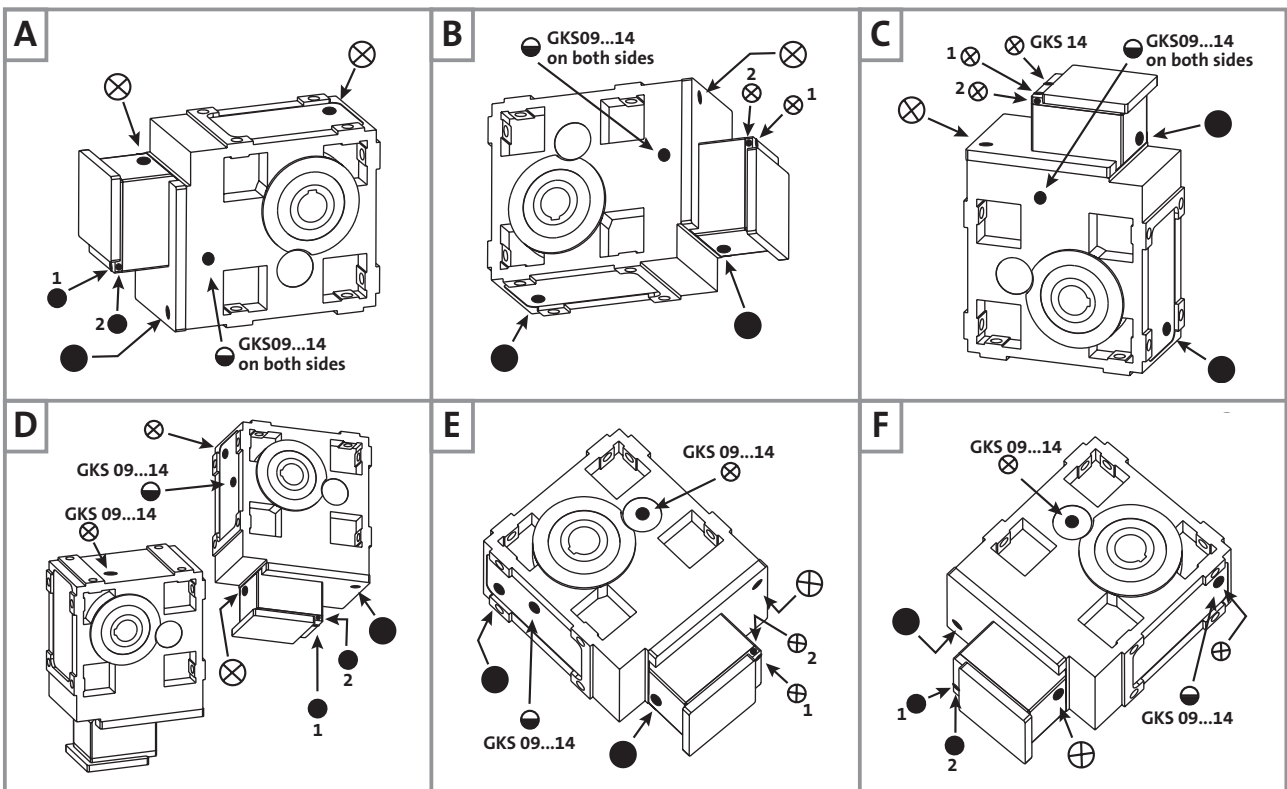


Position of ventilation, oil filler plug and oil drain plug

Helical-bevel gearboxes GKS 05 ... 14-3



Helical-bevel gearboxes GKS 05 ... 14-4



(A ... F) Mounting position

⊗ Ventilation/oil filler plug

◐ Oil control plug

● Oil drain plug

Pos. 1 or 2 depending on version
(see table on page 6-6)

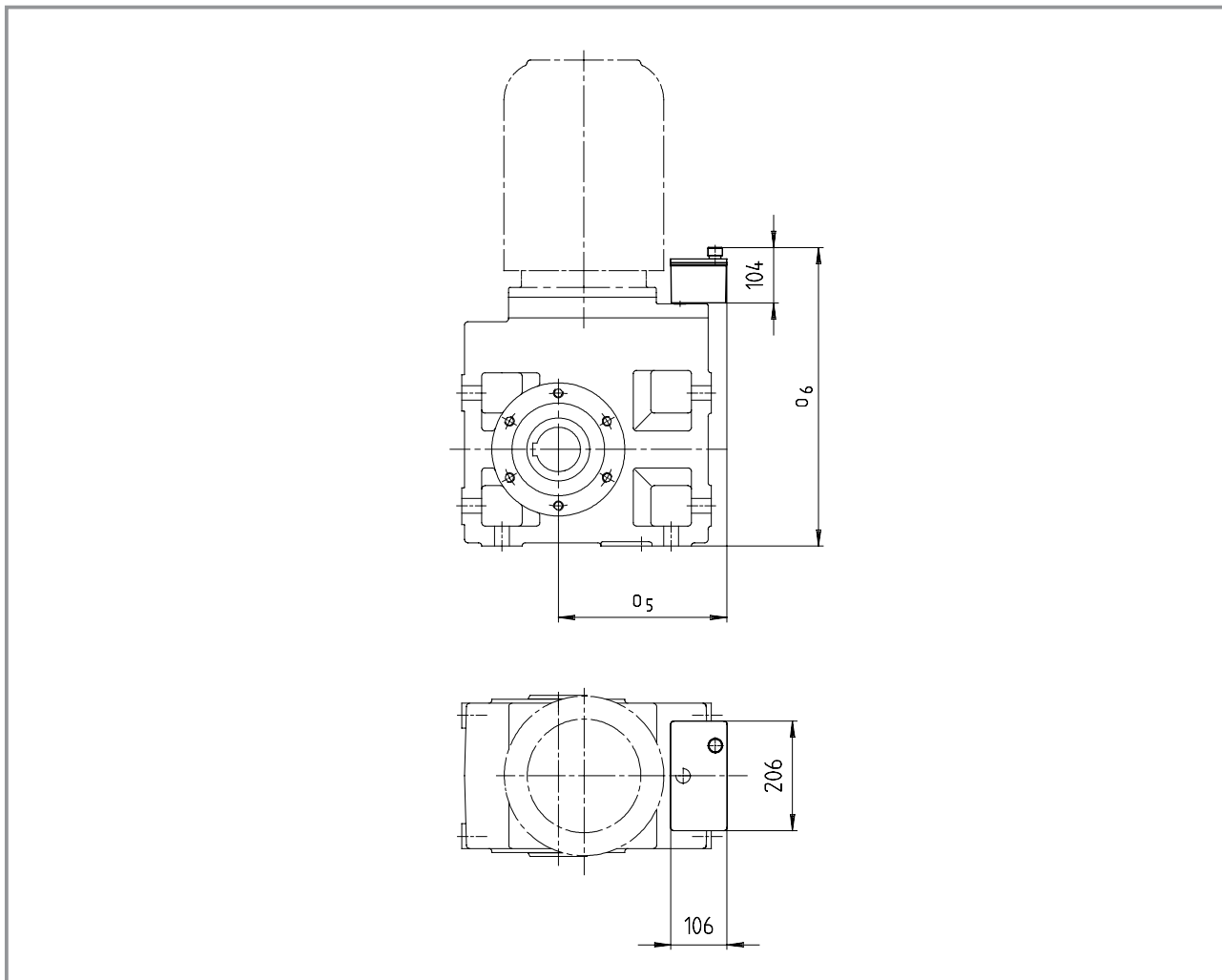
On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.
On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Helical-bevel gearboxes

| | | | | | |
|-----|----|----|---|-----|------------|
| GKS | 05 | -3 | E | □□□ | 090 100 |
| | 06 | -3 | E | □□□ | 112 |
| | 07 | -4 | E | □□□ | 090 100 |
| | 09 | -4 | E | □□□ | 112 |

Reservoir for mounting position C

Helical-bevel gearboxes GKS



| Helical-bevel gearboxes GKS□□ - 3E | Motor frame size/Drive size | | | |
|---------------------------------------|-----------------------------|-----|-----|-----|
| | 090 / 100 | 112 | 132 | |
| 09 | 05 | 243 | 265 | 282 |
| | 06 | 533 | 533 | 533 |
| 11 | 05 | 258 | 280 | 304 |
| | 06 | 626 | 630 | 630 |
| 14 | 05 | | 313 | 343 |
| | 06 | | 739 | 739 |

8200 motec cannot be in position 4.

Helical-bevel gearboxes GKS□□-3

| Geared motors GKS□□-3E H□R | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 04 | 18 | 20 | 21 | 26 | 27 | 34 | | | | | |
| 05 | 28 | 30 | 31 | 36 | 37 | 44 | 51 | 57 | | | |
| 06 | 42 | 44 | 45 | 50 | 51 | 58 | 65 | 71 | 80 | 87 | |
| 07 | | | | 75 | 77 | 84 | 91 | 97 | 105 | 112 | 142 |
| 09 | | | | | | 132 | 139 | 145 | 153 | 160 | 191 |
| 11 | | | | | | | 239 | 245 | 252 | 259 | 289 |
| 14 | | | | | | | | | 423 | 430 | 457 |

Helical-bevel gearboxes GKS□□-4

| Geared motors GKS□□-4E H□R | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 05 | 29 | 31 | 32 | 37 | 38 | | | | | | |
| 06 | 46 | 48 | 49 | 54 | 55 | 62 | | | | | |
| 07 | 76 | 78 | 79 | 83 | 85 | 92 | 99 | 105 | | | |
| 09 | 129 | 131 | 132 | 137 | 138 | 145 | 152 | 158 | 167 | 174 | |
| 11 | | | | 245 | 246 | 253 | 260 | 266 | 274 | 281 | 311 |
| 14 | | | | | | 438 | 445 | 451 | 459 | 466 | 497 |

Additional weights

| Gearbox size | Solid shaft | 2nd output shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------|-------------|----------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □AK | Housing foot | Pitch circle |
| 04 | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| 05 | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| 06 | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| 07 | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |
| 09 | 8 | 2.7 | 3 | 16 | 13 | |
| 11 | 16 | 6.3 | 5 | 24 | 23 | |
| 14 | 33 | 12 | 11 | 33 | 44 | |

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----------|-----------------------|--------------|
| 5.7 | 19 | 16 | 17 | 23 | 57 | 19 | 5.4 | 99 | 11 | 25.088 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 5.0 | 22 | 14 | 20 | 20 | 50 | 22 | 5.0 | 86 | 13 | 28.727 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 4.5 | 24 | 13 | 22 | 18 | 45 | 24 | 5.0 | 77 | 14 | 32.000 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 3.2 | 34 | 9.3 | 30 | 13 | 32 | 34 | 5.5 | 56 | 19 | 44.240 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 2.8 | 39 | 8.1 | 35 | 11 | 28 | 39 | 4.7 | 49 | 22 | 50.943 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 2.5 | 44 | 7.3 | 39 | 10 | 25 | 44 | 4.3 | 44 | 25 | 56.976 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 2.2 | 50 | 6.4 | 44 | 8.8 | 22 | 50 | 3.7 | 38 | 29 | 64.978 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 2.0 | 55 | 5.7 | 49 | 7.9 | 20 | 55 | 3.4 | 34 | 32 | 72.210 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.6 | 69 | 4.6 | 62 | 6.3 | 16 | 69 | 2.7 | 27 | 40 | 90.491 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.4 | 76 | 4.1 | 68 | 5.7 | 14 | 76 | 2.4 | 25 | 44 | 100.067 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.3 | 85 | 3.7 | 76 | 5.1 | 13 | 85 | 2.0 | 22 | 49 | 111.467 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.1 | 98 | 3.2 | 88 | 4.4 | 11 | 98 | 1.9 | 19 | 57 | 128.874 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 1.0 | 110 | 2.9 | 98 | 4.0 | 9.9 | 110 | 1.6 | 17 | 63 | 143.556 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.9 | 125 | 2.5 | 111 | 3.5 | 8.7 | 125 | 1.5 | 15 | 72 | 163.332 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.8 | 139 | 2.3 | 124 | 3.1 | 7.8 | 139 | 1.3 | 14 | 80 | 181.939 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.7 | 156 | 2 | 139 | 2.8 | 7.0 | 156 | 1.2 | 12 | 90 | 204.682 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 174 | 1.8 | 155 | 2.5 | 6.3 | 174 | 1.0 | 11 | 100 | 228.000 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 206 | 1.5 | 183 | 2.1 | 5.3 | 206 | 0.9 | 9 | 118 | 269.660 | GKS04 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 210 | 1.5 | 187 | 2.0 | 5.1 | 210 | 2.6 | 9 | 121 | 279.286 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 238 | 1.3 | 212 | 1.8 | 4.5 | 238 | 3.0 | 8 | 137 | 316.800 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 274 | 1.1 | 244 | 1.6 | 3.9 | 274 | 1.2 | 7 | 157 | 364.467 | GKS05 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 271 | 1.1 | 242 | 1.6 | 3.9 | 271 | 2.0 | 7 | 156 | 361.429 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 308 | 1 | 274 | 1.4 | 3.5 | 308 | 1.0 | 6 | 177 | 410.667 | GKS05 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 306 | 1 | 273 | 1.4 | 3.5 | 306 | 2.3 | 6 | 176 | 408.000 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 352 | 0.9 | 314 | 1.2 | 3.0 | 352 | 0.9 | 5 | 203 | 469.389 | GKS05 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 344 | 0.9 | 306 | 1.2 | 3.1 | 344 | 1.6 | 5 | 198 | 458.067 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 388 | 0.8 | 346 | 1.1 | 2.8 | 388 | 1.8 | 5 | 223 | 517.091 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 417 | 0.7 | 372 | 1.0 | 2.6 | 417 | 1.3 | 4 | 240 | 555.927 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 481 | 0.6 | 428 | 0.9 | 2.2 | 481 | 1.5 | 4 | 277 | 640.800 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 523 | 0.6 | 466 | 0.8 | 2.1 | 523 | 1.0 | 4 | 301 | 696.668 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 610 | 0.5 | 543 | 0.7 | 1.8 | 610 | 1.2 | 3 | 350 | 812.137 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 687 | 0.5 | 611 | 0.6 | 1.6 | 687 | 0.9 | 3 | 395 | 914.907 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 764 | 0.4 | 680 | 0.6 | 1.4 | 764 | 0.9 | 2 | 439 | 1017.741 | GKS06 - 4E □□□ 063C12 | E82MV 251_2B |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|----|----|------|----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 14 | 12 | 40 | 10.5 | 56 | 139 | 12 | 3.4 | 241 | 6.8 | 9.836 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 6.1 | 27 | 18 | 24 | 24 | 61 | 27 | 3.4 | 105 | 15 | 22.522 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 5.4 | 30 | 16 | 27 | 22 | 54 | 30 | 3.4 | 95 | 17 | 25.088 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 4.8 | 34 | 14 | 31 | 19 | 48 | 34 | 3.2 | 83 | 20 | 28.727 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|---------|-----------------------|--------------|
| 4.3 | 38 | 12 | 34 | 17 | 43 | 38 | 3.2 | 74 | 22 | 32.000 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 3.1 | 53 | 8.9 | 47 | 12 | 31 | 53 | 3.5 | 54 | 30 | 44.240 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 2.7 | 61 | 7.8 | 54 | 11 | 27 | 61 | 3.0 | 47 | 35 | 50.943 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 2.4 | 68 | 6.9 | 61 | 9.6 | 24 | 68 | 2.7 | 42 | 39 | 56.976 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 2.1 | 78 | 6.1 | 69 | 8.4 | 21 | 78 | 2.4 | 37 | 45 | 64.978 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.9 | 86 | 5.5 | 77 | 7.6 | 19 | 86 | 2.2 | 33 | 50 | 72.210 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.5 | 108 | 4.4 | 96 | 6.0 | 15 | 108 | 1.8 | 26 | 62 | 90.491 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.4 | 120 | 4 | 107 | 5.4 | 14 | 120 | 1.5 | 24 | 69 | 100.067 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 133 | 3.6 | 119 | 4.9 | 12 | 133 | 1.3 | 21 | 77 | 111.467 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.1 | 154 | 3.1 | 137 | 4.2 | 11 | 154 | 1.2 | 18 | 89 | 128.874 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 1.0 | 172 | 2.8 | 153 | 3.8 | 9.5 | 172 | 1.0 | 17 | 99 | 143.556 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 195 | 2.4 | 174 | 3.3 | 8.4 | 195 | 1.0 | 15 | 112 | 163.332 | GKS04 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 218 | 2.1 | 194 | 2.9 | 7.4 | 218 | 1.5 | 13 | 125 | 185.547 | GKS05 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.8 | 205 | 2.3 | 182 | 3.1 | 7.8 | 205 | 2.6 | 14 | 118 | 174.336 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 246 | 1.9 | 219 | 2.6 | 6.5 | 246 | 1.3 | 11 | 141 | 209.067 | GKS05 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 266 | 1.8 | 236 | 2.4 | 6.0 | 266 | 0.9 | 11 | 153 | 225.867 | GKS05 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 264 | 1.8 | 235 | 2.4 | 6.1 | 264 | 2.0 | 11 | 152 | 224.524 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 278 | 1.7 | 248 | 2.3 | 5.8 | 278 | 1.2 | 10 | 160 | 236.667 | GKS05 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 328 | 1.4 | 292 | 2.0 | 4.9 | 328 | 1.6 | 9 | 189 | 279.286 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 373 | 1.2 | 332 | 1.7 | 4.3 | 373 | 1.9 | 7 | 214 | 316.800 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 425 | 1.1 | 378 | 1.5 | 3.8 | 425 | 1.3 | 7 | 244 | 361.429 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 480 | 1 | 427 | 1.3 | 3.4 | 480 | 1.5 | 6 | 276 | 408.000 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 539 | 0.9 | 479 | 1.2 | 3.0 | 539 | 1.0 | 5 | 310 | 458.067 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 608 | 0.8 | 541 | 1.1 | 2.6 | 608 | 1.2 | 5 | 349 | 517.091 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 654 | 0.7 | 582 | 1.0 | 2.5 | 654 | 0.8 | 4 | 376 | 555.927 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 753 | 0.6 | 671 | 0.9 | 2.1 | 753 | 0.9 | 4 | 433 | 640.800 | GKS06 - 4E □□□ 063C32 | E82MV 251_2B |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|----|----|------|-----|-----|----|-----|-----|-----|--------|-----------------------|--------------|
| 27 | 9 | 78 | 7.5 | 107 | 267 | 9 | 4.5 | 465 | 4.9 | 5.123 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 20 | 12 | 57 | 10.3 | 78 | 195 | 12 | 4.5 | 339 | 6.7 | 7.025 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 17 | 14 | 49 | 12 | 67 | 168 | 14 | 4.5 | 292 | 7.8 | 8.167 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 15 | 15 | 44 | 13.2 | 61 | 152 | 15 | 5.2 | 265 | 8.6 | 8.991 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 14 | 16 | 40 | 14.5 | 56 | 139 | 16 | 5.2 | 242 | 9.4 | 9.836 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 12 | 19 | 34 | 17 | 47 | 117 | 19 | 4.5 | 203 | 11 | 11.730 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 10 | 22 | 30 | 19 | 42 | 105 | 22 | 4.5 | 182 | 12 | 13.067 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 9.6 | 24 | 28 | 21 | 38 | 96 | 24 | 5.2 | 166 | 14 | 14.333 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 8.5 | 27 | 25 | 24 | 34 | 85 | 27 | 4.5 | 148 | 15 | 16.087 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 7.7 | 30 | 22 | 26 | 31 | 77 | 30 | 4.5 | 133 | 17 | 17.920 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 6.7 | 34 | 19 | 30 | 27 | 67 | 34 | 5.2 | 116 | 20 | 20.588 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 6.1 | 37 | 18 | 33 | 24 | 61 | 37 | 4.9 | 106 | 21 | 22.522 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 5.5 | 42 | 16 | 37 | 22 | 55 | 42 | 4.0 | 95 | 24 | 25.088 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 4.8 | 48 | 14 | 42 | 19 | 48 | 48 | 3.8 | 83 | 27 | 28.727 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 53 | 12 | 47 | 17 | 43 | 53 | 3.2 | 74 | 30 | 32.000 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 3.9 | 58 | 11 | 52 | 16 | 39 | 58 | 3.1 | 68 | 33 | 35.191 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 3.5 | 65 | 10 | 58 | 14 | 35 | 65 | 2.6 | 61 | 37 | 39.200 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 3.1 | 73 | 9 | 65 | 12 | 31 | 73 | 2.5 | 54 | 42 | 44.240 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.7 | 84 | 7.8 | 75 | 11 | 27 | 84 | 2.2 | 47 | 48 | 50.943 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.4 | 94 | 7 | 84 | 9.6 | 24 | 94 | 2.0 | 42 | 54 | 56.976 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.1 | 108 | 6.1 | 96 | 8.4 | 21 | 108 | 1.7 | 37 | 62 | 64.978 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 2.1 | 110 | 6 | 98 | 8.2 | 21 | 110 | 3.0 | 36 | 63 | 66.592 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.9 | 120 | 5.5 | 106 | 7.6 | 19 | 120 | 1.6 | 33 | 69 | 72.210 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.8 | 124 | 5.3 | 111 | 7.3 | 18 | 124 | 2.5 | 32 | 71 | 75.033 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 132 | 5 | 117 | 6.9 | 17 | 132 | 1.4 | 30 | 76 | 79.598 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 137 | 4.8 | 122 | 6.6 | 17 | 137 | 2.4 | 29 | 79 | 82.833 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 150 | 4.4 | 133 | 6.0 | 15 | 150 | 1.2 | 26 | 86 | 90.491 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.5 | 155 | 4.3 | 137 | 5.9 | 15 | 155 | 2.0 | 26 | 89 | 93.333 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 166 | 4 | 147 | 5.5 | 14 | 166 | 1.1 | 24 | 95 | 100.067 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.3 | 177 | 3.7 | 158 | 5.1 | 13 | 177 | 1.9 | 22 | 102 | 107.196 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 185 | 3.6 | 164 | 4.9 | 12 | 185 | 0.9 | 21 | 106 | 111.467 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 200 | 3.3 | 178 | 4.5 | 11 | 200 | 1.6 | 20 | 115 | 120.784 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 187 | 3.5 | 167 | 4.8 | 12 | 187 | 3.2 | 21 | 108 | 113.082 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 213 | 3.1 | 190 | 4.2 | 11 | 213 | 0.9 | 18 | 123 | 128.874 | GKS04 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 215 | 3.1 | 192 | 4.2 | 11 | 215 | 1.5 | 18 | 124 | 130.097 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 211 | 3.1 | 188 | 4.3 | 11 | 211 | 3.0 | 19 | 121 | 127.392 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 243 | 2.7 | 216 | 3.7 | 9.4 | 243 | 1.3 | 16 | 139 | 146.588 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 237 | 2.8 | 211 | 3.8 | 9.6 | 237 | 2.6 | 17 | 136 | 142.941 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 275 | 2.4 | 245 | 3.3 | 8.2 | 275 | 1.2 | 14 | 158 | 166.276 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 267 | 2.5 | 237 | 3.4 | 8.5 | 267 | 2.4 | 15 | 153 | 161.029 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 310 | 2.1 | 276 | 2.9 | 7.3 | 310 | 1.0 | 13 | 178 | 187.353 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.7 | 315 | 2.1 | 280 | 2.9 | 7.2 | 315 | 2.2 | 13 | 181 | 190.080 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 350 | 1.9 | 311 | 2.6 | 6.5 | 350 | 0.9 | 11 | 201 | 211.200 | GKS05 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 354 | 1.9 | 315 | 2.6 | 6.4 | 354 | 1.8 | 11 | 204 | 214.133 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.6 | 382 | 1.7 | 340 | 2.4 | 5.9 | 382 | 1.8 | 10 | 219 | 230.688 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 430 | 1.5 | 383 | 2.1 | 5.3 | 430 | 1.5 | 9 | 247 | 259.880 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.5 | 483 | 1.4 | 430 | 1.9 | 4.7 | 483 | 1.5 | 8 | 277 | 291.600 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 544 | 1.2 | 484 | 1.7 | 4.2 | 544 | 1.2 | 7 | 312 | 328.500 | GKS06 - 3E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 588 | 1.1 | 523 | 1.5 | 3.8 | 588 | 0.9 | 7 | 338 | 361.429 | GKS06 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.4 | 584 | 1.1 | 520 | 1.5 | 3.8 | 584 | 1.8 | 7 | 336 | 358.829 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 664 | 1 | 591 | 1.3 | 3.4 | 664 | 1.1 | 6 | 382 | 408.000 | GKS06 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 650 | 1 | 578 | 1.4 | 3.4 | 650 | 2.0 | 6 | 373 | 399.353 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 756 | 0.9 | 672 | 1.2 | 3.0 | 756 | 1.4 | 5 | 434 | 464.367 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 841 | 0.8 | 749 | 1.1 | 2.7 | 841 | 0.8 | 5 | 484 | 517.091 | GKS06 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.3 | 841 | 0.8 | 748 | 1.1 | 2.7 | 841 | 1.6 | 5 | 483 | 516.810 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|---|------|----------|-----------------------|--------------|
| 0.2 | 917 | 0.7 | 816 | 1.0 | 2.4 | 917 | 1.1 | 4 | 527 | 563.572 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1036 | 0.6 | 922 | 0.9 | 2.2 | 1036 | 1.3 | 4 | 595 | 636.581 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1113 | 0.6 | 990 | 0.8 | 2.0 | 1113 | 0.9 | 3 | 640 | 683.972 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1340 | 0.5 | 1193 | 0.7 | 1.7 | 1340 | 1.0 | 3 | 770 | 823.810 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.2 | 1330 | 0.5 | 1184 | 0.7 | 1.7 | 1330 | 2.3 | 3 | 764 | 817.551 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 1510 | 0.4 | 1344 | 0.6 | 1.5 | 1510 | 0.8 | 3 | 868 | 928.237 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 1499 | 0.4 | 1334 | 0.6 | 1.5 | 1499 | 2.1 | 3 | 862 | 921.367 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 1627 | 0.4 | 1448 | 0.5 | 1.4 | 1627 | 0.8 | 2 | 935 | 999.806 | GKS07 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 1614 | 0.4 | 1437 | 0.6 | 1.4 | 1614 | 1.9 | 2 | 928 | 992.209 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 1819 | 0.4 | 1619 | 0.5 | 1.2 | 1819 | 1.7 | 2 | 1046 | 1118.204 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 2041 | 0.3 | 1816 | 0.4 | 1.1 | 2041 | 1.5 | 2 | 1173 | 1254.197 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |
| 0.1 | 2300 | 0.3 | 2047 | 0.4 | 1.0 | 2300 | 1.3 | 2 | 1322 | 1413.461 | GKS09 - 4E □□□ 063C42 | E82MV 251_2B |

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 28 | 12 | 80 | 10.9 | 110 | 275 | 12 | 4.0 | 479 | 7 | 5.123 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 20 | 17 | 58 | 14.9 | 80 | 201 | 17 | 4.0 | 349 | 9.6 | 7.025 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 17 | 19 | 50 | 17 | 69 | 173 | 19 | 4.0 | 300 | 11 | 8.167 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 16 | 21 | 45 | 19 | 63 | 157 | 21 | 4.5 | 273 | 12 | 8.991 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 14 | 23 | 42 | 21 | 57 | 143 | 23 | 4.5 | 249 | 13 | 9.836 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 12 | 28 | 35 | 25 | 48 | 120 | 28 | 4.0 | 209 | 16 | 11.730 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 11 | 31 | 31 | 28 | 43 | 108 | 31 | 4.0 | 188 | 18 | 13.067 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 9.8 | 34 | 29 | 30 | 39 | 98 | 34 | 4.5 | 171 | 20 | 14.333 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 8.8 | 38 | 25 | 34 | 35 | 88 | 38 | 4.0 | 153 | 22 | 16.087 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 7.9 | 43 | 23 | 38 | 31 | 79 | 43 | 3.9 | 137 | 25 | 17.920 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 6.9 | 49 | 20 | 44 | 27 | 69 | 49 | 3.7 | 119 | 28 | 20.588 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 6.3 | 54 | 18 | 48 | 25 | 63 | 54 | 3.4 | 109 | 31 | 22.522 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 5.6 | 60 | 16 | 53 | 22 | 56 | 60 | 2.8 | 98 | 34 | 25.088 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 4.9 | 68 | 14 | 61 | 20 | 49 | 68 | 2.7 | 85 | 39 | 28.727 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 4.4 | 76 | 13 | 68 | 18 | 44 | 76 | 2.2 | 77 | 44 | 32.000 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 4.0 | 84 | 12 | 75 | 16 | 40 | 84 | 2.2 | 70 | 48 | 35.191 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 3.6 | 93 | 10 | 83 | 14 | 36 | 93 | 1.8 | 63 | 54 | 39.200 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 3.2 | 105 | 9.2 | 94 | 13 | 32 | 105 | 1.8 | 55 | 61 | 44.240 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 3.0 | 112 | 8.7 | 100 | 12 | 30 | 112 | 2.7 | 52 | 64 | 47.059 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.8 | 121 | 8 | 108 | 11 | 28 | 121 | 1.5 | 48 | 70 | 50.943 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.5 | 136 | 7.2 | 121 | 9.9 | 25 | 136 | 1.4 | 43 | 78 | 56.976 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.2 | 155 | 6.3 | 138 | 8.7 | 22 | 155 | 1.2 | 38 | 89 | 64.978 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.1 | 159 | 6.1 | 141 | 8.5 | 21 | 159 | 2.1 | 37 | 91 | 66.592 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 2.0 | 172 | 5.7 | 153 | 7.8 | 20 | 172 | 1.1 | 34 | 99 | 72.210 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.9 | 179 | 5.4 | 159 | 7.5 | 19 | 179 | 1.7 | 33 | 103 | 75.033 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.8 | 190 | 5.1 | 169 | 7.1 | 18 | 190 | 1.0 | 31 | 109 | 79.598 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.7 | 197 | 4.9 | 175 | 6.8 | 17 | 197 | 1.7 | 30 | 113 | 82.833 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 6-30 onwards

P₁ = 0.37 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|----------|-----------------------|--------------|
| 1.6 | 215 | 4.5 | 192 | 6.2 | 16 | 215 | 0.9 | 27 | 124 | 90.491 | GKS04 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.5 | 222 | 4.4 | 198 | 6.0 | 15 | 222 | 1.4 | 26 | 128 | 93.333 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.5 | 222 | 4.4 | 197 | 6.0 | 15 | 222 | 3.2 | 26 | 127 | 93.176 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.3 | 255 | 3.8 | 227 | 5.3 | 13 | 255 | 1.3 | 23 | 147 | 107.196 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.3 | 250 | 3.9 | 222 | 5.4 | 13 | 250 | 2.5 | 23 | 144 | 104.967 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.2 | 288 | 3.4 | 256 | 4.7 | 12 | 288 | 1.1 | 20 | 165 | 120.784 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.3 | 269 | 3.6 | 240 | 5.0 | 13 | 269 | 2.6 | 22 | 155 | 113.082 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 310 | 3.1 | 276 | 4.3 | 11 | 310 | 1.1 | 19 | 178 | 130.097 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.1 | 303 | 3.2 | 270 | 4.4 | 11 | 303 | 2.1 | 19 | 174 | 127.392 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 349 | 2.8 | 311 | 3.8 | 9.6 | 349 | 0.9 | 17 | 201 | 146.588 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 1.0 | 340 | 2.9 | 303 | 3.9 | 9.9 | 340 | 2.1 | 17 | 196 | 142.941 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.8 | 396 | 2.5 | 352 | 3.4 | 8.5 | 396 | 0.8 | 15 | 227 | 166.276 | GKS05 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.9 | 383 | 2.5 | 341 | 3.5 | 8.8 | 383 | 1.7 | 15 | 220 | 161.029 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 452 | 2.2 | 403 | 3.0 | 7.4 | 452 | 1.6 | 13 | 260 | 190.080 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.7 | 510 | 1.9 | 454 | 2.6 | 6.6 | 510 | 1.2 | 11 | 293 | 214.133 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.6 | 549 | 1.8 | 489 | 2.4 | 6.1 | 549 | 1.3 | 11 | 316 | 230.688 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 619 | 1.6 | 551 | 2.2 | 5.4 | 619 | 1.0 | 9 | 355 | 259.880 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.5 | 694 | 1.4 | 618 | 1.9 | 4.8 | 694 | 1.0 | 8 | 399 | 291.600 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 782 | 1.2 | 696 | 1.7 | 4.3 | 782 | 0.8 | 7 | 449 | 328.500 | GKS06 - 3E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 840 | 1.1 | 747 | 1.6 | 3.9 | 840 | 1.3 | 7 | 483 | 358.829 | GKS07 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.4 | 934 | 1 | 832 | 1.4 | 3.5 | 934 | 1.4 | 6 | 537 | 399.353 | GKS07 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1087 | 0.9 | 967 | 1.2 | 3.0 | 1087 | 1.0 | 5 | 624 | 464.367 | GKS07 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.3 | 1209 | 0.8 | 1076 | 1.1 | 2.7 | 1209 | 1.1 | 5 | 695 | 516.810 | GKS07 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1489 | 0.6 | 1326 | 0.9 | 2.2 | 1489 | 0.9 | 4 | 856 | 636.581 | GKS07 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 1913 | 0.5 | 1702 | 0.7 | 1.7 | 1913 | 1.6 | 3 | 1099 | 817.551 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.2 | 2156 | 0.4 | 1919 | 0.6 | 1.5 | 2156 | 1.4 | 3 | 1239 | 921.367 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.1 | 2322 | 0.4 | 2066 | 0.6 | 1.4 | 2322 | 1.3 | 2 | 1334 | 992.209 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.1 | 2616 | 0.4 | 2329 | 0.5 | 1.3 | 2616 | 1.2 | 2 | 1504 | 1118.204 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.1 | 2935 | 0.3 | 2612 | 0.4 | 1.1 | 2935 | 1.0 | 2 | 1686 | 1254.197 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |
| 0.1 | 3307 | 0.3 | 2943 | 0.4 | 1.0 | 3307 | 0.9 | 2 | 1901 | 1413.461 | GKS09 - 4E □□□ 071C32 | E82MV 371_2B |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|----|----|----|-----|-----|----|-----|-----|----|--------|-----------------------|--------------|
| 27 | 18 | 80 | 16 | 110 | 274 | 18 | 4.4 | 477 | 10 | 5.123 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 20 | 25 | 58 | 22 | 80 | 200 | 25 | 3.7 | 348 | 14 | 7.025 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 17 | 29 | 50 | 26 | 69 | 172 | 29 | 4.4 | 299 | 17 | 8.167 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 16 | 32 | 45 | 28 | 63 | 156 | 32 | 3.2 | 272 | 18 | 8.991 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 14 | 35 | 41 | 31 | 57 | 143 | 35 | 3.0 | 249 | 20 | 9.836 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 12 | 42 | 35 | 37 | 48 | 120 | 42 | 4.3 | 208 | 24 | 11.730 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 11 | 47 | 31 | 42 | 43 | 107 | 47 | 3.5 | 186 | 27 | 13.176 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 9.8 | 51 | 28 | 45 | 39 | 98 | 51 | 3.2 | 171 | 29 | 14.333 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 8.7 | 57 | 25 | 51 | 35 | 87 | 57 | 3.2 | 152 | 33 | 16.087 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|-----|---------|-----------------------|--------------|
| 7.8 | 64 | 23 | 57 | 31 | 78 | 64 | 2.6 | 136 | 37 | 17.920 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 6.8 | 73 | 20 | 65 | 27 | 68 | 73 | 2.5 | 119 | 42 | 20.588 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 6.2 | 80 | 18 | 71 | 25 | 62 | 80 | 2.3 | 109 | 46 | 22.522 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 5.6 | 89 | 16 | 79 | 22 | 56 | 89 | 1.9 | 97 | 51 | 25.088 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 4.9 | 102 | 14 | 91 | 20 | 49 | 102 | 1.8 | 85 | 59 | 28.727 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 4.7 | 106 | 14 | 95 | 19 | 47 | 106 | 3.1 | 82 | 61 | 29.931 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 4.4 | 114 | 13 | 101 | 18 | 44 | 114 | 1.5 | 76 | 65 | 32.000 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 4.3 | 116 | 12 | 103 | 17 | 43 | 116 | 2.8 | 75 | 67 | 32.744 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 4.0 | 125 | 12 | 111 | 16 | 40 | 125 | 1.5 | 69 | 72 | 35.191 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 3.8 | 131 | 11 | 117 | 15 | 38 | 131 | 2.3 | 66 | 75 | 36.894 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 3.6 | 139 | 10 | 124 | 14 | 36 | 139 | 1.2 | 62 | 80 | 39.200 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 3.4 | 148 | 9.8 | 132 | 13 | 34 | 148 | 2.2 | 59 | 85 | 41.765 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 3.2 | 157 | 9.2 | 140 | 13 | 32 | 157 | 1.2 | 55 | 90 | 44.240 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 3.0 | 167 | 8.7 | 149 | 12 | 30 | 167 | 1.8 | 52 | 96 | 47.059 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.8 | 181 | 8 | 161 | 11 | 28 | 181 | 1.0 | 48 | 104 | 50.943 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.8 | 182 | 8 | 162 | 11 | 28 | 182 | 1.8 | 48 | 104 | 51.162 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.5 | 202 | 7.2 | 180 | 9.9 | 25 | 202 | 0.9 | 43 | 116 | 56.976 | GKS04 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.4 | 205 | 7.1 | 182 | 9.8 | 24 | 205 | 1.5 | 42 | 118 | 57.647 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.1 | 236 | 6.1 | 210 | 8.4 | 21 | 236 | 1.4 | 37 | 136 | 66.592 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.2 | 232 | 6.2 | 206 | 8.6 | 22 | 232 | 2.7 | 37 | 133 | 65.207 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.9 | 266 | 5.4 | 237 | 7.5 | 19 | 266 | 1.2 | 33 | 153 | 75.033 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 2.0 | 256 | 5.7 | 228 | 7.8 | 20 | 256 | 2.7 | 34 | 147 | 72.000 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.7 | 294 | 4.9 | 262 | 6.8 | 17 | 294 | 1.1 | 30 | 169 | 82.833 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.7 | 288 | 5 | 256 | 6.9 | 17 | 288 | 2.2 | 30 | 166 | 81.111 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.5 | 331 | 4.4 | 295 | 6.0 | 15 | 331 | 1.0 | 26 | 190 | 93.333 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.5 | 331 | 4.4 | 294 | 6.0 | 15 | 331 | 2.1 | 26 | 190 | 93.176 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.3 | 381 | 3.8 | 339 | 5.2 | 13 | 381 | 0.9 | 23 | 219 | 107.196 | GKS05 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.3 | 373 | 3.9 | 332 | 5.4 | 13 | 373 | 1.7 | 23 | 214 | 104.967 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 402 | 3.6 | 357 | 5.0 | 12 | 402 | 1.7 | 22 | 231 | 113.082 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 452 | 3.2 | 403 | 4.4 | 11 | 452 | 1.4 | 19 | 260 | 127.392 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 508 | 2.9 | 452 | 3.9 | 9.8 | 508 | 1.4 | 17 | 292 | 142.941 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.9 | 572 | 2.5 | 509 | 3.5 | 8.7 | 572 | 1.1 | 15 | 329 | 161.029 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 675 | 2.1 | 601 | 3.0 | 7.4 | 675 | 1.0 | 13 | 388 | 190.080 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 760 | 1.9 | 677 | 2.6 | 6.6 | 760 | 0.8 | 11 | 437 | 214.133 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 819 | 1.8 | 729 | 2.4 | 6.1 | 819 | 0.9 | 11 | 471 | 230.688 | GKS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 861 | 1.7 | 766 | 2.3 | 5.7 | 861 | 1.5 | 10 | 495 | 246.659 | GKS07 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 954 | 1.5 | 849 | 2.1 | 5.1 | 954 | 1.1 | 9 | 548 | 273.199 | GKS07 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1121 | 1.3 | 997 | 1.8 | 4.4 | 1121 | 1.2 | 8 | 644 | 321.049 | GKS07 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1129 | 1.3 | 1005 | 1.7 | 4.3 | 1129 | 2.7 | 8 | 649 | 323.365 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1252 | 1.1 | 1115 | 1.6 | 3.9 | 1252 | 0.8 | 7 | 720 | 358.829 | GKS07 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1272 | 1.1 | 1132 | 1.5 | 3.9 | 1272 | 2.4 | 7 | 731 | 364.427 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1394 | 1 | 1241 | 1.4 | 3.5 | 1394 | 0.9 | 6 | 801 | 399.353 | GKS07 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1404 | 1 | 1250 | 1.4 | 3.5 | 1404 | 2.2 | 6 | 807 | 402.234 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1582 | 0.9 | 1408 | 1.2 | 3.1 | 1582 | 1.9 | 5 | 909 | 453.311 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 6-30 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|---|------|---------|-----------------------|--------------|
| 0.3 | 1817 | 0.8 | 1617 | 1.1 | 2.7 | 1817 | 1.7 | 5 | 1044 | 520.538 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2048 | 0.7 | 1822 | 1.0 | 2.4 | 2048 | 1.5 | 4 | 1177 | 586.638 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2205 | 0.6 | 1962 | 0.9 | 2.2 | 2205 | 1.4 | 4 | 1267 | 631.744 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2485 | 0.6 | 2212 | 0.8 | 2.0 | 2485 | 1.2 | 3 | 1428 | 711.965 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 2854 | 0.5 | 2540 | 0.7 | 1.7 | 2854 | 1.1 | 3 | 1640 | 817.551 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.2 | 3216 | 0.4 | 2862 | 0.6 | 1.5 | 3216 | 1.0 | 3 | 1848 | 921.367 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |
| 0.1 | 3463 | 0.4 | 3082 | 0.6 | 1.4 | 3463 | 0.9 | 2 | 1990 | 992.209 | GKS09 - 4E □□□ 071C42 | E82MV 551_4B |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 28 | 25 | 80 | 22 | 110 | 275 | 25 | 3.3 | 479 | 14 | 5.123 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 20 | 34 | 58 | 30 | 80 | 201 | 34 | 2.7 | 349 | 19 | 7.025 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 17 | 39 | 50 | 35 | 69 | 173 | 39 | 3.3 | 300 | 23 | 8.167 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 16 | 43 | 45 | 39 | 63 | 157 | 43 | 2.4 | 273 | 25 | 8.991 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 14 | 48 | 42 | 42 | 57 | 143 | 48 | 2.2 | 249 | 27 | 9.836 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 12 | 57 | 35 | 50 | 48 | 120 | 57 | 3.2 | 209 | 33 | 11.730 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 11 | 64 | 31 | 57 | 43 | 107 | 64 | 2.6 | 186 | 37 | 13.176 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 11 | 63 | 31 | 56 | 43 | 108 | 63 | 2.6 | 188 | 36 | 13.067 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 9.8 | 69 | 29 | 62 | 39 | 98 | 69 | 2.4 | 171 | 40 | 14.333 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 8.8 | 78 | 25 | 69 | 35 | 88 | 78 | 2.3 | 153 | 45 | 16.087 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 7.9 | 87 | 23 | 77 | 31 | 79 | 87 | 1.9 | 137 | 50 | 17.920 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 6.9 | 99 | 20 | 88 | 27 | 69 | 99 | 1.8 | 119 | 57 | 20.588 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 6.3 | 109 | 18 | 97 | 25 | 63 | 109 | 1.7 | 109 | 62 | 22.522 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 5.6 | 121 | 16 | 108 | 22 | 56 | 121 | 1.4 | 98 | 70 | 25.088 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 4.9 | 139 | 14 | 123 | 20 | 49 | 139 | 1.3 | 85 | 80 | 28.727 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 4.7 | 144 | 14 | 129 | 19 | 47 | 144 | 2.3 | 82 | 83 | 29.931 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 4.4 | 154 | 13 | 137 | 18 | 44 | 154 | 1.1 | 77 | 89 | 32.000 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 4.3 | 158 | 12 | 141 | 17 | 43 | 158 | 2.1 | 75 | 91 | 32.744 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 4.0 | 170 | 12 | 151 | 16 | 40 | 170 | 1.1 | 70 | 98 | 35.191 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 3.8 | 178 | 11 | 158 | 15 | 38 | 178 | 1.7 | 66 | 102 | 36.894 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 3.6 | 189 | 10 | 168 | 14 | 36 | 189 | 0.9 | 63 | 109 | 39.200 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 3.4 | 202 | 9.8 | 179 | 14 | 34 | 202 | 1.6 | 59 | 116 | 41.765 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 3.2 | 213 | 9.2 | 190 | 13 | 32 | 213 | 0.9 | 55 | 123 | 44.240 | GKS04 - 3E □□□ 080C32 | E82MV 751_4B |
| 3.0 | 227 | 8.7 | 202 | 12 | 30 | 227 | 1.3 | 52 | 130 | 47.059 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.8 | 247 | 8 | 220 | 11 | 28 | 247 | 1.3 | 48 | 142 | 51.162 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.5 | 278 | 7.1 | 248 | 9.8 | 25 | 278 | 1.1 | 43 | 160 | 57.647 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.4 | 279 | 7.1 | 249 | 9.8 | 24 | 279 | 2.5 | 42 | 160 | 57.882 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.1 | 321 | 6.1 | 286 | 8.5 | 21 | 321 | 1.0 | 37 | 185 | 66.592 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.2 | 315 | 6.3 | 280 | 8.6 | 22 | 315 | 2.0 | 38 | 181 | 65.207 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.9 | 362 | 5.4 | 322 | 7.5 | 19 | 362 | 0.9 | 33 | 208 | 75.033 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 2.0 | 347 | 5.7 | 309 | 7.8 | 20 | 347 | 2.0 | 34 | 200 | 72.000 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.7 | 400 | 4.9 | 356 | 6.8 | 17 | 400 | 0.8 | 30 | 230 | 82.833 | GKS05 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.7 | 391 | 5 | 348 | 7.0 | 17 | 391 | 1.6 | 30 | 225 | 81.111 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.5 | 450 | 4.4 | 400 | 6.0 | 15 | 450 | 1.6 | 26 | 258 | 93.176 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.5 | 447 | 4.4 | 397 | 6.1 | 15 | 447 | 2.9 | 27 | 257 | 92.563 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|----------|-----------------------|--------------|
| 1.3 | 506 | 3.9 | 451 | 5.4 | 13 | 506 | 1.3 | 23 | 291 | 104.967 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.4 | 503 | 3.9 | 448 | 5.4 | 14 | 503 | 2.4 | 24 | 289 | 104.296 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.3 | 546 | 3.6 | 486 | 5.0 | 13 | 546 | 1.3 | 22 | 314 | 113.082 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.3 | 542 | 3.6 | 482 | 5.0 | 13 | 542 | 2.5 | 22 | 311 | 112.338 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 615 | 3.2 | 547 | 4.4 | 11 | 615 | 1.0 | 19 | 353 | 127.392 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.1 | 611 | 3.2 | 544 | 4.4 | 11 | 611 | 2.0 | 19 | 351 | 126.578 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 1.0 | 690 | 2.9 | 614 | 3.9 | 9.9 | 690 | 1.0 | 17 | 396 | 142.941 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.9 | 777 | 2.5 | 691 | 3.5 | 8.8 | 777 | 0.8 | 15 | 447 | 161.029 | GKS06 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.8 | 891 | 2.2 | 793 | 3.1 | 7.6 | 891 | 1.5 | 13 | 512 | 184.600 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.7 | 1004 | 2 | 893 | 2.7 | 6.8 | 1004 | 1.2 | 12 | 577 | 208.000 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1081 | 1.8 | 962 | 2.5 | 6.3 | 1081 | 1.2 | 11 | 621 | 224.037 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.6 | 1218 | 1.6 | 1084 | 2.2 | 5.6 | 1218 | 1.0 | 10 | 700 | 252.436 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.5 | 1366 | 1.4 | 1216 | 2.0 | 5.0 | 1366 | 1.0 | 9 | 785 | 283.193 | GKS07 - 3E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1523 | 1.3 | 1355 | 1.8 | 4.4 | 1523 | 0.9 | 8 | 875 | 321.049 | GKS07 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1534 | 1.3 | 1365 | 1.7 | 4.4 | 1534 | 2.0 | 8 | 881 | 323.365 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1728 | 1.1 | 1538 | 1.5 | 3.9 | 1728 | 1.8 | 7 | 993 | 364.427 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.4 | 1908 | 1 | 1698 | 1.4 | 3.5 | 1908 | 1.6 | 6 | 1096 | 402.234 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2150 | 0.9 | 1913 | 1.2 | 3.1 | 2150 | 1.4 | 5 | 1236 | 453.311 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.3 | 2469 | 0.8 | 2197 | 1.1 | 2.7 | 2469 | 1.2 | 5 | 1419 | 520.538 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 2782 | 0.7 | 2476 | 1.0 | 2.4 | 2782 | 1.1 | 4 | 1599 | 586.638 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 2996 | 0.6 | 2667 | 0.9 | 2.2 | 2996 | 1.0 | 4 | 1722 | 631.744 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 3377 | 0.6 | 3005 | 0.8 | 2.0 | 3377 | 0.9 | 3 | 1941 | 711.965 | GKS09 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 3872 | 0.5 | 3446 | 0.7 | 1.7 | 3872 | 1.5 | 3 | 2225 | 816.455 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.2 | 4363 | 0.4 | 3883 | 0.6 | 1.5 | 4363 | 1.4 | 3 | 2508 | 919.949 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.1 | 4700 | 0.4 | 4183 | 0.6 | 1.4 | 4700 | 1.3 | 2 | 2701 | 990.879 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.1 | 5295 | 0.4 | 4713 | 0.5 | 1.3 | 5295 | 1.1 | 2 | 3043 | 1116.484 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.1 | 5940 | 0.3 | 5287 | 0.5 | 1.1 | 5940 | 1.0 | 2 | 3414 | 1252.516 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |
| 0.1 | 6693 | 0.3 | 5957 | 0.4 | 1.0 | 6693 | 0.9 | 2 | 3847 | 1411.286 | GKS11 - 4E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Getriebemotoren 8200 mit motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 30 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 27 | 37 | 79 | 31 | 163 | 271 | 37 | 2.2 | 472 | 21 | 5.123 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 20 | 50 | 57 | 42 | 119 | 198 | 50 | 1.8 | 344 | 29 | 7.025 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 20 | 49 | 59 | 41 | 122 | 203 | 49 | 3.0 | 352 | 28 | 6.863 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 17 | 59 | 49 | 49 | 102 | 170 | 59 | 2.2 | 296 | 34 | 8.167 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 15 | 65 | 45 | 54 | 93 | 155 | 65 | 1.6 | 269 | 37 | 8.991 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 15 | 68 | 43 | 57 | 89 | 148 | 68 | 2.4 | 257 | 39 | 9.412 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 14 | 71 | 41 | 59 | 85 | 141 | 71 | 1.5 | 246 | 41 | 9.836 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 13 | 76 | 38 | 64 | 79 | 132 | 76 | 3.0 | 229 | 44 | 10.569 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 12 | 84 | 34 | 71 | 71 | 119 | 84 | 2.1 | 206 | 48 | 11.730 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 12 | 84 | 35 | 70 | 71 | 119 | 84 | 3.0 | 207 | 48 | 11.667 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 11 | 95 | 31 | 79 | 63 | 106 | 95 | 1.7 | 184 | 54 | 13.176 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 11 | 94 | 31 | 79 | 64 | 106 | 94 | 1.8 | 185 | 54 | 13.067 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 9.7 | 103 | 28 | 86 | 58 | 97 | 103 | 1.6 | 169 | 59 | 14.333 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 9.6 | 104 | 28 | 87 | 58 | 96 | 104 | 2.4 | 167 | 60 | 14.494 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 8.6 | 116 | 25 | 97 | 52 | 86 | 116 | 1.6 | 150 | 66 | 16.087 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 8.7 | 115 | 25 | 96 | 52 | 87 | 115 | 2.4 | 151 | 66 | 16.000 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 7.8 | 129 | 22 | 108 | 47 | 78 | 129 | 1.3 | 135 | 74 | 17.920 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 8.2 | 122 | 24 | 103 | 49 | 82 | 122 | 2.6 | 142 | 70 | 17.054 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 6.8 | 148 | 20 | 124 | 41 | 68 | 148 | 1.2 | 117 | 85 | 20.588 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 7.2 | 138 | 21 | 116 | 43 | 72 | 138 | 2.2 | 126 | 79 | 19.216 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 6.2 | 162 | 18 | 136 | 37 | 62 | 162 | 1.1 | 107 | 93 | 22.522 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 5.9 | 168 | 17 | 141 | 36 | 59 | 168 | 2.0 | 103 | 96 | 23.388 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 5.3 | 189 | 15 | 159 | 32 | 53 | 189 | 1.6 | 92 | 109 | 26.353 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 5.5 | 180 | 16 | 151 | 33 | 55 | 180 | 0.9 | 96 | 103 | 25.088 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 4.8 | 206 | 14 | 173 | 29 | 48 | 206 | 0.9 | 84 | 119 | 28.727 | GKS04 - 3E □□□ 080C42 | E82MV 152_4B |
| 4.6 | 215 | 13 | 180 | 28 | 46 | 215 | 1.5 | 81 | 123 | 29.931 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 4.3 | 235 | 12 | 197 | 26 | 43 | 235 | 1.4 | 74 | 135 | 32.744 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 4.3 | 230 | 13 | 193 | 26 | 43 | 230 | 2.7 | 75 | 132 | 32.063 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 265 | 11 | 222 | 23 | 38 | 265 | 1.1 | 66 | 152 | 36.894 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 3.8 | 261 | 11 | 219 | 23 | 38 | 261 | 2.6 | 67 | 150 | 36.303 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 3.3 | 300 | 9.7 | 252 | 20 | 33 | 300 | 1.1 | 58 | 172 | 41.765 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 3.0 | 338 | 8.6 | 284 | 18 | 30 | 338 | 0.9 | 51 | 194 | 47.059 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 3.1 | 319 | 9.1 | 268 | 19 | 31 | 319 | 2.2 | 54 | 183 | 44.471 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.7 | 367 | 7.9 | 308 | 16 | 27 | 367 | 0.9 | 47 | 211 | 51.162 | GKS05 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.6 | 381 | 7.6 | 320 | 16 | 26 | 381 | 1.8 | 46 | 219 | 53.074 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.4 | 416 | 7 | 349 | 14 | 24 | 416 | 1.7 | 42 | 239 | 57.882 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.4 | 413 | 7 | 347 | 15 | 24 | 413 | 3.2 | 42 | 237 | 57.501 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.1 | 468 | 6.2 | 393 | 13 | 21 | 468 | 1.3 | 37 | 269 | 65.207 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.2 | 465 | 6.2 | 391 | 13 | 22 | 465 | 2.6 | 37 | 267 | 64.790 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.9 | 517 | 5.6 | 434 | 12 | 19 | 517 | 1.4 | 34 | 297 | 72.000 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 2.0 | 506 | 5.7 | 425 | 12 | 20 | 506 | 2.6 | 34 | 291 | 70.474 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.7 | 582 | 5 | 489 | 10 | 17 | 582 | 1.1 | 30 | 335 | 81.111 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.8 | 570 | 5.1 | 479 | 11 | 18 | 570 | 2.1 | 30 | 328 | 79.407 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.5 | 669 | 4.3 | 562 | 8.9 | 15 | 669 | 1.1 | 26 | 384 | 93.176 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.5 | 664 | 4.4 | 558 | 9.0 | 15 | 664 | 2.0 | 26 | 382 | 92.563 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.3 | 754 | 3.8 | 633 | 7.9 | 13 | 754 | 0.8 | 23 | 433 | 104.967 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.3 | 749 | 3.9 | 629 | 8.0 | 13 | 749 | 1.6 | 23 | 430 | 104.296 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|----------------------------|------------|
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 30 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 6-30 onwards

P₁ = 1.1 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|------|---------|-----------------------|--------------|
| 1.2 | 812 | 3.6 | 682 | 7.4 | 12 | 812 | 0.9 | 21 | 467 | 113.082 | GKS06 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.2 | 806 | 3.6 | 677 | 7.4 | 12 | 806 | 1.6 | 22 | 463 | 112.338 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.1 | 909 | 3.2 | 763 | 6.6 | 11 | 909 | 1.3 | 19 | 522 | 126.578 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 1.0 | 1009 | 2.9 | 847 | 5.9 | 9.9 | 1009 | 1.3 | 17 | 580 | 140.548 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.9 | 1137 | 2.5 | 955 | 5.3 | 8.8 | 1137 | 1.1 | 15 | 653 | 158.364 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.8 | 1325 | 2.2 | 1113 | 4.5 | 7.5 | 1325 | 1.0 | 13 | 762 | 184.600 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.7 | 1493 | 1.9 | 1254 | 4.0 | 6.7 | 1493 | 0.8 | 12 | 858 | 208.000 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1608 | 1.8 | 1351 | 3.7 | 6.2 | 1608 | 0.8 | 11 | 924 | 224.037 | GKS07 - 3E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1627 | 1.7 | 1367 | 3.6 | 6.0 | 1627 | 1.9 | 10 | 935 | 230.577 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.6 | 1753 | 1.6 | 1473 | 3.4 | 5.6 | 1753 | 1.7 | 10 | 1007 | 248.439 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.5 | 1976 | 1.4 | 1660 | 3.0 | 5.0 | 1976 | 1.6 | 9 | 1135 | 279.986 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2282 | 1.2 | 1917 | 2.6 | 4.3 | 2282 | 1.3 | 7 | 1311 | 323.365 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2279 | 1.2 | 1914 | 2.6 | 4.3 | 2279 | 2.6 | 7 | 1310 | 322.931 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2571 | 1.1 | 2160 | 2.3 | 3.8 | 2571 | 1.2 | 7 | 1478 | 364.427 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2568 | 1.1 | 2157 | 2.3 | 3.8 | 2568 | 2.3 | 7 | 1476 | 363.866 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 2838 | 1 | 2384 | 2.1 | 3.5 | 2838 | 1.1 | 6 | 1631 | 402.234 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.4 | 2793 | 1 | 2346 | 2.1 | 3.5 | 2793 | 2.1 | 6 | 1605 | 395.787 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3199 | 0.9 | 2687 | 1.8 | 3.1 | 3199 | 1.0 | 5 | 1838 | 453.311 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3147 | 0.9 | 2643 | 1.9 | 3.1 | 3147 | 1.9 | 5 | 1808 | 445.958 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3673 | 0.8 | 3085 | 1.6 | 2.7 | 3673 | 0.8 | 5 | 2111 | 520.538 | GKS09 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.3 | 3614 | 0.8 | 3036 | 1.6 | 2.7 | 3614 | 1.7 | 5 | 2077 | 512.196 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 4072 | 0.7 | 3421 | 1.4 | 2.4 | 4072 | 1.5 | 4 | 2340 | 577.122 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 4386 | 0.6 | 3684 | 1.3 | 2.2 | 4386 | 1.4 | 4 | 2521 | 621.619 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 4942 | 0.6 | 4151 | 1.2 | 2.0 | 4942 | 1.2 | 3 | 2840 | 700.416 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 5761 | 0.5 | 4839 | 1.0 | 1.7 | 5761 | 1.0 | 3 | 3311 | 816.455 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.2 | 6491 | 0.4 | 5453 | 0.9 | 1.5 | 6491 | 0.9 | 3 | 3731 | 919.949 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |
| 0.1 | 6992 | 0.4 | 5873 | 0.8 | 1.4 | 6992 | 0.9 | 2 | 4018 | 990.879 | GKS11 - 4E □□□ 080C42 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|-----|-----|-----|------|-----|-----|-----|---------|-----------------------|--------------|
| 27 | 50 | 79 | 45 | 109 | 271 | 50 | 1.6 | 472 | 29 | 5.123 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 20 | 69 | 57 | 61 | 79 | 198 | 69 | 1.3 | 344 | 40 | 7.025 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 20 | 67 | 59 | 60 | 81 | 203 | 67 | 2.2 | 352 | 39 | 6.863 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 17 | 80 | 49 | 71 | 68 | 170 | 80 | 1.6 | 296 | 46 | 8.167 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 15 | 88 | 45 | 78 | 62 | 155 | 88 | 1.2 | 269 | 51 | 8.991 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 15 | 92 | 43 | 82 | 59 | 148 | 92 | 1.8 | 257 | 53 | 9.412 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 14 | 96 | 41 | 86 | 57 | 141 | 96 | 1.1 | 246 | 55 | 9.836 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 13 | 103 | 38 | 92 | 53 | 132 | 103 | 2.2 | 229 | 59 | 10.569 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 12 | 115 | 34 | 102 | 47 | 119 | 115 | 1.6 | 206 | 66 | 11.730 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 12 | 114 | 35 | 102 | 48 | 119 | 114 | 2.2 | 207 | 66 | 11.667 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 12 | 111 | 35 | 99 | 49 | 122 | 111 | 3.0 | 212 | 64 | 11.382 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 11 | 129 | 31 | 115 | 42 | 106 | 129 | 1.3 | 184 | 74 | 13.176 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 11 | 128 | 31 | 114 | 43 | 106 | 128 | 1.3 | 185 | 74 | 13.067 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 9.7 | 140 | 28 | 125 | 39 | 97 | 140 | 1.2 | 169 | 81 | 14.333 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 9.6 | 142 | 28 | 126 | 38 | 96 | 142 | 1.8 | 167 | 82 | 14.494 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 8.6 | 158 | 25 | 140 | 35 | 86 | 158 | 1.1 | 150 | 90 | 16.087 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 8.7 | 157 | 25 | 139 | 35 | 87 | 157 | 1.8 | 151 | 90 | 16.000 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 7.8 | 175 | 22 | 156 | 31 | 78 | 175 | 0.9 | 135 | 101 | 17.920 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 8.2 | 167 | 24 | 149 | 33 | 82 | 167 | 1.9 | 142 | 96 | 17.054 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 7.8 | 174 | 23 | 155 | 31 | 78 | 174 | 3.0 | 136 | 100 | 17.809 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 6.8 | 202 | 20 | 179 | 27 | 68 | 202 | 0.9 | 117 | 116 | 20.588 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 7.2 | 188 | 21 | 167 | 29 | 72 | 188 | 1.6 | 126 | 108 | 19.216 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 6.2 | 221 | 18 | 196 | 25 | 62 | 221 | 0.8 | 107 | 127 | 22.522 | GKS04 - 3E □□□ 090C32 | E82MV 152_4B |
| 5.9 | 229 | 17 | 204 | 24 | 59 | 229 | 1.4 | 103 | 132 | 23.388 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 5.3 | 258 | 15 | 230 | 21 | 53 | 258 | 1.2 | 92 | 148 | 26.353 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 5.3 | 255 | 15 | 227 | 21 | 53 | 255 | 2.7 | 93 | 146 | 26.017 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 4.6 | 293 | 13 | 261 | 19 | 46 | 293 | 1.1 | 81 | 168 | 29.931 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 4.9 | 279 | 14 | 248 | 20 | 49 | 279 | 2.4 | 85 | 160 | 28.461 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 321 | 12 | 285 | 17 | 43 | 321 | 1.0 | 74 | 184 | 32.744 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 4.3 | 314 | 13 | 279 | 17 | 43 | 314 | 1.9 | 75 | 180 | 32.063 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 361 | 11 | 321 | 15 | 38 | 361 | 0.8 | 66 | 208 | 36.894 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 3.8 | 355 | 11 | 316 | 15 | 38 | 355 | 1.9 | 67 | 204 | 36.303 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 3.3 | 409 | 9.7 | 364 | 13 | 33 | 409 | 0.8 | 58 | 235 | 41.765 | GKS05 - 3E □□□ 090C32 | E82MV 152_4B |
| 3.1 | 435 | 9.1 | 387 | 13 | 31 | 435 | 1.6 | 54 | 250 | 44.471 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.6 | 520 | 7.6 | 462 | 10 | 26 | 520 | 1.3 | 46 | 299 | 53.074 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.4 | 567 | 7 | 504 | 9.6 | 24 | 567 | 1.2 | 42 | 326 | 57.882 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.4 | 563 | 7 | 501 | 9.7 | 24 | 563 | 2.3 | 42 | 323 | 57.501 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.1 | 638 | 6.2 | 568 | 8.5 | 21 | 638 | 1.0 | 37 | 367 | 65.207 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.2 | 634 | 6.2 | 564 | 8.6 | 22 | 634 | 1.9 | 37 | 364 | 64.790 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.9 | 705 | 5.6 | 627 | 7.7 | 19 | 705 | 1.0 | 34 | 405 | 72.000 | GKS06 - 3E □□□ 090C32 | E82MV 152_4B |
| 2.0 | 690 | 5.7 | 614 | 7.9 | 20 | 690 | 1.9 | 34 | 396 | 70.474 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.8 | 777 | 5.1 | 692 | 7.0 | 18 | 777 | 1.6 | 30 | 447 | 79.407 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 906 | 4.4 | 806 | 6.0 | 15 | 906 | 1.5 | 26 | 521 | 92.563 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.5 | 899 | 4.4 | 800 | 6.0 | 15 | 899 | 2.8 | 26 | 517 | 91.860 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.3 | 1021 | 3.9 | 909 | 5.3 | 13 | 1021 | 1.2 | 23 | 587 | 104.296 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.3 | 1013 | 3.9 | 902 | 5.4 | 13 | 1013 | 2.8 | 23 | 582 | 103.524 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.2 | 1100 | 3.6 | 979 | 5.0 | 12 | 1100 | 1.2 | 22 | 632 | 112.338 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.3 | 1091 | 3.6 | 971 | 5.0 | 13 | 1091 | 2.5 | 22 | 627 | 111.484 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|---------------------------------|------------|---------------------------------|------------------------|--|---|----------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ 50 Hz [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 6-30 onwards

P₁ = 1.5 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|----------|-----------------------|--------------|
| 1.1 | 1239 | 3.2 | 1103 | 4.4 | 11 | 1239 | 1.0 | 19 | 712 | 126.578 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.1 | 1230 | 3.2 | 1095 | 4.4 | 11 | 1230 | 2.5 | 19 | 707 | 125.641 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.0 | 1376 | 2.9 | 1224 | 4.0 | 9.9 | 1376 | 1.0 | 17 | 791 | 140.548 | GKS07 - 3E □□□ 090C32 | E82MV 152_4B |
| 1.0 | 1379 | 2.9 | 1228 | 3.9 | 9.9 | 1379 | 1.9 | 17 | 793 | 140.921 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1555 | 2.5 | 1384 | 3.5 | 8.8 | 1555 | 1.9 | 15 | 893 | 158.816 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1782 | 2.2 | 1586 | 3.1 | 7.6 | 1782 | 1.7 | 13 | 1024 | 182.000 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.7 | 2008 | 2 | 1787 | 2.7 | 6.8 | 2008 | 1.5 | 12 | 1154 | 205.111 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2162 | 1.8 | 1924 | 2.5 | 6.3 | 2162 | 1.4 | 11 | 1243 | 220.882 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.6 | 2437 | 1.6 | 2169 | 2.2 | 5.6 | 2437 | 1.3 | 10 | 1400 | 248.930 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.5 | 2733 | 1.4 | 2432 | 2.0 | 5.0 | 2733 | 1.1 | 9 | 1571 | 279.205 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3080 | 1.3 | 2741 | 1.8 | 4.4 | 3080 | 1.0 | 8 | 1770 | 314.659 | GKS09 - 3E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3111 | 1.2 | 2769 | 1.7 | 4.3 | 3111 | 1.0 | 7 | 1788 | 323.365 | GKS09 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3107 | 1.2 | 2765 | 1.7 | 4.3 | 3107 | 1.9 | 7 | 1786 | 322.931 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3507 | 1.1 | 3121 | 1.5 | 3.8 | 3507 | 0.9 | 7 | 2015 | 364.427 | GKS09 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3501 | 1.1 | 3116 | 1.5 | 3.8 | 3501 | 1.7 | 7 | 2012 | 363.866 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.4 | 3808 | 1 | 3389 | 1.4 | 3.5 | 3808 | 1.6 | 6 | 2189 | 395.787 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 4291 | 0.9 | 3819 | 1.2 | 3.1 | 4291 | 1.4 | 5 | 2466 | 445.958 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.3 | 4928 | 0.8 | 4386 | 1.1 | 2.7 | 4928 | 1.2 | 5 | 2832 | 512.196 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 5553 | 0.7 | 4942 | 1.0 | 2.4 | 5553 | 1.1 | 4 | 3191 | 577.122 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 5981 | 0.6 | 5323 | 0.9 | 2.2 | 5981 | 1.0 | 4 | 3437 | 621.619 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 6739 | 0.6 | 5998 | 0.8 | 2.0 | 6739 | 0.9 | 3 | 3873 | 700.416 | GKS11 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 7754 | 0.5 | 6901 | 0.7 | 1.7 | 7754 | 1.5 | 3 | 4457 | 805.901 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.2 | 8737 | 0.4 | 7776 | 0.6 | 1.5 | 8737 | 1.3 | 3 | 5021 | 908.058 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.1 | 9411 | 0.4 | 8376 | 0.6 | 1.4 | 9411 | 1.2 | 2 | 5409 | 978.071 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.1 | 10604 | 0.4 | 9437 | 0.5 | 1.3 | 10604 | 1.1 | 2 | 6094 | 1102.052 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.1 | 11896 | 0.3 | 10587 | 0.4 | 1.1 | 11896 | 1.0 | 2 | 6837 | 1236.326 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |
| 0.1 | 13404 | 0.3 | 11929 | 0.4 | 1.0 | 13404 | 0.9 | 2 | 7703 | 1393.043 | GKS14 - 4E □□□ 090C32 | E82MV 152_4B |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 22 | 90 | 64 | 80 | 89 | 222 | 90 | 2.9 | 386 | 52 | 6.485 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 21 | 95 | 61 | 85 | 84 | 210 | 95 | 1.6 | 365 | 55 | 6.863 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 15 | 130 | 44 | 116 | 61 | 153 | 130 | 1.3 | 266 | 75 | 9.412 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 16 | 127 | 45 | 113 | 63 | 157 | 127 | 2.9 | 272 | 73 | 9.196 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 14 | 147 | 40 | 130 | 55 | 136 | 147 | 1.6 | 237 | 84 | 10.569 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 14 | 141 | 41 | 125 | 57 | 142 | 141 | 2.9 | 247 | 81 | 10.147 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 12 | 162 | 36 | 144 | 49 | 123 | 162 | 1.6 | 215 | 93 | 11.667 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 13 | 158 | 37 | 140 | 51 | 127 | 158 | 2.1 | 220 | 91 | 11.382 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 11 | 183 | 32 | 163 | 44 | 109 | 183 | 0.9 | 190 | 105 | 13.176 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 11 | 175 | 33 | 156 | 46 | 114 | 175 | 2.4 | 199 | 100 | 12.612 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 9.9 | 201 | 29 | 179 | 40 | 99 | 201 | 1.3 | 173 | 115 | 14.494 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 9.7 | 205 | 28 | 183 | 39 | 97 | 205 | 2.9 | 169 | 118 | 14.824 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec



| Motor cooling with separate fan | | | | | | | | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------|----------------|----------------------------------|----------------------------|------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 6-30 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | 50 Hz | | [rpm] | [Nm] | | | |

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|------|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 9.0 | 222 | 26 | 197 | 36 | 90 | 222 | 1.3 | 157 | 127 | 16.000 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 8.6 | 231 | 25 | 206 | 34 | 86 | 231 | 2.6 | 150 | 133 | 16.699 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 8.4 | 236 | 24 | 210 | 34 | 84 | 236 | 1.3 | 147 | 136 | 17.054 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 8.1 | 247 | 23 | 220 | 32 | 81 | 247 | 2.1 | 141 | 142 | 17.809 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 7.5 | 266 | 22 | 237 | 30 | 75 | 266 | 1.1 | 130 | 153 | 19.216 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 7.1 | 282 | 21 | 251 | 28 | 71 | 282 | 2.4 | 123 | 162 | 20.329 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 6.2 | 324 | 18 | 288 | 25 | 62 | 324 | 1.0 | 107 | 186 | 23.388 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 6.3 | 317 | 18 | 282 | 25 | 63 | 317 | 1.9 | 109 | 182 | 22.902 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 5.5 | 365 | 16 | 325 | 22 | 55 | 365 | 0.8 | 95 | 210 | 26.353 | GKS05 - 3E □□□ 100C12 | E82MV 222_4B |
| 5.5 | 361 | 16 | 321 | 22 | 55 | 361 | 1.9 | 96 | 207 | 26.017 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 5.1 | 394 | 15 | 351 | 20 | 51 | 394 | 1.7 | 88 | 227 | 28.461 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 5.1 | 392 | 15 | 349 | 20 | 51 | 392 | 3.1 | 89 | 225 | 28.274 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 444 | 13 | 395 | 18 | 45 | 444 | 1.4 | 78 | 255 | 32.063 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 442 | 13 | 393 | 18 | 45 | 442 | 2.7 | 79 | 254 | 31.858 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 4.0 | 503 | 12 | 448 | 16 | 40 | 503 | 1.4 | 69 | 289 | 36.303 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 4.0 | 500 | 12 | 445 | 16 | 40 | 500 | 2.6 | 69 | 287 | 36.063 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 3.5 | 575 | 10 | 511 | 14 | 35 | 575 | 1.2 | 60 | 330 | 41.472 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 3.2 | 616 | 9.4 | 548 | 13 | 32 | 616 | 1.1 | 56 | 354 | 44.471 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 3.3 | 612 | 9.5 | 545 | 13 | 33 | 612 | 2.1 | 57 | 352 | 44.178 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.7 | 736 | 7.9 | 655 | 11 | 27 | 736 | 0.9 | 47 | 423 | 53.074 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.9 | 698 | 8.3 | 621 | 11 | 29 | 698 | 1.9 | 50 | 401 | 50.345 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.5 | 802 | 7.2 | 714 | 10.0 | 25 | 802 | 0.9 | 43 | 461 | 57.882 | GKS06 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.5 | 797 | 7.3 | 709 | 10 | 25 | 797 | 1.6 | 44 | 458 | 57.501 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.2 | 898 | 6.4 | 799 | 8.9 | 22 | 898 | 1.3 | 39 | 516 | 64.790 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 977 | 5.9 | 869 | 8.2 | 20 | 977 | 1.4 | 36 | 561 | 70.474 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 2.0 | 984 | 5.9 | 875 | 8.1 | 20 | 984 | 3.1 | 35 | 565 | 70.982 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.8 | 1100 | 5.3 | 979 | 7.2 | 18 | 1100 | 1.1 | 32 | 632 | 79.407 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.8 | 1109 | 5.2 | 987 | 7.2 | 18 | 1109 | 2.8 | 31 | 637 | 79.996 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.6 | 1283 | 4.5 | 1142 | 6.2 | 16 | 1283 | 1.0 | 27 | 737 | 92.563 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.6 | 1273 | 4.5 | 1133 | 6.3 | 16 | 1273 | 2.4 | 27 | 732 | 91.860 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.4 | 1445 | 4 | 1286 | 5.5 | 14 | 1445 | 0.8 | 24 | 831 | 104.296 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.4 | 1435 | 4 | 1277 | 5.6 | 14 | 1435 | 2.1 | 24 | 824 | 103.524 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1557 | 3.7 | 1386 | 5.1 | 13 | 1557 | 0.9 | 22 | 895 | 112.338 | GKS07 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1545 | 3.7 | 1375 | 5.2 | 13 | 1545 | 2.0 | 22 | 888 | 111.484 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.3 | 1543 | 3.8 | 1373 | 5.2 | 13 | 1543 | 2.9 | 23 | 887 | 111.335 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.2 | 1741 | 3.3 | 1550 | 4.6 | 12 | 1741 | 1.8 | 20 | 1001 | 125.641 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.2 | 1738 | 3.3 | 1547 | 4.6 | 12 | 1738 | 2.9 | 20 | 999 | 125.448 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 1953 | 3 | 1738 | 4.1 | 10 | 1953 | 1.6 | 18 | 1122 | 140.921 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 1.0 | 1950 | 3 | 1736 | 4.1 | 10 | 1950 | 2.3 | 18 | 1121 | 140.732 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2201 | 2.6 | 1959 | 3.6 | 9.1 | 2201 | 1.4 | 16 | 1265 | 158.816 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.9 | 2197 | 2.6 | 1956 | 3.6 | 9.1 | 2197 | 2.3 | 16 | 1263 | 158.571 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2522 | 2.3 | 2245 | 3.2 | 7.9 | 2522 | 1.2 | 14 | 1449 | 182.000 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.8 | 2586 | 2.2 | 2301 | 3.1 | 7.7 | 2586 | 2.3 | 13 | 1486 | 186.572 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2842 | 2 | 2530 | 2.8 | 7.0 | 2842 | 1.1 | 12 | 1634 | 205.111 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 2913 | 2 | 2593 | 2.7 | 6.9 | 2913 | 2.0 | 12 | 1674 | 210.222 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.7 | 3061 | 1.9 | 2724 | 2.6 | 6.5 | 3061 | 1.0 | 11 | 1759 | 220.882 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3138 | 1.8 | 2793 | 2.5 | 6.4 | 3138 | 1.9 | 11 | 1803 | 226.431 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3450 | 1.7 | 3070 | 2.3 | 5.8 | 3450 | 0.9 | 10 | 1983 | 248.930 | GKS09 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.6 | 3536 | 1.6 | 3147 | 2.3 | 5.6 | 3536 | 1.7 | 10 | 2032 | 255.133 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|------------------------------------|------------------------|--|---|----------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

Dimensions see page 6-30 onwards

P₁ = 2.2 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|---|------|---------|-----------------------|--------------|
| 0.5 | 3966 | 1.5 | 3530 | 2.0 | 5.0 | 3966 | 1.5 | 9 | 2280 | 286.219 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4469 | 1.3 | 3978 | 1.8 | 4.5 | 4469 | 1.3 | 8 | 2568 | 322.500 | GKS11 - 3E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4399 | 1.3 | 3915 | 1.8 | 4.5 | 4399 | 1.4 | 8 | 2528 | 322.931 | GKS11 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4957 | 1.1 | 4411 | 1.6 | 4.0 | 4957 | 1.2 | 7 | 2849 | 363.866 | GKS11 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 4938 | 1.2 | 4395 | 1.6 | 4.0 | 4938 | 2.3 | 7 | 2838 | 362.512 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 5392 | 1.1 | 4798 | 1.5 | 3.6 | 5392 | 1.1 | 6 | 3099 | 395.787 | GKS11 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.4 | 5322 | 1.1 | 4736 | 1.5 | 3.7 | 5322 | 2.2 | 6 | 3058 | 390.671 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 6075 | 0.9 | 5407 | 1.3 | 3.2 | 6075 | 1.0 | 6 | 3491 | 445.958 | GKS11 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 5996 | 0.9 | 5337 | 1.3 | 3.3 | 5996 | 1.9 | 6 | 3446 | 440.193 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 6977 | 0.8 | 6210 | 1.1 | 2.8 | 6977 | 0.9 | 5 | 4010 | 512.196 | GKS11 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.3 | 6990 | 0.8 | 6221 | 1.1 | 2.8 | 6990 | 1.6 | 5 | 4017 | 513.121 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 7876 | 0.7 | 7009 | 1.0 | 2.5 | 7876 | 1.5 | 4 | 4526 | 578.164 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 8483 | 0.7 | 7550 | 0.9 | 2.3 | 8483 | 1.4 | 4 | 4875 | 622.742 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 9558 | 0.6 | 8507 | 0.8 | 2.1 | 9558 | 1.2 | 4 | 5493 | 701.681 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 10978 | 0.5 | 9771 | 0.7 | 1.8 | 10978 | 1.0 | 3 | 6309 | 805.901 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.2 | 12370 | 0.5 | 11009 | 0.6 | 1.6 | 12370 | 0.9 | 3 | 7109 | 908.058 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |
| 0.1 | 13323 | 0.4 | 11858 | 0.6 | 1.5 | 13323 | 0.9 | 3 | 7657 | 978.071 | GKS14 - 4E □□□ 100C12 | E82MV 222_4B |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 22 | 123 | 64 | 110 | 88 | 221 | 123 | 2.1 | 384 | 71 | 6.485 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 21 | 131 | 60 | 116 | 83 | 208 | 131 | 1.1 | 363 | 75 | 6.863 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 15 | 179 | 44 | 159 | 61 | 152 | 179 | 0.9 | 264 | 103 | 9.412 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 16 | 175 | 45 | 156 | 62 | 156 | 175 | 2.1 | 271 | 101 | 9.196 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 14 | 201 | 39 | 179 | 54 | 135 | 201 | 1.1 | 235 | 116 | 10.569 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 14 | 193 | 41 | 172 | 56 | 141 | 193 | 2.1 | 245 | 111 | 10.147 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 12 | 222 | 36 | 198 | 49 | 123 | 222 | 1.1 | 213 | 128 | 11.667 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 13 | 217 | 36 | 193 | 50 | 126 | 217 | 1.5 | 219 | 124 | 11.382 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 13 | 217 | 36 | 193 | 50 | 126 | 217 | 2.8 | 219 | 124 | 11.378 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 11 | 240 | 33 | 214 | 45 | 113 | 240 | 1.8 | 197 | 138 | 12.612 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 9.9 | 276 | 29 | 245 | 39 | 99 | 276 | 0.9 | 172 | 159 | 14.494 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 9.7 | 282 | 28 | 251 | 39 | 97 | 282 | 2.1 | 168 | 162 | 14.824 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 8.9 | 305 | 26 | 271 | 36 | 89 | 305 | 0.9 | 156 | 175 | 16.000 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 8.6 | 318 | 25 | 283 | 34 | 86 | 318 | 1.9 | 149 | 183 | 16.699 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 8.4 | 325 | 24 | 289 | 34 | 84 | 325 | 1.0 | 146 | 187 | 17.054 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 8.0 | 339 | 23 | 302 | 32 | 80 | 339 | 1.5 | 140 | 195 | 17.809 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 8.3 | 329 | 24 | 292 | 33 | 83 | 329 | 3.0 | 144 | 189 | 17.270 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 7.4 | 366 | 22 | 325 | 30 | 74 | 366 | 0.8 | 129 | 210 | 19.216 | GKS05 - 3E □□□ 100C32 | E82MV 302_4B |
| 7.0 | 387 | 20 | 344 | 28 | 70 | 387 | 1.7 | 122 | 222 | 20.329 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 6.2 | 436 | 18 | 388 | 25 | 62 | 436 | 1.4 | 109 | 250 | 22.902 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 5.5 | 495 | 16 | 441 | 22 | 55 | 495 | 1.4 | 96 | 285 | 26.017 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 5.7 | 480 | 16 | 428 | 23 | 57 | 480 | 2.5 | 99 | 276 | 25.244 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 5.0 | 542 | 15 | 482 | 20 | 50 | 542 | 1.3 | 87 | 311 | 28.461 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 5.1 | 538 | 15 | 479 | 20 | 51 | 538 | 2.2 | 88 | 309 | 28.274 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical-bevel geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 6-30 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 3 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|------|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 4.5 | 610 | 13 | 543 | 18 | 45 | 610 | 1.0 | 78 | 351 | 32.063 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 4.5 | 606 | 13 | 540 | 18 | 45 | 606 | 1.9 | 78 | 348 | 31.858 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 3.9 | 691 | 11 | 615 | 16 | 39 | 691 | 1.0 | 69 | 397 | 36.303 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 4.0 | 686 | 11 | 611 | 16 | 40 | 686 | 1.9 | 69 | 394 | 36.063 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 3.5 | 789 | 10 | 702 | 14 | 35 | 789 | 0.9 | 60 | 454 | 41.472 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 846 | 9.3 | 753 | 13 | 32 | 846 | 0.8 | 56 | 486 | 44.471 | GKS06 - 3E □□□ 100C32 | E82MV 302_4B |
| 3.2 | 841 | 9.4 | 748 | 13 | 32 | 841 | 1.5 | 56 | 483 | 44.178 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.8 | 958 | 8.2 | 853 | 11 | 28 | 958 | 1.4 | 49 | 551 | 50.345 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1094 | 7.2 | 974 | 10.0 | 25 | 1094 | 1.2 | 43 | 629 | 57.501 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.5 | 1112 | 7.1 | 990 | 9.8 | 25 | 1112 | 2.7 | 43 | 639 | 58.456 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.2 | 1233 | 6.4 | 1097 | 8.8 | 22 | 1233 | 1.0 | 38 | 709 | 64.790 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.2 | 1254 | 6.3 | 1116 | 8.7 | 22 | 1254 | 2.4 | 38 | 720 | 65.879 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1341 | 5.9 | 1194 | 8.1 | 20 | 1341 | 1.0 | 35 | 771 | 70.474 | GKS07 - 3E □□□ 100C32 | E82MV 302_4B |
| 2.0 | 1351 | 5.8 | 1202 | 8.0 | 20 | 1351 | 2.2 | 35 | 776 | 70.982 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1522 | 5.2 | 1355 | 7.2 | 18 | 1522 | 2.0 | 31 | 875 | 79.996 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.6 | 1748 | 4.5 | 1556 | 6.2 | 16 | 1748 | 1.7 | 27 | 1005 | 91.860 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.6 | 1746 | 4.5 | 1554 | 6.2 | 16 | 1746 | 2.5 | 27 | 1003 | 91.737 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 1970 | 4 | 1753 | 5.5 | 14 | 1970 | 1.6 | 24 | 1132 | 103.524 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.4 | 1967 | 4 | 1751 | 5.5 | 14 | 1967 | 2.5 | 24 | 1130 | 103.365 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2121 | 3.7 | 1888 | 5.1 | 13 | 2121 | 1.4 | 22 | 1219 | 111.484 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.3 | 2119 | 3.7 | 1886 | 5.1 | 13 | 2119 | 2.1 | 22 | 1218 | 111.335 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2391 | 3.3 | 2128 | 4.6 | 11 | 2391 | 1.3 | 20 | 1374 | 125.641 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.1 | 2387 | 3.3 | 2125 | 4.6 | 11 | 2387 | 2.1 | 20 | 1372 | 125.448 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.0 | 2682 | 2.9 | 2387 | 4.0 | 10 | 2682 | 1.1 | 18 | 1541 | 140.921 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 1.0 | 2678 | 2.9 | 2383 | 4.1 | 10 | 2678 | 1.7 | 18 | 1539 | 140.732 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 3022 | 2.6 | 2690 | 3.6 | 9.0 | 3022 | 1.0 | 16 | 1737 | 158.816 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.9 | 3018 | 2.6 | 2686 | 3.6 | 9.0 | 3018 | 1.7 | 16 | 1734 | 158.571 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.8 | 3463 | 2.3 | 3082 | 3.1 | 7.9 | 3463 | 0.9 | 14 | 1990 | 182.000 | GKS09 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.8 | 3550 | 2.2 | 3160 | 3.1 | 7.7 | 3550 | 1.7 | 13 | 2040 | 186.572 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.7 | 4000 | 2 | 3560 | 2.7 | 6.8 | 4000 | 1.5 | 12 | 2299 | 210.222 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4309 | 1.8 | 3835 | 2.5 | 6.3 | 4309 | 1.4 | 11 | 2476 | 226.431 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.6 | 4855 | 1.6 | 4321 | 2.2 | 5.6 | 4855 | 1.2 | 10 | 2790 | 255.133 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.5 | 5447 | 1.4 | 4847 | 2.0 | 5.0 | 5447 | 1.1 | 9 | 3130 | 286.219 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6137 | 1.3 | 5462 | 1.8 | 4.4 | 6137 | 1.0 | 8 | 3527 | 322.500 | GKS11 - 3E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6041 | 1.3 | 5376 | 1.8 | 4.4 | 6041 | 1.0 | 8 | 3472 | 322.931 | GKS11 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6806 | 1.1 | 6058 | 1.6 | 3.9 | 6806 | 0.9 | 7 | 3912 | 363.866 | GKS11 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 6781 | 1.1 | 6035 | 1.6 | 3.9 | 6781 | 1.7 | 7 | 3897 | 362.512 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 7403 | 1 | 6589 | 1.4 | 3.6 | 7403 | 0.8 | 6 | 4255 | 395.787 | GKS11 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.4 | 7308 | 1.1 | 6504 | 1.5 | 3.7 | 7308 | 1.6 | 6 | 4200 | 390.671 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.3 | 8234 | 0.9 | 7328 | 1.3 | 3.3 | 8234 | 1.4 | 6 | 4732 | 440.193 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.3 | 9598 | 0.8 | 8542 | 1.1 | 2.8 | 9598 | 1.2 | 5 | 5516 | 513.121 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.2 | 10815 | 0.7 | 9625 | 1.0 | 2.5 | 10815 | 1.1 | 4 | 6215 | 578.164 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.2 | 11649 | 0.7 | 10367 | 0.9 | 2.3 | 11649 | 1.0 | 4 | 6695 | 622.742 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |
| 0.2 | 13125 | 0.6 | 11682 | 0.8 | 2.0 | 13125 | 0.9 | 4 | 7543 | 701.681 | GKS14 - 4E □□□ 100C32 | E82MV 302_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan *) | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 22 | 162 | 65 | 140 | 89 | 224 | 162 | 1.6 | 389 | 93 | 6.485 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 24 | 149 | 71 | 128 | 97 | 244 | 149 | 3.2 | 424 | 86 | 5.955 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 18 | 207 | 51 | 178 | 70 | 176 | 207 | 2.6 | 306 | 119 | 8.254 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 16 | 230 | 46 | 198 | 63 | 158 | 230 | 1.6 | 274 | 132 | 9.196 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 16 | 230 | 46 | 197 | 63 | 158 | 230 | 3.2 | 275 | 132 | 9.171 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 14 | 254 | 41 | 218 | 57 | 143 | 254 | 1.6 | 249 | 146 | 10.147 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 14 | 253 | 42 | 218 | 57 | 143 | 253 | 3.2 | 249 | 146 | 10.124 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 13 | 285 | 37 | 245 | 51 | 127 | 285 | 1.2 | 222 | 164 | 11.382 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 13 | 285 | 37 | 245 | 51 | 127 | 285 | 2.2 | 222 | 164 | 11.378 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 12 | 316 | 33 | 271 | 46 | 115 | 316 | 1.4 | 200 | 181 | 12.612 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 11 | 318 | 33 | 274 | 46 | 114 | 318 | 2.6 | 198 | 183 | 12.711 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 9.8 | 371 | 28 | 319 | 39 | 98 | 371 | 1.6 | 170 | 213 | 14.824 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 9.8 | 370 | 28 | 318 | 39 | 98 | 370 | 2.8 | 170 | 213 | 14.798 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 8.7 | 418 | 25 | 359 | 35 | 87 | 418 | 1.4 | 151 | 240 | 16.699 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 8.7 | 417 | 25 | 359 | 35 | 87 | 417 | 2.6 | 151 | 240 | 16.674 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 8.1 | 446 | 24 | 383 | 33 | 81 | 446 | 1.2 | 142 | 256 | 17.809 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 8.4 | 432 | 24 | 372 | 34 | 84 | 432 | 2.3 | 146 | 248 | 17.270 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 509 | 21 | 437 | 29 | 71 | 509 | 1.3 | 124 | 292 | 20.329 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 513 | 21 | 441 | 28 | 71 | 513 | 2.2 | 123 | 295 | 20.511 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 6.3 | 573 | 18 | 493 | 25 | 63 | 573 | 1.1 | 110 | 329 | 22.902 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 6.3 | 578 | 18 | 497 | 25 | 63 | 578 | 2.0 | 109 | 332 | 23.111 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 5.6 | 651 | 16 | 560 | 22 | 56 | 651 | 1.0 | 97 | 374 | 26.017 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 5.7 | 632 | 17 | 543 | 23 | 57 | 632 | 1.9 | 100 | 363 | 25.244 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 5.1 | 712 | 15 | 612 | 20 | 51 | 712 | 1.0 | 89 | 409 | 28.461 | GKS06 - 3E □□□ 112C22 | E82MV 402_4B |
| 5.1 | 708 | 15 | 608 | 21 | 51 | 708 | 1.7 | 89 | 407 | 28.274 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 4.6 | 797 | 13 | 686 | 18 | 46 | 797 | 1.5 | 79 | 458 | 31.858 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 4.0 | 902 | 12 | 776 | 16 | 40 | 902 | 1.4 | 70 | 519 | 36.063 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 3.5 | 1024 | 10 | 880 | 14 | 35 | 1024 | 1.3 | 62 | 588 | 40.906 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 992 | 11 | 853 | 15 | 37 | 992 | 3.0 | 64 | 570 | 39.662 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 3.3 | 1105 | 9.5 | 951 | 13 | 33 | 1105 | 1.2 | 57 | 635 | 44.178 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 3.4 | 1080 | 9.7 | 928 | 13 | 34 | 1080 | 2.8 | 58 | 620 | 43.146 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.9 | 1260 | 8.4 | 1083 | 12 | 29 | 1260 | 1.0 | 50 | 724 | 50.345 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 3.0 | 1217 | 8.6 | 1046 | 12 | 30 | 1217 | 2.5 | 52 | 699 | 48.625 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1439 | 7.3 | 1237 | 10 | 25 | 1439 | 0.9 | 44 | 827 | 57.501 | GKS07 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1463 | 7.2 | 1258 | 9.9 | 25 | 1463 | 2.1 | 43 | 841 | 58.456 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.5 | 1443 | 7.3 | 1241 | 10 | 25 | 1443 | 3.2 | 44 | 830 | 57.683 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.2 | 1648 | 6.4 | 1418 | 8.8 | 22 | 1648 | 1.8 | 38 | 947 | 65.879 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.2 | 1626 | 6.5 | 1399 | 8.9 | 22 | 1626 | 3.2 | 39 | 935 | 64.995 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.0 | 1776 | 5.9 | 1527 | 8.2 | 20 | 1776 | 1.7 | 36 | 1021 | 70.982 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 2.1 | 1774 | 5.9 | 1525 | 8.2 | 21 | 1774 | 2.7 | 36 | 1019 | 70.887 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.8 | 2002 | 5.3 | 1721 | 7.2 | 18 | 2002 | 1.5 | 32 | 1150 | 79.996 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.8 | 1999 | 5.3 | 1719 | 7.3 | 18 | 1999 | 2.7 | 32 | 1149 | 79.873 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2299 | 4.6 | 1977 | 6.3 | 16 | 2299 | 1.3 | 27 | 1321 | 91.860 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2295 | 4.6 | 1974 | 6.3 | 16 | 2295 | 2.2 | 28 | 1319 | 91.737 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.6 | 2266 | 4.6 | 1949 | 6.4 | 16 | 2266 | 2.7 | 28 | 1302 | 90.551 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2590 | 4.1 | 2228 | 5.6 | 14 | 2590 | 1.2 | 24 | 1489 | 103.524 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2586 | 4.1 | 2224 | 5.6 | 14 | 2586 | 2.2 | 24 | 1486 | 103.365 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.4 | 2553 | 4.1 | 2196 | 5.7 | 14 | 2553 | 2.7 | 25 | 1467 | 102.029 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|--|
| Motor cooling with integral fan *) | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | i | Helical-bevel geared motor | 8200 motec | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | Dimensions see page 6-30 onwards | | | |

P₁ = 4 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 1.3 | 2790 | 3.8 | 2399 | 5.2 | 13 | 2790 | 1.1 | 23 | 1603 | 111.484 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.3 | 2786 | 3.8 | 2396 | 5.2 | 13 | 2786 | 1.8 | 23 | 1601 | 111.335 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.3 | 2750 | 3.8 | 2365 | 5.3 | 13 | 2750 | 2.3 | 23 | 1580 | 109.896 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.2 | 3144 | 3.3 | 2704 | 4.6 | 12 | 3144 | 1.0 | 20 | 1807 | 125.641 | GKS09 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.2 | 3139 | 3.4 | 2700 | 4.6 | 12 | 3139 | 1.8 | 20 | 1804 | 125.448 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.2 | 3098 | 3.4 | 2665 | 4.7 | 12 | 3098 | 2.3 | 20 | 1781 | 123.826 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.0 | 3521 | 3 | 3028 | 4.1 | 10 | 3521 | 1.5 | 18 | 2024 | 140.732 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 1.0 | 3476 | 3 | 2989 | 4.2 | 10 | 3476 | 1.8 | 18 | 1998 | 138.913 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 3968 | 2.7 | 3412 | 3.7 | 9.1 | 3968 | 1.5 | 16 | 2280 | 158.571 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.9 | 3917 | 2.7 | 3368 | 3.7 | 9.3 | 3917 | 1.8 | 16 | 2251 | 156.522 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.8 | 4668 | 2.3 | 4015 | 3.1 | 7.8 | 4668 | 1.3 | 14 | 2683 | 186.572 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.8 | 4668 | 2.3 | 4015 | 3.1 | 7.8 | 4668 | 2.5 | 14 | 2683 | 186.572 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.7 | 5260 | 2 | 4524 | 2.8 | 6.9 | 5260 | 1.1 | 12 | 3023 | 210.222 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.7 | 5260 | 2 | 4524 | 2.8 | 6.9 | 5260 | 2.2 | 12 | 3023 | 210.222 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 5666 | 1.9 | 4873 | 2.6 | 6.4 | 5666 | 1.1 | 11 | 3256 | 226.431 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 5666 | 1.9 | 4873 | 2.6 | 6.4 | 5666 | 2.0 | 11 | 3256 | 226.431 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 6384 | 1.6 | 5490 | 2.3 | 5.7 | 6384 | 0.9 | 10 | 3669 | 255.133 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.6 | 6384 | 1.6 | 5490 | 2.3 | 5.7 | 6384 | 1.8 | 10 | 3669 | 255.133 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.5 | 7162 | 1.5 | 6159 | 2.0 | 5.1 | 7162 | 0.8 | 9 | 4116 | 286.219 | GKS11 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.5 | 7162 | 1.5 | 6159 | 2.0 | 5.1 | 7162 | 1.6 | 9 | 4116 | 286.219 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.5 | 8070 | 1.3 | 6940 | 1.8 | 4.5 | 8070 | 1.4 | 8 | 4638 | 322.500 | GKS14 - 3E □□□ 112C22 | E82MV 402_4B |
| 0.4 | 8917 | 1.2 | 7668 | 1.6 | 4.0 | 8917 | 1.3 | 7 | 5124 | 362.512 | GKS14 - 4E □□□ 112C22 | E82MV 402_4B |
| 0.4 | 9609 | 1.1 | 8264 | 1.5 | 3.7 | 9609 | 1.2 | 6 | 5523 | 390.671 | GKS14 - 4E □□□ 112C22 | E82MV 402_4B |
| 0.3 | 10827 | 1 | 9311 | 1.3 | 3.3 | 10827 | 1.1 | 6 | 6223 | 440.193 | GKS14 - 4E □□□ 112C22 | E82MV 402_4B |
| 0.3 | 12621 | 0.8 | 10854 | 1.1 | 2.8 | 12621 | 0.9 | 5 | 7254 | 513.121 | GKS14 - 4E □□□ 112C22 | E82MV 402_4B |
| 0.3 | 14221 | 0.7 | 12230 | 1.0 | 2.5 | 14221 | 0.8 | 4 | 8173 | 578.164 | GKS14 - 4E □□□ 112C22 | E82MV 402_4B |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|-----|----|-----|----|-----|-----|-----|-----|-----|--------|-----------------------|--------------|
| 22 | 224 | 65 | 193 | 89 | 223 | 224 | 1.2 | 388 | 129 | 6.485 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 24 | 206 | 70 | 177 | 97 | 243 | 206 | 2.3 | 422 | 118 | 5.955 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 18 | 285 | 51 | 245 | 70 | 175 | 285 | 1.9 | 305 | 164 | 8.254 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 16 | 318 | 46 | 273 | 63 | 157 | 318 | 1.2 | 273 | 182 | 9.196 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 16 | 317 | 46 | 272 | 63 | 158 | 317 | 2.3 | 274 | 182 | 9.171 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 14 | 350 | 41 | 301 | 57 | 142 | 350 | 1.2 | 248 | 201 | 10.147 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 14 | 350 | 41 | 301 | 57 | 143 | 350 | 2.3 | 248 | 201 | 10.124 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 13 | 393 | 37 | 338 | 51 | 127 | 393 | 0.8 | 221 | 226 | 11.382 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 13 | 393 | 37 | 338 | 51 | 127 | 393 | 1.6 | 221 | 226 | 11.378 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 11 | 435 | 33 | 374 | 46 | 115 | 435 | 1.0 | 199 | 250 | 12.612 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 11 | 439 | 33 | 377 | 45 | 114 | 439 | 1.9 | 198 | 252 | 12.711 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 9.8 | 512 | 28 | 440 | 39 | 98 | 512 | 1.2 | 170 | 294 | 14.824 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 9.8 | 511 | 28 | 439 | 39 | 98 | 511 | 2.0 | 170 | 294 | 14.798 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 8.7 | 577 | 25 | 496 | 35 | 87 | 577 | 1.0 | 151 | 331 | 16.699 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 8.7 | 576 | 25 | 495 | 35 | 87 | 576 | 1.9 | 151 | 331 | 16.674 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 9.0 | 557 | 26 | 479 | 36 | 90 | 557 | 3.2 | 156 | 320 | 16.122 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 8.1 | 615 | 24 | 529 | 32 | 81 | 615 | 0.8 | 141 | 353 | 17.809 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 8.4 | 596 | 24 | 513 | 33 | 84 | 596 | 1.7 | 146 | 343 | 17.270 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 8.2 | 605 | 24 | 521 | 33 | 82 | 605 | 3.2 | 143 | 348 | 17.536 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan *) | | | | i | Helical-bevel geared motor | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|------------------------------------|------------------------|--|--|---|----------------------------|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | | |

Dimensions see page 6-30 onwards

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|-----|------|---------|-----------------------|--------------|
| 7.1 | 702 | 21 | 604 | 28 | 71 | 702 | 0.9 | 124 | 403 | 20.329 | GKS06 - 3E □□□ 112C32 | E82MV 552_4B |
| 7.0 | 708 | 20 | 609 | 28 | 70 | 708 | 1.6 | 123 | 407 | 20.511 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 6.3 | 798 | 18 | 686 | 25 | 63 | 798 | 1.5 | 109 | 459 | 23.111 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 5.7 | 872 | 17 | 750 | 23 | 57 | 872 | 1.4 | 100 | 501 | 25.244 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 5.6 | 886 | 16 | 762 | 23 | 56 | 886 | 3.2 | 98 | 509 | 25.649 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 5.1 | 976 | 15 | 839 | 20 | 51 | 976 | 1.2 | 89 | 561 | 28.274 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 4.9 | 1009 | 14 | 868 | 20 | 49 | 1009 | 2.9 | 86 | 580 | 29.228 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 4.5 | 1100 | 13 | 946 | 18 | 45 | 1100 | 1.1 | 79 | 632 | 31.858 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 4.4 | 1137 | 13 | 978 | 18 | 44 | 1137 | 2.6 | 76 | 654 | 32.940 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 4.0 | 1245 | 12 | 1071 | 16 | 40 | 1245 | 1.0 | 70 | 716 | 36.063 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 4.1 | 1215 | 12 | 1045 | 16 | 41 | 1215 | 2.5 | 71 | 698 | 35.193 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 3.5 | 1412 | 10 | 1215 | 14 | 35 | 1412 | 0.9 | 61 | 812 | 40.906 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 3.6 | 1369 | 11 | 1178 | 15 | 36 | 1369 | 2.2 | 63 | 787 | 39.662 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 3.3 | 1525 | 9.5 | 1312 | 13 | 33 | 1525 | 0.9 | 57 | 877 | 44.178 | GKS07 - 3E □□□ 112C32 | E82MV 552_4B |
| 3.4 | 1490 | 9.7 | 1281 | 13 | 34 | 1490 | 2.0 | 58 | 856 | 43.146 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 3.0 | 1679 | 8.6 | 1444 | 12 | 30 | 1679 | 1.8 | 52 | 965 | 48.625 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 2018 | 7.2 | 1736 | 9.9 | 25 | 2018 | 1.5 | 43 | 1160 | 58.456 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.5 | 1992 | 7.3 | 1713 | 10 | 25 | 1992 | 2.4 | 44 | 1145 | 57.683 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.2 | 2274 | 6.4 | 1956 | 8.8 | 22 | 2274 | 1.3 | 38 | 1307 | 65.879 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.2 | 2244 | 6.4 | 1930 | 8.9 | 22 | 2244 | 2.4 | 39 | 1290 | 64.995 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.0 | 2451 | 5.9 | 2108 | 8.2 | 20 | 2451 | 1.2 | 35 | 1408 | 70.982 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 2.0 | 2447 | 5.9 | 2105 | 8.2 | 20 | 2447 | 2.0 | 35 | 1407 | 70.887 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2762 | 5.2 | 2375 | 7.2 | 18 | 2762 | 1.1 | 31 | 1587 | 79.996 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.8 | 2758 | 5.2 | 2372 | 7.2 | 18 | 2758 | 2.0 | 31 | 1585 | 79.873 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.6 | 3171 | 4.6 | 2727 | 6.3 | 16 | 3171 | 1.0 | 27 | 1823 | 91.860 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.6 | 3167 | 4.6 | 2724 | 6.3 | 16 | 3167 | 1.6 | 27 | 1820 | 91.737 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.6 | 3126 | 4.6 | 2689 | 6.4 | 16 | 3126 | 2.0 | 28 | 1797 | 90.551 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3574 | 4 | 3074 | 5.6 | 14 | 3574 | 0.9 | 24 | 2054 | 103.524 | GKS09 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3569 | 4.1 | 3069 | 5.6 | 14 | 3569 | 1.6 | 24 | 2051 | 103.365 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.4 | 3523 | 4.1 | 3029 | 5.7 | 14 | 3523 | 2.0 | 25 | 2024 | 102.029 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.3 | 3844 | 3.8 | 3306 | 5.2 | 13 | 3844 | 1.3 | 23 | 2209 | 111.335 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.3 | 3794 | 3.8 | 3263 | 5.2 | 13 | 3794 | 1.6 | 23 | 2181 | 109.896 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.2 | 4331 | 3.3 | 3725 | 4.6 | 12 | 4331 | 1.3 | 20 | 2489 | 125.448 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.2 | 4275 | 3.4 | 3677 | 4.7 | 12 | 4275 | 1.6 | 20 | 2457 | 123.826 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.0 | 4859 | 3 | 4178 | 4.1 | 10 | 4859 | 1.1 | 18 | 2792 | 140.732 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 1.0 | 4796 | 3 | 4124 | 4.2 | 10 | 4796 | 1.3 | 18 | 2756 | 138.913 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.9 | 5475 | 2.6 | 4708 | 3.6 | 9.1 | 5475 | 1.1 | 16 | 3146 | 158.571 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.9 | 5404 | 2.7 | 4647 | 3.7 | 9.2 | 5404 | 1.3 | 16 | 3106 | 156.522 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.8 | 6441 | 2.2 | 5540 | 3.1 | 7.7 | 6441 | 0.9 | 13 | 3702 | 186.572 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.8 | 6441 | 2.2 | 5540 | 3.1 | 7.7 | 6441 | 1.8 | 13 | 3702 | 186.572 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.7 | 7258 | 2 | 6242 | 2.7 | 6.9 | 7258 | 0.8 | 12 | 4171 | 210.222 | GKS11 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.7 | 7258 | 2 | 6242 | 2.7 | 6.9 | 7258 | 1.6 | 12 | 4171 | 210.222 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.6 | 7817 | 1.9 | 6723 | 2.6 | 6.4 | 7817 | 1.5 | 11 | 4493 | 226.431 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.6 | 8808 | 1.6 | 7575 | 2.3 | 5.7 | 8808 | 1.3 | 10 | 5062 | 255.133 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.5 | 9882 | 1.5 | 8498 | 2.0 | 5.1 | 9882 | 1.2 | 9 | 5679 | 286.219 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 11134 | 1.3 | 9575 | 1.8 | 4.5 | 11134 | 1.0 | 8 | 6399 | 322.500 | GKS14 - 3E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 12303 | 1.2 | 10580 | 1.6 | 4.0 | 12303 | 0.9 | 7 | 7071 | 362.512 | GKS14 - 4E □□□ 112C32 | E82MV 552_4B |
| 0.4 | 13258 | 1.1 | 11402 | 1.5 | 3.7 | 13258 | 0.9 | 6 | 7620 | 390.671 | GKS14 - 4E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical-bevel geared motor | 8200 motec |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------------------------|----------------------------|------------|
| Motor cooling with integral fan *) | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | Dimensions see page 6-30 onwards | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|------|-----|------|-----|-----|------|---------|-----------------------|--------------|
| 24 | 278 | 71 | 239 | 98 | 244 | 278 | 1.7 | 425 | 160 | 5.955 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 18 | 386 | 51 | 332 | 71 | 176 | 386 | 1.4 | 307 | 222 | 8.254 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 16 | 429 | 46 | 369 | 63 | 159 | 429 | 1.7 | 276 | 246 | 9.171 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 14 | 473 | 42 | 407 | 57 | 144 | 473 | 1.7 | 250 | 272 | 10.124 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 13 | 532 | 37 | 457 | 51 | 128 | 532 | 1.2 | 223 | 306 | 11.378 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 11 | 594 | 33 | 511 | 46 | 115 | 594 | 1.4 | 199 | 342 | 12.711 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 12 | 574 | 34 | 494 | 47 | 119 | 574 | 2.8 | 206 | 330 | 12.283 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 9.8 | 692 | 29 | 595 | 39 | 98 | 692 | 1.5 | 171 | 398 | 14.798 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 11 | 625 | 32 | 537 | 44 | 109 | 625 | 2.8 | 190 | 359 | 13.360 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 8.7 | 780 | 25 | 670 | 35 | 87 | 780 | 1.4 | 152 | 448 | 16.674 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 9.0 | 754 | 26 | 648 | 36 | 90 | 754 | 2.4 | 157 | 433 | 16.122 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 8.4 | 808 | 24 | 694 | 34 | 84 | 808 | 1.2 | 147 | 464 | 17.270 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 8.3 | 820 | 24 | 705 | 33 | 83 | 820 | 2.4 | 144 | 471 | 17.536 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 7.1 | 959 | 21 | 825 | 28 | 71 | 959 | 1.2 | 123 | 551 | 20.511 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 7.5 | 914 | 22 | 786 | 30 | 75 | 914 | 2.8 | 130 | 525 | 19.541 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 6.3 | 1081 | 18 | 929 | 25 | 63 | 1081 | 1.1 | 110 | 621 | 23.111 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 6.6 | 1030 | 19 | 886 | 26 | 66 | 1030 | 2.6 | 115 | 592 | 22.022 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 5.8 | 1180 | 17 | 1015 | 23 | 58 | 1180 | 1.0 | 100 | 678 | 25.244 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 5.7 | 1199 | 16 | 1031 | 23 | 57 | 1199 | 2.4 | 99 | 689 | 25.649 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 5.2 | 1322 | 15 | 1137 | 21 | 52 | 1322 | 0.9 | 90 | 760 | 28.274 | GKS07 - 3E □□□ 132C22 | E82MV 752_4B |
| 5.0 | 1367 | 14 | 1175 | 20 | 50 | 1367 | 2.1 | 87 | 785 | 29.228 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 4.4 | 1540 | 13 | 1324 | 18 | 44 | 1540 | 1.9 | 77 | 885 | 32.940 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 4.1 | 1646 | 12 | 1415 | 17 | 41 | 1646 | 1.8 | 72 | 946 | 35.193 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.7 | 1854 | 11 | 1595 | 15 | 37 | 1854 | 1.6 | 64 | 1066 | 39.662 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.6 | 1883 | 10 | 1619 | 14 | 36 | 1883 | 3.1 | 63 | 1082 | 40.272 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.4 | 2017 | 9.8 | 1735 | 13 | 34 | 2017 | 1.5 | 59 | 1159 | 43.146 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.3 | 2047 | 9.6 | 1761 | 13 | 33 | 2047 | 2.8 | 58 | 1176 | 43.783 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.0 | 2274 | 8.7 | 1955 | 12 | 30 | 2274 | 1.3 | 52 | 1307 | 48.625 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 3.0 | 2307 | 8.6 | 1984 | 12 | 30 | 2307 | 2.6 | 51 | 1326 | 49.333 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2733 | 7.2 | 2350 | 10.0 | 25 | 2733 | 1.1 | 43 | 1571 | 58.456 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.5 | 2697 | 7.3 | 2319 | 10 | 25 | 2697 | 2.2 | 44 | 1550 | 57.683 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.2 | 3080 | 6.4 | 2649 | 8.8 | 22 | 3080 | 1.0 | 38 | 1770 | 65.879 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.2 | 3039 | 6.5 | 2613 | 9.0 | 22 | 3039 | 2.0 | 39 | 1746 | 64.995 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.1 | 3319 | 5.9 | 2854 | 8.2 | 21 | 3319 | 0.9 | 36 | 1907 | 70.982 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 2.1 | 3314 | 6 | 2850 | 8.2 | 21 | 3314 | 1.8 | 36 | 1905 | 70.887 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.8 | 3740 | 5.3 | 3217 | 7.3 | 18 | 3740 | 0.8 | 32 | 2150 | 79.996 | GKS09 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.8 | 3735 | 5.3 | 3212 | 7.3 | 18 | 3735 | 1.6 | 32 | 2146 | 79.873 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.9 | 3632 | 5.4 | 3124 | 7.5 | 19 | 3632 | 3.2 | 33 | 2087 | 77.681 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.6 | 4289 | 4.6 | 3689 | 6.4 | 16 | 4289 | 1.4 | 28 | 2465 | 91.737 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.6 | 4234 | 4.7 | 3641 | 6.4 | 16 | 4234 | 2.7 | 28 | 2433 | 90.551 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.4 | 4833 | 4.1 | 4156 | 5.6 | 14 | 4833 | 1.3 | 24 | 2778 | 103.365 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.4 | 4770 | 4.1 | 4103 | 5.7 | 14 | 4770 | 2.4 | 25 | 2742 | 102.029 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.3 | 5206 | 3.8 | 4477 | 5.2 | 13 | 5206 | 1.1 | 23 | 2992 | 111.335 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.3 | 5138 | 3.8 | 4419 | 5.3 | 13 | 5138 | 2.3 | 23 | 2953 | 109.896 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.2 | 5865 | 3.4 | 5044 | 4.6 | 12 | 5865 | 1.0 | 20 | 3371 | 125.448 | GKS11 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.2 | 5790 | 3.4 | 4979 | 4.7 | 12 | 5790 | 2.0 | 20 | 3327 | 123.826 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 1.1 | 6495 | 3 | 5586 | 4.2 | 11 | 6495 | 1.8 | 18 | 3733 | 138.913 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

*) Observe current derating (see page 2-2)

Selection tables - Helical-bevel gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | | Helical-bevel geared motor | | 8200 motec | |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|---|--|----------------------------|--|------------|--|
| Motor cooling with integral fan *) | | | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | | | | |
| [rpm] | [Nm] | [rpm] | [Nm] | [rpm] | [rpm] | [Nm] | | [rpm] | [Nm] | | | | | | |

Dimensions see page 6-30 onwards

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|-------|-----|-------|-----|-----|-------|-----|----|------|---------|-----------------------|--------------|
| 0.9 | 7318 | 2.7 | 6294 | 3.7 | 9.3 | 7318 | 1.6 | 16 | 4206 | 156.522 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.8 | 8723 | 2.3 | 7502 | 3.1 | 7.8 | 8723 | 1.3 | 14 | 5013 | 186.572 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.7 | 9829 | 2 | 8453 | 2.8 | 6.9 | 9829 | 1.2 | 12 | 5649 | 210.222 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.6 | 10587 | 1.9 | 9105 | 2.6 | 6.4 | 10587 | 1.1 | 11 | 6084 | 226.431 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.6 | 11929 | 1.7 | 10259 | 2.3 | 5.7 | 11929 | 1.0 | 10 | 6856 | 255.133 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |
| 0.5 | 13382 | 1.5 | 11509 | 2.0 | 5.1 | 13382 | 0.9 | 9 | 7691 | 286.219 | GKS14 - 3E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

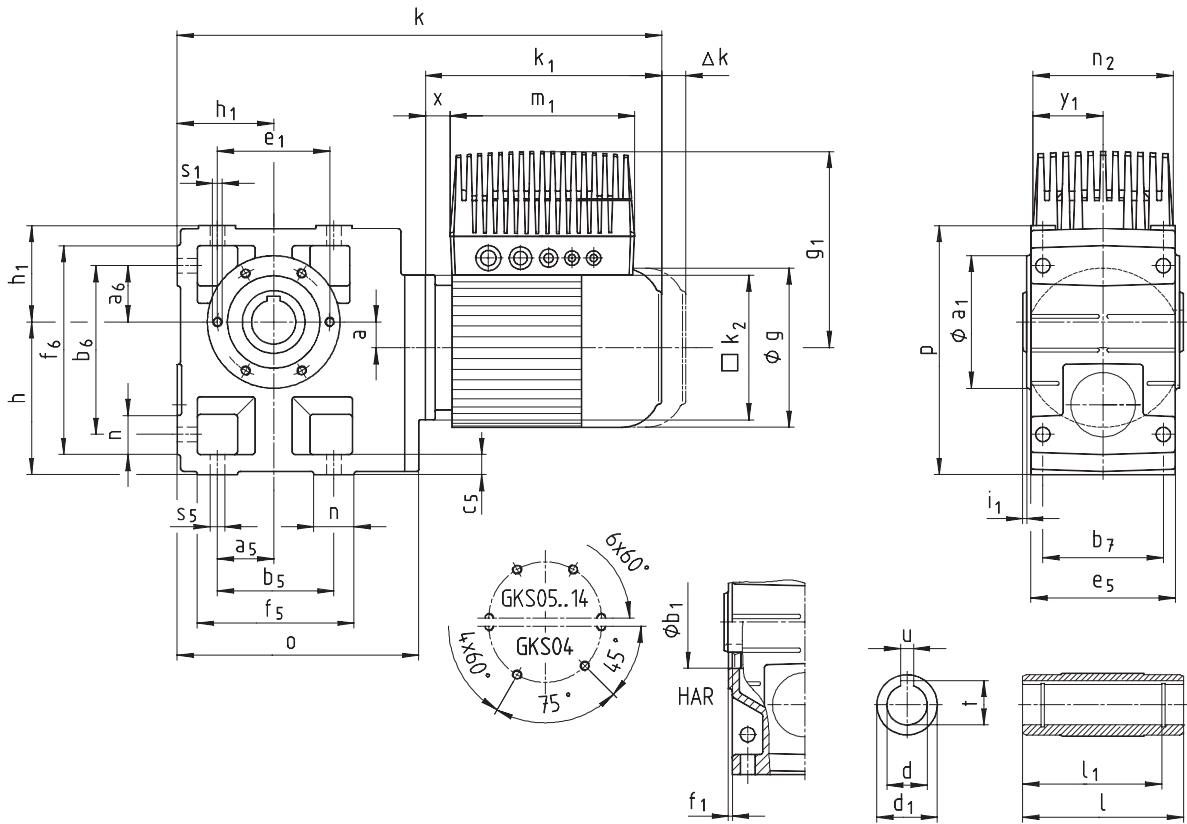
*) Observe current derating (see page 2-2)



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 3E H□R



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | | | |
|-----------------------|-----------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--|-----|--|-----|--|------|
| GKS□□ - 3E H□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | | | |
| 8200 motec | g₁ | | 171 | | 180 | | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | | | |
| | n₂ | | 138 | | 138 | | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | | | |
| | x | | 20 | | 23 | | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | | | |
| | y₁ | | 69 | | 69 | | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | | | | | | |
| | o | l* | p* | h* | h ₁ | a | | | | | | | | | | | | | | | |
| 04 | 203 | 115 | 171 | 100 | 71 | 20 | 399 | | 419 | | 441 | | 502 | | | | | | | | |
| 05 | 232 | 140 | 205 | 125 | 80 | 23 | 419 | | 439 | | 461 | | 522 | | 556 | | | | | | |
| 06 | 291 | 160 | 250 | 150 | 100 | 28 | 475 | | 495 | | 517 | | 578 | | 612 | | 628 | | 672 | | |
| 07 | 354 | 200 | 310 | 190 | 120 | 34 | | | | | 573 | | 634 | | 668 | | 684 | | 728 | | 776 |
| 09 | 429 | 240 | 386 | 236 | 150 | 41 | | | | | | | 705 | | 739 | | 755 | | 799 | | 847 |
| 11 | 527 | 290 | 485 | 300 | 185 | 54 | | | | | | | | | 830 | | 846 | | 890 | | 938 |
| 14 | 636 | 350 | 605 | 375 | 230 | 67 | | | | | | | | | | | 945 | | 989 | | 1037 |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 22 | 9 |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 29 | 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 36 | 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 45 | 18 |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 205 | 145 | 175 | 6 | 5 | M16x24 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 60 | 22 |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 240 | 140 | 205 | 6 | 6 | M20x32 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 73 | 26 |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 33 |

Dimensions in [mm] * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a

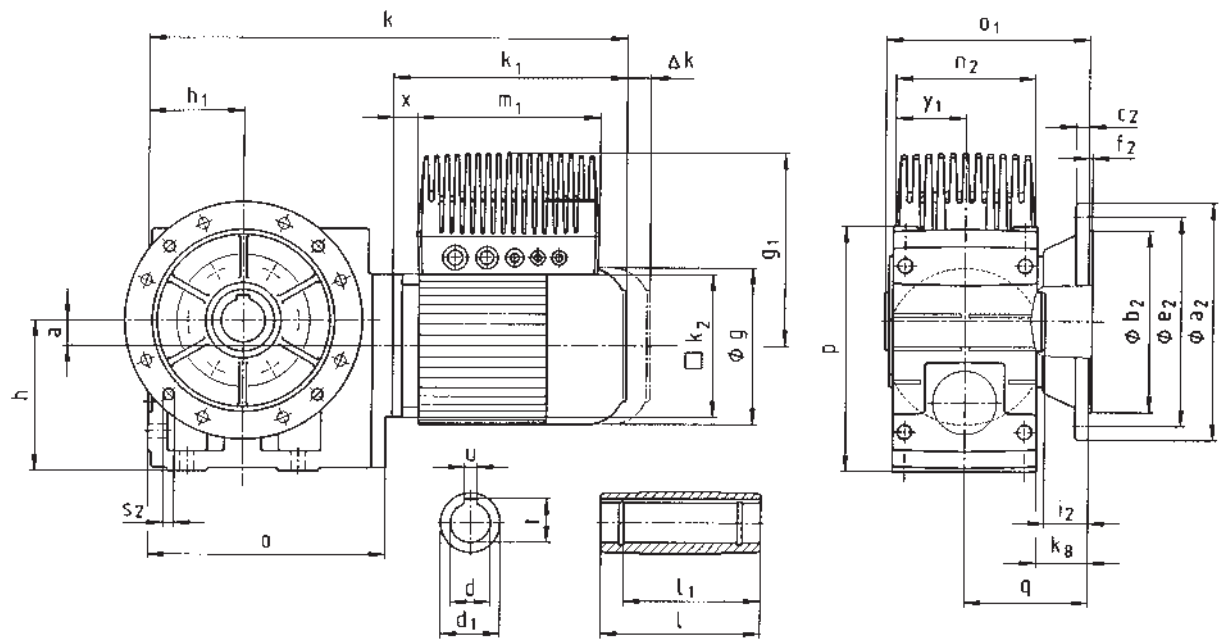
** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 3E HAK



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--|-----|--|
| GKS□□ - 3E HAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | | | |
| | o | o ₁ * | p* | h* | h ₁ | a | k _g | q | | | | | | | | | | |
| 04 | 203 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 399 | | 419 | | 441 | | 502 | | | |
| 05 | 232 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | 419 | | 439 | | 461 | | 522 | | 556 | |
| 06 | 291 | 201 | 250 | 150 | 100 | 28 | 49 | 121 | 475 | | 495 | | 517 | | 578 | | 612 | |
| 07 | 354 | 255 | 310 | 190 | 120 | 34 | 65 | 155 | | | | | 573 | | 634 | | 668 | |
| 09 | 429 | 300 | 386 | 236 | 150 | 41 | 69 | 180 | | | | | 705 | | 739 | | 755 | |
| 11 | 527 | 350 | 485 | 300 | 185 | 54 | 70 | 205 | | | | | | | 830 | | 846 | |
| 14 | 636 | 410 | 605 | 375 | 230 | 67 | 71 | 235 | | | | | | | | | 945 | |

| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 | |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | 12 14.5 | 165 265 | 3.5 4 | 42 41 | 4 x 11 4 x 14 | |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 55 | 4 x 14 | |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 60 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 | |

Dimensions in [mm] * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a

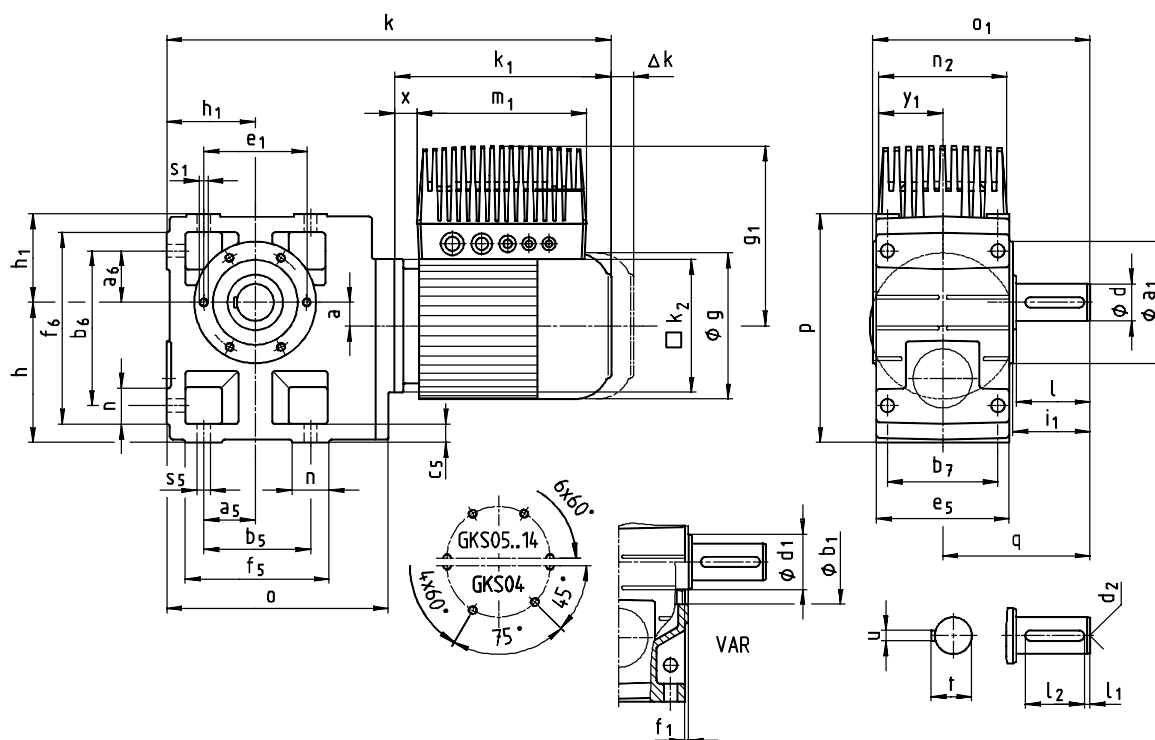
** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 3E V□R



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | |
|-----------------------|-----------------------------------|----------------------|--------|--------|----------------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|-----|--|----------|--|
| GKS□□ - 3E V□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | |
| 8200 motec | g₁ | | 171 | | 180 | | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | | | | |
| | o | o ₁ * | p* | h* | h ₁ | a | q | | | | | | | | | | | | |
| 04 | 203 | 163 | 171 | 100 | 71 | 20 | 1075 | 399 | | 419 | | 441 | | 502 | | | | | |
| 05 | 232 | 197 | 205 | 125 | 80 | 23 | 130 | 419 | | 439 | | 461 | | 522 | | 556 | | | |
| 06 | 291 | 236 | 250 | 150 | 100 | 28 | 160 | 475 | | 495 | | 517 | | 578 | | 612 | | 628 672 | |
| 07 | 354 | 296 | 310 | 190 | 120 | 34 | 200 | | | 573 | | 634 | | 668 | | 684 | | 728 776 | |
| 09 | 429 | 356 | 386 | 236 | 150 | 41 | 240 | | | | | 705 | | 739 | | 755 | | 799 847 | |
| 11 | 527 | 445 | 485 | 300 | 185 | 54 | 305 | | | | | | | 830 | | 846 | | 890 938 | |
| 14 | 636 | 544 | 605 | 375 | 230 | 67 | 375 | | | | | | | | | 945 | | 989 1037 | |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 04 | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 | 45 | 45 | 110 | 119 | 85 | 14 | 105 | 132 | 141 | 22 | 9 |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 29 | 11 |
| 06 | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 4 | 85 | M10x16 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 36 | 14 |
| 07 | 50 | 100 | 75 | 8 | 80 | M16 | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 45 | 18 |
| 09 | 60 | 120 | 95 | 8 | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 60 | 22 |
| 11 | 80 | 160 | 105 | 15 | 125 | M20 | 22 | 85 | 240 | 140 | 205 | 6 | 166 | M20x32 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 73 | 26 |
| 14 | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | 6 | 207 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 33 |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a

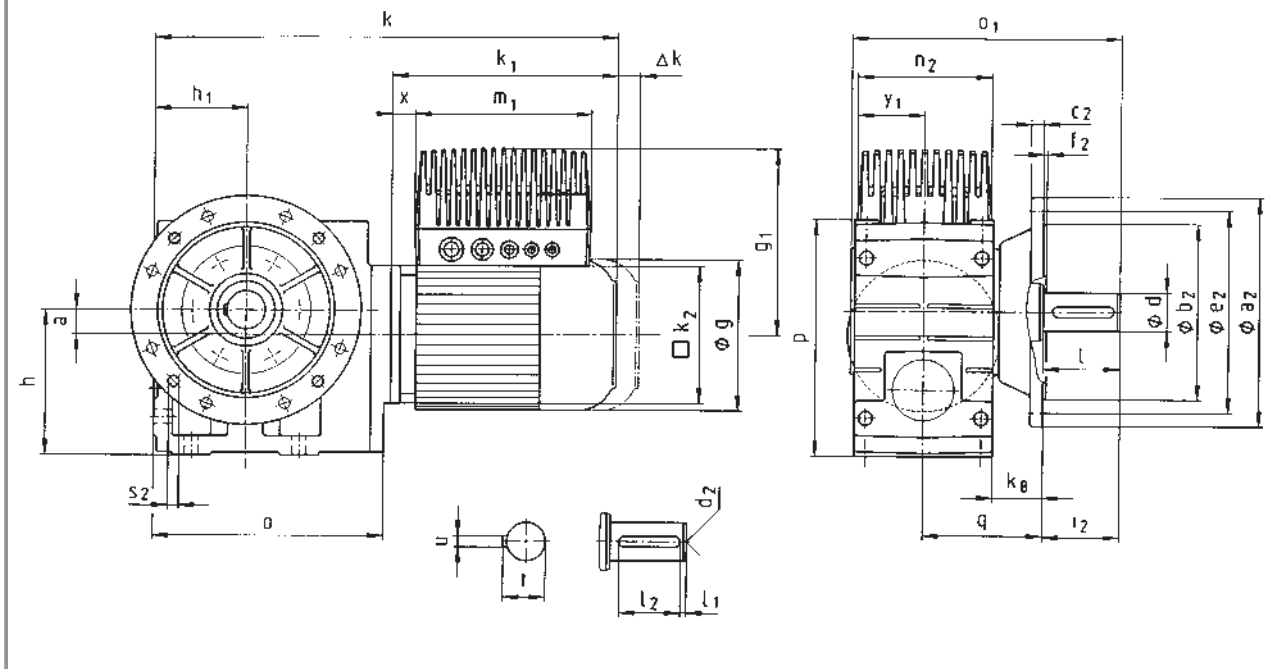
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 3E VAK



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | | | | | | | | | | | | | | | | |
|---------------------|------------------------------|------------------|--------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|-----|--|-----|--|
| GKS□□ - 3E VAK | | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | |
| 8200 motec E82MV□□□ | | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | |
| Motor | g | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k ₁ | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k ₂ | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk** | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g ₁ | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g ₁ ¹⁾ | 207 | | | 216 | | | | | | | | | | | | | |
| | m ₁ | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n ₂ | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y ₁ | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | | | |
| | o | o ₁ * | p* | h* | h ₁ | a | k _g | q | | | | | | | | | | |
| 04 | 203 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 399 | | 419 | | 441 | | 502 | | | |
| 05 | 232 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | 419 | | 439 | | 461 | | 522 | | 556 | |
| 06 | 291 | 277 | 250 | 150 | 100 | 28 | 49 | 121 | 475 | | 495 | | 517 | | 578 | | 612 | |
| 07 | 354 | 351 | 310 | 190 | 120 | 34 | 65 | 155 | | | 573 | | 634 | | 668 | | 684 | |
| 09 | 429 | 416 | 386 | 236 | 150 | 41 | 69 | 180 | | | 705 | | 739 | | 755 | | 799 | |
| 11 | 527 | 505 | 485 | 300 | 185 | 54 | 70 | 205 | | | | | 830 | | 846 | | 890 | |
| 14 | 636 | 604 | 605 | 375 | 230 | 67 | 71 | 235 | | | | | | | 945 | | 989 | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| 11 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 160 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

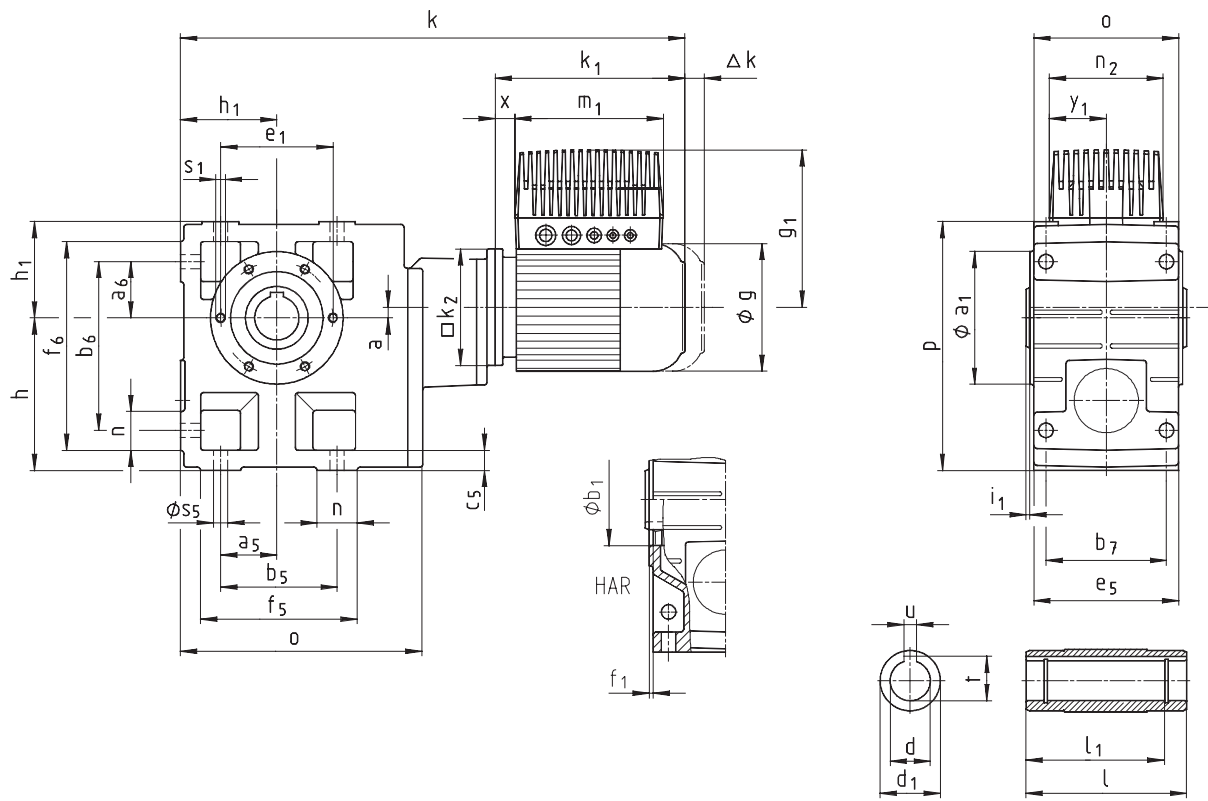
Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 4E H□R



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--|----------------|--|
| GKS□□ - 4E H□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | | | | | |
| | o | l* | p* | h | h ₁ | a | | | | | | | | | | | | |
| 05 | 226 | 140 | 205 | 125 | 80 | 13 | 496 | | 515 | | 538 | | | | | | | |
| 06 | 288 | 160 | 250 | 150 | 100 | 8 | 569 | | 588 | | 611 | | 672 | | | | | |
| 07 | 351 | 200 | 310 | 190 | 120 | 11 | 636 | | 655 | | 678 | | 739 | | 772 | | | |
| 09 | 426 | 240 | 386 | 236 | 150 | 15 | 725 | | 744 | | 767 | | 828 | | 861 | | 877 921 | |
| 11 | 523 | 290 | 485 | 300 | 185 | 16 | | | | | 877 | | 938 | | 971 | | 987 1031 1080 | |
| 14 | 632 | 350 | 605 | 375 | 230 | 22 | | | | | | | 1071 | | 1104 | | 1120 1164 1213 | |

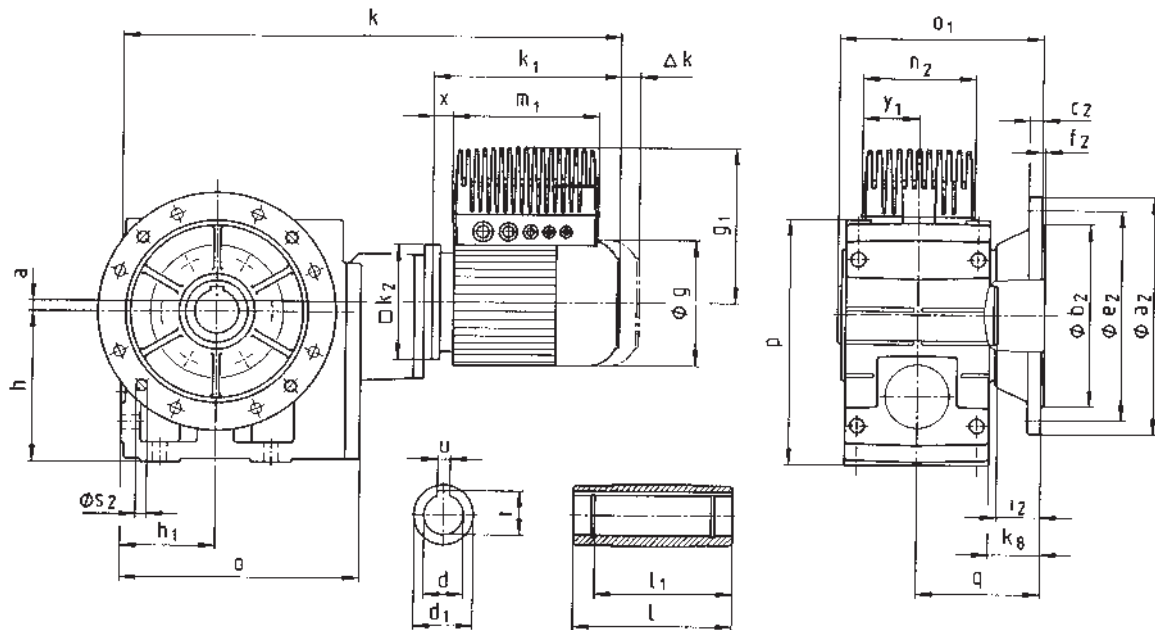
| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 29 | 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 36 | 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 45 | 18 |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 205 | 145 | 175 | 6 | 5 | M16x24 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 60 | 22 |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 240 | 140 | 205 | 6 | 6 | M20x32 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 73 | 26 |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 33 |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 4E HAK



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|-----------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--|
| GKS□□ - 4E HAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | |
| | Δk^{**} | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | |
| | o | o ₁ [*] | p [*] | h | h ₁ | a | k _g | q | | | | | | | | |
| 05 | 226 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 496 | | 515 | | 538 | | | |
| 06 | 288 | 201 | 250 | 150 | 100 | 8 | 49 | 121 | 569 | | 588 | | 611 | | 672 | |
| 07 | 351 | 255 | 310 | 190 | 120 | 11 | 65 | 155 | 636 | | 655 | | 678 | | 739 | |
| 09 | 426 | 300 | 386 | 236 | 150 | 15 | 69 | 180 | 725 | | 744 | | 767 | | 828 | |
| 11 | 523 | 350 | 485 | 300 | 185 | 16 | 70 | 205 | | | 877 | | 938 | | 971 | |
| 14 | 632 | 410 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | 1071 | | 1104 | |
| | | | | | | | | | | | | | 1120 | | 1164 | |
| | | | | | | | | | | | | | 1213 | | | |

| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | 12 14.5 | 165 215 | 3.5 4 | 42 41 | 4 x 11 4 x 14 | |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 55 | 4 x 14 | |
| 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| 11 | 70 80 | 290 | 105 | 250 | 20 22 | 74.9 85.4 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 60 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 | |

Dimensions in [mm]

* Please note dimension k₂

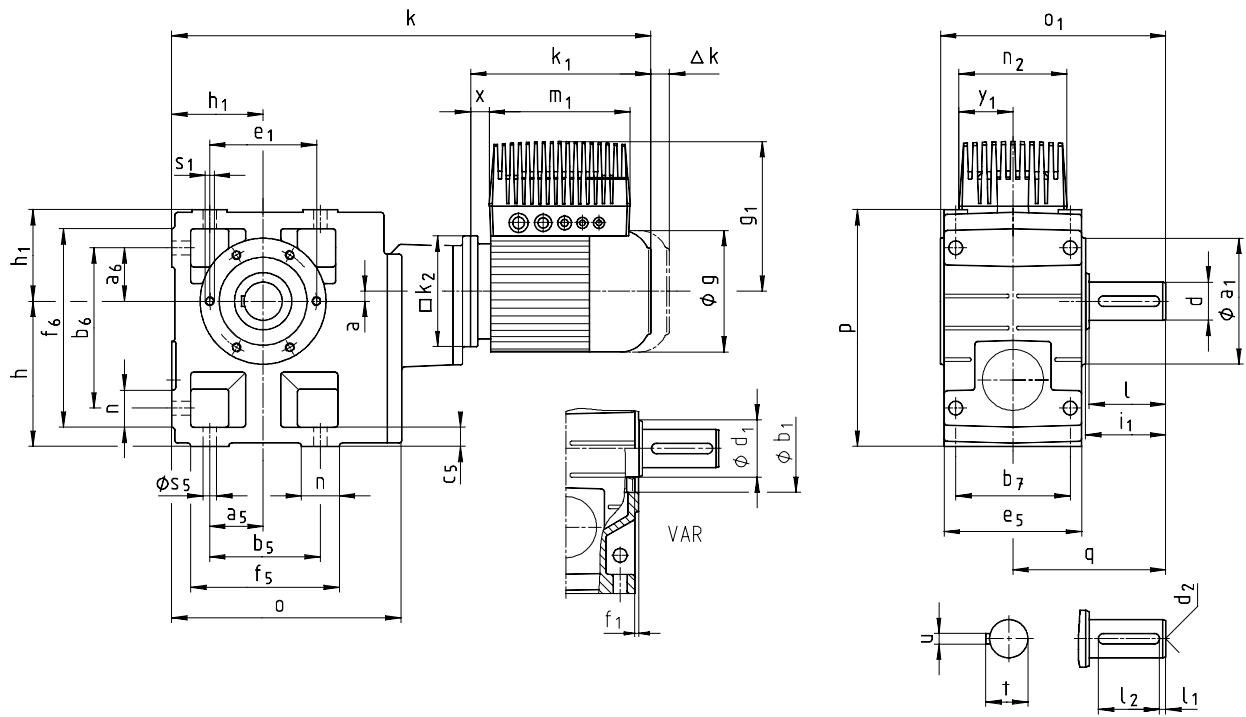
** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 4E V□R



Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | | | |
|-----------------------|------------------------------|----------------------|--------|--------|----------------|--------|-----------|----------------|--------|--------|-----------|--------|-----------|--------|--------|------|------|--|--|--|
| GKS□□ - 4E V□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | | | |
| | k ₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 363 | | 404 | | | | | |
| | k ₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | | | |
| 8200 motec | g ₁ | | 171 | | 180 225 | | 221 237 | | 242 | | 253 268 | | 278 | | 297 | | | | | |
| | g ₁ ¹⁾ | | 207 | | 216 | | | | | | | | | | | | | | | |
| | m ₁ | | 190 | | 190 | | 202 230 | | 230 | | 230 | | 327 | | 327 | | | | | |
| | n ₂ | | 138 | | 138 | | 156 176 | | 176 | | 176 | | 213 | | 213 | | | | | |
| | x | | 20 | | 23 | | 10 3 | | 3 | | 8 | | 9 | | 0 | | | | | |
| | y ₁ | | 69 | | 69 | | 78 78 | | 88 | | 88 | | 107 | | 107 | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length k | | | | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | q | | | | | | | | | | | | | |
| 05 | 226 | 197 | 205 | 125 | 80 | 13 | 130 | 496 | | | 515 | | | 538 | | | | | | |
| 06 | 288 | 236 | 250 | 150 | 100 | 8 | 160 | 569 | | | 588 | | | 611 | | | 672 | | | |
| 07 | 351 | 296 | 310 | 190 | 120 | 11 | 200 | 636 | | | 655 | | | 678 | | | 739 | | | |
| 09 | 426 | 356 | 386 | 236 | 150 | 15 | 240 | 725 | | | 744 | | | 767 | | | 828 | | | |
| 11 | 523 | 445 | 485 | 300 | 185 | 16 | 305 | | | | 877 | | | 938 | | | 971 | | | |
| 14 | 632 | 544 | 605 | 375 | 230 | 22 | 375 | | | | | | | 1071 | | | 1104 | | | |
| | | | | | | | | | | | | | 877 | 921 | 1080 | 1213 | | | | |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 | 47.5 | 47.5 | 115 | 140 | 105 | 17 | 127 | 144 | 169 | 29 | 11 |
| 06 | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 4 | 85 | M10x16 | 60 | 60 | 155 | 170 | 120 | 20 | 145 | 191 | 206 | 36 | 14 |
| 07 | 50 | 100 | 75 | 8 | 80 | M16 | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 | 70 | 70 | 190 | 210 | 150 | 25 | 180 | 235 | 255 | 45 | 18 |
| 09 | 60 | 120 | 95 | 8 | 100 | M20 | 18 | 64 | 205 | 145 | 175 | 6 | 125 | M16x24 | 90 | 90 | 240 | 266 | 185 | 30 | 222 | 300 | 326 | 60 | 22 |
| 11 | 80 | 160 | 105 | 15 | 125 | M20 | 22 | 85 | 240 | 140 | 205 | 6 | 166 | M20x32 | 105 | 105 | 290 | 325 | 225 | 40 | 270 | 363 | 398 | 73 | 26 |
| 14 | 100 | 200 | 135 | 18 | 160 | M24 | 28 | 106 | 290 | 170 | 250 | 6 | 207 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 33 |

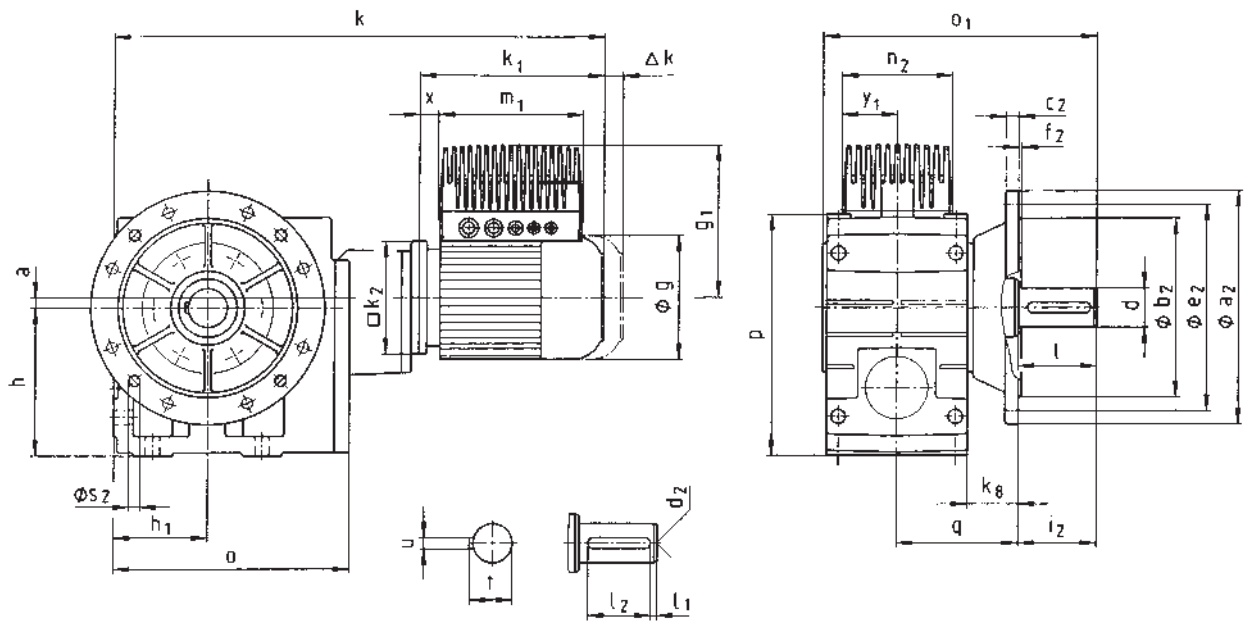
Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k₂.
 d > 50 mm: m6 ** See chapter 8 for more built-on accessories

¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-bevel gearboxes

Geared motors with 8200 motec

GKS□□ - 4E VAK



Dimensions - Helical-bevel gearboxes

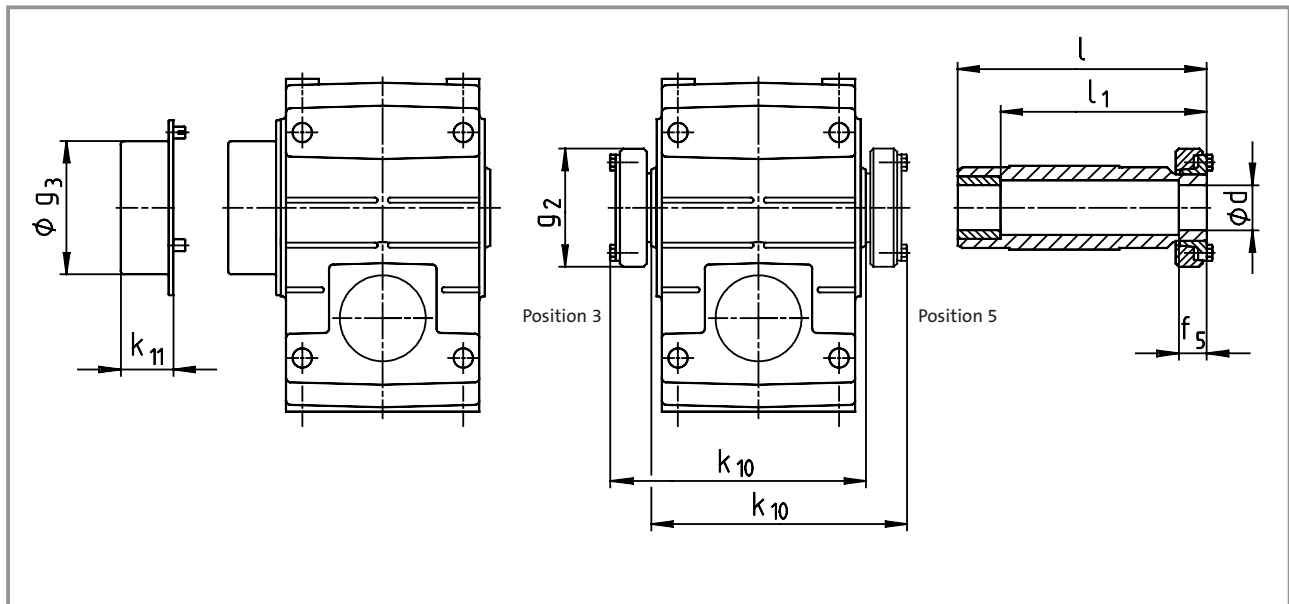
Geared motors with 8200 motec

| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|-----------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|-----|
| GKS□□ - 4E VAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 |
| | k₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 |
| | k₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 |
| 8200 motec | g₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | |
| | g₁¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | |
| | n₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | |
| | y₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | | | | | | | | |
| 05 | 226 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 496 | | 515 | | 538 | | | |
| 06 | 288 | 277 | 250 | 150 | 100 | 8 | 49 | 121 | 569 | | 588 | | 611 | | 672 | |
| 07 | 351 | 351 | 310 | 190 | 120 | 11 | 65 | 155 | 636 | | 655 | | 678 | | 739 | |
| 09 | 426 | 416 | 386 | 236 | 150 | 15 | 69 | 180 | 725 | | 744 | | 767 | | 828 | |
| 11 | 523 | 505 | 485 | 300 | 185 | 16 | 70 | 205 | | | 877 | | 938 | | 971 | |
| 14 | 632 | 604 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | 1071 | | 1104 | |
| | | | | | | | | | | | | | 1120 | | 1164 | |
| | | | | | | | | | | | | | | | 1213 | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 165 | 4 | 100 | 4 x 14 | |
| 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| 11 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 400 450 | 300 350 | 20 22 | 350 400 | 5 | 160 | 4 x 17.5 8 x 17.5 | |
| 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k₂.
d > 50 mm: m6 ** See chapter 8 for more built-on accessories
¹⁾ 8200 motec only, option: bus I/O, system terminal or brake rectifier

Hollow shaft with shrink disc

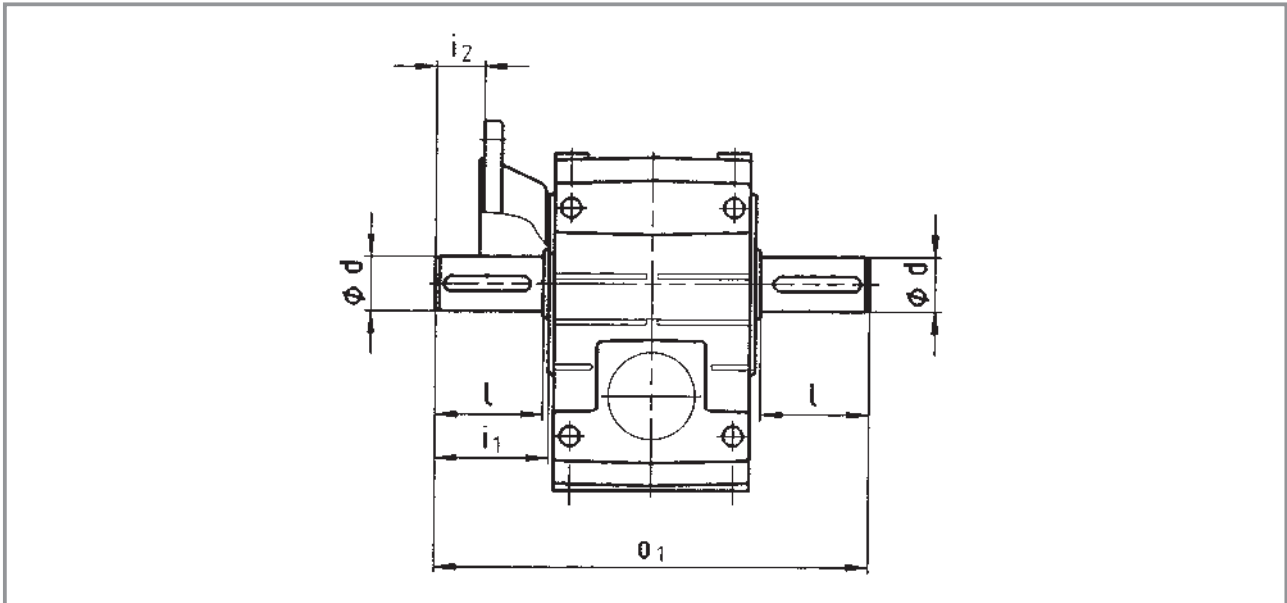


| Gearbox size | Machine shaft* | | Hollow shaft | | | Gearbox | | Protection cover | |
|--------------|----------------|-----|--------------|----------------|----------------|----------------|-----------------|------------------|-----------------|
| | d | Fit | l | l ₁ | f ₅ | g ₂ | k ₁₀ | g ₃ | k ₁₁ |
| 04 | 25 30 | h6 | 142 | 122 | 26 | 72 | 146 | 79 | 41 |
| 05 | 35 | h6 | 168 | 148 | 28 | 80 | 171 | 90 | 43 |
| 06 | 40 | h6 | 194 | 164 | 30 | 90 | 197 | 100 | 49 |
| 07 | 50 | h6 | 232 | 192 | 26 | 110 | 234 | 124 | 49 |
| 09 | 65 | h6 | 278 | 228 | 30 | 141 | 281 | 159 | 52 |
| 11 | 80 | h6 | 338 | 238 | 42 | 170 | 344 | 191 | 65 |
| 14 | 100 | h6 | 407 | 307 | 55 | 215 | 415 | 253 | 78 |

Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4), the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness Rz should not exceed 15 µm (turning is sufficient).

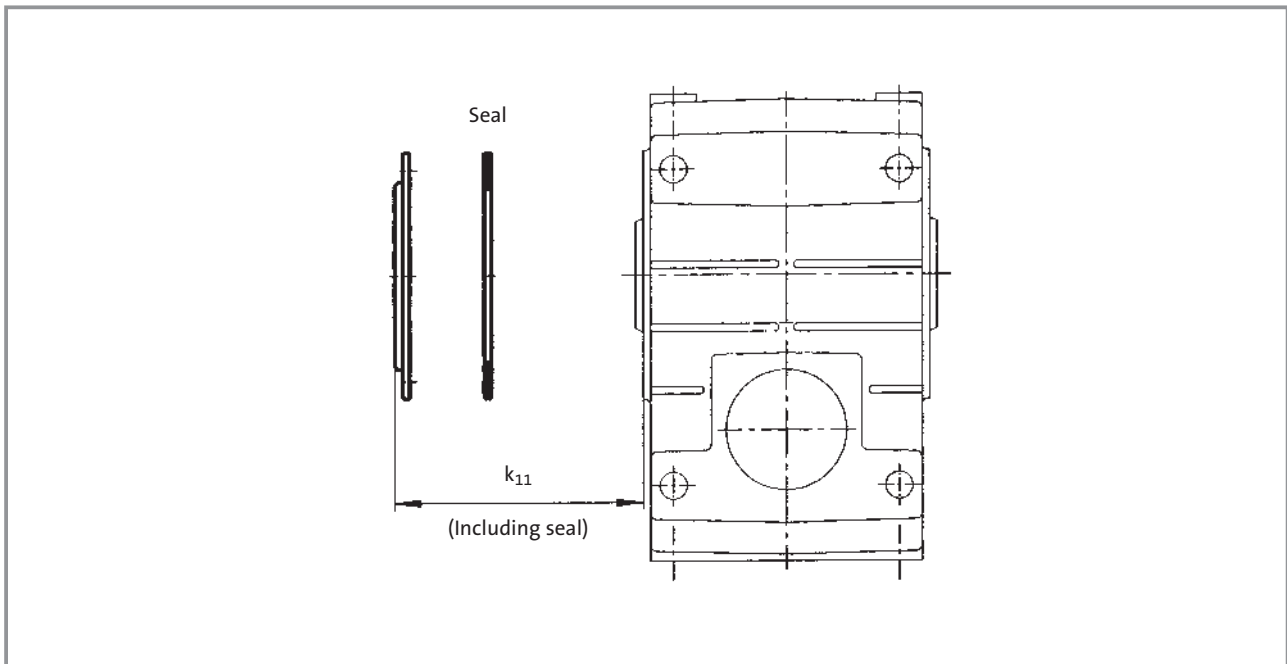
Gearbox with 2nd output shaft end



| Gearbox size | d | l | i ₁ | i ₂ | o ₁ |
|--------------|-----|-----|----------------|----------------|----------------|
| 04 | 25 | 50 | 52.5 | 17 | 215 |
| 05 | 30 | 60 | 64 | 27 | 260 |
| 06 | 40 | 80 | 85 | 39 | 320 |
| 07 | 50 | 100 | 105 | 45 | 400 |
| 09 | 60 | 120 | 125 | 60 | 480 |
| 11 | 80 | 160 | 166 | 100 | 610 |
| 14 | 100 | 200 | 207 | 140 | 750 |

Dimensions in [mm]

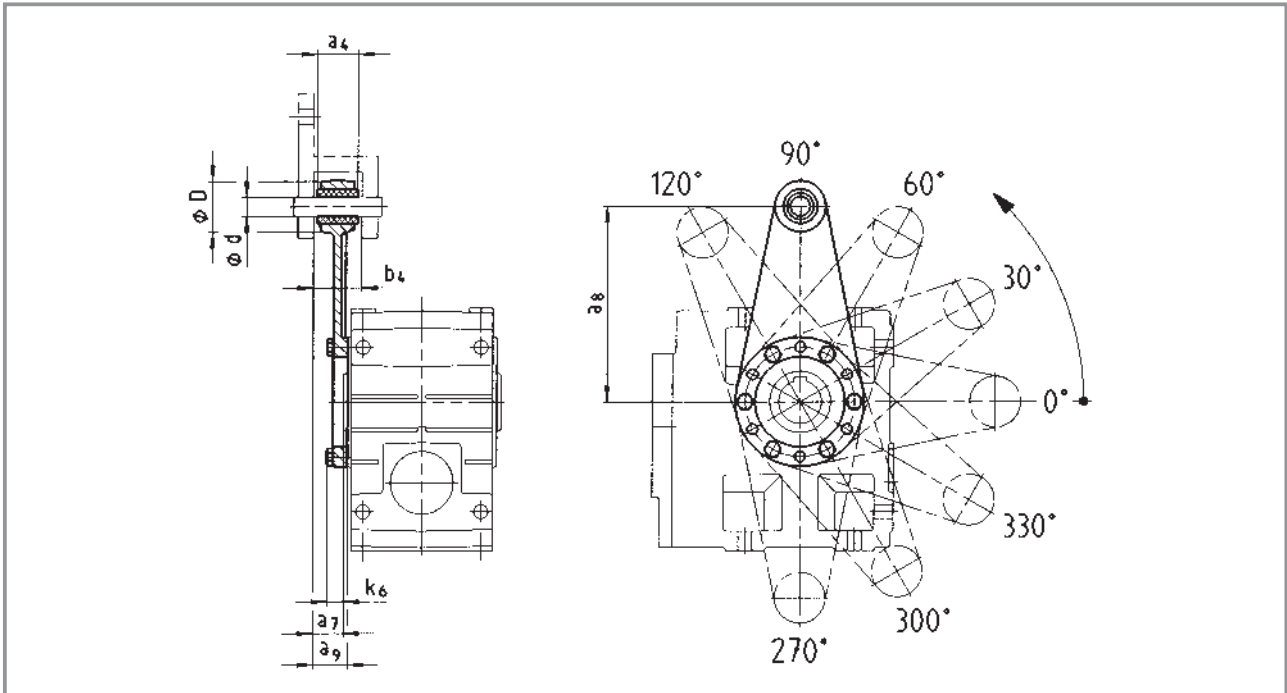
Hoseproof hollow shaft cover



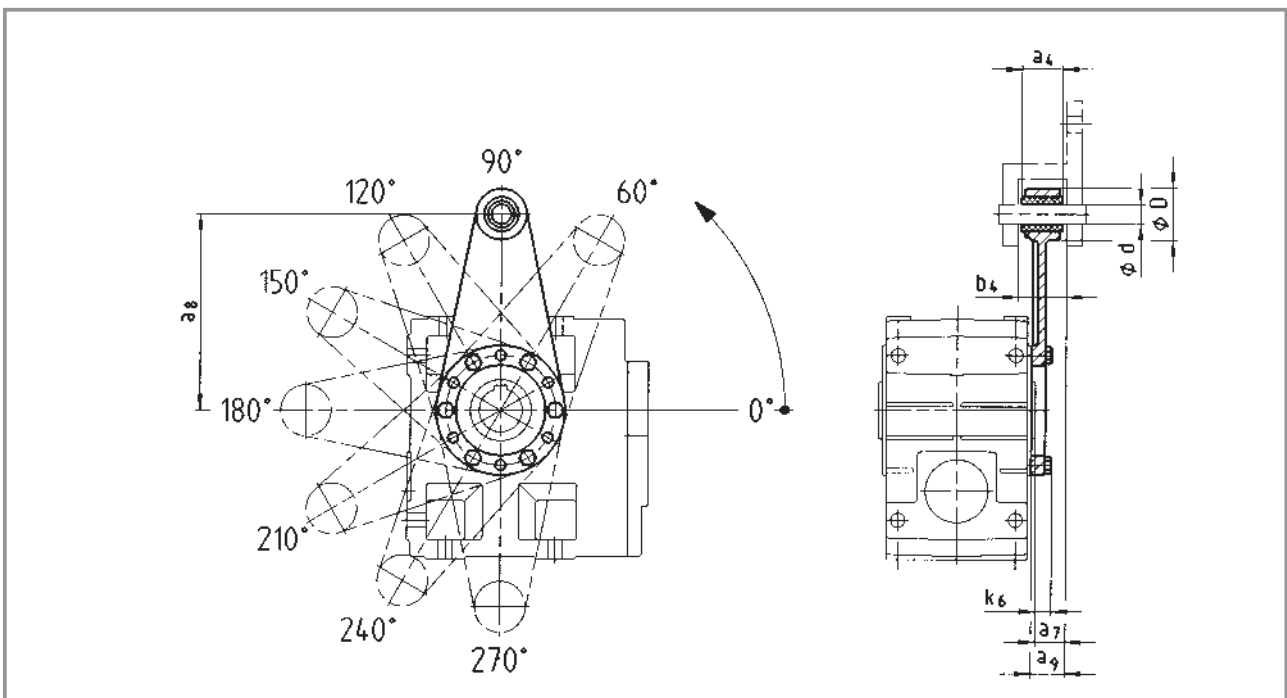
| Gearbox size | Protection cover k_{11} |
|--------------|------------------------------|
| 04 | 9 |
| 05 | 10 |
| 06 | 11 |
| 07 | 11 |
| 09 | 54 |
| 11 | 67 |
| 14 | 80 |

Dimensions in [mm]

Torque plate at pitch circle, position 3



Torque plate at pitch circle, position 5



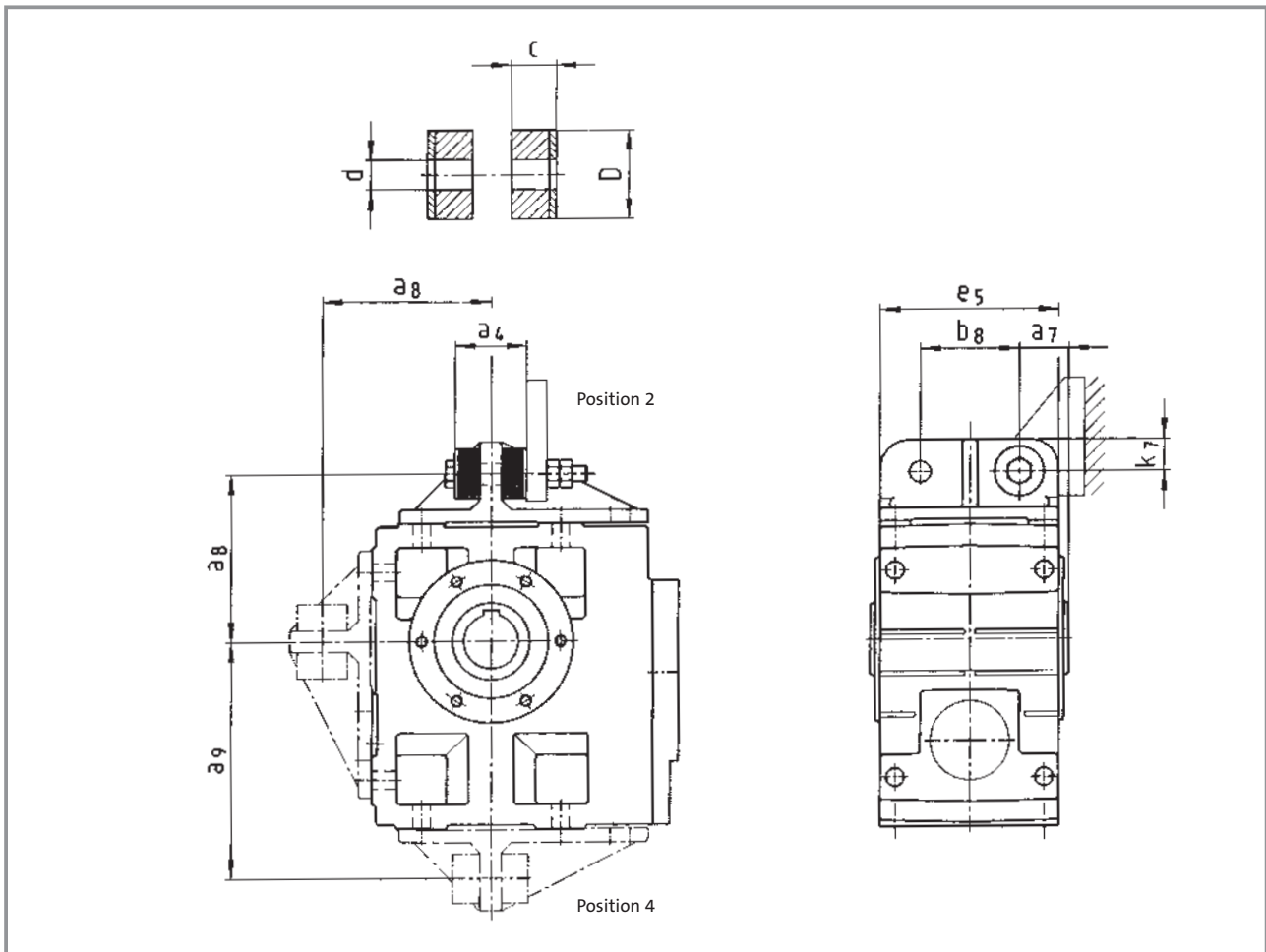
| Gearbox-size | Assembly space | | Torque plate | | | | | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|--|
| | a ₇ | b ₄ | a ₄ | a ₈ | a ₉ | d | D | k ₆ | |
| 04 | 24 | 34.5 | 30 | 130 | 26.5 | 12 | 35 | 16 | |
| 05 | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 15 | |
| 06 | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 | |
| 07 | 32.5 | 50.5 | 46 | 250 | 37.5 | 25 | 65 | 21 | |

Dimensions in [mm]

Dimensions - Helical-bevel gearboxes

Further dimensions GKS□□

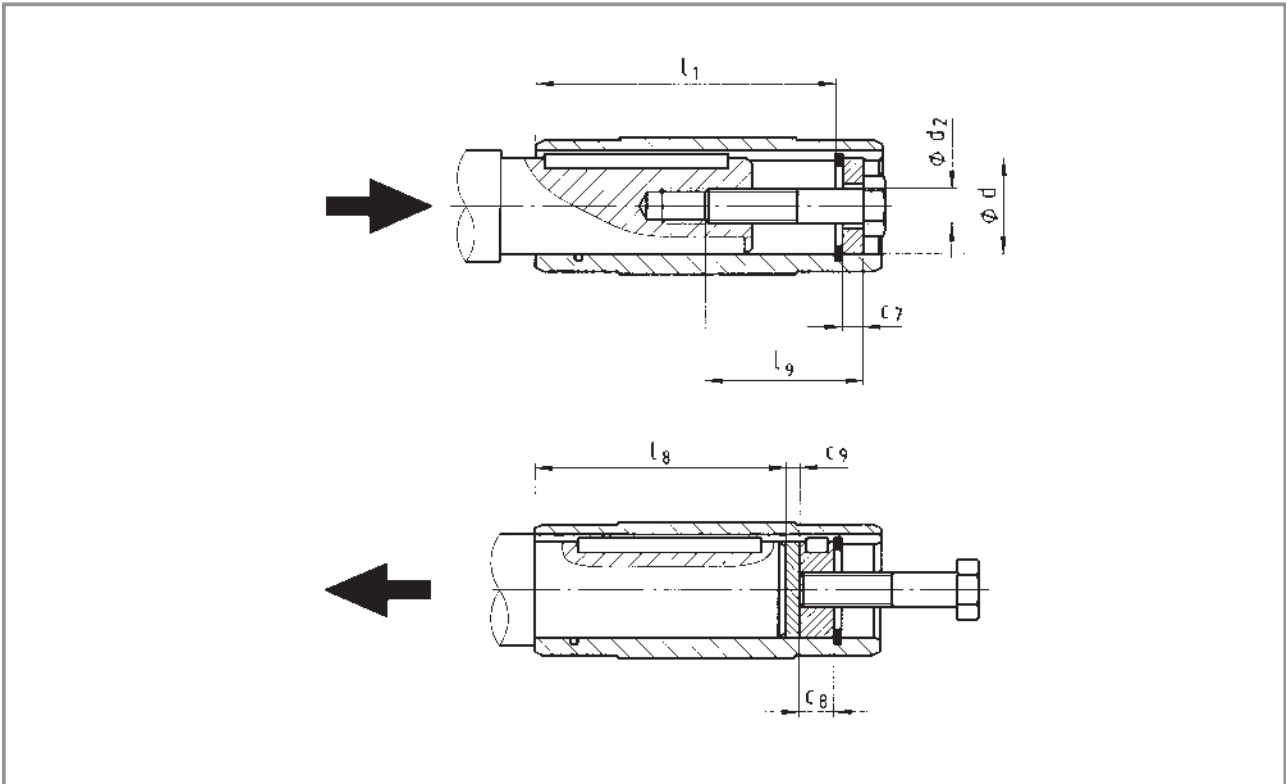
Torque plate at housing foot



| Gearbox size | a_4 | a_7 | a_8 | a_9 | b_8 | c | d | D | e_5 | k_7 |
|--------------|-------|-------|-------|-------|-------|------|-----|-----|-------|-------|
| 04 | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| 05 | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| 06 | 72 | 40 | 145 | 195 | 80 | 27 | 17 | 50 | 145 | 28 |
| 07 | 78 | 50 | 170 | 240 | 100 | 28 | 21 | 60 | 180 | 35 |
| 09 | 86 | 60 | 214 | 300 | 120 | 29 | 26 | 72 | 222 | 46 |
| 11 | 94 | 72.5 | 260 | 375 | 145 | 30 | 33 | 92 | 270 | 55 |
| 14 | 100 | 85 | 320 | 465 | 180 | 30 | 39 | 110 | 328 | 70 |

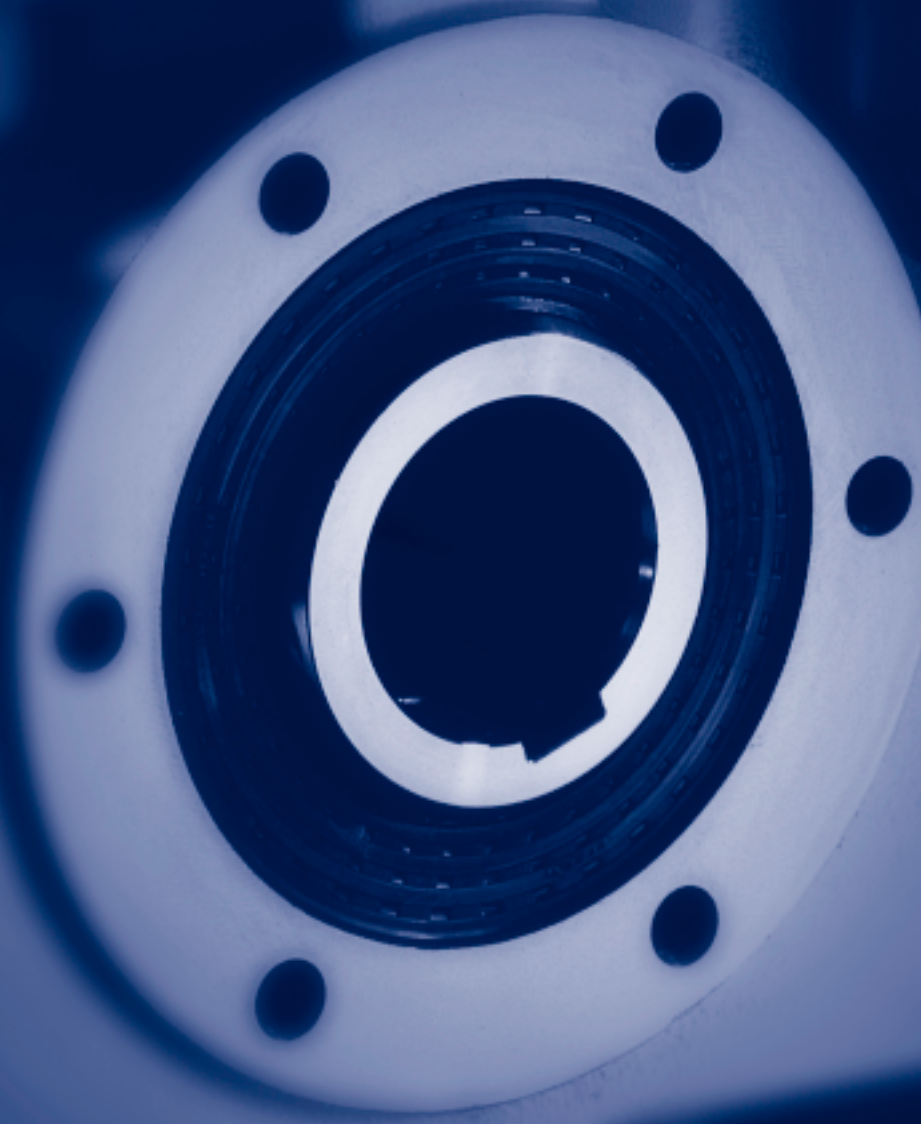
Dimensions in [mm]

Mounting set for hollow shaft circlip - Proposed design for auxiliary tools



| Gearbox size | Gearbox Hollow shaft (design H) | | | Mounting set for hollow shaft circlip (auxiliary tool assembly) | | | Auxiliary tool disassembly | | Machine shaft |
|--------------|---------------------------------|-------|-----------|--|----------|----------|----------------------------|-------|---------------|
| | l | l_1 | d H7 | d_2 | l_9 | c_7 | c_8 | c_9 | max l_8 |
| 04 | 115 | 100 | 25 30 | M10 M10 | 40 | 5 6 | 10 | 3 | 85 |
| 05 | 140 | 124 | 30 35 | M10 M12 | 40 50 | 6 7 | 10 12 | 3 | 107 |
| 06 | 160 | 140 | 40 45 | M16 | 60 | 8 9 | 16 | 4 | 118 |
| 07 | 200 | 175 | 50 55 | M16 M20 | 60 80 | 10 11 | 16 20 | 5 | 148 |
| 09 | 240 | 210 | 60 70 | M20 | 80 | 13 14 | 20 | 5 | 182 |
| 11 | 290 | 250 | 70 80 | M20 | 80 | 14 16 | 20 | 6 | 221 |
| 14 | 350 | 305 | 100 | M24 | 100 | 20 | 24 | 8 | 270 |

Dimensions in [mm]



Technical data

Permissible radial and axial forces

| | |
|--|-----|
| Output _____ | 7-2 |
| Start-up efficiency _____ | 7-4 |
| Ventilation _____ | 7-5 |
| Position of ventilation, oil filler plug and oil drain plug _____ | 7-5 |
| Weights _____ | 7-7 |

Selection tables

| | |
|-------------------------------------|-----|
| Geared motors with 8200 motec _____ | 7-8 |
|-------------------------------------|-----|

Dimensions

| | |
|---|------|
| Geared motors with 8200 motec _____ | 7-24 |
| Further dimensions _____ | 7-33 |
| Hollow shaft with shrink disc _____ | 7-33 |
| Gearbox with 2nd output shaft end _____ | 7-34 |
| Hoseproof hollow shaft cover _____ | 7-35 |
| Torque plate at pitch circle _____ | 7-36 |
| Torque plate at housing foot _____ | 7-37 |
| Mounting set for hollow shaft circlip _____ | 7-38 |
| Proposed design for auxiliary tools _____ | 7-38 |

Technical data - Helical-worm gearboxes

Permissible radial and axial forces - Output

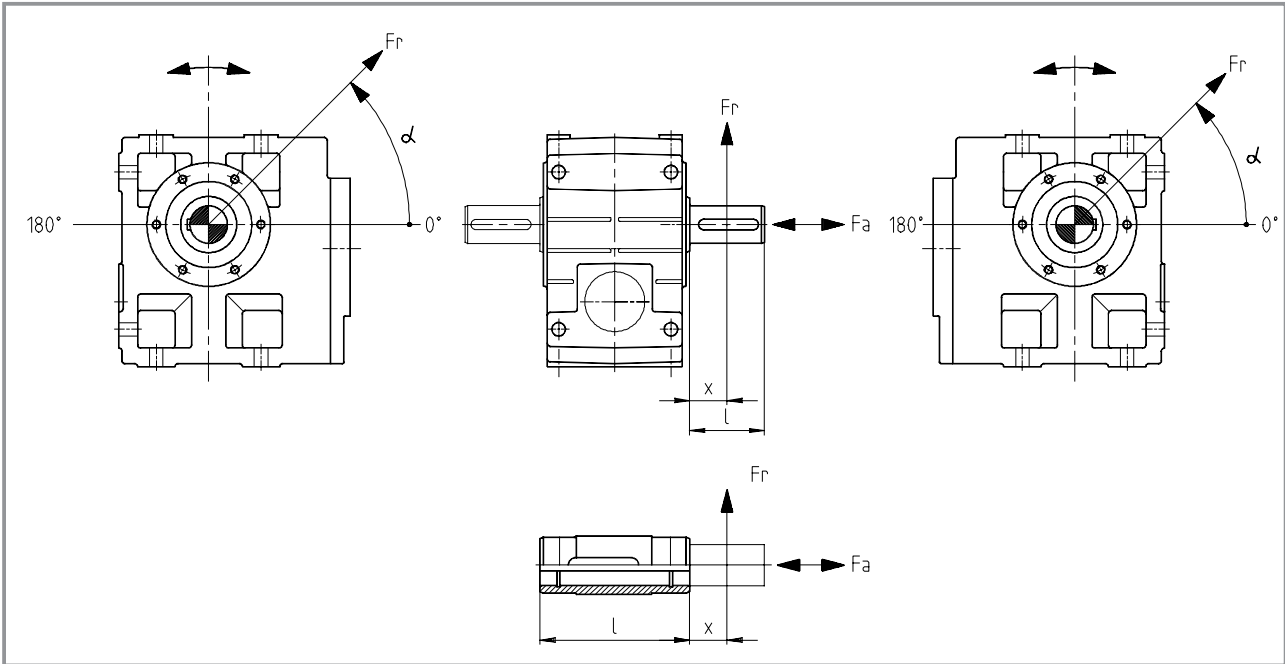
Permissible radial force

$$F_{rperm} = f_w \cdot f_\alpha \cdot F_{rTab} \leq f_w \cdot F_{rmax}$$

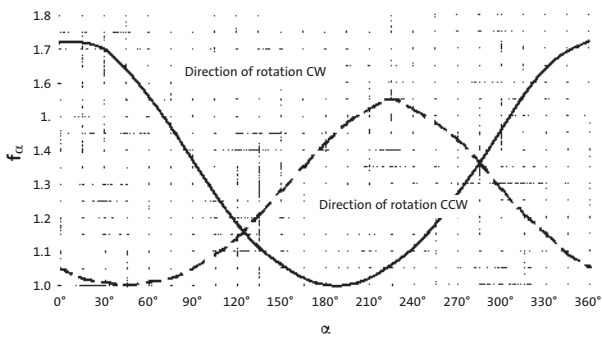
Permissible axial force

$$F_{aperm} = F_{aTab} \quad \text{at } F_r = 0$$

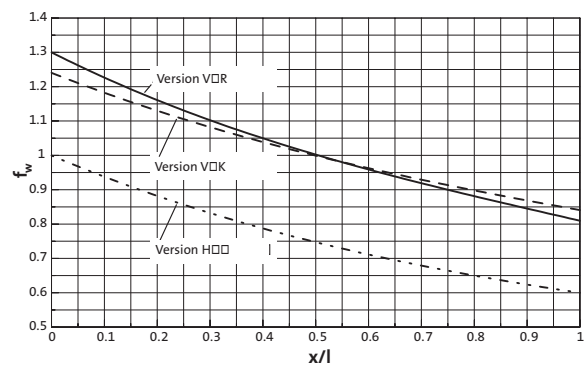
Contact Lenze if F_r and $F_a \neq 0$



f_α Effective direction factor at output shaft



f_w Additional load factor at output shaft



Technical data - Helical-worm gearboxes

Permissible radial and axial forces - Output

| VAK | Solid shaft with flange Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 250 | 4100 | 3500 | 4900 | 2500 | 7000 | 2800 | 7900 | 2400 |
| 160 | 4400 | 4000 | 4900 | 3100 | 8100 | 3500 | 9100 | 3200 |
| 100 | 4700 | 4200 | 4900 | 4000 | 9400 | 4500 | 10600 | 4300 |
| 63 | 4700 | 4200 | 4900 | 4900 | 9400 | 5700 | 12400 | 5900 |
| 40 | 4700 | 4200 | 4900 | 5500 | 9400 | 7300 | 14000 | 8000 |
| 25 | 4700 | 4200 | 4900 | 5500 | 9400 | 8800 | 14000 | 10000 |
| ≤16 | 4700 | 4200 | 4900 | 5500 | 9400 | 8800 | 10000 | 14000 |
| $F_{r max}$ | 4700 | – | 4900 | – | 9400 | – | 14000 | – |

| VOR | Solid shaft without flange Application of force F_r : Centre of shaft journal ($x = l/2$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 250 | 3000 | 3700 | 2900 | 2800 | 3600 | 3200 | 4200 | 3100 |
| 160 | 3500 | 4200 | 3400 | 3500 | 4200 | 4100 | 5100 | 4100 |
| 100 | 4100 | 4900 | 4000 | 4400 | 5000 | 5200 | 6300 | 5500 |
| 63 | 4200 | 5500 | 4300 | 5500 | 5900 | 6500 | 7700 | 7200 |
| 40 | 4200 | 5500 | 4300 | 6000 | 6900 | 8200 | 9300 | 9500 |
| 25 | 4200 | 5500 | 4300 | 6000 | 8200 | 9000 | 11300 | 12500 |
| ≤16 | 4200 | 5500 | 4300 | 6000 | 8500 | 9000 | 12000 | 12500 |
| $F_{r max}$ | 4200 | – | 4300 | – | 8500 | – | 12000 | – |

| HOO | Hollow shaft Application of force F_r : At hollow shaft end face ($x = 0$) F_{aTab} only valid for $F_r = 0$ | | | | | | | |
|----------------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [rpm] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] | F_{rTab} [N] | F_{aTab} [N] |
| 250 | 3800 | 3700 | 3600 | 2800 | 4800 | 3200 | 5600 | 3100 |
| 160 | 4500 | 4200 | 4300 | 3500 | 5600 | 4100 | 6700 | 4100 |
| 100 | 5300 | 4900 | 5100 | 4400 | 6600 | 5200 | 8200 | 5500 |
| 63 | 6000 | 5500 | 6000 | 5500 | 7700 | 6500 | 10000 | 7200 |
| 40 | 6000 | 5500 | 7000 | 6000 | 9100 | 8200 | 12100 | 9500 |
| 25 | 6000 | 5500 | 7500 | 6000 | 10700 | 9000 | 14800 | 12500 |
| ≤16 | 6000 | 5500 | 7500 | 6000 | 11500 | 9000 | 16000 | 12500 |
| $F_{r max}$ | 6000 | – | 7500 | – | 11500 | – | 16000 | – |

Neither radial nor axial forces are permitted on hollow shafts with shrink discs (S□□).

Technical data - Helical-worm gearboxes

Start-up efficiency

During start-up, the start-up efficiency η_A of a helical-worm gearbox is lower than its operative efficiency η at rated speed.

The start-up efficiency η_A must therefore always be considered when starting under load.

The start-up efficiency is determined by the oil temperature and the degree to which the tooth faces have been run in.

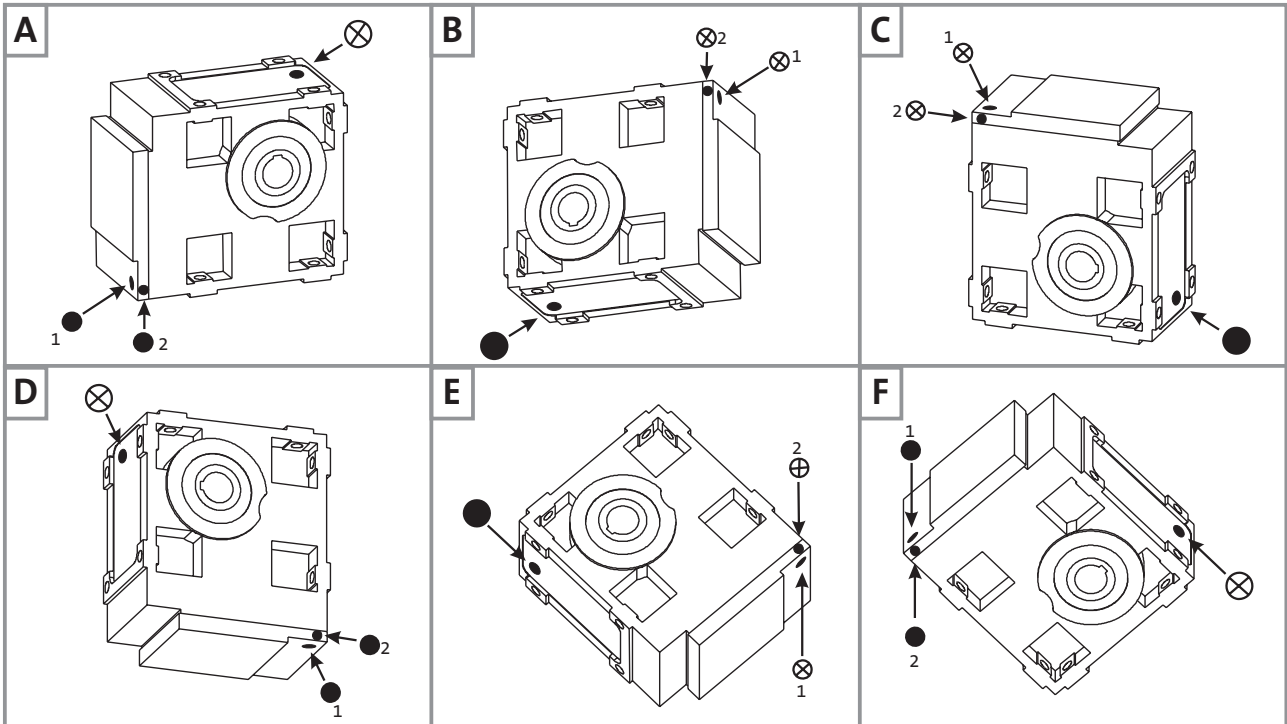
The values given in the tables are theoretical values and are valid with a tolerance of $\pm 10\%$.

| Ratio i_{rated} | Start-up efficiency η_A |
|--------------------------|------------------------------|
| 5.6 | 0.71 |
| 8 | 0.71 |
| 9 | 0.67 |
| 10 | 0.71 |
| 11.2 | 0.71 |
| 12.5 | 0.67 |
| 14 | 0.71 |
| 16 | 0.67 |
| 18 | 0.67 |
| 20 | 0.55 |
| 22.4 | 0.67 |
| 25 | 0.55 |
| 28 | 0.67 |
| 31.5 | 0.55 |
| 35.5 | 0.67 |

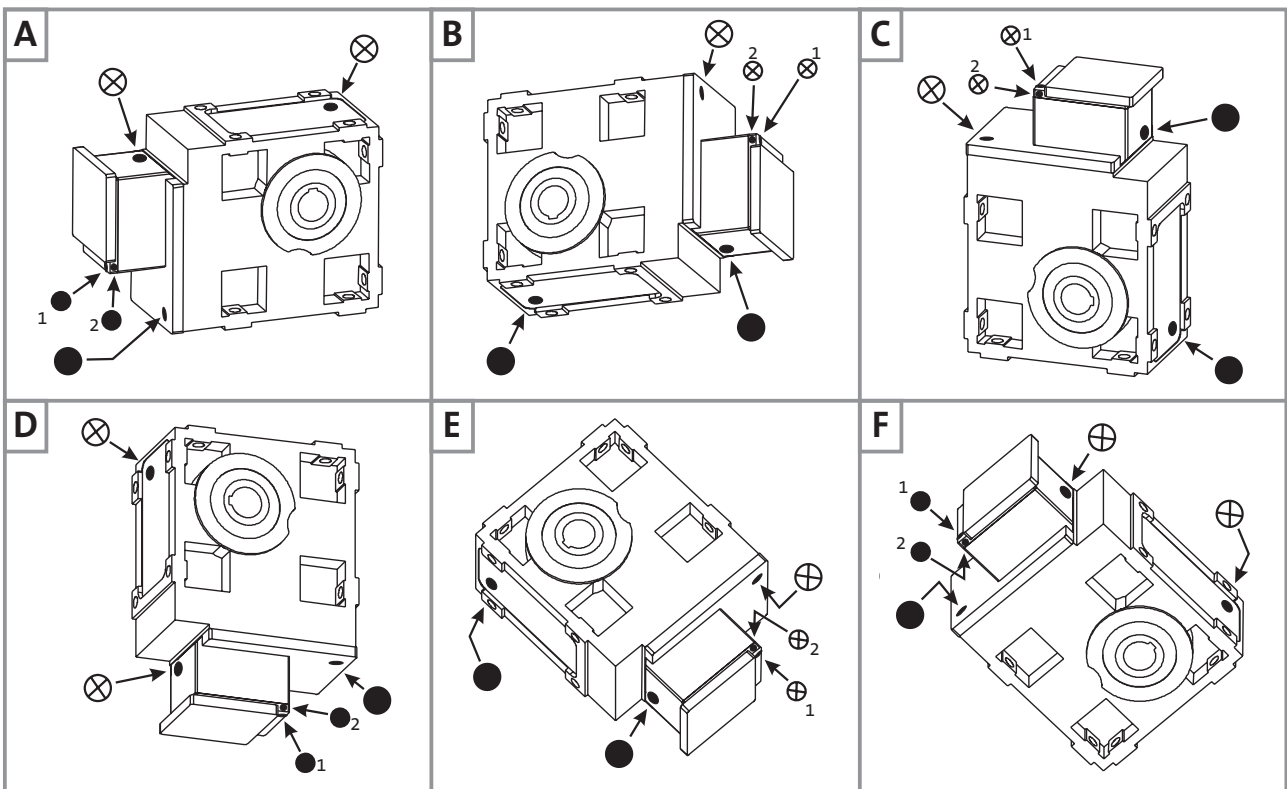
| Ratio i_{rated} | Start-up efficiency η_A |
|--------------------------|------------------------------|
| 40 | 0.55 |
| 45 | 0.67 |
| 50 | 0.55 |
| 56 | 0.55 |
| 63 | 0.55 |
| 71 | 0.55 |
| 80 | 0.55 |
| 90 | 0.55 |
| 100 | 0.55 |
| 112 | 0.55 |
| 125 | 0.55 |
| 140 | 0.55 |
| 160 | 0.55 |
| 180 | 0.55 |
| 200 | 0.55 |

Position of ventilation, oil filler plug and oil drain plug

Helical-worm gearboxes GSS 05 ... 07-2



Helical-worm gearboxes GSS 05 ... 07-3



(A ... F) Mounting position

⊗ Ventilation/oil filler plug
● Oil drain plug

Pos. 1 or 2 depending on version
(see table on page 7-6)

On the **versions listed** in the table, the ventilation/oil filler plug or oil drain plug is in **position 2** in the cover on the side.

On the **versions not listed**, the ventilation/oil filler plug or oil drain plug is in **position 1**.

Helical-worm gearboxes

| | | | | | |
|-----|----|----|---|-----|------------|
| GSS | 05 | -2 | E | □□□ | 090 100 |
| | 06 | -2 | E | □□□ | 112 |
| | 07 | -3 | E | □□□ | 090 100 |

Helical-worm gearboxes GSS□□-2

| Geared motors GSS□□-2E H□R | Motor frame size | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
| | 8200 motec E82MV □□□ | | | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| 04 | 18 | 20 | 21 | 26 | 27 | 34 | | | | | |
| 05 | 27 | 30 | 31 | 35 | 36 | 43 | 50 | 56 | | | |
| 06 | 40 | 42 | 43 | 47 | 49 | 56 | 63 | 69 | 77 | 84 | |
| 07 | | | | 72 | 74 | 81 | 88 | 94 | 102 | 109 | 139 |

Helical-worm gearboxes GSS□□-3

| Geared motors GSS□□-3E H□R | Motor frame size | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--|
| | 063 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | |
| | 8200 motec E82MV □□□ | | | | | | | | |
| | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | |
| 05 | 28 | 30 | 31 | 36 | 38 | | | | |
| 06 | 43 | 45 | 46 | 51 | 53 | 59 | | | |
| 07 | 72 | 75 | 76 | 80 | 82 | 88 | 95 | 101 | |

Additional weights

| Gearbox size | Solid shaft | 2nd output shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------|-------------|----------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □AK | Housing foot | Pitch circle |
| 04 | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| 05 | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| 06 | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| 07 | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |

Weights in [kg] with oil capacity for mounting position A. All data is approximate

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------|---|--------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |
| P₁ = 0.12 kW | | | | | | | | | | | | |
| 13 | 8 | 38 | 6.6 | 53 | 132 | 8 | 5.4 | 229 | 4.3 | 10.827 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 10 | 10 | 30 | 8.4 | 41 | 103 | 10 | 5.0 | 180 | 5.5 | 13.810 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 8.2 | 12 | 24 | 10.3 | 33 | 82 | 12 | 5.4 | 143 | 6.7 | 17.360 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 6.4 | 15 | 19 | 13 | 26 | 64 | 15 | 5.0 | 112 | 8.7 | 22.143 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 4.2 | 22 | 12 | 19 | 17 | 42 | 22 | 5.5 | 73 | 13 | 34.100 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.6 | 23 | 11 | 21 | 15 | 36 | 23 | 5.4 | 63 | 14 | 39.200 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 3.2 | 29 | 9.4 | 25 | 13 | 32 | 29 | 4.6 | 56 | 17 | 43.917 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.9 | 29 | 8.3 | 26 | 11 | 29 | 29 | 5.0 | 50 | 18 | 50.000 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 2.1 | 41 | 6.1 | 35 | 8.4 | 21 | 41 | 4.2 | 36 | 25 | 68.200 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.9 | 45 | 5.4 | 38 | 7.4 | 19 | 45 | 3.9 | 32 | 28 | 77.000 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.6 | 52 | 4.7 | 44 | 6.5 | 16 | 52 | 3.3 | 28 | 32 | 87.833 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.4 | 57 | 4.2 | 48 | 5.8 | 14 | 57 | 3.1 | 25 | 36 | 99.167 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.3 | 66 | 3.7 | 54 | 5.1 | 13 | 66 | 2.7 | 22 | 41 | 111.318 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.1 | 72 | 3.3 | 59 | 4.5 | 11 | 72 | 2.5 | 20 | 46 | 125.682 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 1.0 | 82 | 3 | 66 | 4.1 | 10 | 82 | 2.2 | 18 | 51 | 139.500 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 0.9 | 89 | 2.6 | 72 | 3.6 | 9.1 | 89 | 2.0 | 16 | 57 | 157.500 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 0.8 | 106 | 2.2 | 84 | 3.1 | 7.8 | 106 | 1.7 | 13 | 67 | 183.786 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 0.7 | 116 | 2 | 92 | 2.7 | 6.9 | 116 | 1.5 | 12 | 74 | 207.500 | GSS04 - 2E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 131 | 1.9 | 99 | 2.6 | 6.4 | 131 | 2.7 | 11 | 79 | 222.133 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.6 | 148 | 1.6 | 110 | 2.3 | 5.7 | 148 | 2.4 | 10 | 89 | 250.952 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 163 | 1.5 | 122 | 2.0 | 5.0 | 163 | 2.2 | 9 | 100 | 283.333 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.5 | 169 | 1.3 | 137 | 1.8 | 4.6 | 169 | 4.1 | 8 | 110 | 310.689 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 187 | 1.2 | 155 | 1.6 | 4.1 | 187 | 3.7 | 7 | 124 | 350.778 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.4 | 218 | 1.1 | 167 | 1.5 | 3.7 | 218 | 1.6 | 6 | 134 | 386.467 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 239 | 0.9 | 189 | 1.3 | 3.3 | 239 | 1.5 | 6 | 150 | 436.333 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 230 | 0.9 | 194 | 1.3 | 3.3 | 230 | 3.0 | 6 | 153 | 436.333 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 272 | 0.8 | 217 | 1.1 | 2.9 | 272 | 1.3 | 5 | 168 | 497.722 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 263 | 0.8 | 222 | 1.1 | 2.9 | 263 | 2.7 | 5 | 172 | 497.722 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 298 | 0.7 | 245 | 1.0 | 2.5 | 298 | 1.2 | 4 | 187 | 561.944 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.3 | 290 | 0.7 | 250 | 1.0 | 2.5 | 290 | 2.4 | 4 | 193 | 561.944 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 335 | 0.7 | 276 | 0.9 | 2.3 | 335 | 1.1 | 4 | 207 | 630.803 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 327 | 0.7 | 282 | 0.9 | 2.3 | 327 | 2.2 | 4 | 214 | 630.803 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 367 | 0.6 | 312 | 0.8 | 2.0 | 367 | 1.0 | 3 | 231 | 712.197 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 361 | 0.6 | 318 | 0.8 | 2.0 | 361 | 2.0 | 3 | 240 | 712.197 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 407 | 0.5 | 346 | 0.7 | 1.8 | 407 | 0.9 | 3 | 252 | 790.500 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 415 | 0.5 | 366 | 0.7 | 1.8 | 415 | 1.7 | 3 | 270 | 816.333 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 445 | 0.5 | 392 | 0.6 | 1.6 | 445 | 0.8 | 3 | 280 | 892.500 | GSS05 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.2 | 459 | 0.4 | 414 | 0.6 | 1.6 | 459 | 1.6 | 3 | 301 | 921.667 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 512 | 0.4 | 461 | 0.6 | 1.4 | 512 | 1.4 | 2 | 330 | 1023.000 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 567 | 0.4 | 521 | 0.5 | 1.2 | 567 | 1.3 | 2 | 368 | 1155.000 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 614 | 0.3 | 561 | 0.5 | 1.2 | 614 | 1.2 | 2 | 391 | 1241.550 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|---|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

P₁ = 0.12 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|----------|-----------------------|--------------|
| 0.1 | 681 | 0.3 | 635 | 0.4 | 1.0 | 681 | 1.1 | 2 | 435 | 1401.750 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 797 | 0.3 | 742 | 0.3 | 0.9 | 797 | 0.9 | 2 | 497 | 1635.693 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |
| 0.1 | 886 | 0.2 | 839 | 0.3 | 0.8 | 886 | 0.8 | 1 | 555 | 1846.750 | GSS06 - 3E □□□ 063C12 | E82MV 251_2B |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 13 | 12 | 37 | 10.6 | 50 | 126 | 12 | 3.4 | 219 | 6.9 | 10.827 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 9.9 | 16 | 29 | 13.5 | 40 | 99 | 16 | 3.2 | 172 | 8.9 | 13.810 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 7.9 | 19 | 23 | 16 | 31 | 79 | 19 | 3.4 | 137 | 11 | 17.360 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 6.2 | 24 | 18 | 21 | 25 | 62 | 24 | 3.2 | 107 | 14 | 22.143 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 4.0 | 36 | 12 | 31 | 16 | 40 | 36 | 3.5 | 70 | 21 | 34.100 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.5 | 37 | 10 | 33 | 14 | 35 | 37 | 3.4 | 61 | 22 | 39.200 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 3.1 | 46 | 9 | 39 | 12 | 31 | 46 | 2.9 | 54 | 28 | 43.917 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.7 | 47 | 7.9 | 41 | 11 | 27 | 47 | 3.2 | 48 | 28 | 50.000 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 2.0 | 65 | 5.8 | 55 | 8.0 | 20 | 65 | 2.7 | 35 | 40 | 68.200 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.8 | 72 | 5.1 | 61 | 7.1 | 18 | 72 | 2.5 | 31 | 44 | 77.000 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.6 | 83 | 4.5 | 69 | 6.2 | 16 | 83 | 2.1 | 27 | 51 | 87.833 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.4 | 91 | 4 | 76 | 5.5 | 14 | 91 | 2.0 | 24 | 57 | 99.167 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.2 | 104 | 3.6 | 86 | 4.9 | 12 | 104 | 1.7 | 21 | 65 | 111.318 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.1 | 114 | 3.1 | 93 | 4.4 | 11 | 114 | 1.6 | 19 | 72 | 125.682 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 1.0 | 129 | 2.8 | 104 | 3.9 | 9.8 | 129 | 1.4 | 17 | 81 | 139.500 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 0.9 | 141 | 2.5 | 113 | 3.5 | 8.7 | 141 | 1.3 | 15 | 90 | 157.500 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 168 | 2.2 | 132 | 3.0 | 7.4 | 168 | 1.1 | 13 | 106 | 183.786 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 0.7 | 183 | 1.9 | 144 | 2.6 | 6.6 | 183 | 1.0 | 11 | 117 | 207.500 | GSS04 - 2E □□□ 063C32 | E82MV 251_2B |
| 0.6 | 208 | 1.8 | 156 | 2.5 | 6.1 | 208 | 1.7 | 11 | 125 | 222.133 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 235 | 1.6 | 174 | 2.2 | 5.4 | 235 | 1.5 | 9 | 141 | 250.952 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 258 | 1.4 | 193 | 1.9 | 4.8 | 258 | 1.4 | 8 | 158 | 283.333 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.5 | 233 | 1.5 | 192 | 2.0 | 5.1 | 233 | 3.0 | 9 | 153 | 269.500 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 270 | 1.3 | 220 | 1.8 | 4.4 | 270 | 2.6 | 8 | 175 | 310.689 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 299 | 1.1 | 248 | 1.6 | 3.9 | 299 | 2.4 | 7 | 196 | 350.778 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 344 | 1 | 264 | 1.4 | 3.5 | 344 | 1.0 | 6 | 210 | 386.467 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.4 | 331 | 1 | 273 | 1.4 | 3.5 | 331 | 2.1 | 6 | 215 | 386.467 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 377 | 0.9 | 299 | 1.3 | 3.1 | 377 | 1.0 | 5 | 235 | 436.333 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 365 | 0.9 | 308 | 1.3 | 3.1 | 365 | 1.9 | 5 | 242 | 436.333 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 429 | 0.8 | 342 | 1.1 | 2.7 | 429 | 0.8 | 5 | 263 | 497.722 | GSS05 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.3 | 417 | 0.8 | 352 | 1.1 | 2.7 | 417 | 1.7 | 5 | 272 | 497.722 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 460 | 0.7 | 397 | 1.0 | 2.4 | 460 | 1.6 | 4 | 304 | 561.944 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 518 | 0.6 | 446 | 0.9 | 2.2 | 518 | 1.4 | 4 | 338 | 630.803 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 572 | 0.6 | 503 | 0.8 | 1.9 | 572 | 1.3 | 3 | 377 | 712.197 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.2 | 656 | 0.5 | 578 | 0.7 | 1.7 | 656 | 1.1 | 3 | 424 | 816.333 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | i | Helical- worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|---|---|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

P₁ = 0.18 kW

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|----------|-----------------------|--------------|
| 0.1 | 725 | 0.4 | 654 | 0.6 | 1.5 | 725 | 1.0 | 3 | 472 | 921.667 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.1 | 808 | 0.4 | 727 | 0.5 | 1.3 | 808 | 0.9 | 2 | 518 | 1023.000 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |
| 0.1 | 895 | 0.3 | 822 | 0.5 | 1.2 | 895 | 0.8 | 2 | 575 | 1155.000 | GSS06 - 3E □□□ 063C32 | E82MV 251_2B |

P₁ = 0.25 kW

| | | | | | | | | | | | | |
|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------|-----------------------|--------------|
| 24 | 9 | 70 | 7.7 | 97 | 243 | 9 | 4.5 | 423 | 4.8 | 5.639 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 18 | 12 | 51 | 10.5 | 71 | 177 | 12 | 4.5 | 308 | 6.7 | 7.733 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 15 | 13 | 44 | 11.9 | 61 | 152 | 13 | 4.5 | 264 | 7.6 | 9.042 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 14 | 15 | 40 | 13.2 | 55 | 138 | 15 | 5.2 | 241 | 8.6 | 9.897 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 13 | 17 | 37 | 14.6 | 51 | 127 | 17 | 4.5 | 220 | 9.5 | 10.827 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 11 | 18 | 32 | 16 | 44 | 111 | 18 | 4.5 | 192 | 10 | 12.400 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 9.9 | 21 | 29 | 18 | 40 | 99 | 21 | 4.8 | 173 | 12 | 13.810 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 8.6 | 23 | 25 | 20 | 35 | 86 | 23 | 5.2 | 150 | 13 | 15.869 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 7.9 | 26 | 23 | 23 | 32 | 79 | 26 | 4.5 | 137 | 15 | 17.360 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.7 | 27 | 19 | 24 | 27 | 67 | 27 | 4.5 | 117 | 15 | 20.417 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 6.2 | 32 | 18 | 28 | 25 | 62 | 32 | 4.8 | 108 | 19 | 22.143 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.5 | 34 | 16 | 30 | 22 | 55 | 34 | 4.5 | 96 | 19 | 24.800 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 5.1 | 39 | 15 | 34 | 20 | 51 | 39 | 4.3 | 88 | 23 | 27.125 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.3 | 43 | 13 | 38 | 17 | 43 | 43 | 4.1 | 75 | 25 | 31.738 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 4.0 | 50 | 12 | 43 | 16 | 40 | 50 | 3.5 | 70 | 29 | 34.100 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.5 | 52 | 10 | 46 | 14 | 35 | 52 | 3.4 | 61 | 31 | 39.200 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 3.1 | 64 | 9 | 54 | 12 | 31 | 64 | 2.8 | 54 | 38 | 43.917 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.7 | 66 | 7.9 | 57 | 11 | 27 | 66 | 2.7 | 48 | 39 | 50.000 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.5 | 73 | 7.3 | 63 | 10 | 25 | 73 | 2.4 | 44 | 44 | 54.250 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.2 | 80 | 6.5 | 69 | 9.0 | 22 | 80 | 2.2 | 39 | 49 | 61.250 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 2.0 | 91 | 5.8 | 77 | 8.0 | 20 | 91 | 2.0 | 35 | 55 | 68.200 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.8 | 100 | 5.2 | 85 | 7.1 | 18 | 100 | 1.8 | 31 | 62 | 77.000 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.7 | 110 | 5 | 89 | 6.9 | 17 | 110 | 3.2 | 30 | 64 | 79.722 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.6 | 116 | 4.5 | 97 | 6.2 | 16 | 116 | 1.5 | 27 | 72 | 87.833 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.6 | 122 | 4.5 | 99 | 6.2 | 16 | 122 | 2.9 | 27 | 72 | 87.833 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 127 | 4 | 106 | 5.5 | 14 | 127 | 1.4 | 24 | 80 | 99.167 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.4 | 136 | 4 | 109 | 5.5 | 14 | 136 | 2.6 | 24 | 80 | 99.167 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 145 | 3.6 | 119 | 4.9 | 12 | 145 | 1.2 | 21 | 91 | 111.318 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.2 | 158 | 3.5 | 125 | 4.8 | 12 | 158 | 2.2 | 21 | 93 | 113.667 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 159 | 3.2 | 130 | 4.4 | 11 | 159 | 1.1 | 19 | 100 | 125.682 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.1 | 174 | 3.1 | 137 | 4.3 | 11 | 174 | 2.0 | 19 | 104 | 128.333 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 180 | 2.8 | 145 | 3.9 | 9.8 | 180 | 1.0 | 17 | 113 | 139.500 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 190 | 2.9 | 148 | 4.0 | 9.9 | 190 | 1.9 | 17 | 113 | 137.950 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 1.0 | 182 | 2.9 | 150 | 4.0 | 9.9 | 182 | 3.2 | 17 | 112 | 137.950 | GSS06 - 2E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 196 | 2.5 | 158 | 3.5 | 8.7 | 196 | 0.9 | 15 | 125 | 157.500 | GSS04 - 2E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 210 | 2.6 | 162 | 3.5 | 8.8 | 210 | 1.7 | 15 | 126 | 155.750 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 0.9 | 202 | 2.6 | 168 | 3.5 | 8.8 | 202 | 3.2 | 15 | 126 | 155.750 | GSS06 - 2E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 240 | 2.3 | 184 | 3.1 | 7.8 | 240 | 1.4 | 14 | 143 | 176.313 | GSS05 - 2E □□□ 063C42 | E82MV 251_2B |
| 0.8 | 228 | 2.3 | 186 | 3.1 | 7.9 | 228 | 2.6 | 14 | 142 | 174.375 | GSS06 - 2E □□□ 063C42 | E82MV 251_2B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan | | | | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---------------------------------|------------------------|--|--|---|---|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | | |

P₁ = 0.55 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|-----|------|-----|----|-----|---------|-----------------------|--------------|
| 1.8 | 217 | 5.3 | 186 | 7.3 | 18 | 217 | 0.8 | 32 | 134 | 77.000 | GSS04 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.8 | 240 | 5.1 | 197 | 7.0 | 18 | 240 | 1.5 | 31 | 140 | 79.722 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.8 | 232 | 5.1 | 201 | 7.0 | 18 | 232 | 3.0 | 31 | 140 | 79.722 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.6 | 268 | 4.6 | 217 | 6.4 | 16 | 268 | 1.3 | 28 | 157 | 87.833 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.6 | 257 | 4.6 | 219 | 6.4 | 16 | 257 | 2.7 | 28 | 155 | 87.833 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 297 | 4.1 | 239 | 5.7 | 14 | 297 | 1.2 | 25 | 175 | 99.167 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.4 | 287 | 4.1 | 246 | 5.7 | 14 | 287 | 2.5 | 25 | 175 | 99.167 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 344 | 3.6 | 273 | 5.0 | 12 | 344 | 1.0 | 22 | 202 | 113.667 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.2 | 330 | 3.6 | 278 | 5.0 | 12 | 330 | 2.2 | 22 | 201 | 113.667 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 379 | 3.2 | 300 | 4.4 | 11 | 379 | 1.0 | 19 | 225 | 128.333 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.1 | 368 | 3.2 | 311 | 4.4 | 11 | 368 | 1.9 | 19 | 228 | 128.333 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 413 | 3 | 323 | 4.1 | 10 | 413 | 0.9 | 18 | 245 | 137.950 | GSS05 - 2E □□□ 071C42 | E82MV 551_4B |
| 1.0 | 398 | 3 | 330 | 4.1 | 10 | 398 | 1.8 | 18 | 244 | 137.950 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 0.9 | 443 | 2.6 | 370 | 3.6 | 9.0 | 443 | 1.6 | 16 | 276 | 155.750 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 0.8 | 498 | 2.3 | 407 | 3.2 | 8.1 | 498 | 1.4 | 14 | 308 | 174.375 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 554 | 2.1 | 455 | 2.9 | 7.1 | 554 | 1.3 | 12 | 348 | 196.875 | GSS06 - 2E □□□ 071C42 | E82MV 551_4B |
| 0.7 | 561 | 2 | 482 | 2.8 | 7.0 | 561 | 2.2 | 12 | 356 | 201.746 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 589 | 1.9 | 494 | 2.6 | 6.4 | 589 | 1.2 | 11 | 381 | 220.000 | GSS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 625 | 1.8 | 537 | 2.5 | 6.2 | 625 | 2.0 | 11 | 402 | 227.778 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 642 | 1.7 | 530 | 2.4 | 5.9 | 642 | 1.1 | 10 | 413 | 238.700 | GSS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.6 | 684 | 1.6 | 577 | 2.3 | 5.7 | 684 | 1.8 | 10 | 436 | 247.139 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 712 | 1.5 | 589 | 2.1 | 5.2 | 712 | 1.0 | 9 | 465 | 269.500 | GSS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 761 | 1.5 | 643 | 2.0 | 5.0 | 761 | 1.6 | 9 | 492 | 279.028 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.5 | 821 | 1.3 | 671 | 1.8 | 4.5 | 821 | 0.9 | 8 | 531 | 310.689 | GSS06 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 881 | 1.3 | 733 | 1.7 | 4.4 | 881 | 1.4 | 8 | 564 | 321.673 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 978 | 1.1 | 822 | 1.5 | 3.9 | 978 | 1.3 | 7 | 633 | 363.179 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.4 | 1066 | 1 | 889 | 1.4 | 3.6 | 1066 | 1.2 | 6 | 686 | 394.245 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1182 | 0.9 | 998 | 1.3 | 3.2 | 1182 | 1.1 | 5 | 771 | 445.116 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1304 | 0.8 | 1095 | 1.1 | 2.9 | 1304 | 1.0 | 5 | 842 | 490.403 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |
| 0.3 | 1445 | 0.7 | 1230 | 1.0 | 2.5 | 1445 | 0.9 | 4 | 942 | 553.681 | GSS07 - 3E □□□ 071C42 | E82MV 551_4B |

P₁ = 0.75 kW

| | | | | | | | | | | | | |
|-----|----|----|----|-----|-----|----|-----|-----|----|--------|-----------------------|--------------|
| 25 | 25 | 73 | 22 | 100 | 250 | 25 | 4.2 | 435 | 14 | 5.639 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 18 | 35 | 53 | 31 | 73 | 182 | 35 | 4.2 | 317 | 20 | 7.733 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 16 | 39 | 45 | 35 | 62 | 156 | 39 | 3.8 | 271 | 22 | 9.042 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 14 | 45 | 41 | 39 | 57 | 143 | 45 | 3.5 | 248 | 25 | 9.897 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 13 | 49 | 38 | 43 | 52 | 130 | 49 | 3.2 | 227 | 28 | 10.827 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 11 | 54 | 33 | 48 | 45 | 114 | 54 | 3.1 | 198 | 31 | 12.400 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 10 | 63 | 30 | 55 | 41 | 102 | 63 | 2.5 | 178 | 36 | 13.810 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.9 | 69 | 26 | 61 | 36 | 89 | 69 | 2.5 | 155 | 40 | 15.869 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 8.1 | 76 | 24 | 67 | 32 | 81 | 76 | 2.3 | 141 | 44 | 17.360 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.9 | 82 | 20 | 73 | 28 | 69 | 82 | 1.9 | 120 | 46 | 20.417 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |
| 6.4 | 97 | 18 | 85 | 25 | 64 | 97 | 1.8 | 111 | 57 | 22.143 | GSS04 - 2E □□□ 080C32 | E82MV 751_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | | | | |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|---------------------------------|------------|-------------------------|------------------------|---------|---|--------------|--|
| Motor cooling with integral fan | | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 30 - 50 Hz | | | | 87 Hz | | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 30 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ 50 Hz [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |
| P₁ = 1.1 kW | | | | | | | | | | | | | |
| 1.1 | 753 | 3.1 | 601 | 6.5 | 11 | 753 | 1.0 | 19 | 465 | 128.333 | GSS06 - 2E □□□ 080C42 | E82MV 152_4B | |
| 1.1 | 774 | 3.1 | 629 | 6.5 | 11 | 774 | 1.6 | 19 | 472 | 128.333 | GSS07 - 2E □□□ 080C42 | E82MV 152_4B | |
| 1.0 | 814 | 2.9 | 637 | 6.1 | 10 | 814 | 0.9 | 18 | 499 | 137.950 | GSS06 - 2E □□□ 080C42 | E82MV 152_4B | |
| 1.0 | 840 | 2.9 | 669 | 6.1 | 10 | 840 | 1.5 | 18 | 508 | 137.950 | GSS07 - 2E □□□ 080C42 | E82MV 152_4B | |
| 0.9 | 934 | 2.6 | 749 | 5.4 | 8.9 | 934 | 1.3 | 16 | 573 | 155.750 | GSS07 - 2E □□□ 080C42 | E82MV 152_4B | |
| 0.8 | 1051 | 2.3 | 828 | 4.8 | 8.0 | 1051 | 1.2 | 14 | 641 | 174.375 | GSS07 - 2E □□□ 080C42 | E82MV 152_4B | |
| 0.7 | 1171 | 2 | 926 | 4.2 | 7.1 | 1171 | 1.1 | 12 | 723 | 196.875 | GSS07 - 2E □□□ 080C42 | E82MV 152_4B | |
| 0.7 | 1150 | 2 | 931 | 4.1 | 6.9 | 1150 | 1.1 | 12 | 729 | 201.746 | GSS07 - 3E □□□ 080C42 | E82MV 152_4B | |
| 0.6 | 1280 | 1.8 | 1037 | 3.7 | 6.1 | 1280 | 1.0 | 11 | 822 | 227.778 | GSS07 - 3E □□□ 080C42 | E82MV 152_4B | |
| 0.6 | 1398 | 1.6 | 1114 | 3.4 | 5.6 | 1398 | 0.9 | 10 | 891 | 247.139 | GSS07 - 3E □□□ 080C42 | E82MV 152_4B | |
| 0.5 | 1554 | 1.4 | 1240 | 3.0 | 5.0 | 1554 | 0.8 | 9 | 1003 | 279.028 | GSS07 - 3E □□□ 080C42 | E82MV 152_4B | |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical- worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|---------|---|--------------|
| Motor cooling with integral fan | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | i | Helical- worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |
| P₁ = 1.5 kW | | | | | | | | | | | | |
| 1.1 | 1062 | 3.1 | 914 | 4.3 | 11 | 1062 | 1.2 | 19 | 647 | 128.333 | GSS07 - 2E □□□ 090C32 | E82MV 152_4B |
| 1.0 | 1151 | 2.9 | 972 | 4.0 | 10 | 1151 | 1.1 | 18 | 696 | 137.950 | GSS07 - 2E □□□ 090C32 | E82MV 152_4B |
| 0.9 | 1279 | 2.6 | 1088 | 3.6 | 8.9 | 1279 | 1.0 | 16 | 785 | 155.750 | GSS07 - 2E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1438 | 2.3 | 1201 | 3.2 | 8.0 | 1438 | 0.9 | 14 | 878 | 174.375 | GSS07 - 2E □□□ 090C32 | E82MV 152_4B |
| 0.8 | 1364 | 2.3 | 1191 | 3.2 | 7.9 | 1364 | 0.9 | 14 | 868 | 175.000 | GSS07 - 3E □□□ 090C32 | E82MV 152_4B |
| P₁ = 2.2 kW | | | | | | | | | | | | |
| 26 | 73 | 74 | 66 | 102 | 255 | 73 | 3.0 | 444 | 42 | 5.639 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 19 | 101 | 54 | 90 | 74 | 186 | 101 | 2.6 | 324 | 58 | 7.733 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 16 | 115 | 46 | 103 | 64 | 159 | 115 | 2.1 | 277 | 66 | 9.042 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 15 | 131 | 42 | 116 | 58 | 146 | 131 | 2.1 | 253 | 75 | 9.897 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 13 | 143 | 39 | 126 | 53 | 133 | 143 | 1.9 | 231 | 82 | 10.827 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 12 | 159 | 34 | 142 | 46 | 116 | 159 | 1.7 | 202 | 92 | 12.400 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 12 | 158 | 34 | 140 | 46 | 116 | 158 | 3.2 | 202 | 90 | 12.400 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 10 | 184 | 30 | 161 | 42 | 104 | 184 | 1.5 | 181 | 105 | 13.810 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 10 | 189 | 29 | 166 | 40 | 101 | 189 | 2.7 | 175 | 108 | 14.286 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.1 | 204 | 26 | 181 | 36 | 91 | 204 | 1.5 | 158 | 118 | 15.869 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 9.1 | 203 | 26 | 180 | 36 | 91 | 203 | 2.9 | 158 | 117 | 15.869 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.3 | 224 | 24 | 198 | 33 | 83 | 224 | 1.4 | 144 | 129 | 17.360 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 8.3 | 222 | 24 | 196 | 33 | 83 | 222 | 2.8 | 144 | 128 | 17.360 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.1 | 240 | 20 | 217 | 28 | 71 | 240 | 1.1 | 123 | 137 | 20.417 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 7.1 | 244 | 20 | 219 | 28 | 71 | 244 | 2.0 | 123 | 139 | 20.417 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.5 | 286 | 19 | 251 | 26 | 65 | 286 | 1.2 | 113 | 166 | 22.143 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.5 | 282 | 19 | 250 | 26 | 65 | 282 | 2.3 | 113 | 164 | 22.143 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 6.5 | 280 | 19 | 250 | 26 | 65 | 280 | 4.2 | 113 | 163 | 22.143 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.8 | 298 | 17 | 266 | 23 | 58 | 298 | 0.9 | 101 | 170 | 24.800 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.8 | 298 | 17 | 265 | 23 | 58 | 298 | 1.9 | 101 | 171 | 24.800 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.3 | 351 | 15 | 304 | 21 | 53 | 351 | 1.0 | 92 | 203 | 27.125 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 5.3 | 346 | 15 | 305 | 21 | 53 | 346 | 2.0 | 92 | 202 | 27.125 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 383 | 13 | 337 | 18 | 45 | 383 | 0.8 | 79 | 220 | 31.738 | GSS05 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.5 | 381 | 13 | 338 | 18 | 45 | 381 | 1.6 | 79 | 220 | 31.738 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.7 | 376 | 13 | 334 | 19 | 47 | 376 | 2.8 | 81 | 216 | 31.000 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.1 | 450 | 12 | 395 | 16 | 41 | 450 | 1.6 | 71 | 264 | 35.306 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 4.1 | 451 | 12 | 399 | 16 | 41 | 451 | 2.7 | 71 | 264 | 35.306 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.7 | 466 | 11 | 416 | 15 | 37 | 466 | 1.4 | 64 | 273 | 39.200 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.7 | 472 | 11 | 422 | 15 | 37 | 472 | 2.5 | 64 | 275 | 39.200 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.3 | 558 | 9.5 | 486 | 13 | 33 | 558 | 1.3 | 57 | 330 | 43.917 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 3.3 | 552 | 9.7 | 487 | 13 | 33 | 552 | 2.2 | 58 | 325 | 43.271 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.9 | 592 | 8.4 | 525 | 12 | 29 | 592 | 1.2 | 50 | 350 | 50.000 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.9 | 601 | 8.4 | 536 | 12 | 29 | 601 | 2.1 | 50 | 353 | 50.000 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.7 | 646 | 7.7 | 564 | 11 | 27 | 646 | 1.1 | 46 | 381 | 54.250 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.7 | 657 | 7.7 | 580 | 11 | 27 | 657 | 1.9 | 46 | 385 | 54.250 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.4 | 722 | 6.8 | 635 | 9.4 | 24 | 722 | 1.0 | 41 | 430 | 61.250 | GSS06 - 2E □□□ 100C12 | E82MV 222_4B |
| 2.4 | 736 | 6.8 | 653 | 9.4 | 24 | 736 | 1.7 | 41 | 435 | 61.250 | GSS07 - 2E □□□ 100C12 | E82MV 222_4B |

Thermal power limit not considered (see page 2-5)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | | | i | Helical- worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|--------|---|--------------|
| Motor cooling with integral fan ^{*)} | | | | | | | | | | | | |
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | |
| n ₂ | M ₂ | n ₂ | M ₂ | n ₂ | n ₂ | M ₂ | c | n ₂ | M ₂ | [rpm] | [Nm] | |
| [rpm] | [Nm] | [rpm] | [Nm] | 20 Hz | 50 Hz | [Nm] | 50 Hz | [rpm] | [Nm] | | | |
| P₁ = 3 kW | | | | | | | | | | | | |
| 2.0 | 1175 | 5.9 | 1031 | 8.1 | 20 | 1175 | 1.1 | 35 | 695 | 70.611 | GSS07 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.8 | 1315 | 5.2 | 1158 | 7.2 | 18 | 1315 | 1.0 | 31 | 785 | 79.722 | GSS07 - 2E □□□ 100C32 | E82MV 302_4B |
| 1.7 | 1432 | 4.8 | 1246 | 6.6 | 17 | 1432 | 0.9 | 29 | 854 | 86.542 | GSS07 - 2E □□□ 100C32 | E82MV 302_4B |
| P₁ = 4 kW | | | | | | | | | | | | |
| 25 | 139 | 72 | 120 | 99 | 249 | 139 | 2.5 | 433 | 79 | 5.833 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 18 | 191 | 53 | 164 | 73 | 181 | 191 | 2.5 | 315 | 109 | 8.000 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 16 | 212 | 47 | 182 | 64 | 160 | 212 | 2.0 | 279 | 120 | 9.042 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 16 | 212 | 46 | 183 | 64 | 160 | 212 | 2.9 | 278 | 121 | 9.086 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 14 | 246 | 41 | 210 | 57 | 142 | 246 | 2.1 | 246 | 141 | 10.238 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 269 | 38 | 230 | 52 | 130 | 269 | 1.9 | 225 | 154 | 11.200 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 13 | 268 | 38 | 230 | 52 | 130 | 268 | 3.2 | 225 | 154 | 11.200 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 12 | 290 | 34 | 249 | 47 | 117 | 290 | 1.8 | 203 | 166 | 12.400 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 12 | 294 | 33 | 254 | 46 | 115 | 294 | 2.7 | 200 | 169 | 12.594 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 10 | 345 | 29 | 293 | 41 | 102 | 345 | 1.5 | 177 | 198 | 14.286 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 10 | 344 | 29 | 294 | 41 | 102 | 344 | 2.6 | 177 | 197 | 14.286 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.1 | 371 | 26 | 318 | 37 | 91 | 371 | 1.6 | 159 | 213 | 15.869 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 9.4 | 362 | 27 | 312 | 37 | 94 | 362 | 2.5 | 163 | 209 | 15.500 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.4 | 406 | 24 | 348 | 33 | 84 | 406 | 1.5 | 145 | 234 | 17.360 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 8.4 | 406 | 24 | 350 | 33 | 84 | 406 | 2.5 | 145 | 234 | 17.360 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 446 | 21 | 386 | 28 | 71 | 446 | 1.1 | 124 | 254 | 20.417 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 7.1 | 453 | 20 | 394 | 28 | 71 | 453 | 1.7 | 123 | 259 | 20.517 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.6 | 516 | 19 | 442 | 26 | 66 | 516 | 1.3 | 114 | 300 | 22.143 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 6.6 | 516 | 19 | 445 | 26 | 66 | 516 | 2.3 | 114 | 300 | 22.143 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.9 | 544 | 17 | 467 | 23 | 59 | 544 | 1.0 | 102 | 311 | 24.800 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.8 | 560 | 17 | 483 | 23 | 58 | 560 | 1.6 | 100 | 320 | 25.188 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.4 | 631 | 16 | 538 | 21 | 54 | 631 | 1.1 | 93 | 368 | 27.125 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 5.4 | 633 | 16 | 544 | 21 | 54 | 633 | 2.0 | 93 | 369 | 27.125 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.6 | 693 | 13 | 594 | 18 | 46 | 693 | 0.9 | 79 | 401 | 31.738 | GSS06 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.7 | 689 | 14 | 592 | 19 | 47 | 689 | 1.5 | 81 | 396 | 31.000 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 4.1 | 825 | 12 | 706 | 16 | 41 | 825 | 1.5 | 71 | 483 | 35.306 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.7 | 863 | 11 | 746 | 15 | 37 | 863 | 1.4 | 64 | 503 | 39.200 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 3.4 | 1009 | 9.7 | 860 | 13 | 34 | 1009 | 1.2 | 58 | 594 | 43.271 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.9 | 1098 | 8.4 | 946 | 12 | 29 | 1098 | 1.1 | 50 | 645 | 50.000 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.7 | 1198 | 7.8 | 1022 | 11 | 27 | 1198 | 1.0 | 47 | 701 | 54.250 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.4 | 1341 | 6.9 | 1149 | 9.5 | 24 | 1341 | 0.9 | 41 | 793 | 61.250 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| 2.1 | 1549 | 6 | 1316 | 8.2 | 21 | 1549 | 0.8 | 36 | 916 | 70.611 | GSS07 - 2E □□□ 112C22 | E82MV 402_4B |
| P₁ = 5.5 kW | | | | | | | | | | | | |
| 25 | 193 | 72 | 167 | 99 | 248 | 193 | 1.8 | 431 | 110 | 5.833 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 25 | 194 | 71 | 167 | 99 | 247 | 194 | 2.7 | 429 | 111 | 5.862 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 18 | 265 | 52 | 228 | 72 | 181 | 265 | 1.8 | 314 | 151 | 8.000 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 18 | 270 | 52 | 232 | 71 | 178 | 270 | 2.5 | 309 | 154 | 8.125 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 16 | 294 | 46 | 252 | 64 | 160 | 294 | 1.4 | 278 | 167 | 9.042 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 16 | 295 | 46 | 255 | 64 | 159 | 295 | 2.1 | 277 | 169 | 9.086 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |

Thermal power limit not considered (see page 2-5)

^{*)} Observe current derating (see page 2-2)

Selection tables - Helical-worm gearboxes

Geared motors with 8200 motec

| Motor cooling with separate fan | | | | | | | | Motor cooling with integral fan ^{*)} | | | i | Helical-worm geared motor Dimensions see page 7-24 onwards | 8200 motec |
|---------------------------------|------------------------|-------------------------|------------------------|----------------------------------|----------------------------------|------------------------|------------|---|------------------------|--|---|---|------------|
| 5 Hz | | 14.5 Hz | | 20 - 50 Hz | | | | 87 Hz | | | | | |
| n ₂ [rpm] | M ₂ [Nm] | n ₂ [rpm] | M ₂ [Nm] | n ₂ 20 Hz [rpm] | n ₂ 50 Hz [rpm] | M ₂ [Nm] | c 50 Hz | n ₂ [rpm] | M ₂ [Nm] | | | | |

P₁ = 5.5 kW

| | | | | | | | | | | | | |
|-----|------|-----|------|----|-----|------|-----|-----|-----|--------|-----------------------|--------------|
| 14 | 341 | 41 | 292 | 56 | 141 | 341 | 1.5 | 246 | 195 | 10.238 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 14 | 333 | 42 | 286 | 58 | 145 | 333 | 2.4 | 251 | 191 | 10.000 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 374 | 37 | 319 | 52 | 129 | 374 | 1.4 | 224 | 214 | 11.200 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 13 | 373 | 37 | 320 | 52 | 129 | 373 | 2.3 | 224 | 214 | 11.200 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 12 | 402 | 34 | 346 | 47 | 117 | 402 | 1.3 | 203 | 230 | 12.400 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 11 | 409 | 33 | 353 | 46 | 115 | 409 | 1.9 | 200 | 235 | 12.594 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 10 | 479 | 29 | 407 | 40 | 101 | 479 | 1.1 | 176 | 274 | 14.286 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 10 | 478 | 29 | 409 | 40 | 101 | 478 | 1.9 | 176 | 275 | 14.286 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.1 | 514 | 26 | 441 | 36 | 91 | 514 | 1.2 | 158 | 296 | 15.869 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 9.3 | 504 | 27 | 434 | 37 | 93 | 504 | 1.8 | 162 | 290 | 15.500 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.3 | 563 | 24 | 482 | 33 | 83 | 563 | 1.1 | 145 | 324 | 17.360 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 8.3 | 564 | 24 | 486 | 33 | 83 | 564 | 1.8 | 145 | 326 | 17.360 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 7.0 | 629 | 20 | 546 | 28 | 70 | 629 | 1.2 | 123 | 359 | 20.517 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.5 | 715 | 19 | 612 | 26 | 65 | 715 | 0.9 | 114 | 415 | 22.143 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 6.5 | 717 | 19 | 618 | 26 | 65 | 717 | 1.7 | 114 | 417 | 22.143 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.7 | 777 | 17 | 669 | 23 | 57 | 777 | 1.2 | 100 | 444 | 25.188 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.3 | 874 | 15 | 745 | 21 | 53 | 874 | 0.8 | 93 | 510 | 27.125 | GSS06 - 2E □□□ 112C32 | E82MV 552_4B |
| 5.3 | 879 | 15 | 755 | 21 | 53 | 879 | 1.4 | 93 | 512 | 27.125 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.7 | 955 | 14 | 821 | 19 | 47 | 955 | 1.1 | 81 | 549 | 31.000 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 4.1 | 1143 | 12 | 979 | 16 | 41 | 1143 | 1.1 | 71 | 670 | 35.306 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.7 | 1195 | 11 | 1034 | 15 | 37 | 1195 | 1.0 | 64 | 697 | 39.200 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 3.3 | 1397 | 9.7 | 1191 | 13 | 33 | 1397 | 0.9 | 58 | 823 | 43.271 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |
| 2.9 | 1520 | 8.4 | 1310 | 12 | 29 | 1520 | 0.8 | 50 | 893 | 50.000 | GSS07 - 2E □□□ 112C32 | E82MV 552_4B |

P₁ = 7.5 kW

| | | | | | | | | | | | | |
|-----|------|----|------|----|-----|------|-----|-----|-----|--------|-----------------------|--------------|
| 25 | 264 | 72 | 228 | 99 | 248 | 264 | 2.0 | 432 | 151 | 5.862 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 18 | 368 | 52 | 317 | 72 | 179 | 368 | 1.8 | 312 | 210 | 8.125 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 16 | 402 | 46 | 347 | 64 | 160 | 402 | 1.6 | 279 | 230 | 9.086 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 15 | 454 | 42 | 389 | 58 | 146 | 454 | 1.7 | 253 | 260 | 10.000 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 13 | 508 | 38 | 436 | 52 | 130 | 508 | 1.7 | 226 | 292 | 11.200 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 12 | 557 | 34 | 481 | 46 | 116 | 557 | 1.4 | 201 | 320 | 12.594 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 10 | 650 | 30 | 555 | 41 | 102 | 650 | 1.6 | 177 | 373 | 14.286 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 9.4 | 686 | 27 | 591 | 38 | 94 | 686 | 1.4 | 163 | 395 | 15.500 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 8.4 | 768 | 24 | 662 | 34 | 84 | 768 | 1.3 | 146 | 443 | 17.360 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 7.1 | 854 | 21 | 742 | 28 | 71 | 854 | 0.9 | 123 | 488 | 20.517 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 6.6 | 976 | 19 | 841 | 26 | 66 | 976 | 1.2 | 114 | 567 | 22.143 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.8 | 1056 | 17 | 910 | 23 | 58 | 1056 | 0.9 | 101 | 604 | 25.188 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 5.4 | 1195 | 16 | 1027 | 21 | 54 | 1195 | 1.0 | 93 | 697 | 27.125 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |
| 4.7 | 1298 | 14 | 1115 | 19 | 47 | 1298 | 0.8 | 82 | 746 | 31.000 | GSS07 - 2E □□□ 132C22 | E82MV 752_4B |

Thermal power limit not considered (see page 2-5)

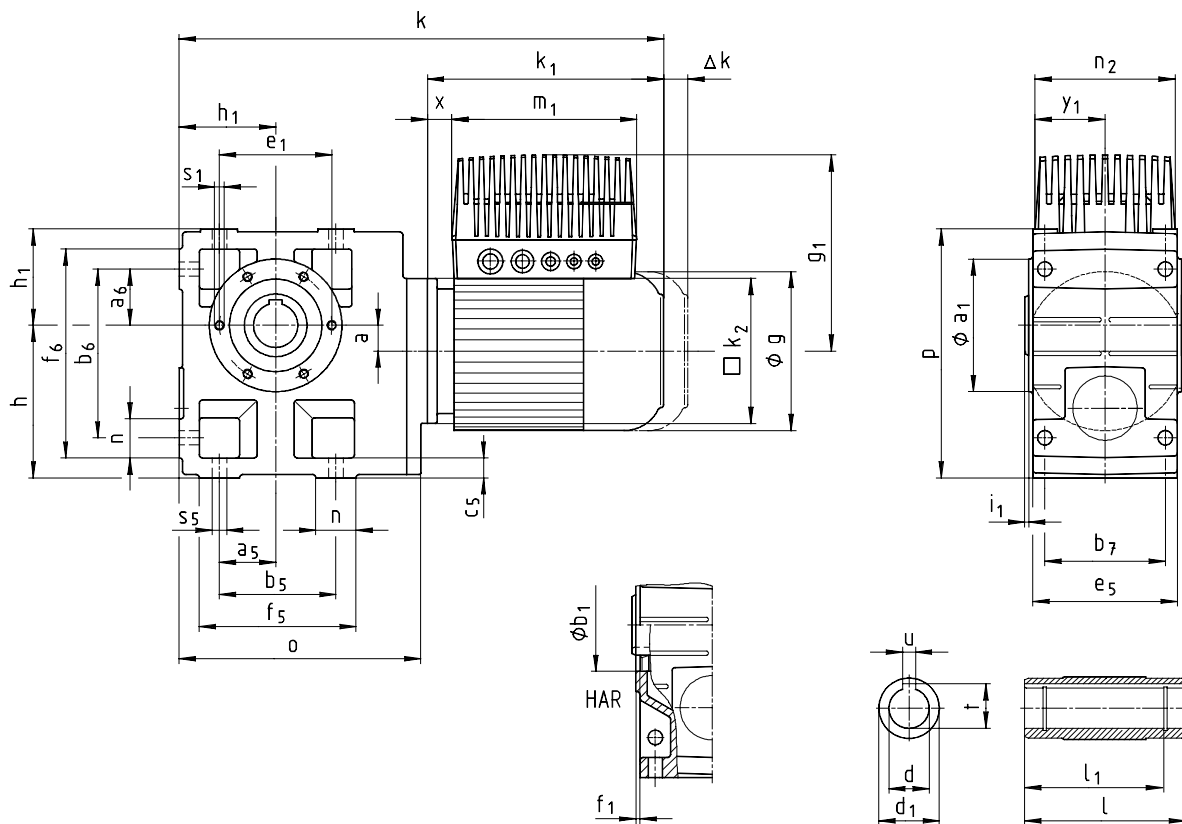
^{*)} Observe current derating (see page 2-2)



Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec

GSS□□ - 2E H□R



Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec

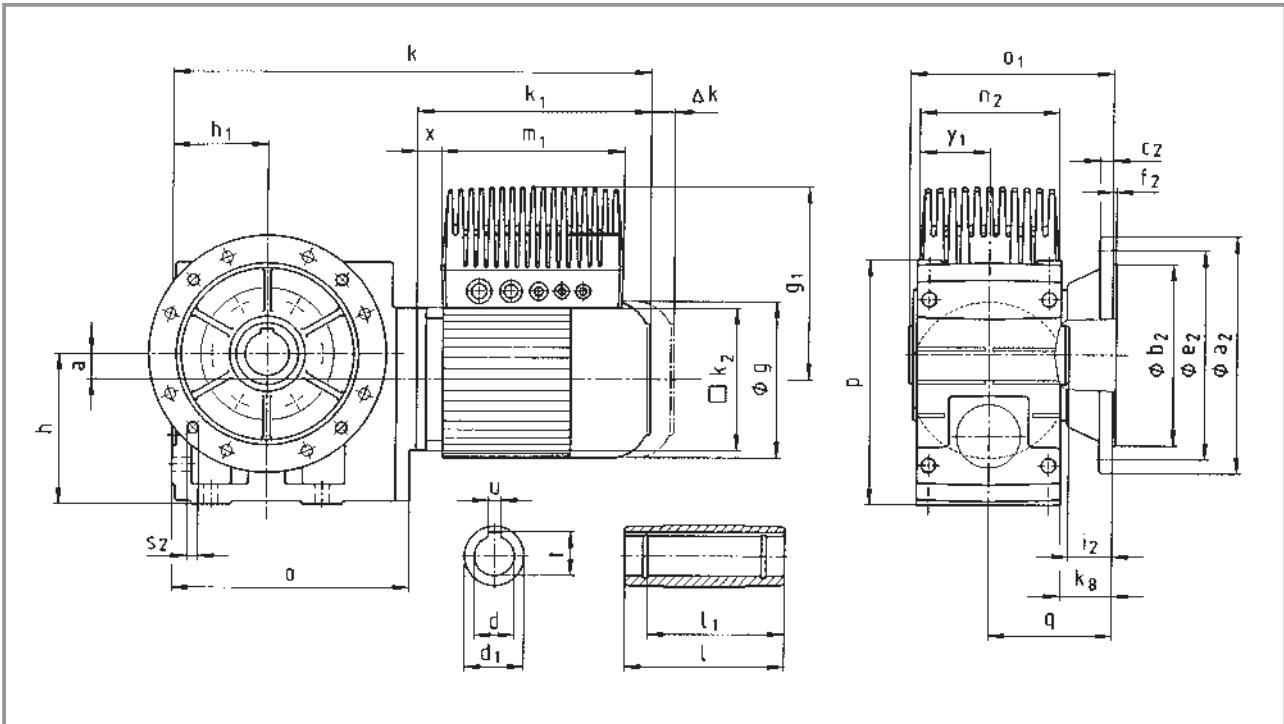
| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | | | |
|-----------------------|-----------------------------------|----------------------|-----------|-----------|----------------------|----------|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|
| GSS□□ - 2E H□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | | | |
| Motor | g | | 123 | | 138 | | 156 | | 176 | | 196 | | 220 | | 261 | | | |
| | k₁ | | 188 | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | 404 | | | |
| | k₂ | | 120 | | 120 | | 145 | | 180 | | 180 | | 222 | | 265 | | | |
| | Δk** | Brake | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | | 109 | | | |
| | | Separate fan | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | | 115 | | | |
| | | Brake + separate fan | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | | 201 | | | |
| 8200 motec | g₁ | | 171 | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | 278 | | 297 | | | | |
| | g₁¹⁾ | | 207 | | 216 | | | | | | | | | | | | | |
| | m₁ | | 190 | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | 327 | | 327 | | | | |
| | n₂ | | 138 | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | 213 | | 213 | | | | |
| | x | | 20 | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | 2 | | 11 | | | | |
| | y₁ | | 69 | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | 107 | | 107 | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | | | |
| | o | l* | p* | h* | h₁ | a | k | | | | | | | | | | | |
| 04 | 181 | 115 | 171 | 100 | 71 | 20 | 378 | | 397 | | 420 | | 481 | | | | | |
| 05 | 212 | 140 | 205 | 125 | 80 | 23 | 399 | | 419 | | 441 | | 502 | | 536 | | | |
| 06 | 255 | 160 | 250 | 150 | 100 | 26 | 439 | | 459 | | 481 | | 542 | | 576 | 592 | 636 | |
| 07 | 305 | 200 | 310 | 190 | 120 | 33 | | | | | 524 | | 585 | | 619 | 635 | 679 | 727 |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d H7 | l | d ₁ | l ₁ | u J59 | t +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 105 | 75 | 90 | 3 | 2.5 | M6x12 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 22 | 9 |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 29 | 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 36 | 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 45 | 18 |

Dimensions in [mm] * Please note dimension k_2 . On gearbox size 04 with motor frame size 090, dimension $k_2 / 2 > h-a$
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 |
|-----------------------|------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|--------|----------------|--------|--------|--------|--------|--------|
| GSS□□ - 2E HAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 |
| | Δk** | Brake | | 40 | | 52 | | 73 | | 70 | | 79 | | 90 | 109 |
| | | Separate fan | | 130 | | 128 | | 128 | | 127 | | 109 | | 102 | 115 |
| | | Brake + separate fan | | 170 | | 165 | | 184 | | 180 | | 170 | | 183 | 201 |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 |
| Gearbox size | Gearbox | | | | | | | | | Total length k | | | | | |
| | o | o ₁ * | p* | h* | h ₁ | a | k ₈ | q | | | | | | | |
| 04 | 181 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | | 378 | | | | | |
| 05 | 212 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | | 399 | | | 536 | | |
| 06 | 255 | 201 | 250 | 150 | 100 | 26 | 49 | 121 | | 439 | | | 576 | 592 | 636 |
| 07 | 305 | 255 | 310 | 190 | 120 | 33 | 65 | 155 | | | | | 619 | 635 | 679 |
| | | | | | | | | | | | | | | | 727 |

| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|------------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ |
| 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 200 250 | 130 180 | 12 14.5 | 165 215 | 3.5 4 | 42 41 | 4 x 11 4 x 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 55 | 4 x 14 |

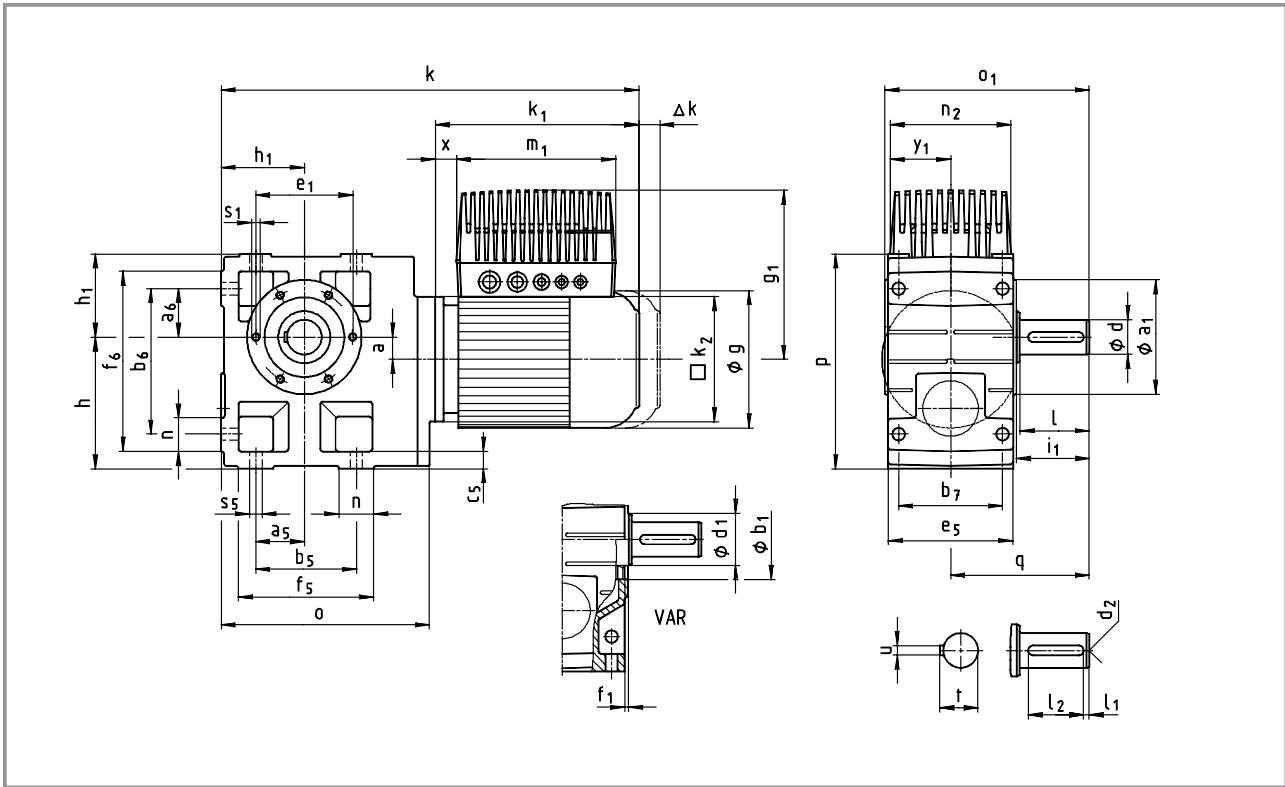
Dimensions in [mm] * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a

** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|------------------------------|---------------------|--------|--------|----------------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--|
| GSS□□ - 2E V□R | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | 319 | 363 | |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 | | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 | |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 | |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 | |
| Gearbox size | Gearbox | | | | | | | Total length k | | | | | | | | |
| | o | o ₁ * | p* | h* | h ₁ | a | q | | | | | | | | | |
| 04 | 181 | 163 | 171 | 100 | 71 | 20 | 107.5 | 378 | | | | | | | | |
| 05 | 212 | 197 | 205 | 125 | 80 | 23 | 130 | 399 | | | 536 | | | | | |
| 06 | 255 | 236 | 250 | 150 | 100 | 26 | 160 | 439 | | | 576 | | 592 | 636 | | |
| 07 | 305 | 296 | 310 | 190 | 120 | 33 | 200 | | | | 619 | | 635 | 679 | 727 | |

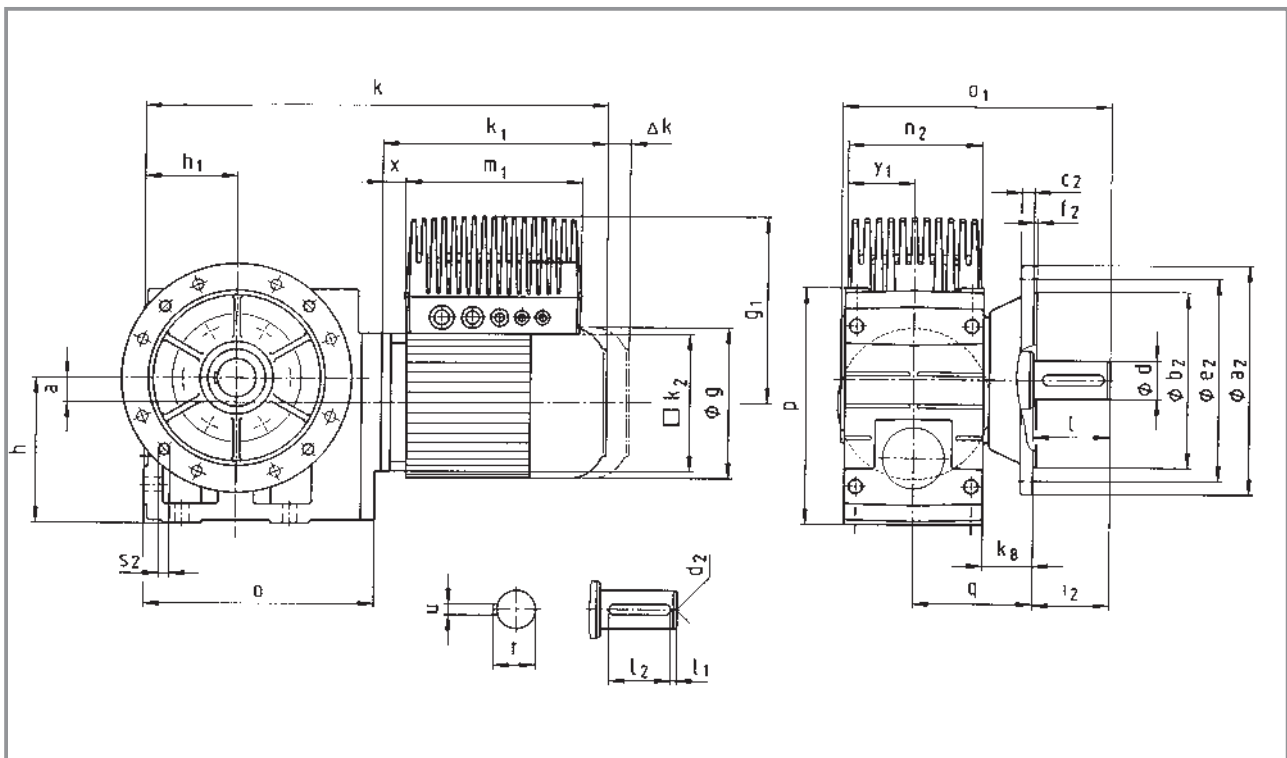
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|-------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ |
| 04 | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 | 45 | 45 | 90 | 119 | 85 | 14 | 100 | 112 | 141 | 22 | 9 |
| 05 | 30 | 60 | 50 | 6 | 45 | M10 | 8 | 33 | 118 | 80 | 100 | 4 | 64 | M8x15 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 29 | 11 |
| 06 | 40 | 80 | 65 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 4 | 85 | M10x16 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 36 | 14 |
| 07 | 50 | 100 | 75 | 8 | 80 | M16 | 14 | 53.5 | 165 | 115 | 140 | 5 | 105 | M12x18 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 45 | 18 |

Dimensions in [mm] d ≤ 50 mm: k6 * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a
d > 50 mm: m6 ** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec



| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | 112C22 | 112C32 | 132C22 | |
|-----------------------|------------------------------|-----------------------------|----------------|----------------|----------------|--------|----------------|--------|----------------|--------|--------|--------|--------|--------|--------|--|
| GSS□□ - 2E VAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | 402 | 552 | 752 | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | 220 | 261 | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | 319 | 363 | 404 | |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | 222 | 265 | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | 90 | 109 | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | 102 | 115 | |
| | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | 183 | 201 | | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | 278 | 297 | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | 327 | 327 | |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | 213 | 213 | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | 2 | 11 | |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | 107 | 107 | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | | | |
| | o | o ₁ [*] | p [*] | h [*] | h ₁ | a | k ₈ | q | | | | | | | | |
| 04 | 181 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 378 | | | | | | | |
| 05 | 212 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | 399 | | | 536 | | | | |
| 06 | 255 | 277 | 250 | 150 | 100 | 26 | 49 | 121 | 439 | | | 576 | 592 | 636 | | |
| 07 | 305 | 351 | 310 | 190 | 120 | 33 | 65 | 155 | | | | 619 | 635 | 679 | 727 | |

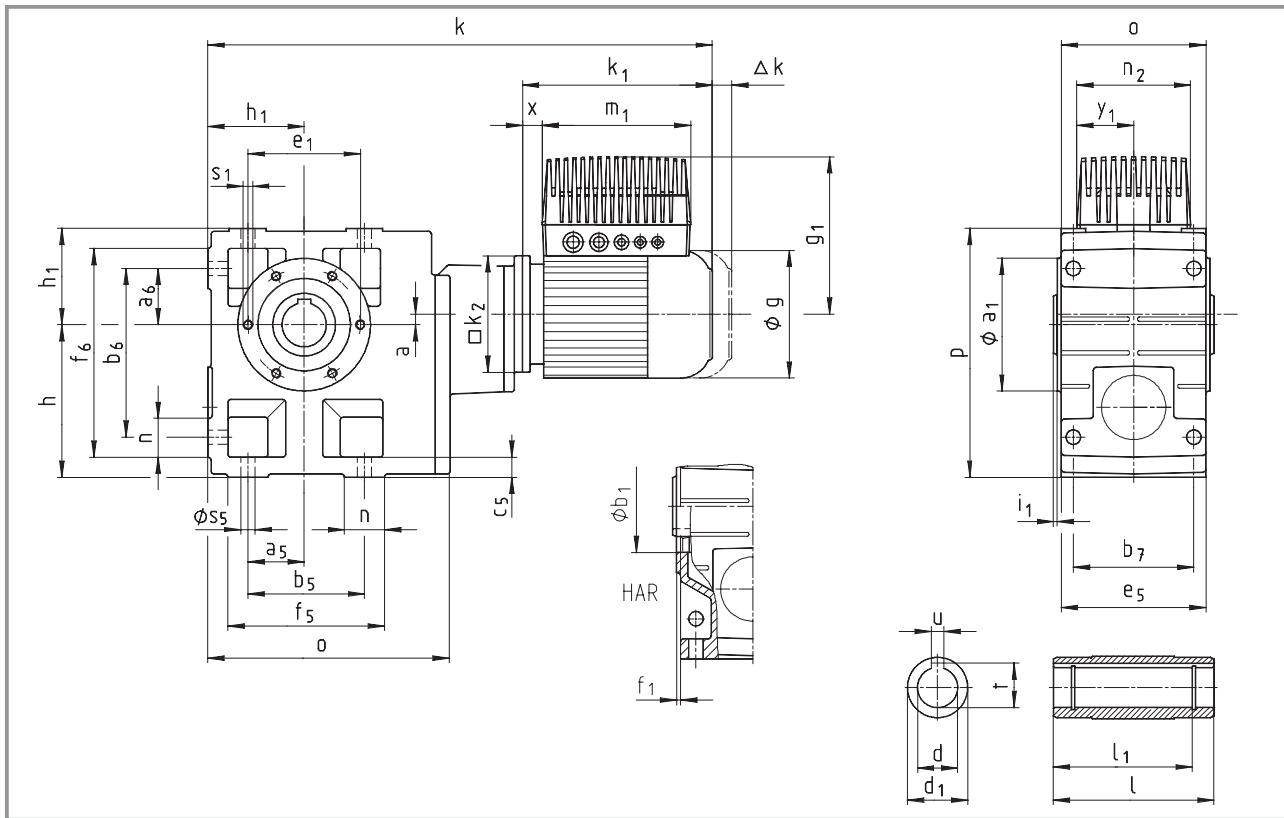
| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |

Dimensions in [mm] d ≤ 50 mm: k6 d > 50 mm: m6 * Please note dimension k₂. On gearbox size 04 with motor frame size 090, dimension k₂ / 2 > h-a ** See chapter 8 for more built-on accessories

1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec



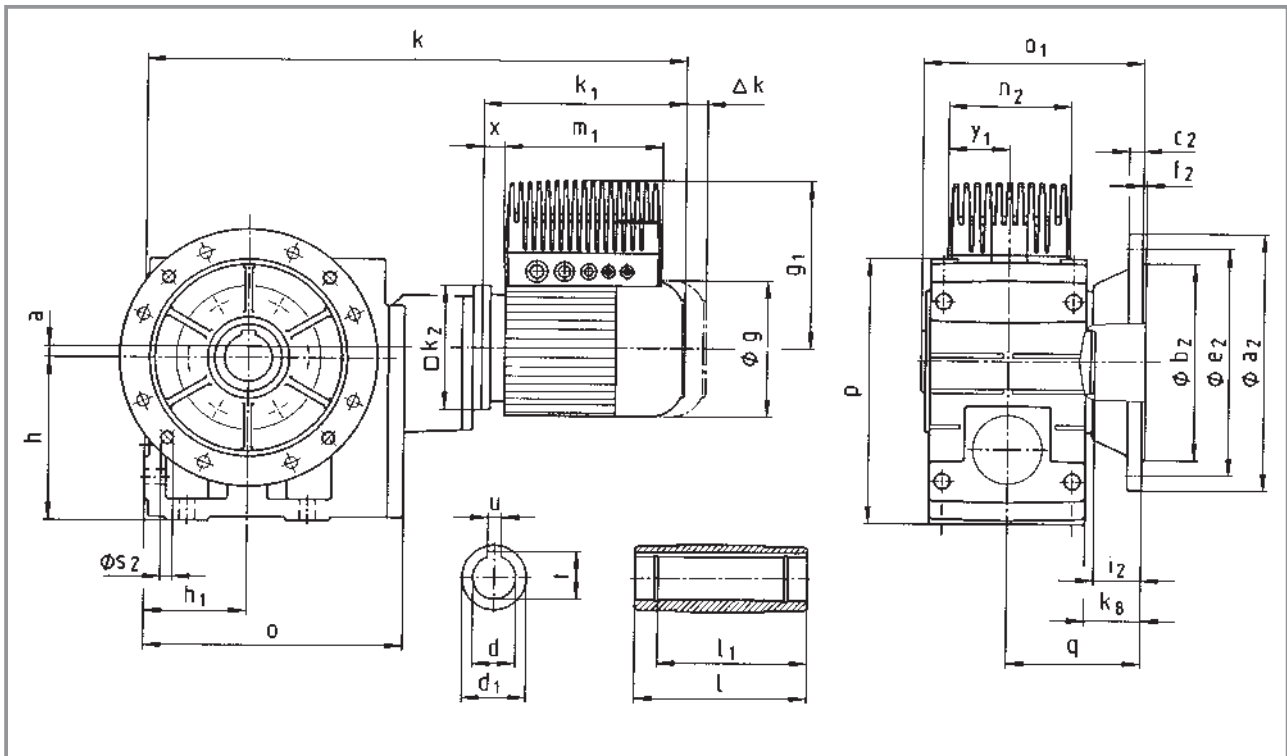
| Geared motor | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | | | |
|-----------------------|------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|--------|--------|--------|-----|-----|-----|
| GSS□□ - 3E H□R | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | | | |
| Motor | g | 123 | | | 138 | | 156 | | 176 | | 196 | | | |
| | k ₁ | 188 | | | 207 | | 225 | | 276 | | 309 | | | |
| | k ₂ | 120 | | | 120 | | 145 | | 180 | | 180 | | | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | |
| 8200 motec | g ₁ | 171 | | | 180 | | 225 | | 221 | | 237 | 242 | 253 | 268 |
| | g ₁ ¹⁾ | 207 | | | 216 | | | | | | | | | |
| | m ₁ | 190 | | | 190 | | 202 | | 202 | | 230 | 230 | 230 | 327 |
| | n ₂ | 138 | | | 138 | | 156 | | 156 | | 176 | 176 | 176 | 213 |
| | x | 20 | | | 23 | | 10 | | 3 | | 3 | 8 | 9 | 0 |
| | y ₁ | 69 | | | 69 | | 78 | | 78 | | 88 | 88 | 88 | 107 |
| Gearbox size | Gearbox | | | | | | Total length k | | | | | | | |
| | o | l* | p* | h | h ₁ | a | | | | | | | | |
| 05 | 209 | 140 | 205 | 125 | 80 | 13 | 476 | | 495 | | 518 | | | |
| 06 | 252 | 160 | 250 | 150 | 100 | 10 | 533 | | 552 | | 575 | | 636 | |
| 07 | 299 | 200 | 310 | 190 | 120 | 12 | 587 | | 606 | | 629 | | 690 | 723 |

| Gearbox size | Hollow shaft | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|------------|----------------|-------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----------------|----|
| | d H7 | l | d ₁ | l ₁ | u JS9 +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ 6x60° | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | s ₅ | |
| 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 118 | 80 | 100 | 4 | 4 | M8x15 | 47.5 | 47.5 | 95 | 140 | 105 | 17 | 127 | 124 | 169 | 29 | 11 |
| 06 | 40 45 | 160 | 65 | 140 | 12 14 | 43.3 48.8 | 140 | 100 | 120 | 4 | 5 | M10x16 | 60 | 60 | 120 | 170 | 120 | 20 | 145 | 156 | 206 | 36 | 14 |
| 07 | 50 55 | 200 | 75 | 175 | 14 16 | 53.8 59.3 | 165 | 115 | 140 | 5 | 5 | M12x18 | 70 | 70 | 140 | 210 | 150 | 25 | 180 | 185 | 255 | 45 | 18 |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec



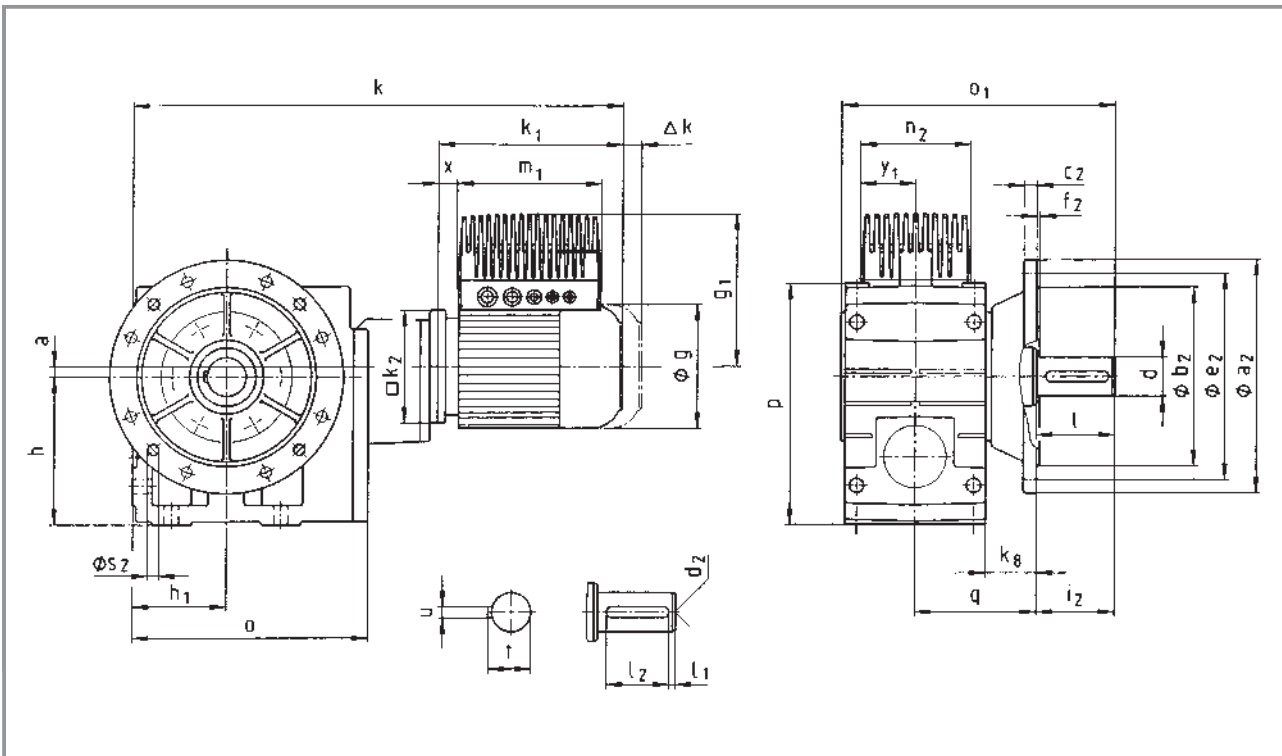
| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | | |
|-----------------------|------------------------------|----------------------|--------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|-----|-----|
| GSS□□ - 3E HAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | | | | | | |
| 05 | 209 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 476 | | 495 | 518 | | |
| 06 | 252 | 201 | 250 | 150 | 100 | 10 | 49 | 121 | 533 | | 552 | 575 | 636 | |
| 07 | 299 | 255 | 310 | 190 | 120 | 12 | 65 | 155 | 587 | | 606 | 629 | 690 | 723 |

| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | |
|--------------|--------------|-----|----------------|----------------|-------|--------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| | d H7 | l | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ |
| 05 | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| | 35 | | | | 10 | 38.3 | | | | | | | |
| 06 | 40 | 160 | 65 | 140 | 12 | 43.3 | 200 | 130 | 12 | 165 | 3.5 | 42 | 4 x 11 |
| | 45 | | | | 14 | 48.8 | | | | | | | |
| 07 | 50 | 200 | 75 | 175 | 14 | 53.8 | 250 | 180 | 14.5 | 215 | 4 | 55 | 4 x 14 |
| | 55 | | | | 16 | 59.3 | | | | | | | |

Dimensions in [mm] * Please note dimension k₂
 ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Dimensions - Helical-worm gearboxes

Geared motors with 8200 motec

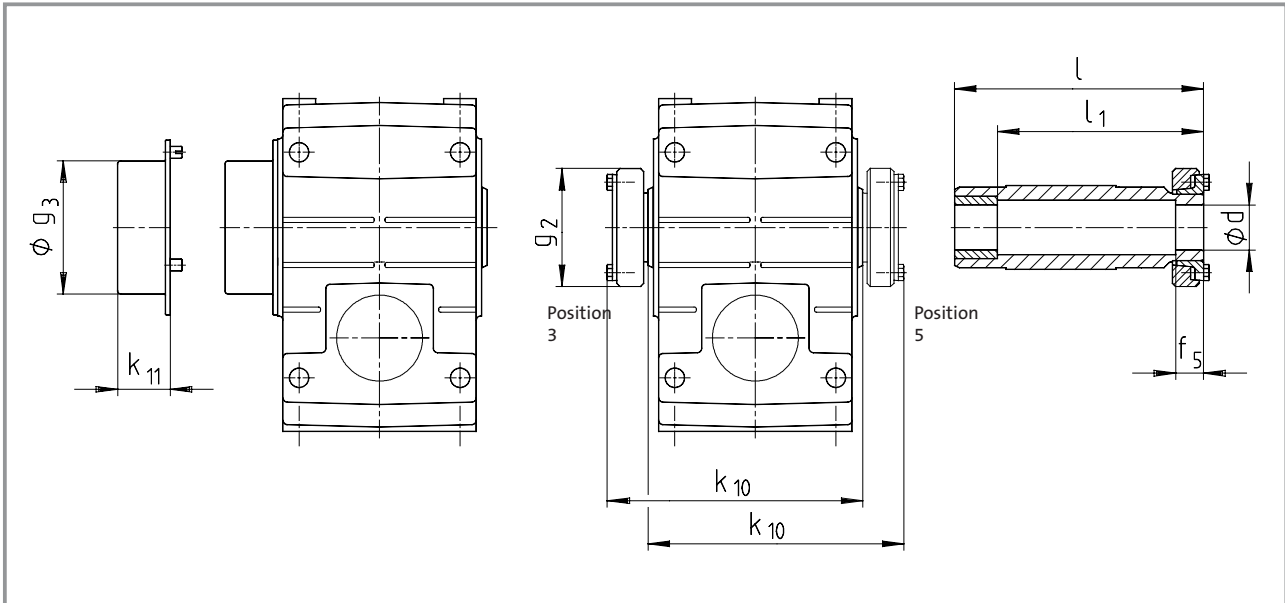


| Geared motor | | Motor frame size | 063C12 | 063C32 | 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 | 100C32 | | |
|-----------------------|------------------------------|-----------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|--------|--------|-----|--|
| GSS□□ - 3E VAK | | 8200 motec E82MV□□□ | 251 | 251 | 251 | 371 | 551 | 751 | 152 | 152 | 222 | 302 | | |
| Motor | g | | 123 | | | 138 | | 156 | | 176 | | 196 | | |
| | k ₁ | | 188 | | | 207 | | 225 | | 276 | | 309 | | |
| | k ₂ | | 120 | | | 120 | | 145 | | 180 | | 180 | | |
| | Δk** | Brake | 40 | | | 52 | | 73 | | 70 | | 79 | | |
| | | Separate fan | 130 | | | 128 | | 128 | | 127 | | 109 | | |
| | | Brake + separate fan | 170 | | | 165 | | 184 | | 180 | | 170 | | |
| 8200 motec | g ₁ | | 171 | | | 180 | 225 | 221 | 237 | 242 | 253 | 268 | | |
| | g ₁ ¹⁾ | | 207 | | | 216 | | | | | | | | |
| | m ₁ | | 190 | | | 190 | 202 | 202 | 230 | 230 | 230 | 327 | | |
| | n ₂ | | 138 | | | 138 | 156 | 156 | 176 | 176 | 176 | 213 | | |
| | x | | 20 | | | 23 | 10 | 3 | 3 | 8 | 9 | 0 | | |
| | y ₁ | | 69 | | | 69 | 78 | 78 | 88 | 88 | 88 | 107 | | |
| Gearbox size | Gearbox | | | | | | | | Total length k | | | | | |
| | o | o ₁ [*] | p [*] | h | h ₁ | a | k ₈ | q | | | | | | |
| 05 | 209 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 476 | | | | 495 | |
| 06 | 252 | 277 | 250 | 150 | 100 | 10 | 49 | 121 | 533 | | | | 552 | |
| 07 | 299 | 351 | 310 | 190 | 120 | 12 | 65 | 155 | 587 | | | | 606 | |
| | | | | | | | | | 629 | | | | 636 | |
| | | | | | | | | | 690 | | | | 723 | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|--|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |

Dimensions in [mm] d ≤ 50 mm: k₆ * Please note dimension k₂.
 d > 50 mm: m₆ ** See chapter 8 for more built-on accessories
 1) 8200 motec only, option: bus I/O, system terminal or brake rectifier

Hollow shaft with shrink disc



| Gearbox size | Machine shaft* | | Hollow shaft | | | Gearbox | | Protection cover | |
|--------------|----------------|-----|--------------|----------------|----------------|----------------|-----------------|------------------|-----------------|
| | d | Fit | l | l ₁ | f ₅ | g ₂ | k ₁₀ | g ₃ | k ₁₁ |
| 04 | 25 30 | h6 | 142 | 122 | 26 | 72 | 146 | 79 | 41 |
| 05 | 35 | h6 | 168 | 148 | 28 | 80 | 171 | 90 | 43 |
| 06 | 40 | h6 | 194 | 164 | 30 | 90 | 197 | 100 | 49 |
| 07 | 50 | h6 | 232 | 192 | 26 | 110 | 234 | 124 | 49 |

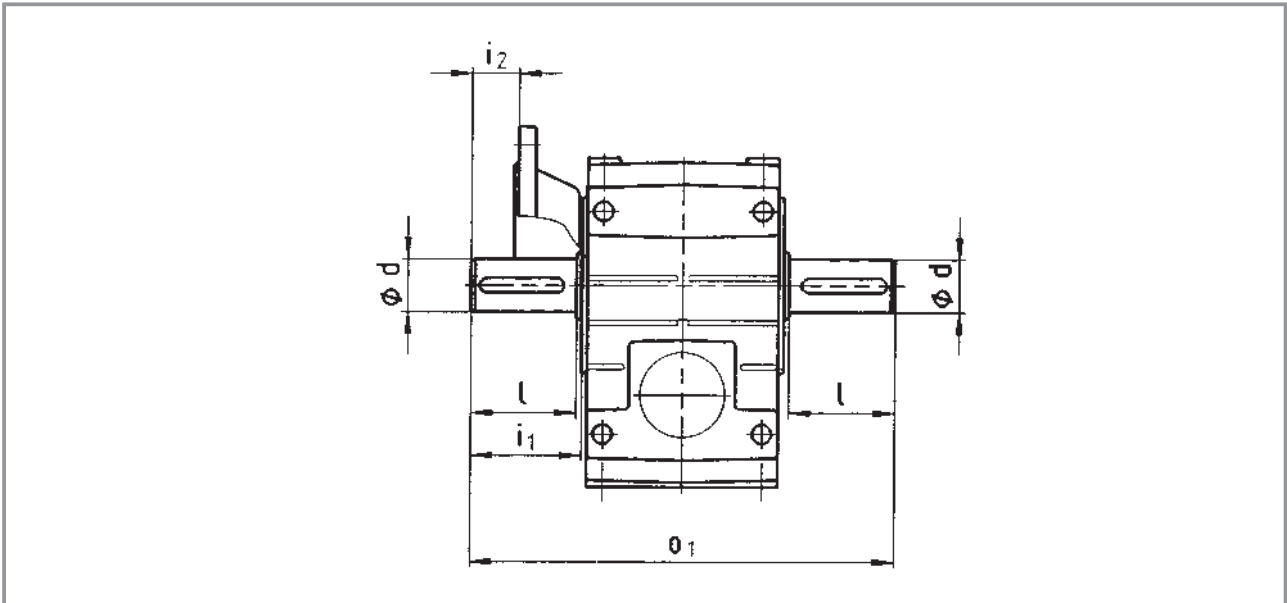
Dimensions in [mm]

* Ensure sufficient shaft material strength when using shrink disc models. If common steel is used (e.g. C45, 42CrMo4), the torque values given in the selection tables can be transmitted without restriction. If less rigid materials are being used, please contact us. The average surface roughness Rz should not exceed 15 µm (turning is sufficient).

Dimensions - Helical-worm gearboxes

Further dimensions GSS□□

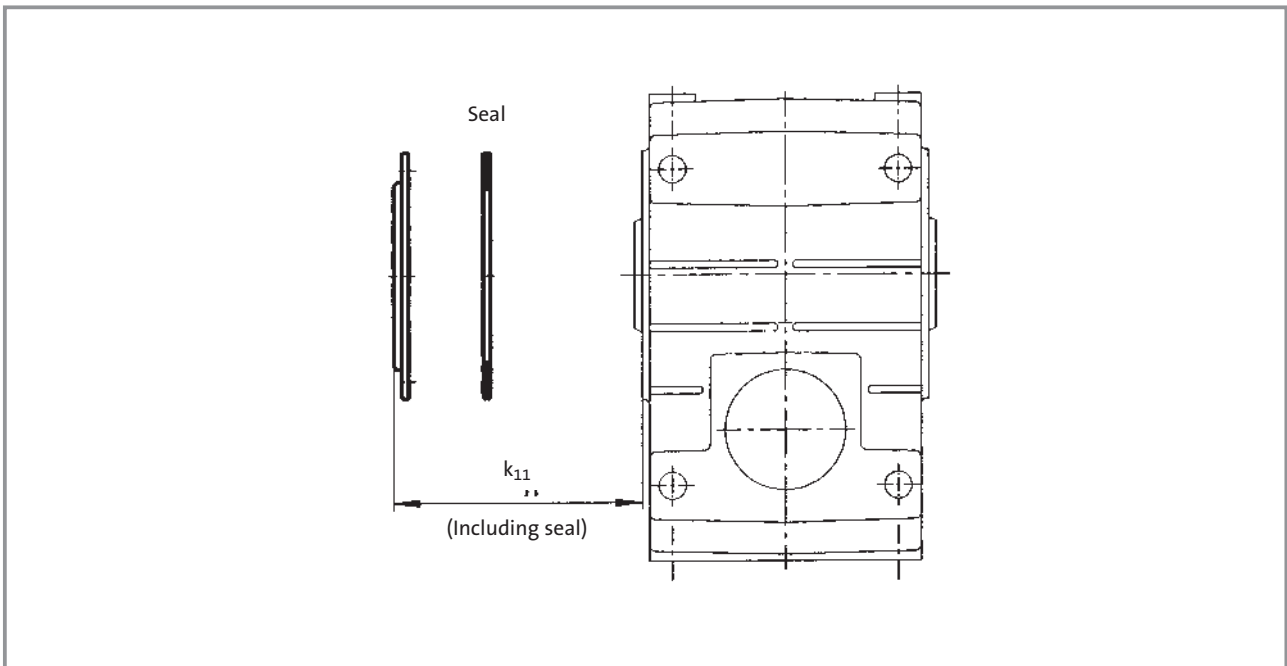
Gearbox with 2nd output shaft end



| Gearbox size | d | l | i ₁ | i ₂ | o ₁ |
|--------------|----|-----|----------------|----------------|----------------|
| 04 | 25 | 50 | 52.5 | 17 | 215 |
| 05 | 30 | 60 | 64 | 27 | 260 |
| 06 | 40 | 80 | 85 | 39 | 320 |
| 07 | 50 | 100 | 105 | 45 | 400 |

Dimensions in [mm]

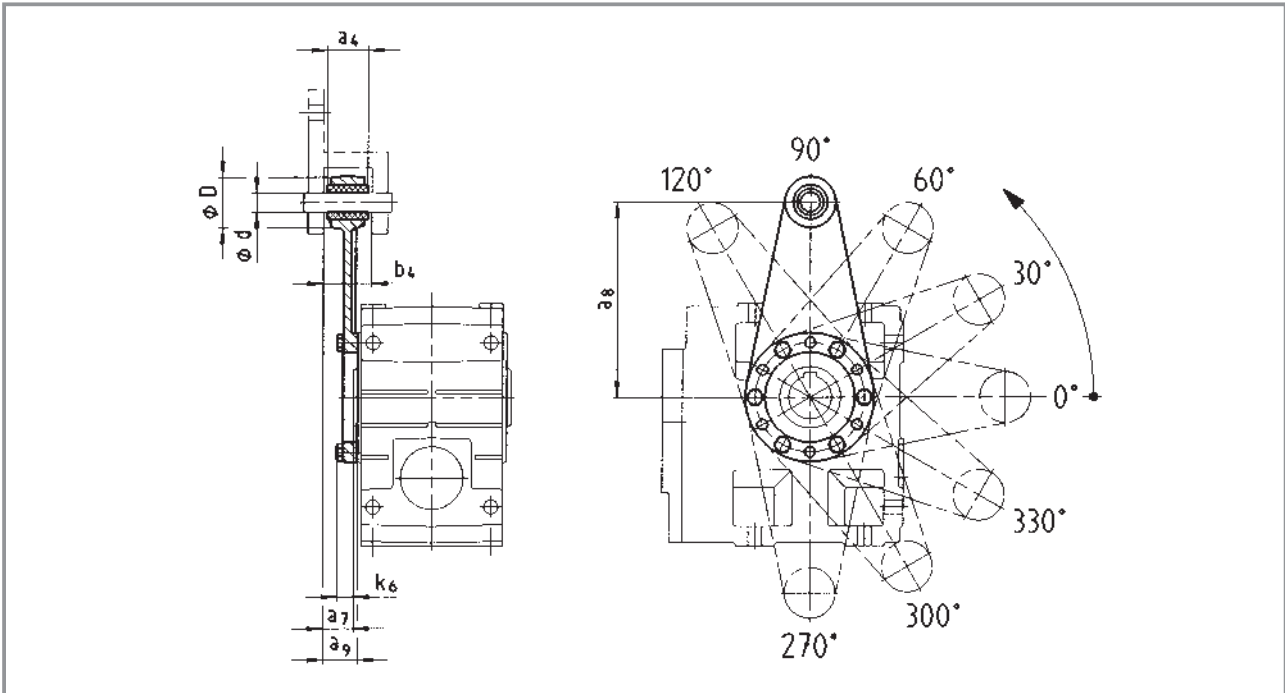
Hoseproof hollow shaft cover



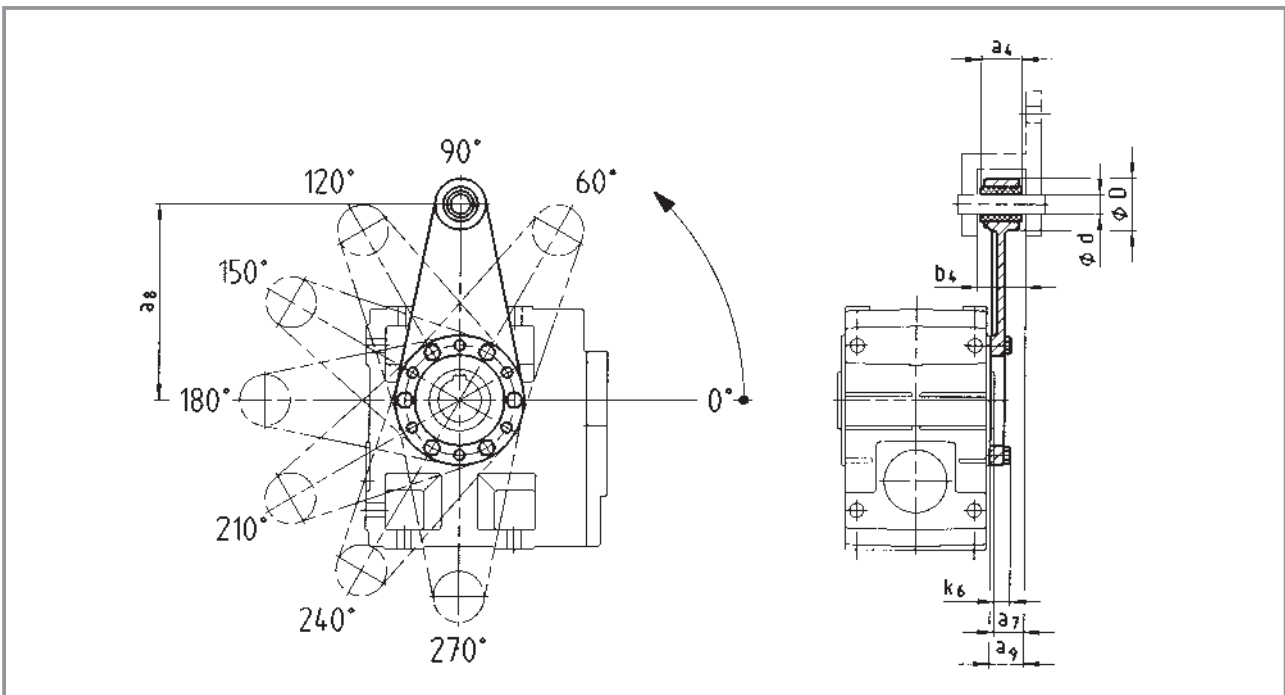
| Gearbox size | Protection cover k_{11} |
|--------------|------------------------------|
| 04 | 9 |
| 05 | 10 |
| 06 | 11 |
| 07 | 11 |

Dimensions in [mm]

Torque plate at pitch circle, position 3



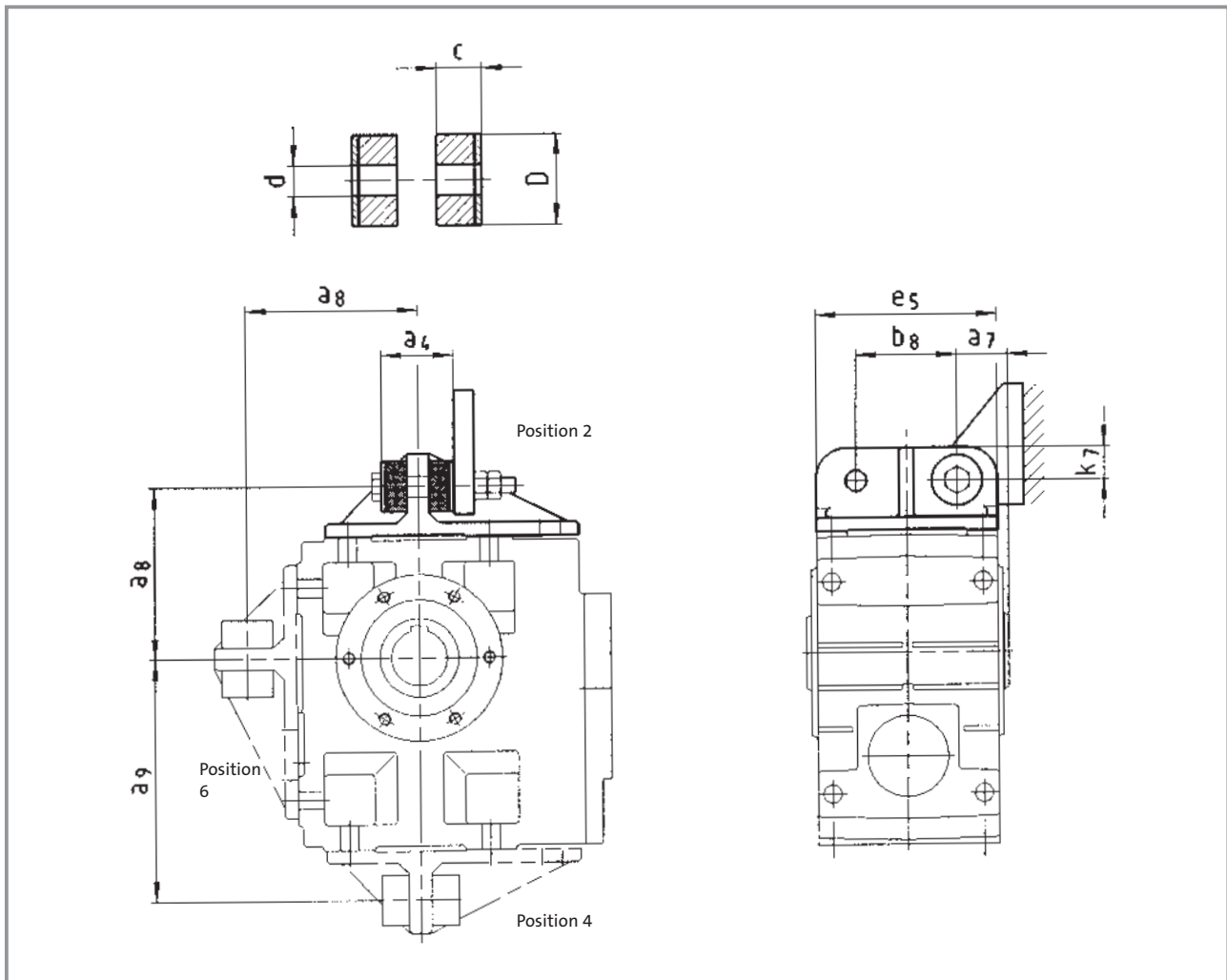
Torque plate at pitch circle, position 5



| Gearbox-size | Assembly space | | Torque plate | | | | | |
|--------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | a ₇ | b ₄ | a ₄ | a ₈ | a ₉ | d | D | k ₆ |
| 04 | 24 | 34.5 | 30 | 130 | 26.5 | 12 | 35 | 16 |
| 05 | 23.5 | 38.5 | 34 | 160 | 27.5 | 16 | 45 | 15 |
| 06 | 28 | 44.5 | 40 | 200 | 33 | 20 | 50 | 18 |
| 07 | 32.5 | 50.5 | 46 | 250 | 37.5 | 25 | 65 | 21 |

Dimensions in [mm]

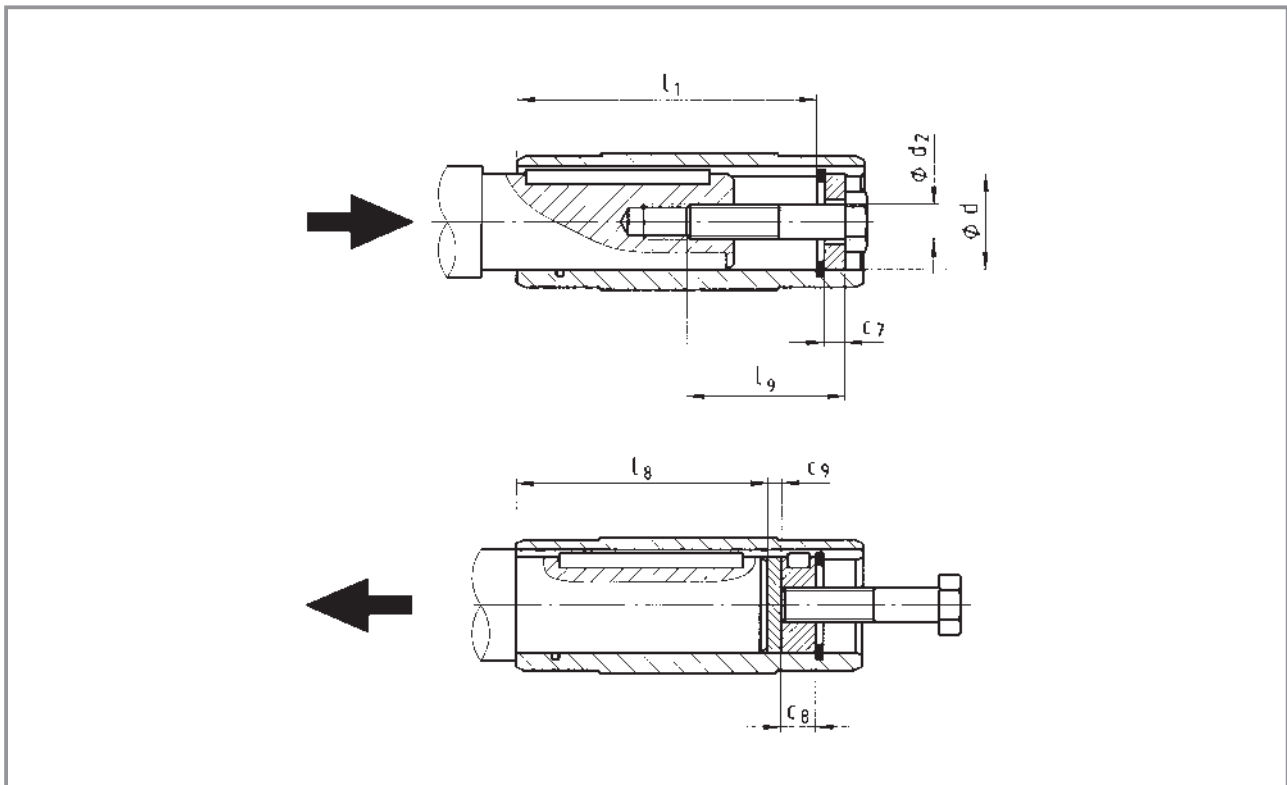
Torque plate at housing foot



| Gearbox size | a_4 | a_7 | a_8 | a_9 | b_8 | c | d | D | e_5 | k_7 |
|--------------|-------|-------|-------|-------|-------|------|-----|-----|-------|-------|
| 04 | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| 05 | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| 06 | 72 | 40 | 145 | 195 | 80 | 27 | 17 | 50 | 145 | 28 |
| 07 | 78 | 50 | 170 | 240 | 100 | 28 | 21 | 60 | 180 | 35 |

Dimensions in [mm]

Mounting set for hollow shaft circlip/Proposed design for auxiliary tools



| Gearbox size | Hollow shaft (design H) | | | Mounting set for hollow shaft circlip (auxiliary tool assembly) | | | Auxiliary tool disassembly | | Machine shaft |
|--------------|-------------------------|-------|-----------|--|----------|----------|----------------------------|-------|---------------|
| | l | l_1 | d H7 | d_2 | l_9 | c_7 | c_8 | c_9 | max l_8 |
| 04 | 115 | 100 | 25 30 | M10 M10 | 40 | 5 6 | 10 | 3 | 85 |
| 05 | 140 | 124 | 30 35 | M10 M12 | 40 50 | 6 7 | 10 12 | 3 | 107 |
| 06 | 160 | 140 | 40 45 | M16 | 60 | 8 9 | 16 | 4 | 118 |
| 07 | 200 | 175 | 50 55 | M16 M20 | 60 80 | 10 11 | 16 20 | 5 | 148 |

Dimensions in [mm]





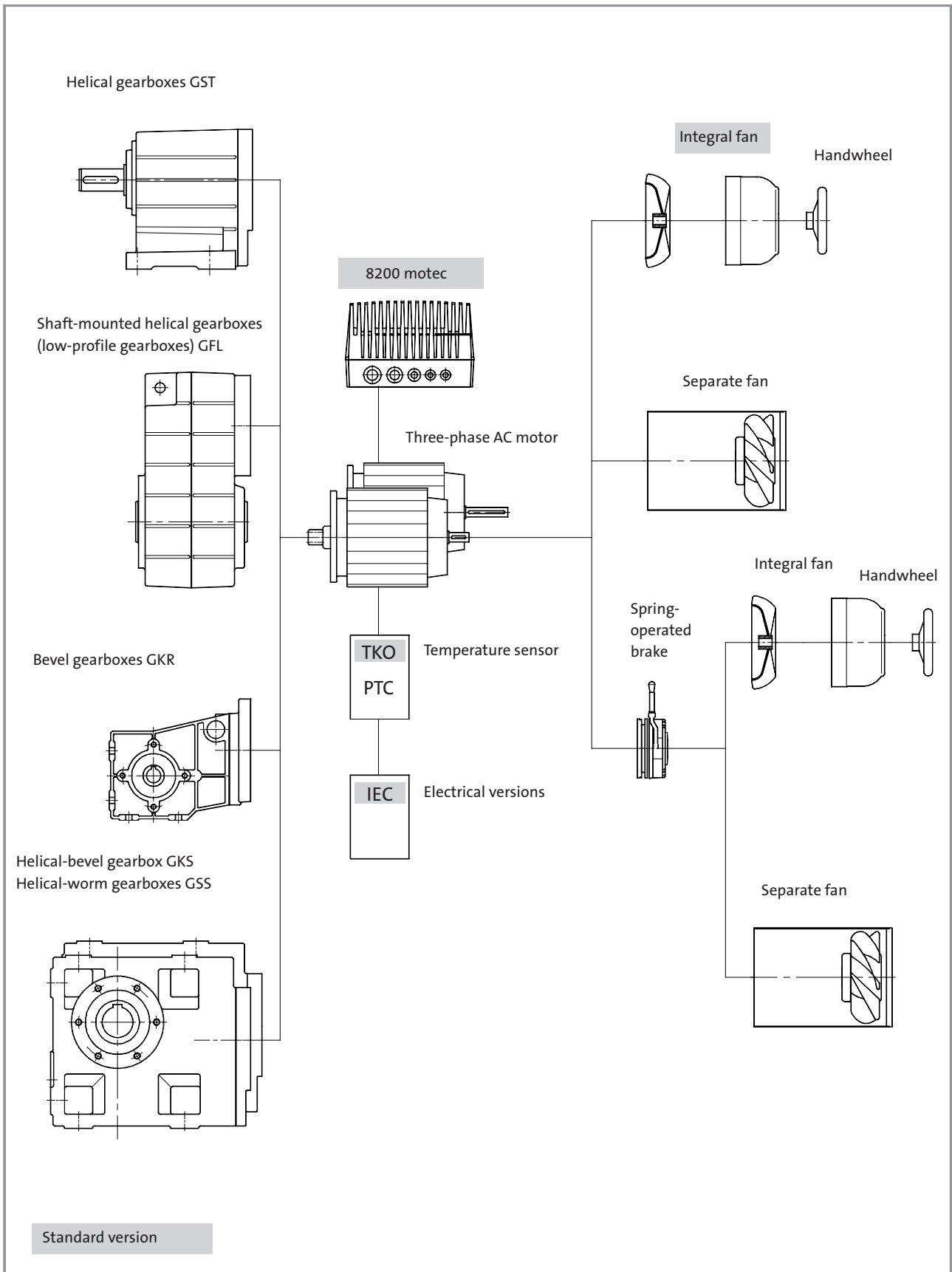
Technical data

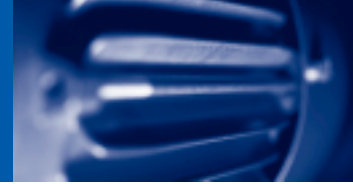
| | |
|-----------------------|-----|
| System overview | 8-2 |
| Rated data 50 Hz | 8-3 |
| Motor protection | 8-4 |
| Thermal contacts | 8-4 |
| PTC thermistor | 8-4 |
| Separate fan | 8-5 |
| Spring-operated brake | 8-7 |
| Handwheel | 8-9 |

Dimensions

| | |
|---|------|
| Geared motor with integral fan and protection cover | 8-10 |
| Geared motor with integral fan and handwheel | 8-11 |
| Geared motor with integral fan and 2nd shaft end | 8-12 |
| Geared motor with separate fan | 8-13 |
| Geared motor with separate fan and protection cover | 8-14 |
| Geared motor with manual release lever | 8-15 |
| Geared motor with 8200 motec add-on module | 8-16 |

System overview





No. of pairs of poles 2 (4-pole)

| Motor frame size | P _r [kW] | n _r [rpm] | I _r [A] Y/Δ | I _A /I _r | U [V] Y/Δ | f _r [Hz] | cos φ | η [%] | M _r [Nm] | M _{stall} [Nm] | M _A [Nm] | J [10 ⁻³ kgm ²] | m [kg] |
|------------------|---------------------|----------------------|------------------------|--------------------------------|-----------|---------------------|-------|-------|---------------------|-------------------------|---------------------|--|--------|
| 063C12 | 0.12 | 1425 | 0.49/0.85 | 3.1 | 400/230 | 50 | 0.56 | 63 | 0.80 | 2.64 | 2.5 | 0.33 | 4.1 |
| 063C32 | 0.18 | 1365 | 0.58/1.0 | 2.7 | 400/230 | 50 | 0.70 | 64 | 1.26 | 2.61 | 2.5 | 0.33 | 4.1 |
| 063C42 | 0.25 | 1370 | 0.82/1.4 | 2.9 | 400/230 | 50 | 0.67 | 66 | 1.74 | 4.10 | 3.8 | 0.37 | 4.4 |
| 071C32 | 0.37 | 1410 | 0.95/1.6 | 3.3 | 400/230 | 50 | 0.77 | 73 | 2.51 | 5.81 | 4.8 | 1.07 | 5.8 |
| 071C42 | 0.55 | 1405 | 1.4/2.4 | 3.5 | 400/230 | 50 | 0.77 | 74 | 3.74 | 9.12 | 7.9 | 1.28 | 6.4 |
| 080C32 | 0.75 | 1410 | 1.9/3.3 | 4.6 | 400/230 | 50 | 0.80 | 74 | 5.10 | 12.1 | 11.0 | 2.6 | 10.8 |
| 080C42 | 1.1 | 1390 | 2.8/4.8 | 4.4 | 400/230 | 50 | 0.80 | 77 | 7.50 | 18.4 | 16.5 | 2.6 | 11 |
| 090C32 | 1.5 | 1395 | 3.6/6.3 | 4.8 | 400/230 | 50 | 0.79 | 79 | 10.3 | 27.1 | 23.7 | 3.5 | 17 |
| 100C12 | 2.2 | 1440 | 5.3/9.2 | 6.0 | 400/230 | 50 | 0.73 | 84 | 15.0 | 44.0 | 38.0 | 6.1 | 24 |
| 100C32 | 3 | 1430 | 7.2/12.5 | 4.6 | 400/230 | 50 | 0.75 | 83 | 20.5 | 50.0 | 43.0 | 6.1 | 24 |
| 112C22 | 4 | 1450 | 9.3/16.1 | 6.2 | 400/230 | 50 | 0.73 | 86 | 26.4 | 95.0 | 70.0 | 10.7 | 31 |
| 112C32 | 5.5 | 1445 | 12.5/21.7 | 6.1 | 400/230 | 50 | 0.77 | 86 | 36.6 | 120 | 95 | 13.5 | 38 |
| 132C22 | 7.5 | 1455 | 17.0/29.3 | 5.9 | 400/230 | 50 | 0.76 | 88 | 49.5 | 150 | 100 | 33.6 | 66 |

Values are guide values

The temperature sensors are integrated into the windings.

Thermal contacts

| Motor frame size | Function | Operating temperature [°C] | Reset temperature [°C] | Current capacity [A] | Permissible voltage capacity [V] AC |
|------------------|------------|----------------------------|------------------------|----------------------|-------------------------------------|
| All | NC contact | 150 ± 5 | 90-135 | 2.5 | 250 |

PTC thermistor

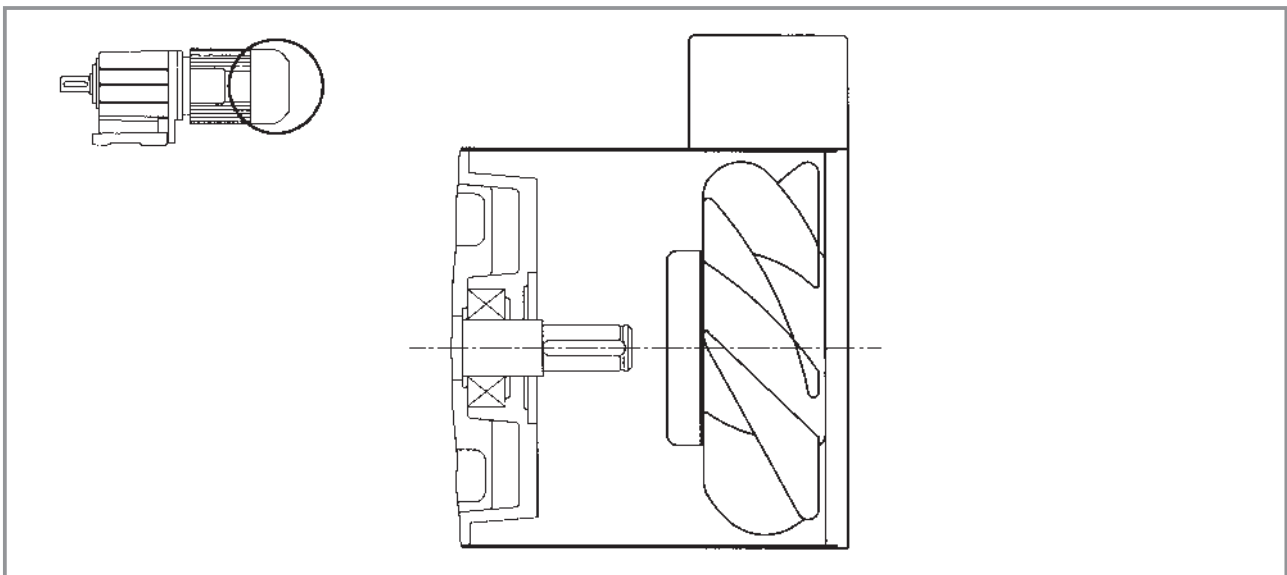
| Motor frame size | Function | Operating temperature [°C] | Resistance at | | Standards |
|------------------|-----------------------------|----------------------------|---------------|-----------------|--------------------------------|
| | | | 155°C [Ω] | -20...+140° [Ω] | |
| All | Abrupt change in resistance | 150 ± 5 | 550 | 30...250 | DIN 44080 VDE 0660 Part 303 |



Geared motors and geared brake motors can be fitted with a separate axially mounted fan. The fan is assembled in an extended motor fan cover with a separate terminal box.

General data

| | |
|------------------|-------------------------|
| Number of poles | 4-pole |
| Motor frame size | 063C□2 ... 132C□2 |
| Type | 1~ or 3~ |
| Enclosure | IP66 |
| Thermal class | F |
| Operating mode | S1 |



Rated data

| Motor frame size | Version | Connection | $U_r \pm 5\%$ [V] | f_r [Hz] | I_r 50 Hz [A] | P_r 50 Hz [W] | Weight m [kg] |
|----------------------------|---------|------------|----------------------|---------------|--------------------|--------------------|------------------|
| 063C12 063C32 063C42 | 1~ | | 230-277 | 50 (60) | 0.10 | 27 | 2.2 |
| | 3~ | Y | 380-500 | | 0.05 | 29 | |
| | 3~ | Δ | 220-290 | | 0.10 | 27 | |
| 071C32 071C42 | 1~ | | 230-277 | 50 (60) | 0.10 | 28 | 2.4 |
| | 3~ | Y | 380-500 | | 0.05 | 30 | |
| | 3~ | Δ | 220-290 | | 0.10 | 30 | |
| 080C32 080C42 | 1~ | | 230-277 | 50 (60) | 0.11 | 29 | 2.3 |
| | 3~ | Y | 380-500 | | 0.05 | 29 | |
| | 3~ | Δ | 220-290 | | 0.10 | 29 | |
| 090C32 | 1~ | | 230-277 | 50 (60) | 0.26 | 72 | 3.1 |
| | 3~ | Y | 380-500 | | 0.16 | 82 | |
| | 3~ | Δ | 220-290 | | 0.28 | 86 | |
| 100C12 100C32 | 1~ | | 230-277 | 50 (60) | 0.25 | 70 | 3.5 |
| | 3~ | Y | 380-500 | | 0.16 | 83 | |
| | 3~ | Δ | 220-290 | | 0.27 | 86 | |
| 112C22 112C32 | 1~ | | 230-277 | 50 (60) | 0.26 | 73 | 3.9 |
| | 3~ | Y | 380-500 | | 0.15 | 82 | |
| | 3~ | Δ | 220-290 | | 0.27 | 85 | |
| 132C22 | 1~ | | 230-277 | 50 (60) | 0.39 | 115 | 5.3 |
| | 3~ | Y | 380-500 | | 0.24 | 138 | |
| | 3~ | Δ | 220-290 | | 0.44 | 130 | |



Spring-operated brake

Brake motors are fitted with Lenze spring-operated brakes. The rectifier required for mains operation is located in the 8200 motec and is included in the scope of supply. The connection between the brake coil and the rectifier is assembled in the factory. A schematic diagram of the brake appears on page 8-8.

The brakes are engaged once the supply voltage has been disconnected (closed-circuit principle). The braking torques indicated are valid for quasi-static dimensioning with low rates of wear and the brake operating as a holding brake.

The air gap is factory-set and if required can be adjusted according to the level of wear.

General data

| | |
|---------------------|--|
| Version | Single-disc spring-operated brake, low noise |
| Operating principle | Braking torque at zero current |
| Enclosure | IP54 |
| Thermal class | F |
| Friction linings | Asbestos-free |
| Option | ► Manual release |

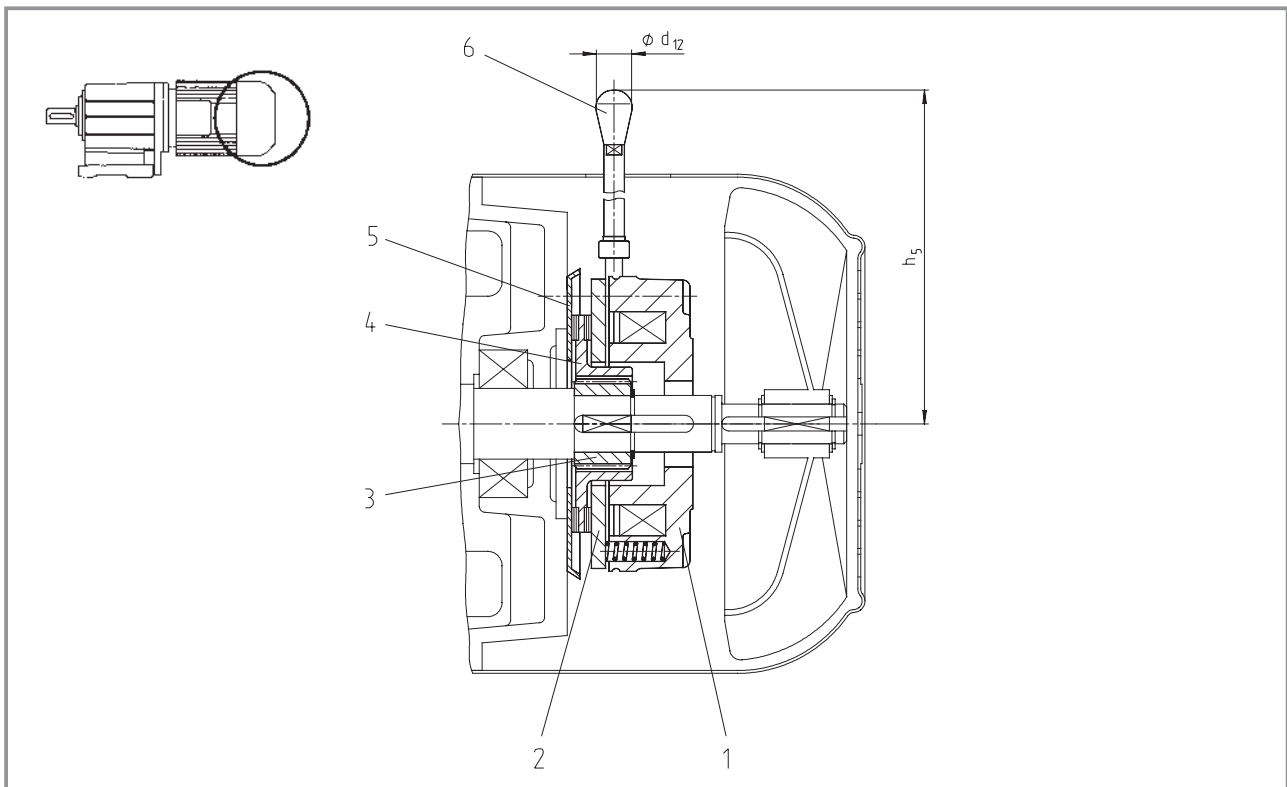
Rated data and possible combinations

| Rated data | Brake size | | | | | |
|--------------------------------------|-----------------------|-------|------|------|------|-----|
| | 06 | 08 | 10 | 12 | 14 | 16 |
| $P_{20^{\circ}}$ [W] | 20 | 25 | 30 | 40 | 50 | 55 |
| M_B [Nm] | 4 | 8 | 16 | 32 | 60 | 80 |
| J_B [10^{-3} kgm ²] | 0.015 | 0.061 | 0.20 | 0.45 | 0.63 | 1.5 |
| m [kg] | 0.9 | 1.5 | 2.6 | 4.2 | 5.8 | 8.7 |
| Motor frame size | Possible combinations | | | | | |
| 063 | ● | | | | | |
| 071C32 | ● | | | | | |
| 071C42 | ● | ● | | | | |
| 080C32 | | ● | | | | |
| 080C42 | | ● | ● | | | |
| 090 | | ● | ● | | | |
| 100 | | | ● | ● | | |
| 112 | | | | ● | ● | |
| 132 | | | | | ● | ● |

Voltages see chapter 9 Accessories for the 8200 motec - Braking operation

Spring-operated brake

| Position | Designation |
|----------|-------------------------|
| 1 | Stator |
| 2 | Armature plate |
| 3 | Hub |
| 4 | Rotor |
| 5 | Friction plate |
| 6 | Manual release (option) |

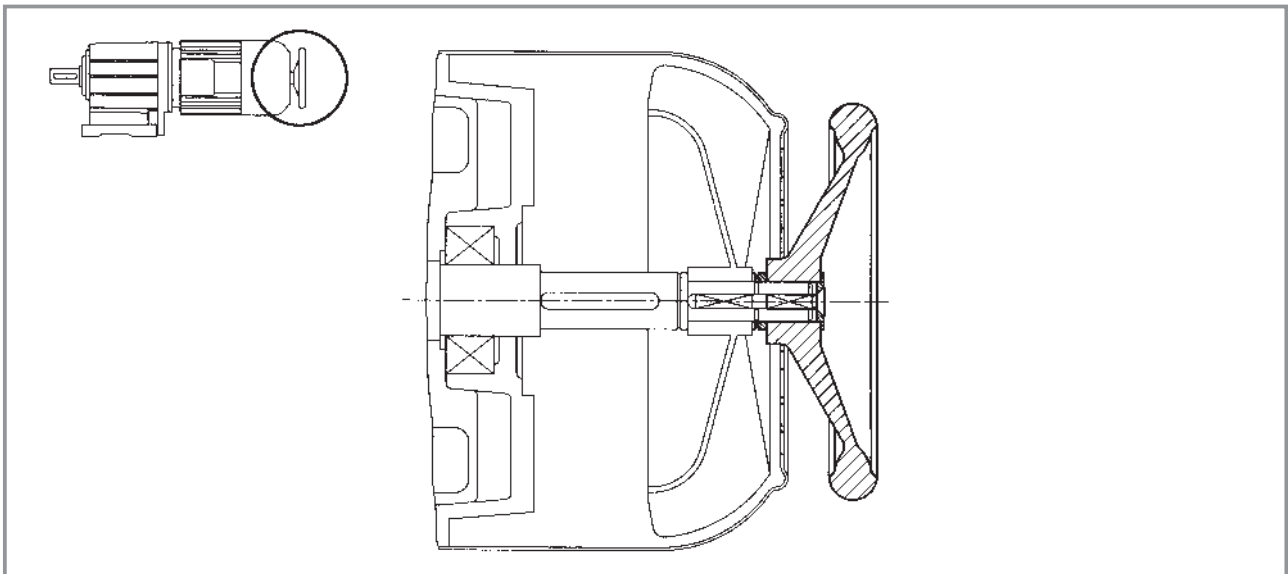


| Spring-operated brake size | d_{12} | h_5 |
|----------------------------|----------|-------|
| 06 | 13 | 107 |
| 08 | 13 | 116 |
| 10 | 13 | 132 |
| 12 | 13 | 161 |
| 14 | 24 | 195 |
| 16 | 24 | 240 |



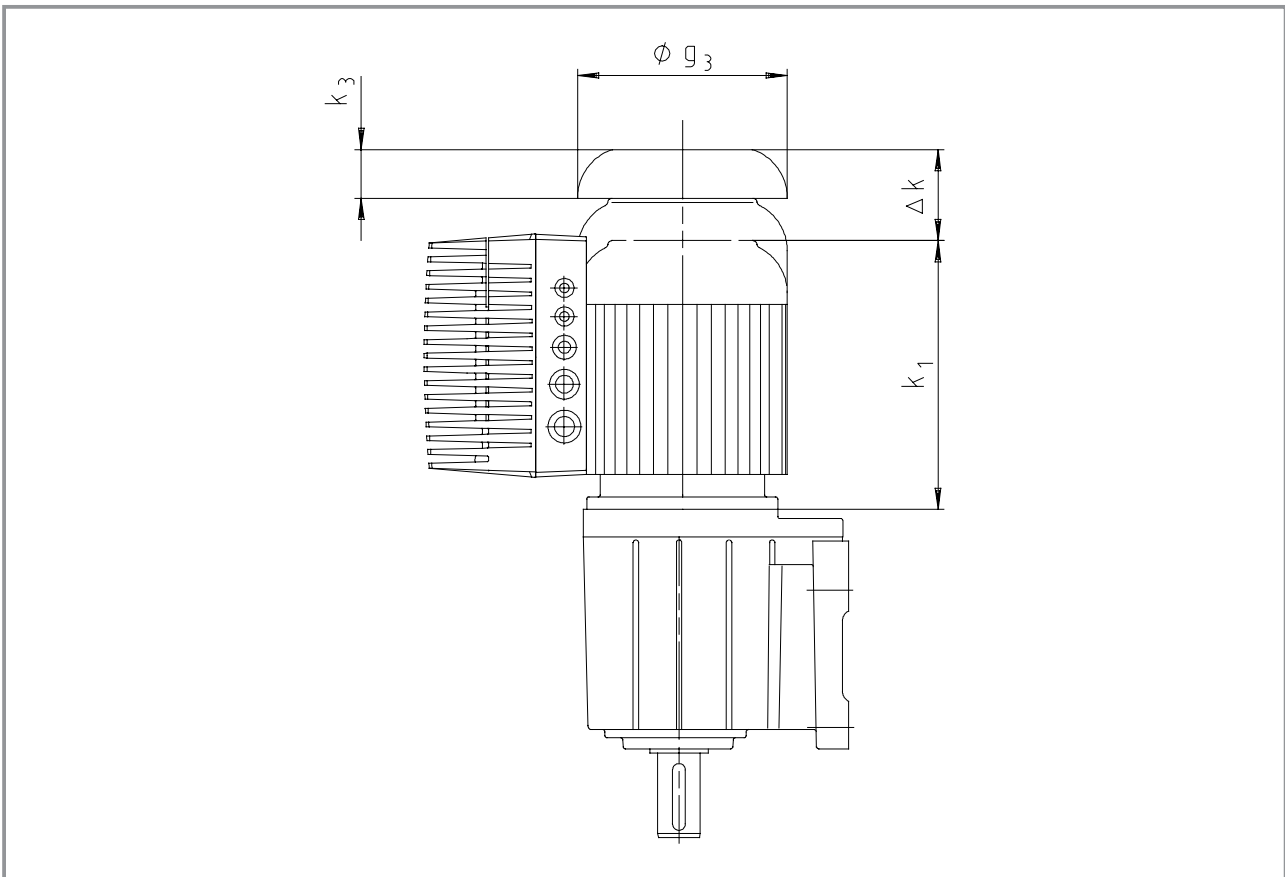
| | |
|-----------------------|---|
| Version | Handwheel made from light metal, smooth wheel surface |
| Operation | Manual operation: ▶ Emergency operation ▶ Setting-up operation for machines/systems |
| Technical note | The increased moment of inertia should be taken into account during configuration! For frequent switching operations, in particular if the direction of rotation changes: Please contact Lenze. |

| Motor frame size | Diameter d [mm] | Handwheel Additional moment of inertia [10 ⁻³ kgm ²] | m [kg] |
|------------------|-----------------|---|--------|
| 071 | 160 | 1.6 | 0.6 |
| 080 | 160 | 1.6 | 0.6 |
| 090 | 160 | 1.6 | 0.6 |
| 100 | 160 | 1.6 | 0.6 |
| 112 | 160 | 1.6 | 0.6 |
| 132 | 250 | 13.9 | 1.8 |



Dimensions - Motors

Geared motor with integral fan and protection cover



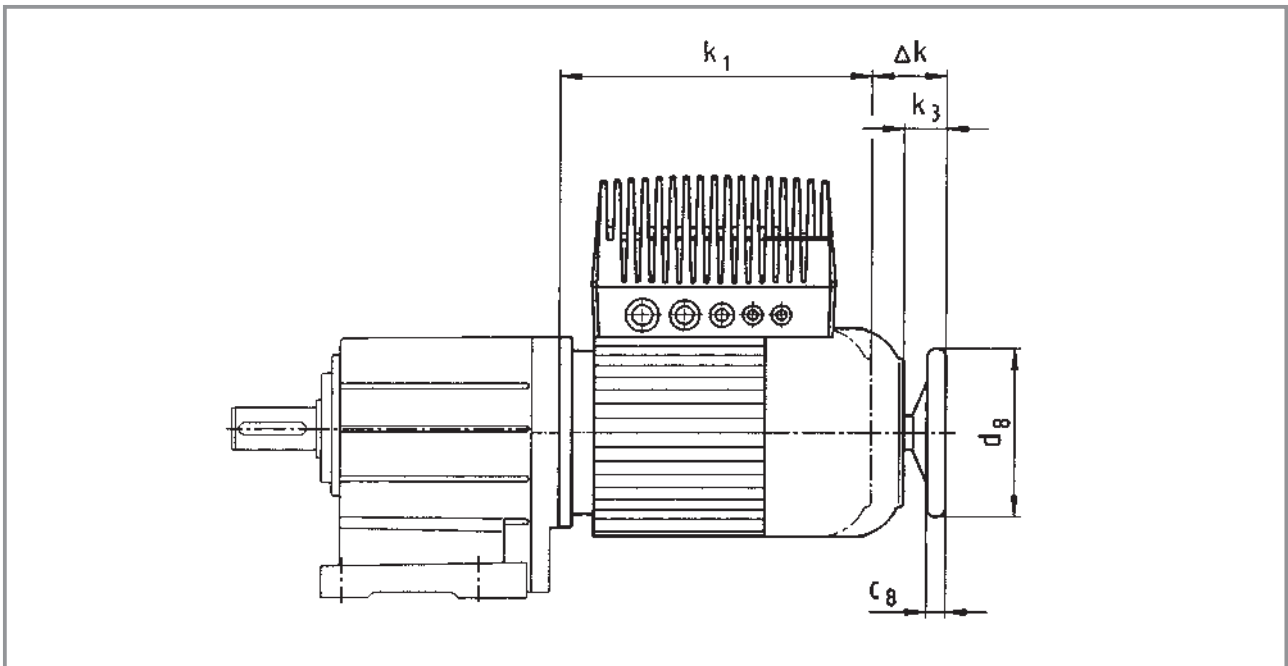
| Geared motor 4-pole | Motor frame size | | | | | | |
|------------------------|---------------------|------------------|--------|------------------|--------|--------|--------|
| | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 |
| Motor | g_1 | 138 | 156 | 176 | 194 | 218 | 257 |
| | k_1 ¹⁾ | 207 | 225 | 276 | 309 | 319 | 404 |
| | k_3 | 13 | 17 | 16 | 18 | 18 | 21 |
| Options | | Δk | | | | | |
| Fan | | 13 | 17 | 16 | 18 | 18 | 21 |
| Brake + fan | | 65 | 90 | 86 | 97 | 108 | 130 |

Dimensions in [mm]

¹⁾ Dimensions without options

Dimensions - Motors

Geared motor with integral fan and handwheel



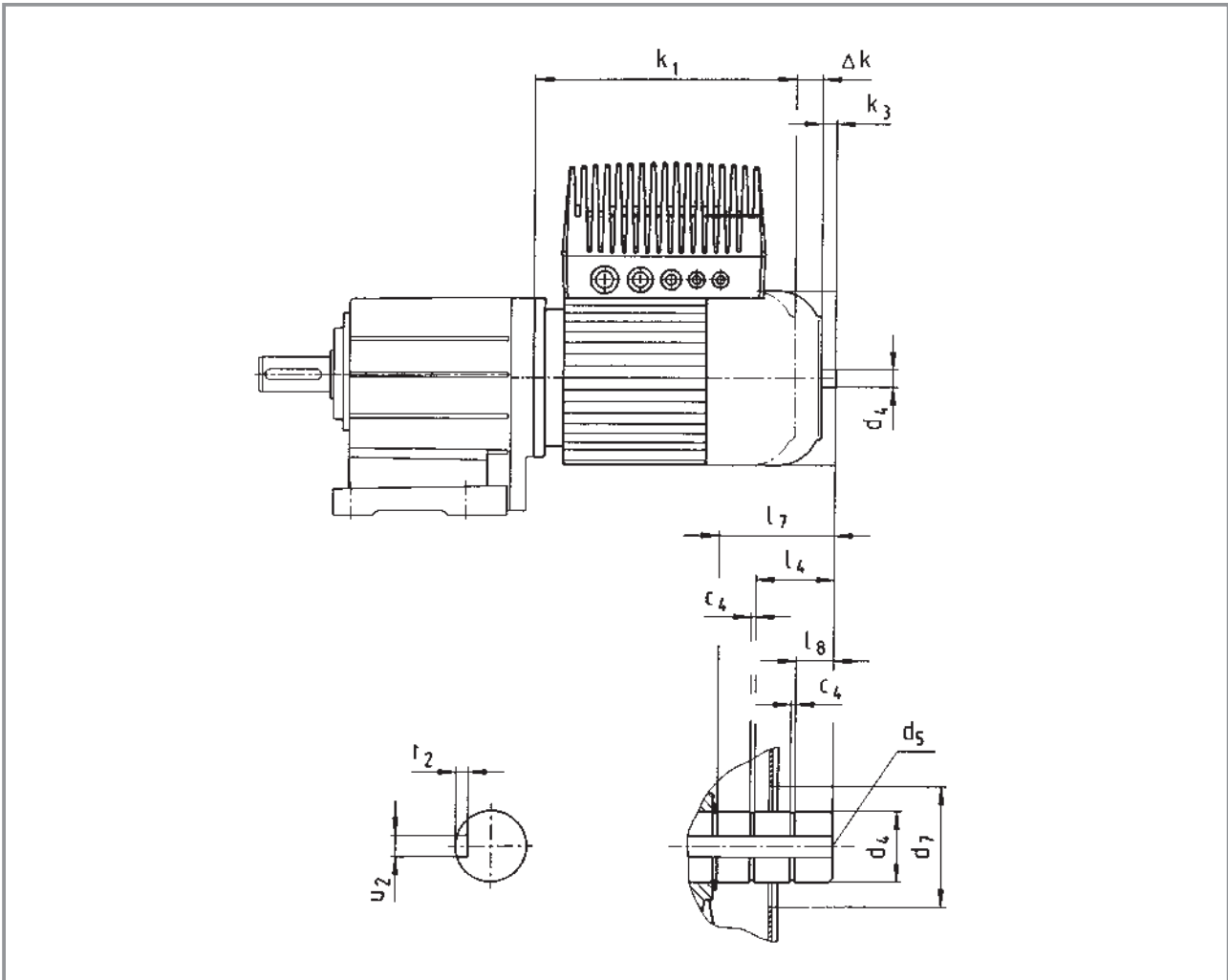
| Geared motor 4-pole | | Motor frame size | | | | | | |
|------------------------|---------------------|------------------|------------------|--------|------------------|--------|--------|--------|
| | | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 |
| Motor | k_1 ¹⁾ | 207 | 225 | 276 | 309 | 319 | 374 | 404 |
| | k_3 | 34 | 32 | 32 | 42 | 39 | | 50 |
| Handwheel | d_8 | 160 | 160 | 160 | 160 | 160 | | 250 |
| | c_8 | 18 | 18 | 18 | 18 | 18 | | 26 |
| Options | | Δk | | | | | | |
| Integral fan | | 70 | 91 | 80 | 94 | 107 | | 126 |
| Brake + integral fan | | | | | | | | |

Dimensions in [mm]

¹⁾ Motor length without options

Dimensions - Motors

Geared motor with integral fan and 2nd shaft end



| Geared motor 4-pole | | Motor frame size | | | | | | |
|------------------------|---------------------|------------------|------------------|--------|------------------|--------|--------|--------|
| | | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 |
| Motor | k_1 ¹⁾ | 207 | 225 | 276 | 309 | 319 | 363 | 404 |
| | k_3 | 11 | 9 | 9 | 19 | | 16 | 25 |
| Shaft end | c_4 | 1.1 | 1.1 | 1.1 | 1.3 | | 1.3 | 1.6 |
| | d_4 | 14 h6 | 14 h6 | 14 h6 | 20 j6 | | 20 j6 | 30 j6 |
| | d_5 | M5 | M5 | M5 | M6 | | M6 | M10 |
| | d_7 ²⁾ | 34 | 34 | 34 | 34 | | 34 | 46 |
| | l_4 | - | - | - | 17 | | 17 | 24.5 |
| | l_7 | 19 | 19 | 19 | 32.5 | | 28.5 | 42 |
| | l_8 | 3 | 4.5 | 5 | 10.5 | | 7 | 8.5 |
| | u_2 | 5 | 5 | 5 | 6 | | 6 | 8 |
| | t_2 | 3 | 3 | 3 | 3.5 | | 3.5 | 4 |
| Options | | Δk | | | | | | |
| Integral fan | | 47 | 68 | 57 | 71 | | 84 | 101 |
| Brake + integral fan | | | | | | | | |

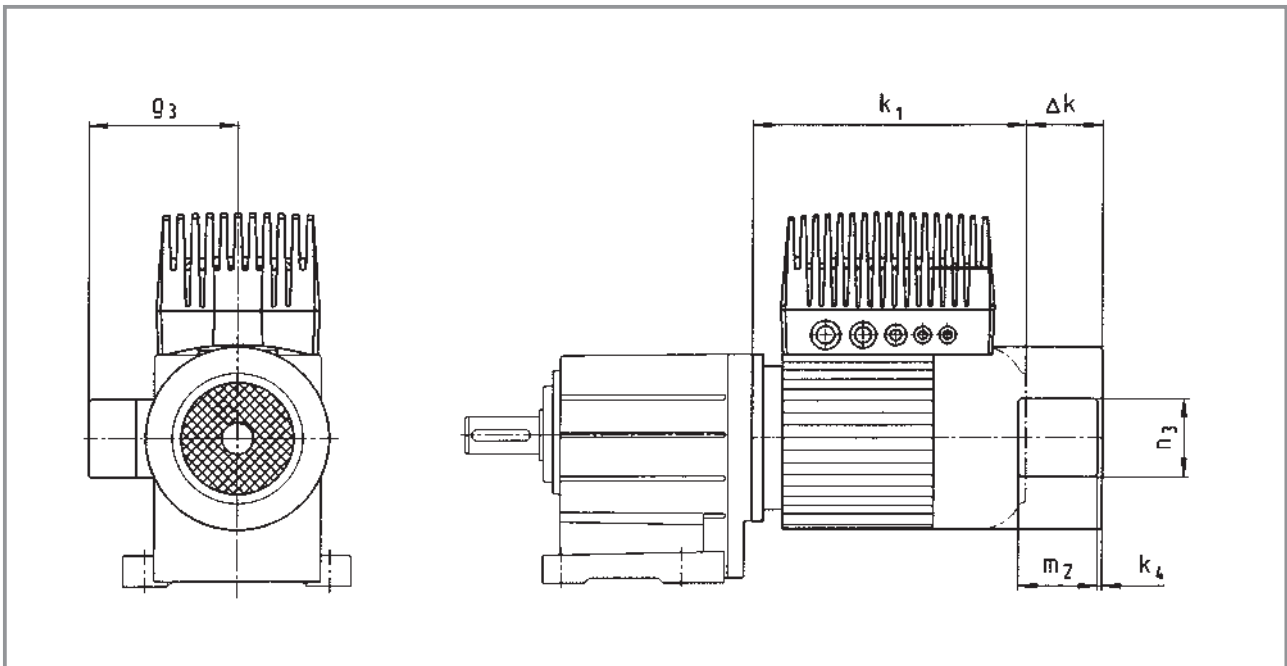
Dimensions in [mm]

¹⁾ Motor length without options

²⁾ During operation, appropriate means should be used to guard the fan cover opening.

Dimensions - Motors

Geared motor with separate fan



| Geared motor 4-pole | Motor frame size | | | | | | | | |
|------------------------------|----------------------------|------------------|------------------|------------|------------------|------------|------------|------------|-----|
| | 063C12 063C32 063C42 | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 | |
| Separate fan | g_3 | 115 | 122 | 131 | 141 | 150 | 162 | 182 | |
| | k_4 | 12 | 12 | 12 | 22 | 22 | 22 | 32 | |
| | m_2 | 96 | 96 | 96 | 96 | 96 | 96 | 96 | |
| | n_3 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | |
| Cable glands | Position 4 | 1x M16x1.5 | 1x M16x1.5 | 1x M16x1.5 | 1x M16x1.5 | 1x M16x1.5 | 1x M16x1.5 | 1x M16x1.5 | |
| Motor length without options | k_1 | 188 | 207 | 225 | 276 | 309 | 319 | 363 | 404 |
| Options | | Δk | | | | | | | |
| Separate fan | | 130 | 128 | 128 | 127 | 109 | 102 | 115 | |
| Brake + separate fan | | 170 | 165 | 184 | 180 | 170 | 183 | 201 | |

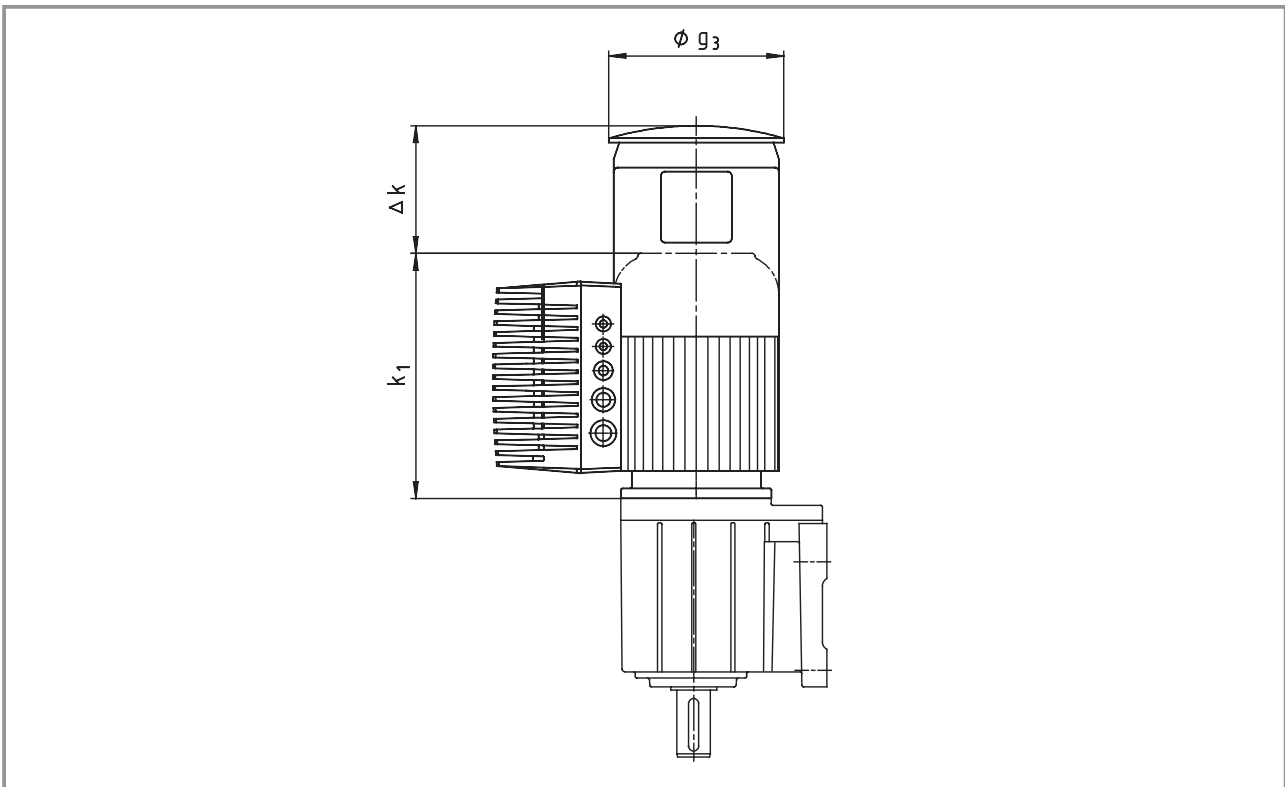
Dimensions in [mm]

Position of cable glands in relation to separate fan terminal box in position 5

Caution! The 8200 motec and separate fan terminal box cannot be in the same position!

Dimensions - Motors

Geared motor with separate fan and protection cover



| Geared motor 4-pole | Motor frame size | | | | | | | |
|------------------------|----------------------------|------------------|------------------|--------|------------------|--------|--------|--------|
| | 063C12 063C32 063C42 | 071C32 071C42 | 080C32 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 |
| Motor | g_3 | 133 | 150 | 170 | 188 | 210 | 249 | 300 |
| | $k_1^{1)}$ | 188 | 207 | 225 | 276 | 309 | 319 | 404 |
| Options | Δk | | | | | | | |
| Separate fan | 169 | 165 | 168 | 157 | 137 | 135 | 140 | |
| Brake + separate fan | 209 | 202 | 224 | 210 | 198 | 216 | 226 | |

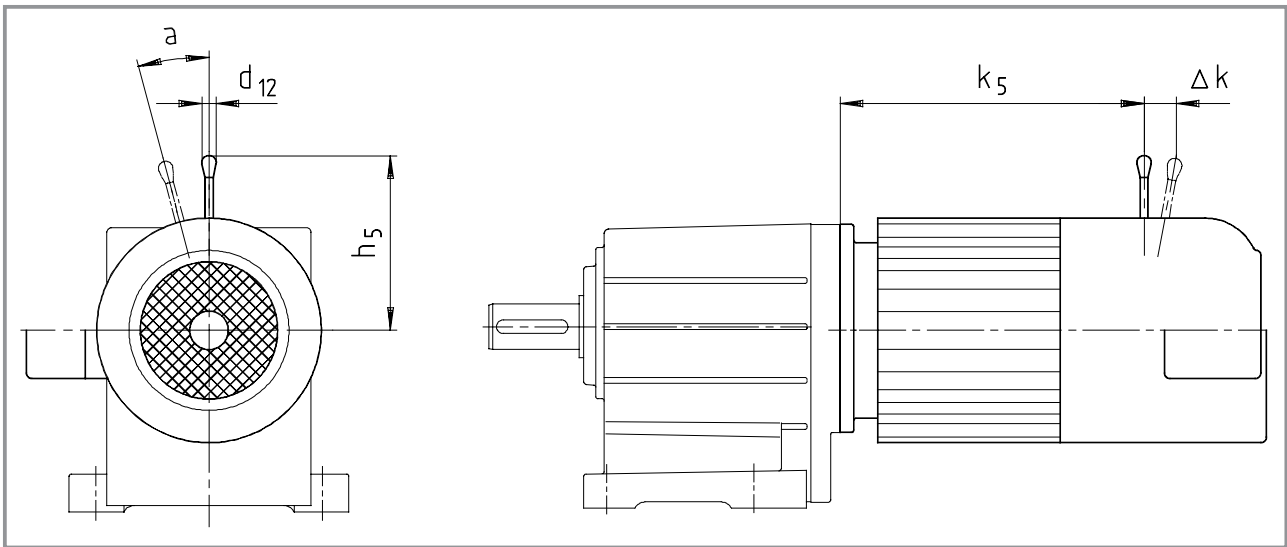
Dimensions in [mm]

¹⁾ Dimensions without options

Caution! The 8200 motec and separate fan terminal box cannot be in the same position!

Dimensions - Motors

Geared brake motors with manual release lever



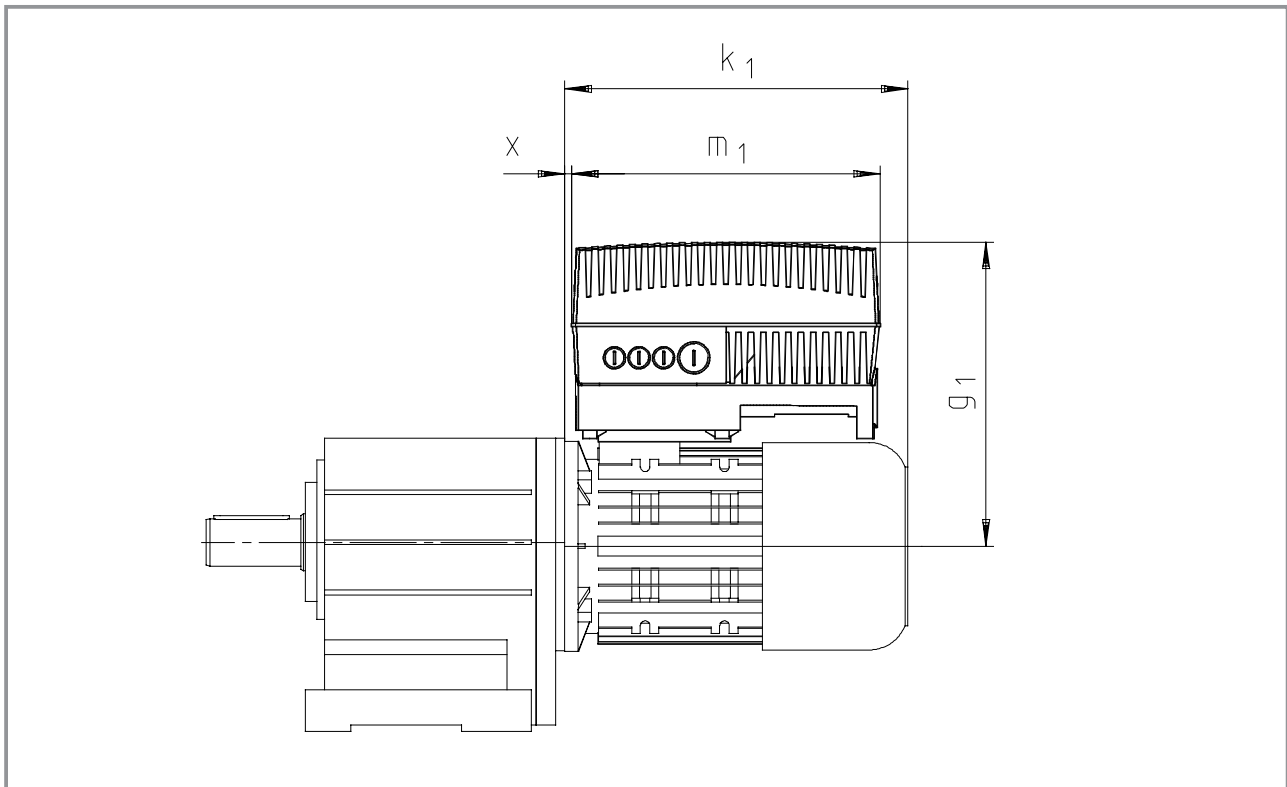
| Geared motor 4-pole | | | | Motor frame size | | | | | | | | | | | |
|------------------------|-----------------|----------------|----|------------------|----------------------------|--------|--------|--------|--------|--------|------------------|--------|--------|--------|--|
| | | | | 063C02 063C22 | 063C12 063C32 063C42 | 071C32 | 071C42 | 080C32 | 080C42 | 090C32 | 100C12 100C32 | 112C22 | 112C32 | 132C22 | |
| a | | | | 0° | 0° | 15° | 15° | 15° | 15° | 0° | 0° | 0° | 0° | 0° | |
| Brake size | d ₁₂ | h ₅ | Δk | k ₅ | | | | | | | | | | | |
| 06 | 13 | 107 | 29 | 185 | 173 | 186 | 186 | | | | | | | | |
| 08 | 13 | 116 | 27 | | | | 187 | 207 | 207 | 245 | | | | | |
| 10 | 13 | 132 | 28 | | | | | | 218 | 256 | 279 | | | | |
| 12 | 13 | 161 | 37 | | | | | | | | 281 | 292 | 336 | | |
| 14 | 24 | 195 | 41 | | | | | | | | | 296 | 340 | 373 | |
| 16 | 24 | 240 | 55 | | | | | | | | | | | 377 | |

Dimensions in [mm]

Caution! The 8200 motec and manual release lever cannot be in the same position!

Dimensions - Motors

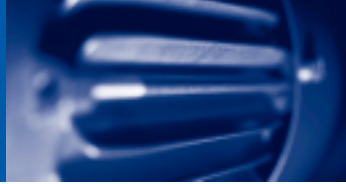
Geared motor with 8200 motec add-on module

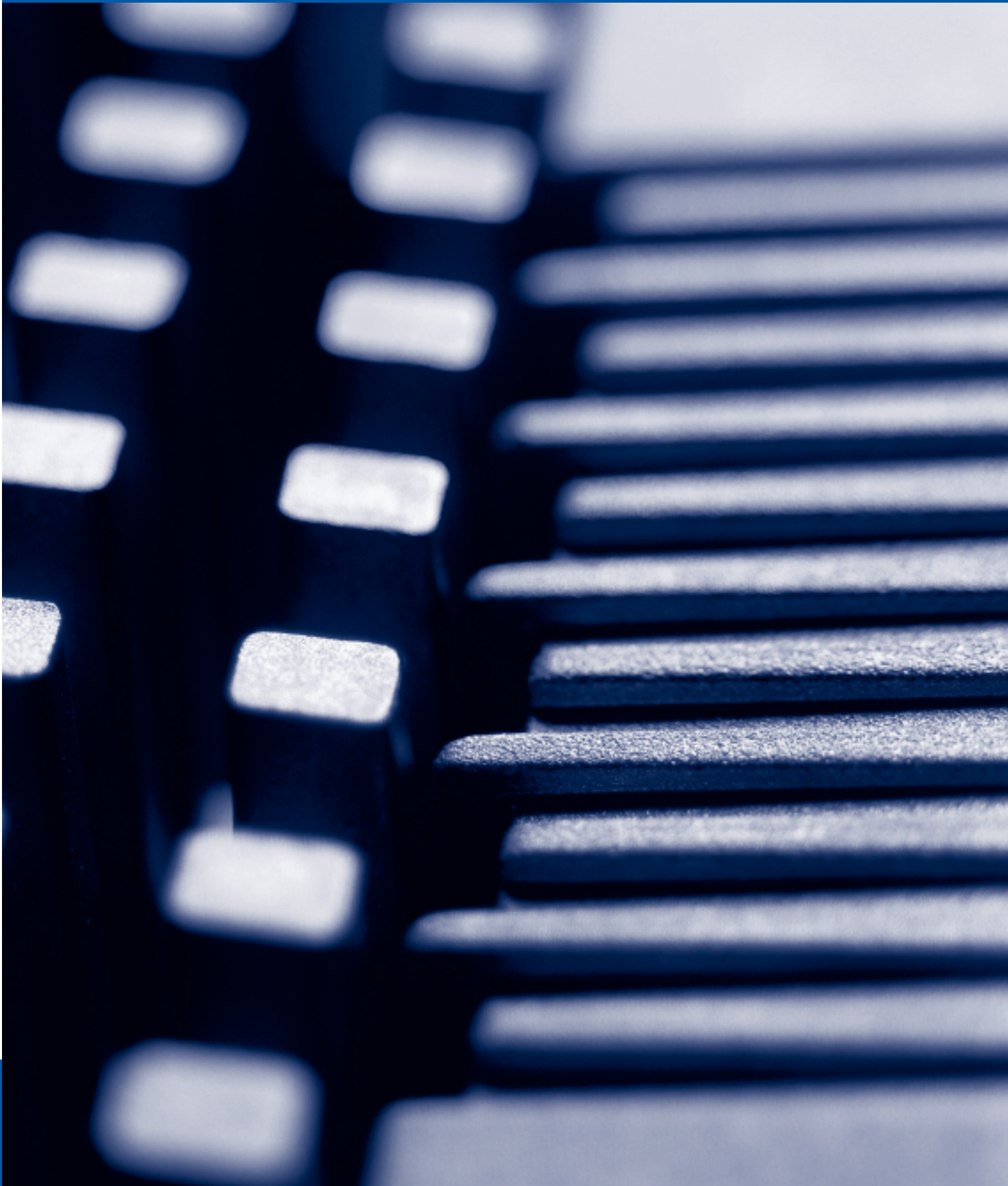


| Geared motor | Motor frame size | 100C32 | 112C22 | 112C32 | 132C22 |
|--------------|---------------------|--------|--------|--------|--------|
| 4-pole | 8200 motec E82MV□□□ | 302 | 402 | 552 | 752 |
| 8200 motec | g_1 | 312 | | 322 | 341 |
| | m_1 | 327 | | 327 | 327 |
| | X | 0 | | 2 | 11 |

Dimensions in [mm]

8200 motec add-on module for geared motors with separate fan not required.





Product information

| | |
|-----------------------------|-----|
| Distributed drive solutions | 9-2 |
| Selection help | 9-5 |

Basic inverters

| | |
|--|------|
| Overview | 9-6 |
| Technical data | 9-8 |
| Operation at rated power (normal operation) | 9-12 |
| Rated data at mains voltage 230 V | 9-12 |
| Rated data at mains voltage 400 V | 9-13 |
| Arrangement of cable glands | 9-16 |

Automation

| | |
|--|------|
| Overview | 9-18 |
| Diagnostics and parameterisation | 9-22 |
| Keypad XT operating module | 9-22 |
| LECOM-A (RS232) | 9-24 |
| Parameterisation software | |
| Global Drive Control (GDC) | 9-26 |
| I/O function modules | 9-28 |
| Standard I/O PT (terminal module) | 9-28 |
| Application I/O PT (extended terminal module) | 9-30 |
| BUS I/O | 9-32 |
| Fieldbus function modules | 9-34 |
| CAN (system bus) | 9-34 |
| CAN I/O (system bus) | 9-36 |
| CANopen | 9-38 |
| DeviceNet | 9-40 |
| PROFIBUS-DP | 9-42 |
| INTERBUS | 9-44 |
| LECOM-B (RS485) | 9-46 |
| AS-Interface | 9-48 |

| | |
|---------------------------------|------|
| Automation components | 9-50 |
| Drive PLC | 9-50 |
| Extension board (I/O extension) | 9-58 |
| Visualisation made easy | 9-60 |
| IP20 I/O system | 9-62 |

Accessories

| | |
|---|------|
| Overview | 9-64 |
| Cable protection | 9-65 |
| Fuses and cable cross-sections | 9-65 |
| Cable protection (fuses with assigned holders) | 9-66 |
| Cable protection (circuit-breakers) | 9-67 |
| Mains chokes (EN61000-3-2) | 9-68 |
| Braking operation | 9-69 |
| 8200 motec – braking operation with brake resistor | 9-69 |
| 8200 motec – braking operation with brake motors | 9-74 |
| Wiring terminals | 9-80 |
| General features | 9-80 |
| Mains bus connectors | 9-81 |
| Current limiting modules | 9-82 |
| Controls | 9-84 |
| Switch/potentiometer unit | 9-84 |
| Potentiometer unit | 9-85 |
| Switch unit | 9-85 |
| Add-on module | 9-86 |
| Overview tables | 9-87 |
| General accessories 8200 motec | 9-87 |
| Type-specific accessories | |
| 8200 motec | 9-88 |
| Possible combinations | |
| 8200 motec | 9-90 |

Current expectations of drive technology in mechanical and system engineering can be summarised in terms of the following key issues:

- ▶ Simple drive concepts to minimise the time and money spent on project-planning
- ▶ Easy handling, installation and assembly to reduce assembly times
- ▶ Less time and money spent on maintenance and replacements for high plant availability
- ▶ Reusability due to entire systems based on modules
- ▶ Adaptability due to flexible use of drive components

Distributed drive solutions can provide the ideal solution to these requirements.

Lenze can provide you with the components you require for consistent implementation.

The features and functions required in order to be able to set up drive solutions using frequency inverters efficiently are described in more detail below.

Distributed drive solutions with startec motor starters are described in a separate catalogue. Please contact us for more information.

Power range

8200 motec frequency inverter for single-phase and three-phase mains connection

Power ratings 230 V, 0.25-0.37 kW
400/500 V, 0.55-7.5 kW

How this can help you:

- Consistent and universal implementation of distributed drive solutions thanks to wide power range
- Options for use all over the world thanks to input voltage range of up to 500 V (+10%) and certification to international standards



Universal

The 8200 motec features the same range of functions as the 8200 vector (IP20 enclosure). Many elements, including parameterisation, operation, diagnostics and fieldbus interfacing, are identical.

How this can help you:

- Any combination of central and distributed drive elements, in accordance with the system concept
- Reduced project planning and training requirements

Adaptability

The modular structure of the 8200 motec means that it can be optimised for your application.

Whether as a "stand-alone" inverter with setpoint preselection via potentiometer or as a networked inverter with speed feedback in master/slave mode, the range of functions can be adapted in accordance with the features required to suit the application in question.

How this can help you:

- Cost-effective drive solutions thanks to optimised components

Flexibility

The 8200 motec supports most common fieldbus systems.

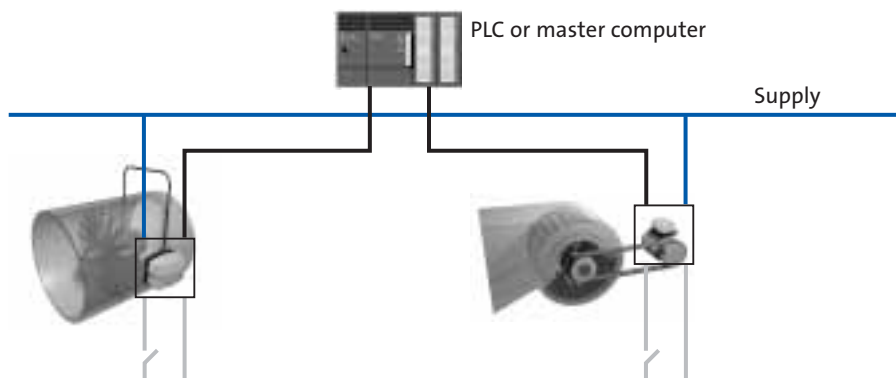
How this can help you:

- Always the ideal bus system (CAN, PROFIBUS-DP, INTERBUS, AS-Interface) for the application and use



1. Distributed single drives

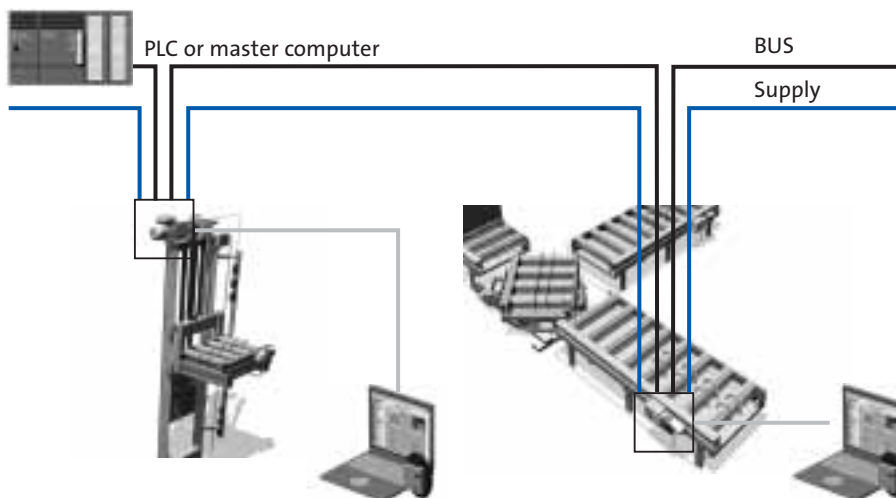
Open-loop/closed-loop control with digital and analog inputs and outputs



2. Distributed drive systems

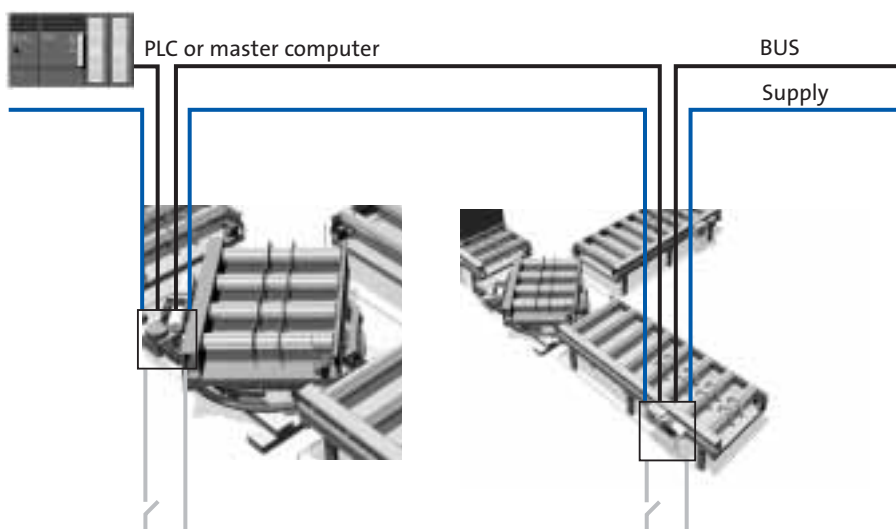
2.1

Networking via fieldbus, parameterisation and diagnostics also supported locally via local controls and PC



2.2

Networking via fieldbus and open-loop/closed-loop control with digital and analog inputs and outputs



Operation and maintenance

All the cables (mains and control cables) are connected in the carrier housing (terminal tray) of the 8200 motec. Should servicing be required, remove the inverter by unscrewing the four screws and then reconnect it to the carrier housing.

Status LEDs have been provided for local diagnostics. Alternatively, you can access all the information you need via the user-friendly keypad or PC interface.

How this can help you:

- Less machine down time because components can be replaced and diagnosed locally

The keypad, or, for the 8200 motec, the Keypad XT, is available for visualising operating parameters. 8 keys and a text display provide quick and easy access to the inverter parameters via the transparent menu structure. The Keypad XT is also used for the purposes of status display and error diagnostics. In addition, its built-in memory can be used to transfer settings to other inverters.

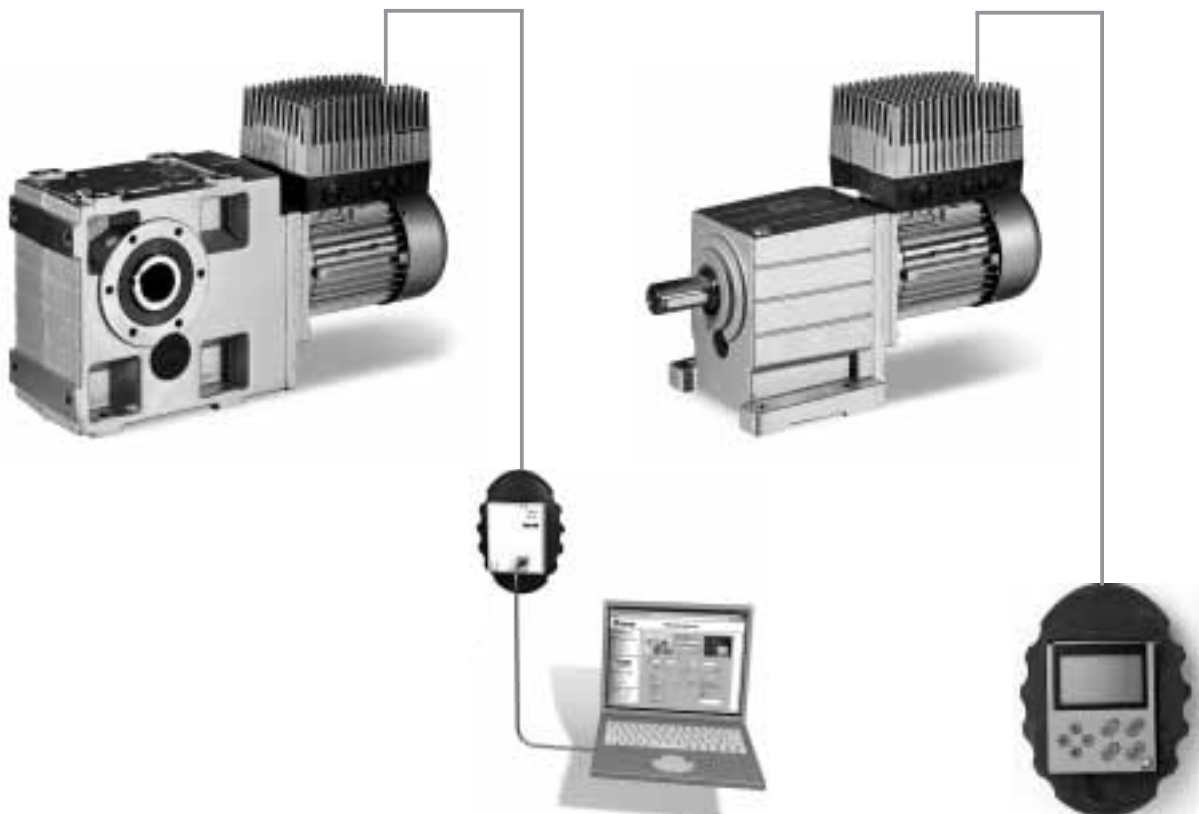
How this can help you:

- Ease of operation

The Global Drive Control (GDC) parameterisation software features a transparent menu structure and assisted commissioning.

How this can help you:

- Quick and easy parameterisation and diagnostics



- ▶ What are the power and voltage requirements?
- ▶ How should the drive parameters be set?

In order to support you when configuring your distributed drive system, we have provided a selection guide in the form of a flow chart. You need to answer just a few questions on the way to finding the ideal solution for your requirements.

| |
|---|
| Mains voltage/power range |
| Operation/control |
| Open-loop control Parameterisation |
| Mains connection |
| Mains loops |
| Components for mains connection |
| Braking operation |
| Braking operation with short ramps and high moment of inertia |
| Actuation of a spring-operated brake |

8200 motec



1ph 230 V 0.25...0.37 kW
3ph 400/500 V 0.55...7.5 kW

| I/O | keypad/RS232 | fieldbus |
|-----|--------------|----------|
| x | x | x |
| - | x | x |

| | | |
|---|---|---|
| x | x | x |
| - | x | x |

I/O function module
>> page 9-28 onwards



Diagnosis terminal with keypad
>> page 9-22 onwards



Fieldbus function module
>> page 9-34 onwards



Wiring terminals, selection
>> page 9-80 onwards

Cable protection circuit breaker
mains choke
>> page 9-66 onwards



Brake resistor, selection
>> page 9-69 onwards



Brake control
>> page 9-72 onwards

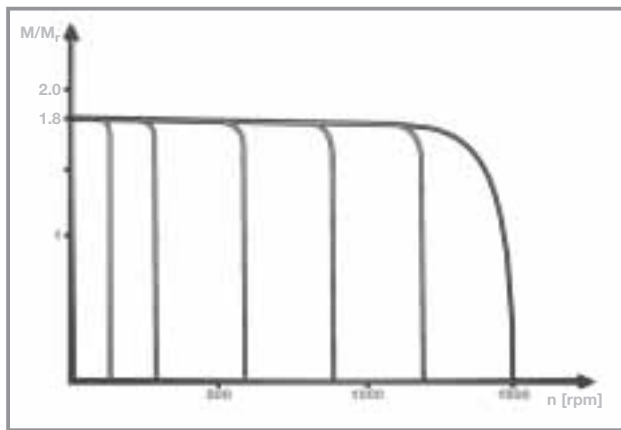


The concept of the 8200 motec frequency inverter is based on a modular system of complementary components for distributed drive systems. The inverter can be combined with a Lenze geared motor to create an electronic variable speed drive with a wide range of functions. These rugged drives can be used for speed control in numerous industries and applications, e.g. materials handling technology, HVAC technology, automation, etc.

In addition to the features listed in the product information for distributed drive solutions, the 8200 motec frequency inverter also boasts:

Vector control

- 1.8x torque
- High speed setting range
- Excellent smooth running characteristics
- Torque setting range up to 1:10



Versatile

Many different types of three-phase AC motor can be controlled:

- Three-phase asynchronous motors
- Three-phase reluctance motors
- Medium-frequency motors

It couldn't be easier to retrofit or extend systems

The mains supply is the only control voltage needed to run the 8200 motec. This means that even systems which were previously unregulated can be retrofitted relatively quickly and inexpensively for the purpose of process optimisation.

Adaptability

The selectable form of the U/f characteristic enables the frequency inverter to be adapted to loads with constant or square-law torque.

Power-optimised

The frequency inverters can be power-optimised by means of operation at increased rated power – Advantage:

- Use of a more powerful motor in continuous operation

Applications: e.g. pumps, HVAC units, etc.

Braking operation

You can use a brake rectifier (see chapter Accessories) to supply power to and control an electronic spring-operated brake directly from the 8200 motec.

Standard functions

- ▶ Flying restart circuit on coasting motor
- ▶ Slip and mains voltage compensation
- ▶ PID controller
- ▶ Load loss/V-belt monitoring
- ▶ Smooth starting and stopping with S-shaped ramps
- ▶ DC braking
- ▶ Motor potentiometer
- ▶ Elimination of mechanical resonance
- ▶ Manual/remote change-over
- ▶ Up to 3/7 fixed frequencies per parameter set
- ▶ 4 freely-assignable parameter sets can be changed over online
- ▶ Elapsed time meter

Protection functions

- ▶ Short-circuit-proof, earth-fault-proof during operation
- ▶ Configurable current limitation, warnings and error messages in the event of overcurrent
- ▶ Overvoltage and undervoltage protection
- ▶ Warnings and error messages in the event of frequency inverter overtemperature
- ▶ Input for PTC or thermal contact and I²t monitoring for motor protection
- ▶ Motor phase failure detection
- ▶ Integrated brake transistor
- ▶ Integrated RFI filters to EN 55011 Class A or B

Control and operation

- ▶ Keypad/Keypad XT with plain text display and menu structure
- ▶ Copy function for transferring inverter settings
- ▶ Password protection
- ▶ Global Drive Control easy control and parameterisation software (download via Internet)

Power range

0.25 kW...0.37 kW 230 V/240 V (+10%)
0.55 kW...7.5 kW 400 V (+10%)

Overload capability

180% (rated torque for 60 seconds)

Operating modes

- ▶ U/f linear
- ▶ U/f quadratic
- ▶ Vector control
- ▶ Sensorless torque control

Switching frequency 2, 4, 8, 16 kHz

Output frequency up to 650 Hz

Fieldbus communication

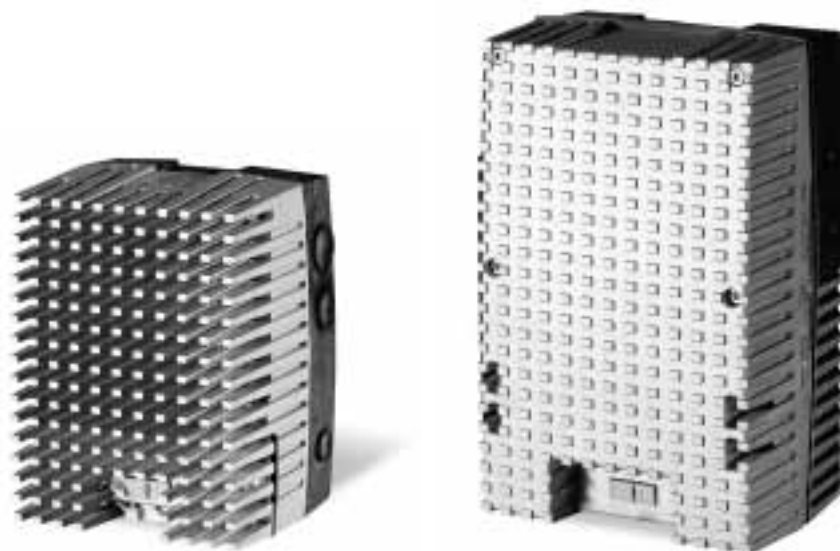
- ▶ RS232 serial interfaces
- ▶ Bus interface to most common fieldbus systems (CAN, PROFIBUS-DP, INTERBUS, AS-Interface)

Input and output terminals

- ▶ Up to 2 analog inputs, bipolar as an option (0-10 V, -10 V...+10 V, 0-20 mA, 4-20 mA; resolution 10 bits)
- ▶ Up to 2 analog outputs (0-10 V, 0-20 mA, 4-20 mA; resolution 10 bits)
- ▶ Up to 6 potential-free digital inputs with change-over logic
- ▶ Up to 2 digital outputs and one frequency output
- ▶ 1 relay output (also for direct mains connection 240 V AC)
- ▶ Evaluation option for incremental encoder

Actuation

- ▶ Via digital inputs/outputs and/or
- ▶ Via fieldbuses



Standards and operating conditions

| | | |
|---------------------------------------|---|--|
| Conformity | CE | Low-Voltage Directive (73/23/EEC) |
| Approvals | UL 508C | Underwriter Laboratories (File No. E132659) Power Conversion Equipment |
| Vibration resistance | Accelerational stability up to 2 g (Germanischer Lloyd, general conditions) | |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | |
| Degree of pollution | VDE 0110 Part 2 Degree of pollution 2 | |
| Packaging (DIN 4180) | Dust packaging | |
| Permissible temperature ranges | | |
| | Transport | -25°C ... +70°C |
| | Storage | -25°C ... +60°C |
| | Operation | -20°C ... +60°C Above +40°C, derate the rated output current by 2.5%/°K |
| Permissible site altitude | 0 ... 4000 m amsl | Above 1000 m amsl, derate the rated output current by 5%/1000 m |
| Mounting positions | All mounting positions and mounting orientations permissible | |
| Free space | | |
| | Above/below | ≥100 mm |
| | To the side | ≥100 mm |
| DC-bus operation | Not possible | |

General electrical data

| | | | |
|--|---|---|--|
| EMC | Compliance with requirements to EN 61800-3/A11 | | |
| Noise emission | Motor assembly | Compliance with threshold classes A and B to EN 55011 | |
| | Wall mounting | Compliance with threshold class A to EN 55011 (up to 10 m shielded motor cable) Compliance with threshold class B to EN 55011 (up to 1 m shielded motor cable) | |
| Noise immunity | Requirements to EN 61800-3 incl. A11 noise immunity | | |
| | Requirements | Standard Severity | |
| | ESD | EN 61000-4-2 | 3. i.e. 8 kV for air discharge, 6 kV for contact discharge |
| | Cable-guided high-frequency | EN 61000-4-6 | 150 kHz ... 80 MHz, 10 V/m 80% AM (1 kHz) |
| | RF interference (housing) | EN 61000-4-3 | 80 MHz ... 1000 MHz, 10 V/m 80% AM (1 kHz) |
| | Burst | EN 61000-4-4 | 3/4. i.e. 2 kV/5 kHz |
| | Surge (surge voltage on mains cable) | EN 61000-4-5 | 3. i.e. 1.2/50 μ s, 1 kV phase-phase, 2 kV phase-PE |
| Insulation resistance | Overvoltage category III to VDE 0110 | | |
| Leakage current to PE (to EN 50178) | > 3.5 mA, i.e. fixed installation required, PE must be reinforced | | |
| Enclosure | IP65/NEMA4 (IP54 for 8200 motec 3.0-7.5 kW for operation with E82ZMV add-on module) | | |
| Protective measures against | Short circuit, earth fault (earth-fault-proof during operation, limited protection against earth faults on power-up), overvoltage, motor instability, motor overtemperature (input for PTC or thermal contact, I ² t monitoring) | | |
| Protective insulation of control circuits | Safe disconnection from supply: Dual/reinforced insulation to EN 50178 | | |
| Permissible supply forms | Operation on TT systems, TN systems or systems with earthed neutral without additional measures | | |
| | Operation on IT systems not possible | | |
| Operation on public supply systems | Limitation of harmonic currents to EN 61000-3-2 | | |
| | Total power on mains | Complies with requirements ¹⁾ | |
| | < 0.5 kW | With mains choke | |
| | 0.5 kW...1 kW | With active filter (in preparation) | |
| | > 1 kW | Without additional measures | |

¹⁾ The additional measures listed enable the controller alone to meet the requirements of EN 61000-3-2. Responsibility for adherence to requirements on the part of the machine/system lies with the machine/system manufacturer.

Inputs and outputs

| | | |
|---|----------------------|--|
| Analog inputs Analog outputs | With standard I/O | 1 input, bipolar as an option 1 output |
| | With application I/O | 2 inputs, bipolar as an option 2 outputs |
| Digital inputs Digital outputs | With standard I/O | 4 inputs, optional 1 frequency input single-track 0 ... 10 kHz; two-track 0 ... 1 kHz 1 input for controller inhibit 1 output |
| | With application I/O | 6 inputs, optional 1 frequency input single-track/two-track 0 ... 100 kHz; 1 input for controller inhibit 2 outputs, 1 frequency output 50 Hz ... 10 kHz |
| Cycle times | Digital inputs | 1 ms |
| | Digital outputs | 4 ms |
| | Analog inputs | 2 ms |
| | Analog outputs | 4 ms (smoothing time: $\tau = 10$ ms) |
| Relay output | | 1 relay output AC 250 V/3 A, DC 24 V/2 A ... 240 V/0.22 A (change-over contact) |
| Generator mode | | Integrated brake transistor |

Open-loop and closed-loop control

| | | | |
|--|-----------------------------|---|---|
| Open-loop and closed-loop methods | | U/f characteristic control (linear, quadratic), vector control, torque preselection | |
| Switching frequency | | 2 kHz, 4 kHz, 8 kHz, 16 kHz | |
| Torque characteristic | Maximum torque | 1.8 x M _r for 60 s | If rated motor power = rated controller power |
| | Setting range | 1 :10 | In speed range 3 ... 50 Hz, accuracy < 8% |
| | Torque/speed characteristic | | |
| Sensorless speed control | Minimum output frequency | 1.0 Hz (0 ...M _r) | |
| | Setting range | 1:50 | Related to 50 Hz and M _r |
| | Accuracy | ±0.5% | |
| | Smooth running | ±0.1 Hz | In speed range 3 ... 50 Hz |
| Output frequency | Range | -650 Hz ... +650 Hz | |
| | Resolution absolute | 0.02 Hz | |
| | Resolution standardised | Parameter data: 0.01%, process data: 0.006% (= 2 ⁻¹⁴) | |
| Digital setpoint selection | Accuracy | ±0.005 Hz (= ±100 ppm) | |
| Analog setpoint selection | Linearity | ±0.5% | Related to instantaneous value |
| | Temperature sensitivity | +0.3% (0 ... +60°C) | Related to instantaneous value |
| | Offset | ±0% | |
| | A/D converter | Resolution 10 bits A/D converter | |
| | | Error 1 digit | ≡ 0.1% related to final value |

8200 motec basic inverters

Operation at rated power (normal operation)

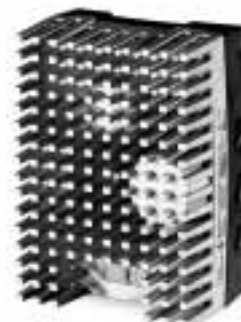
Rated data at mains voltage 230 V

| | | | | | |
|---|------------------------|---|--------------------|------------|------------|
| Typical motor power | P_r [kW] | 0.25 | 0.37 | | |
| Three-phase asynchronous motor (4-pole) | P_r [hp] | 0.34 | 0.5 | | |
| 8200 motec type | | E82MV251_2B | E82MV371_2B | | |
| Mains voltage | U_{mains} [V] | 1/N/PE AC 180 V-0%...264 V +0%; 45 Hz -0%...65 Hz +0% | | | |
| Data for operation at 1/N/PE AC 230 V | | | | | |
| Mains rated current | I_{mains} [A] | 3.4 | 5.0 | | |
| Output power U, V, W (at 8 kHz) | S_r [kVA] | 0.68 | 1.0 | | |
| Rated output current at switching frequency | 2 kHz | I_r [A] | | | |
| | 4 kHz | | | | |
| | 8 kHz | | | 1.7 | 2.4 |
| | 16 kHz ²⁾ | | | 1.1 | 1.6 |
| Max. permissible output current for 60 s at switching frequency ¹⁾ | 2 kHz | I_{max} [A] | | | |
| | 4 kHz | | | | |
| | 8 kHz | | | 2.5 | 3.6 |
| | 16 kHz ²⁾ | | | 1.7 | 2.3 |
| Output voltage | U_M [V] | 3~ 0 ... U_{mains} / 0 ... 650 Hz | | | |
| Power loss (operation with I_r at 8 kHz) | P_v [W] | 30 | 40 | | |
| Dimensions | H x W x D [mm] | 190 x 138 x 100 | | | |
| Weight | m [kg] | 1.8 | 1.8 | | |

Bold print = Data for operation at a switching frequency of 8 kHz (Lenze setting)

¹⁾ Currents for periodic load change cycle: 1 min overcurrent duration at I_{max} and 2 min base load duration at 75% I_r

²⁾ For protection against shutdown due to impermissible temperature, the switching frequency is automatically reduced to 4 kHz before the shutdown temperature is reached.



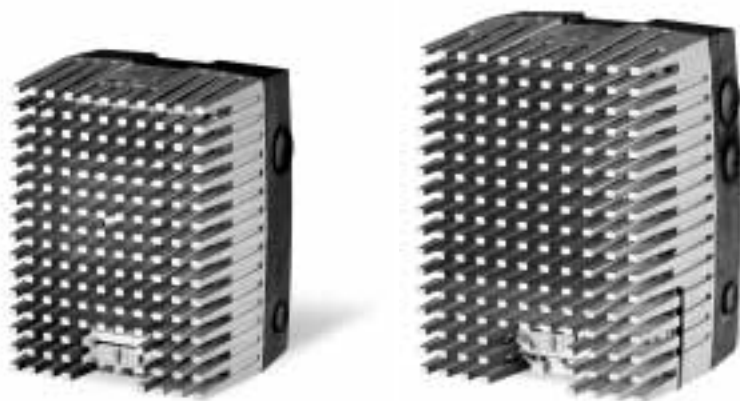
Rated data at mains voltage 400 V

| Typical motor power | P_r [kW] | 0.55 | 0.75 | 1.5 | 2.2 | |
|---|------------------------|--|--------------------|--------------------|--------------------|-----|
| Three-phase asynchronous motor (4-pole) | P_r [hp] | 0.75 | 1.0 | 2.0 | 3.0 | |
| 8200 motec type | | E82MV551_4B | E82MV751_4B | E82MV152_4B | E82MV222_4B | |
| Mains voltage | U_{mains} [V] | 3/PE AC 320 V - 0%...550 V + 0%; 45 Hz - 0%...65 Hz + 0% | | | | |
| Data for operation at 3/PE AC 400 V | | | | | | |
| Mains rated current | I_{mains} [A] | 1.8 | 2.4 | 3.8 | 5.5 | |
| Output power U, V, W (at 8 kHz) | S_r [kVA] | 1.3 | 1.7 | 2.7 | 3.9 | |
| Rated output current at switching frequency | 2 kHz | I_r [A] | 2.1 | 2.9 | 4.6 | 6.7 |
| | 4 kHz | | | | | |
| | 8 kHz | | | | | |
| | 16 kHz ²⁾ | | | | | |
| Max. permissible output current for 60 s at switching frequency ¹⁾ | 2 kHz | I_{max} [A] | 2.7 | 3.6 | 5.8 | 8.4 |
| | 4 kHz | | | | | |
| | 8 kHz | | | | | |
| | 16 kHz ²⁾ | | | | | |
| Output voltage | U_M [V] | 3~ 0 ... U_{mains} / 0 ... 650 Hz | | | | |
| Power loss (operation with I_r at 8 kHz) | P_v [W] | 35 | 45 | 70 | 95 | |
| Dimensions | H x W x D [mm] | 202 x 156 x 151 | | 230 x 176 x 167 | | |
| Weight | m [kg] | 2.8 | | 4.1 | | |

Bold print = Data for operation at a switching frequency of 8 kHz (Lenze setting)

¹⁾ Currents for periodic load change cycle: 1 min overcurrent duration at I_{max} and 2 min base load duration at 75% I_r

²⁾ For protection against shutdown due to impermissible temperature, the switching frequency is automatically reduced to 4 kHz before the shutdown temperature is reached.



8200 motec basic inverters

Operation at rated power (normal operation)

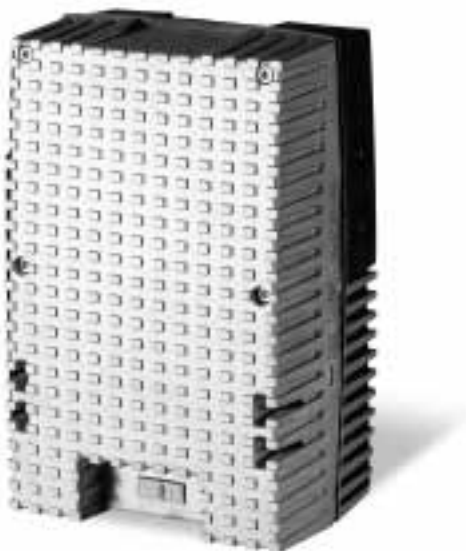
Rated data at mains voltage 400 V

| Typical motor power | P_r [kW] | 3.0 | 4.0 | 5.5 | 7.5 |
|---|------------------------|---|--------------------|--------------------|--------------------|
| Three-phase asynchronous motor (4-pole) | P_r [hp] | 4.1 | 5.4 | 7.5 | 10.2 |
| 8200 motec type | | E82MV302_4B | E82MV402_4B | E82MV552_4B | E82MV752_4B |
| Mains voltage | U_{mains} [V] | 3/PE AC 320 V - 0% ... 550 V + 0% ; 45 Hz - 0% ... 65 Hz + 0% | | | |
| Data for operation at 3/PE AC 400 V | | | | | |
| Mains rated current | I_{mains} [A] | 9.5 | 12.3 | 16.8 | 21.5 |
| Output power U, V, W (at 8 kHz) | S_r [kVA] | 5.1 | 6.6 | 9.0 | 11.4 |
| Rated output current at switching frequency | 2 kHz | I_r [A] | 8.8 | 11.4 | 15.6 |
| | 4 kHz | | | | |
| | 8 kHz | | | | |
| | 16 kHz ²⁾ | | | | |
| Max. permissible output current for 60 s at switching frequency ¹⁾ | 2 kHz | I_{max} [A] | 11.0 | 14.2 | 19.5 |
| | 4 kHz | | | | |
| | 8 kHz | | | | |
| | 16 kHz ²⁾ | | | | |
| Output voltage | U_M [V] | 3~ 0 ... U_{mains} / 0 ... 650 Hz | | | |
| Power loss (operation with I_r at 8 kHz) | P_v [W] | 140 | 180 | 230 | 290 |
| Dimensions | H x W x D [mm] | 325 x 213 x 163 (223) ³⁾ | | | |
| Weight | m [kg] | 9.7 (11.4) ³⁾ | | | |

¹⁾ Currents for periodic load change cycle: 1 min overcurrent duration at I_{max} and 2 min base load duration at 75% I_r

²⁾ For protection against shutdown due to impermissible temperature, the switching frequency is automatically reduced to 4 kHz before the shutdown temperature is reached.

³⁾ For wall mounting or with E82MV add-on module



Current derating

Depending on the operating conditions and the use of the 8200 motec, the rated output current may need to be derated on E82MV302_4B to EMV752_4B types if:

| 8200 motec mounted on... | Current derating |
|--|------------------|
| ...Lenze motor/geared motor with separate fan | Not required |
| ...Lenze motor/geared motor with integral fan | See Figure 1 |
| ...Lenze motor/geared motor with integral fan and E82ZMV add-on module | Not required |
| ... Third-party motor/geared motor ⇒ E82ZMV add-on module always required | Not required |
| ...The wall (wall mounting) ⇒ E82ZMV add-on module always required | Not required |

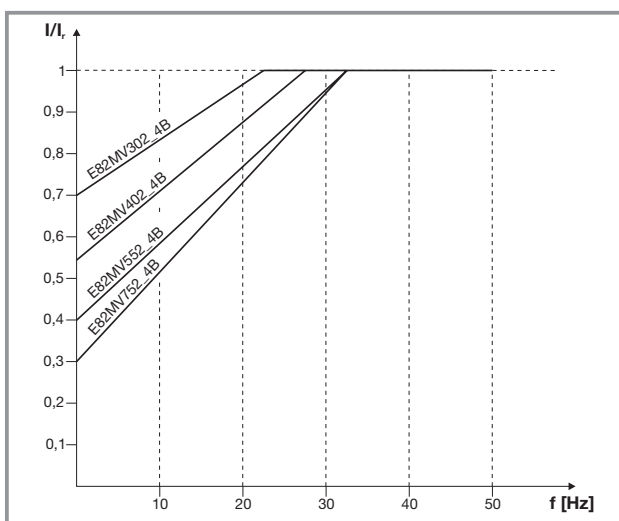


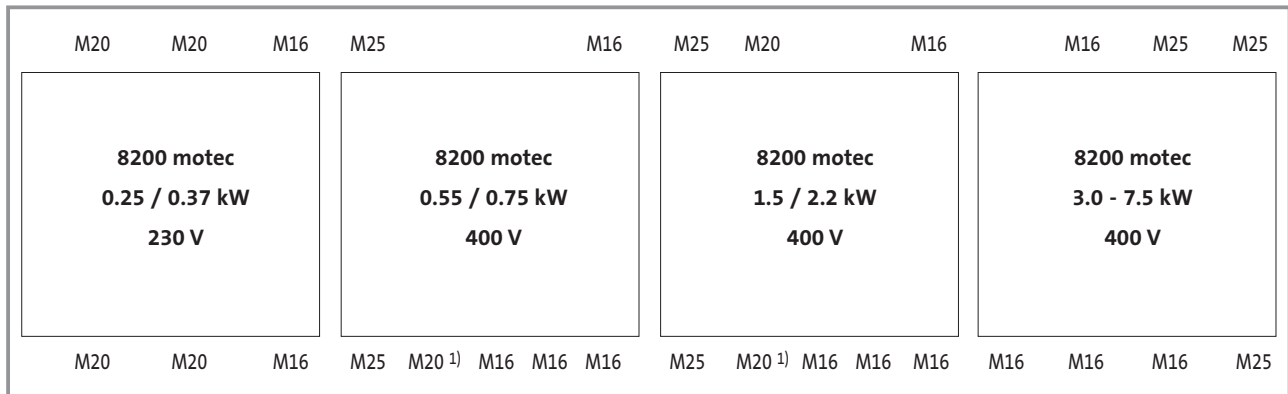
Figure 1:

Derating of rated output current in continuous operation at 40°C ambient temperature and switching frequency 4 kHz or at 35°C and 8 kHz.

- I Derated output current 8200 motec
- I_r Rated output current 8200 motec at 4 kHz/8 kHz switching frequency
- f Output frequency 8200 motec [Hz]

Note: Remember the torque derating on motors with integral fans.

View from above, carrier housing



– Features of metric cable glands

- ▶ With internal thread
- ¹⁾ Exception: no internal thread
- ▶ 8200 motec 0.55-2.2 kW with blanking plug
- ▶ 8200 motec 0.25-0.37 kW and 3.0-7.5 kW with rupture points



Function and communication modules

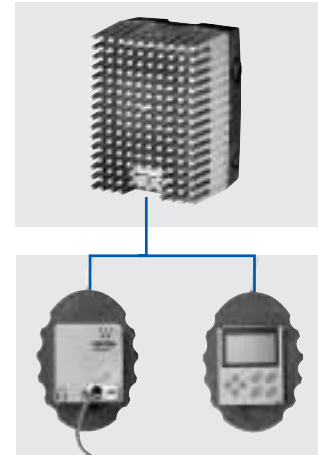
Lenze can provide a wide range of components for integration into the automation of the machine or system. The function modules and communication modules enable the inverter to be adapted according to the specific requirements of the application in terms of the number of digital and analog inputs and outputs and in terms of interfacing with the fieldbus.

The distributed drive components provide two interfaces, one for a communication module and the other for a function module. The possible combinations of function and communication modules are listed in the table on page 9-19. The use of the BUS I/O function module provides the 8200 motec with a further interface for an additional function module.

This makes it possible, for example, to operate the frequency inverter in parallel during simultaneous bus and I/O operation. This makes commissioning and diagnostics easier, in particular in complex applications (mixed fieldbus and I/O operation).

Connection communication module, e.g.

keypad
LECOM-A (RS232)

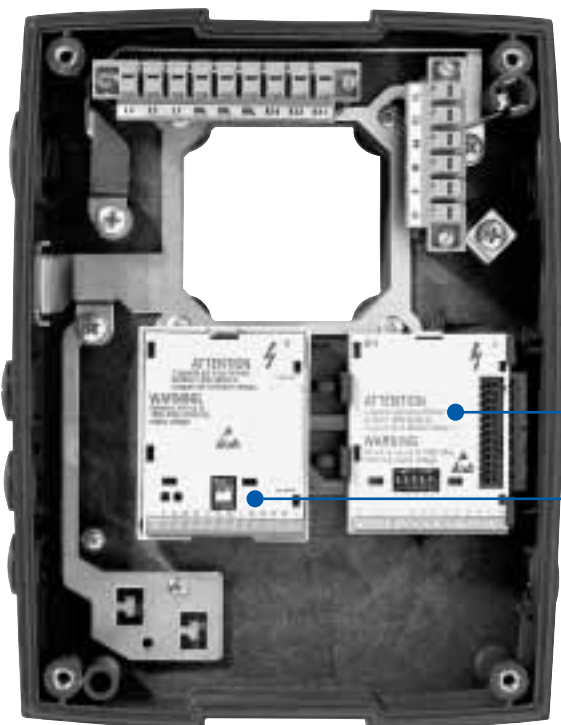


8200 motec Slot 1 e.g. for function module

- Standard I/O
- Application I/O
- BUS I/O
- CAN (system bus)
- CAN I/O (system bus)
- CANopen
- DeviceNet
- PROFIBUS-DP
- INTERBUS
- LECOM-B (RS485)
- AS-Interface

Slot 2 (only available if a BUS I/O is plugged into slot 1) e.g. for fieldbus function module

- CAN (system bus)
- PROFIBUS-DP
- INTERBUS
- LECOM-B (RS485)



Possible applications for function and communication modules in 8200 motec

| | | 8200 motec | 8200 motec with BUS I/O |
|------------------------------|-------------|------------|-------------------------|
| Communication modules | Type | | |
| Keypad | E82ZBB | ● | ● |
| Keypad XT | E82ZBBXC | ● | ● |
| LECOM-A RS232 | E82ZBL-C | ● | ● |
| Function modules | Type | | |
| Standard I/O | E82ZAFSC001 | ● | – |
| Application I/O | E82ZAFAC001 | ● | – |
| BUS I/O | E82ZAFBxx1 | ● | – |
| CAN (system bus) | E82ZAFCC001 | ● | ● |
| CAN I/O (system bus) | E82ZAFCC201 | ● | – |
| CANopen | E82ZAFUC001 | ● | ● |
| DeviceNet | E82ZAFVC001 | ● | ● |
| PROFIBUS-DP | E82ZAFPC001 | ● | ● |
| INTERBUS | E82ZAFIC001 | ● | ● |
| LECOM-B (RS485) | E82ZAFLC001 | ● | ● |
| AS-Interface | E82ZAFFC001 | ● | – |

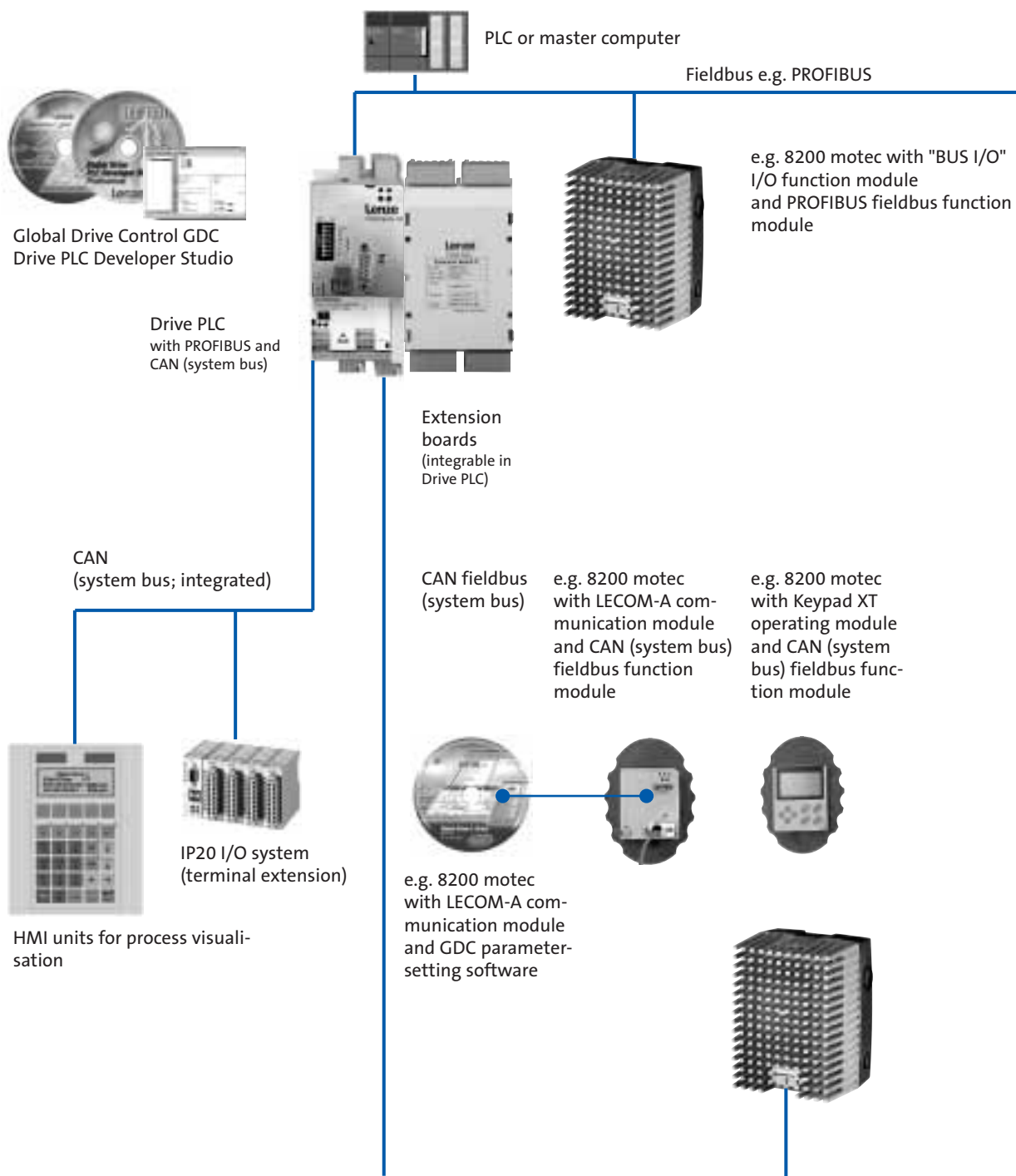
All function modules (with the exception of the BUS I/O module) can also be used in conjunction with the 8200 vector frequency inverter. The Keypad XT and Global Drive Control easy (GDC easy) PC software, which simplify and speed up the operation of the inverter by means of a simple menu structure and assisted dialogue boxes, are available for parameterisation and diagnostics.

Automation components

Bus-compatible HMI units which can be integrated into control cabinets are available in various sizes for the visualisation of inverter parameters and process data. The Drive PLC is a freely-programmable drive PLC operating in accordance with international standard EN 61131-3. In conjunction with the frequency inverter, it can be used to implement distributed control tasks. Extension boards can

be used to extend the input and output terminals on the Drive PLC.

The range is completed by bus-compatible, freely-programmable I/O terminals, which are used for interfacing sensors and actuators with the bus.

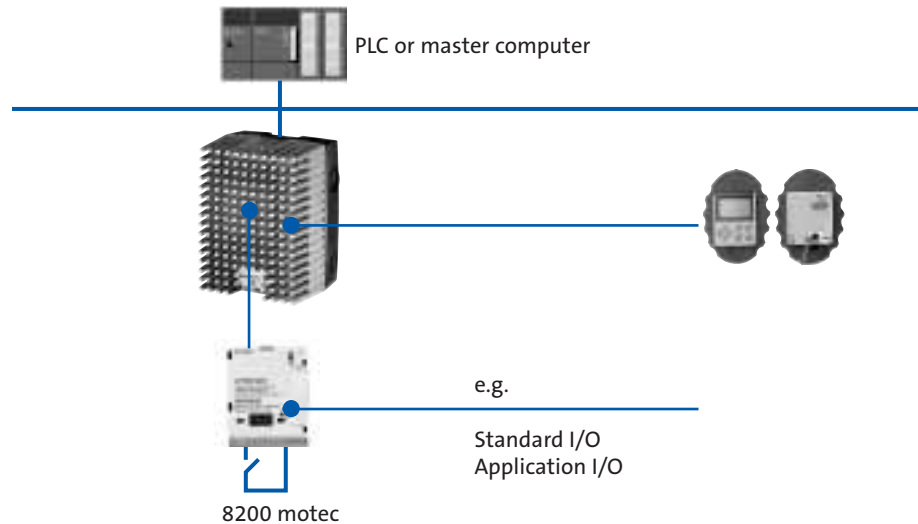


The large selection of function and communication modules enables a variety of operation and communication concepts to be set up to meet individual requirements. The

overview provides examples of options for control, operation and parameterisation:

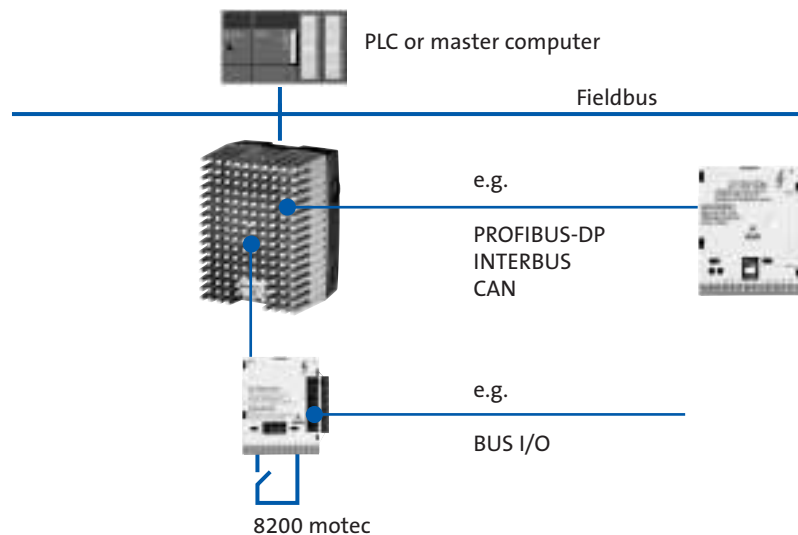
1.

Control and operation via keypad, RS232 (GDC) and/or control terminals



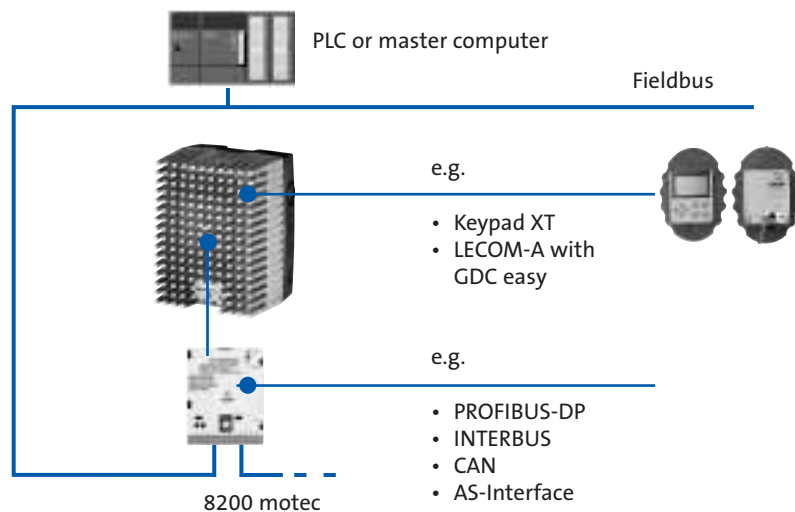
2.

Networking via fieldbus and open-loop/closed-loop control with digital and analog inputs and outputs



3.

Parameterisation and diagnostics during fieldbus operation



Keypad XT operating module

| | | |
|--|-----------|----------|
| Diagnosis terminal (complete with Keypad XT) | Order no. | E82ZBBXC |
| Diagnosis terminal (complete with keypad) | Order no. | E82ZBB |

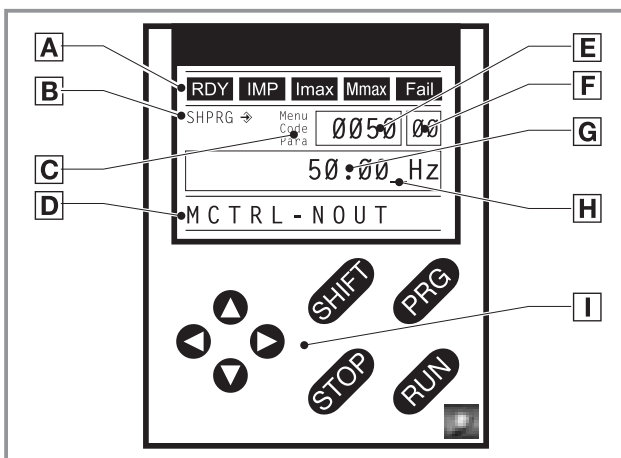
The Keypad XT is available for visualising operating parameters and parameter settings for the inverter. 8 keys and a text display provide quick and easy access to the inverter parameters via the transparent menu structure. The Keypad XT is also used for the purposes of status display and error diagnostics. In addition, its built-in memory can be used to transfer settings to other inverters.

To facilitate handling, the Keypad XT is installed in an ergo-

nomous diagnosis terminal. The Keypad XT is equally suitable for use on starttec, 8200 vector, 9300 vector, 9300 servo and Drive PLC devices.

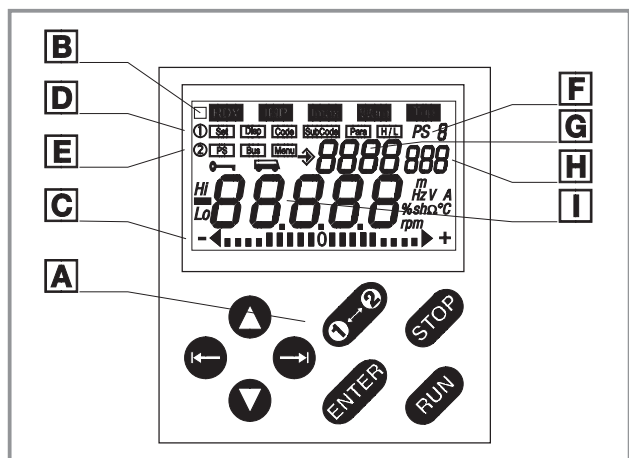
The keypad is suitable for installation in the control cabinet. The differences between the Keypad XT and keypad are listed in the "Features" overview.

A connecting cable is required for connection to the 8200 motec.



Keypad XT

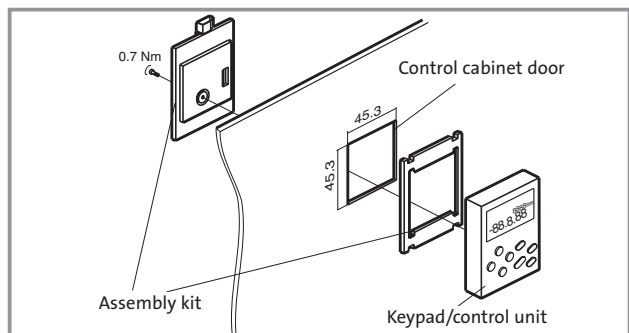
- A Status displays
- B Transfer parameters
- C Active level
- D Help text
- E Menu or code numbers
- F Menu or subcode numbers
- G Parameters
- H Cursor
- I Function keys



Keypad

- A Function keys
- B Status displays
- C Bar graph display
- D Function bar 1
- E Function bar 2
- F Parameters for modification
- G Code number
- H Subcode number
- I Parameter value with unit

Dimensions of assembly kit for control cabinet (keypad only)



Features

| | Keypad XT | Keypad |
|--|---|-----------------------------------|
| Plain text display | ● | |
| Menu structure | ● | |
| Predefined basic configuration | ● | |
| Text display | ● | ● |
| Control keys | 8 | 8 |
| Non-volatile memory for parameter transfer | ● | ● |
| Password protection | ● | ● |
| Control cabinet installation | | ● |
| Configurable menu ("user menu") | ● | ● |
| Application-specific menus | ● | |
| "Quick start" menu | ● | |
| Can be used with the | 8200 vector, 8200 motec, Drive PLC, 9300 vector, 9300 servo, starttec | 8200 vector, 8200 motec, starttec |
| Diagnosis terminal | ● | ● |
| Enclosure | IP20 | IP55 |



Diagnosis terminal with Keypad XT and connecting cable

| Additional accessories | Order no. |
|---|-----------|
| Keypad (without diagnosis terminal) ³⁾ | E82ZBC |
| Control cabinet assembly kit ²⁾ | E82ZBHT |
| 2.5 m connecting cable ¹⁾ | E82ZWL025 |
| 5 m connecting cable ¹⁾ | E82ZWL050 |
| 10 m connecting cable ¹⁾ | E82ZWL100 |

¹⁾ The connecting cable is required to connect the diagnosis terminal or control cabinet assembly kit to the 8200 motec.

²⁾ The additional control cabinet assembly kit is required if the keypad (E82ZBC version only) is to be installed in the door of the control cabinet (IP55 enclosure).

³⁾ Can only be used on the 8200 motec in conjunction with the E82ZBHT control cabinet assembly kit.

LECOM-A (RS232)

LECOM-A (RS232); complete with diagnosis terminal

Order no.

E82ZBL-C


Parameterisation made easy with the RS232 interface and Global Drive parameter-setting software.

This module provides a medium for communication in accordance with Lenze's LECOM protocol. This interface is used to set the parameters of the 8200 motec with the "Global Drive Control (GDC) easy" or "Global Drive Control" software.

Global Drive Control is based on familiar Windows technology and is very easy to use, thereby ensuring quick and safe commissioning.

A variety of monitors are also available for visualising process and control status, e.g. device utilisation. Additional connecting cables are required for connection to the 8200 motec and to the PC.

| | |
|--|--|
| Protocol | LECOM-AB V2.0 |
| Communication medium | RS232 (LECOM-A) |
| Transmission character format | 7-bit ASCII, 1 stop bit, 1 start bit, 1 parity bit (even) |
| Baud rate [bps] | 1200, 2400, 4800, 9600, 19200 |
| Network topology | Point-to-point |
| Max. no. of nodes | 1 |
| Max. cable length | 15 m |
| PC connection | 9-pin Sub-D socket |
| Insulation voltage to reference earth/PE | 50 V AC |
| Enclosure | IP20 |
| Ambient temperature | Operation: 0 ... +50°C Transport: -25 ... +70°C Storage: -25 ... +55°C |
| Humidity | Humidity class F without condensation (average relative humidity 85%) |

| Pin assignment 9-pin Sub-D socket | | | | Basic structure |
|-----------------------------------|-------------|--------------------------|---|--|
| Pin | Designation | Input (I)/ Output (O) | Explanation | |
| 1 | – | – | Not assigned |  <p>8200 motec</p> |
| 2 | RxD | I | "Data reception" cable | |
| 3 | TxD | O | "Data transmission" cable | |
| 4 | DTR | O | Transmission control | |
| 5 | GND | – | Reference potential | |
| 6 | DSR | I | Not assigned | |
| 7 | – | – | Not assigned | |
| 8 | – | – | Not assigned | |
| 9 | GND | | Reference potential for T/R (A), T/R (B) and +5 V | |



Diagnosis terminal with PC interface (RS232) (type E82ZBL-C) and RS232 PC system cable (EWL0048)

Additional connecting cables are required for connection to the 8200 motec and to the PC.

| Additional accessories | Order no. |
|--------------------------------------|-----------|
| 2.5 m connecting cable ¹⁾ | E82ZWL025 |
| 5 m connecting cable ¹⁾ | E82ZWL050 |
| 10 m connecting cable ¹⁾ | E82ZWL100 |
| 0.5 m RS232 PC system cable | EWL0048 |
| 5 m RS232 PC system cable | EWL0020 |
| 10 m RS232 PC system cable | EWL0021 |

¹⁾ The connecting cable is required to connect the diagnosis terminal or control cabinet assembly kit to the 8200 motec.

Parameterisation software Global Drive Control – GDC easy

| GDC easy | Order no. | ESP-GDC2-E |
|----------|-----------|------------|
| GDC | Order no. | ESP-GDC2 |

The Global Drive Control easy software is an easy-to-use, transparent tool for operating, parameterising and diagnosing 8200 frequency inverters like the 8200 motec.

Essential features include:

- ▶ Operation in interactive mode
- ▶ Monitor window for displaying operating parameters and diagnostics
- ▶ Extensive help functions
- ▶ Loading and saving of parameter files from and to the inverter
- ▶ Saving and printing out of parameter settings as code lists

One of the ways you can get Global Drive Control easy is to download it free of charge from the Internet at www.Lenze.com. Alternatively, you can contact your nearest Lenze representative.

It offers the following advantages:

- ▶ Easy, intuitive operation
- ▶ Even suitable for beginners
(no programming knowledge required)

Global Drive Control – GDC easy parameterisation software



The Global Drive Control parameterisation software features all the functions described here. If you simply wish to parameterise the frequency inverter, use Global Drive Control **easy**:

| Feature | GDC easy | GDC |
|--------------------------------------|-------------------|-----------------|
| Short set-up: | | |
| startec | ● | ● |
| 8200 | ● | ● |
| 8200 vector/motec | ● | ● |
| 9300 vector | | ● |
| 9300 servo | | ● |
| Technology functions ¹⁾ | | ● |
| Code lists | ● | ● |
| Monitor window | ● | ● |
| Function block editor | | ● |
| Oscilloscope functions ²⁾ | | ● |
| Order number: | ESP-GDC2-E | ESP-GDC2 |

¹⁾ For 9300 servo devices

²⁾ For 9300 devices

GDC (easy) system requirements

Hardware:

- IBM-AT or compatible PC
- CPU
 - Pentium 90 or higher
- RAM
 - 64 MB
- At least 120 MB free hard disk space
- Super VGA graphics card
- CD-ROM drive
- One free serial interface for RS232 or one free parallel interface for system bus adapter (CAN)

Software:

- Windows 95/98/Me/NT 4.0/2000/XP

Standard I/O

| | | |
|--------------|-----------|-------------|
| Standard I/O | Order no. | E82ZAFSC001 |
|--------------|-----------|-------------|

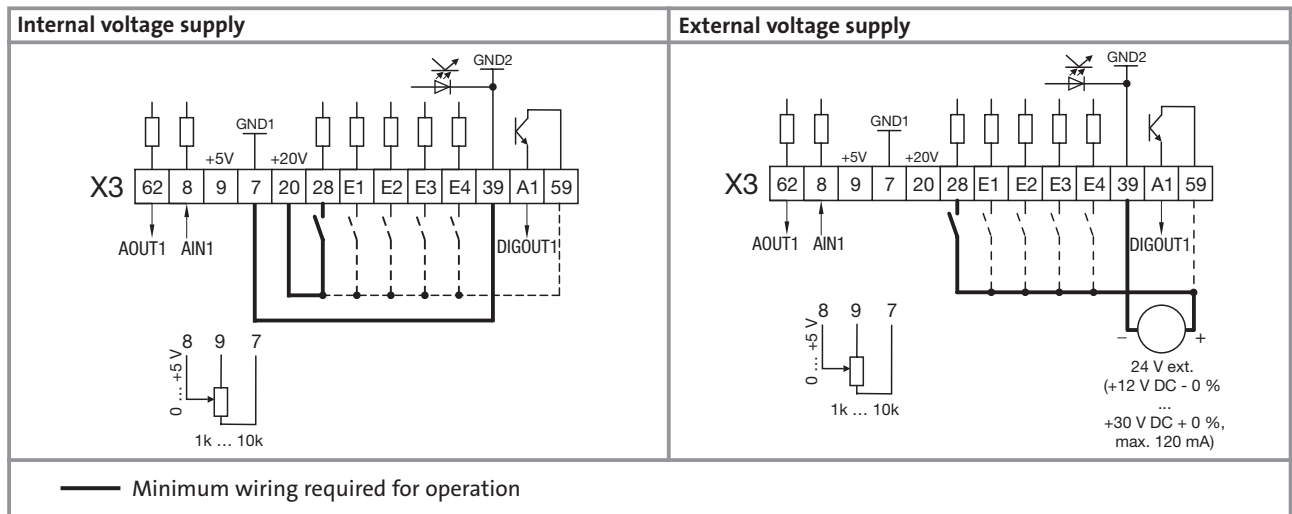
The "standard I/O" I/O function module provides the inverter with digital inputs and outputs for standard applications. The function module is installed in the carrier housing of the 8200 motec.

Available input/output terminals

| Analog IN | Analog OUT | Digital IN | Digital OUT |
|-----------|------------|-----------------|-------------|
| 1 | 1 | 4 ¹⁾ | 1 |

¹⁾ Optional frequency input 0...10 kHz single-track (via I1) or 0...1 kHz two-track (via I1 and I2) 8200 motec E82MVxxx_XXXXXXxx2x or later





Terminal assignment



Standard I/O

| X3 | Signal type | Function (bold = Lenze setting) | Level | Technical data | | |
|------------------|---------------------------------|---|---|--|----|--|
| 8 | Analog input | Actual or setpoint input | 0 ... +5 V 0 ... +10 V -10 V ... +10 V 0 ... +20 mA +4 ... +20 mA +4 ... +20 mA (open-circuit-monitored) | Resolution: 10 bits Linearity error: ±0.5% Temperature error: 0.3% (0 ... +60°C) Input resistance – Voltage signal: > 50 kΩ – Current signal: 250 Ω | | |
| 62 | Analog output | Output frequency | 0 ... +10 V | Resolution: 10 bits Linearity error: ±0.5% Temperature error: 0.3% (0 ... +60°C) Load capacity: Max. 2 mA | | |
| 28 | | Controller inhibit | 1 = START | | | |
| I1 ¹⁾ | Digital inputs | Activation of fixed frequencies (JOG) JOG1 = 20 Hz JOG2 = 30 Hz JOG3 = 40 Hz | | I1 | I2 | Input resistance: 3.3 kΩ 1 = High (+12...+30 V) 0 = Low (0...+3 V) (PLC level, HTL) |
| I2 ¹⁾ | | | JOG1 | 1 | 0 | |
| | | | JOG2 | 0 | 1 | |
| | | | JOG3 | 1 | 1 | |
| I3 | | DC injection brake (DCB) | 1 = DCB active | | | |
| I4 | Reversal CW/CCW rotation | | I4 | | | |
| | | CW | 0 | | | |
| | | CCW | 1 | | | |
| O1 | Digital output | Ready for operation | 0/+20 V at DC internal 0/+24 V at DC external | Load capacity: 10 mA 50 mA | | |
| 9 | | Internal, stabilised DC-voltage source for setpoint potentiometer | +5.2 V (reference: X3/7) | Load capacity: max. 10 mA | | |
| 20 | | Internal DC voltage source for controlling digital inputs and outputs | +20 V ±10% (reference: X3/7) | Max. load capacity: ∑ I = 40 mA | | |
| 59 | | DC supply for O1 | +20 V (internal, bridge to X3/20) +24 V (external) | | | |
| 7 | | GND1, reference potential for analog signals | | Isolated from GND2 | | |
| 39 | | GND2, reference potential for digital signals | | Isolated from GND1 | | |

¹⁾ Optional frequency input 0...10 kHz single-track (via I1) or 0...1 kHz two-track (via I1 and I2) 8200 motec E82MVxxx_XXXXXXx2x or later

| Electrical connection | Screw terminals |
|---------------------------|---|
| Connection options |  Rigid: 1.5 mm ² (AWG 16) |
| | Flexible: |
| |  1.0 mm ² (AWG 18) without wire end ferrule |
| |  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve |
| |  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |

Application I/O

| | | |
|-----------------|-----------|-------------|
| Application I/O | Order no. | E82ZAFAC001 |
|-----------------|-----------|-------------|

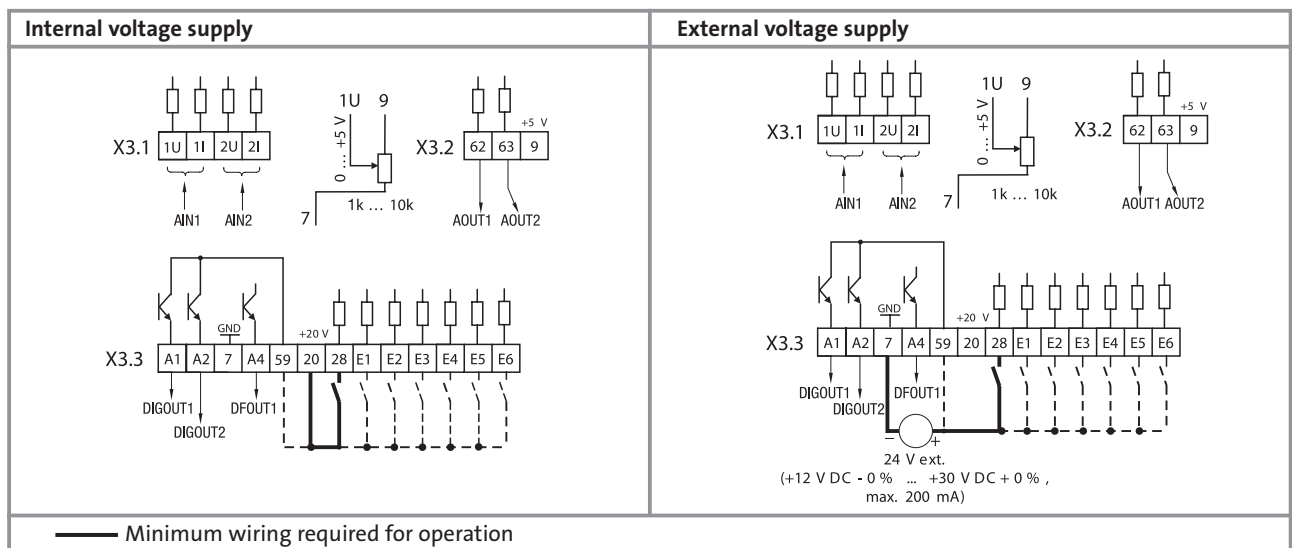
The "standard I/O" I/O function module provides the inverter with digital inputs and outputs for standard applications. The function module is installed in the carrier housing of the 8200 motec.

Available input/output terminals

| Analog IN | Analog OUT | Digital IN | Digital OUT | Frequency OUT |
|-----------|------------|-----------------|-------------|---------------|
| 2 | 2 | 6 ¹⁾ | 2 | 1 |

¹⁾ Optionally contains 1 frequency input (0...102.4 kHz, single-track or two-track)





Terminal assignment



Application I/O

| X3 | Signal type | Function (bold = Lenze setting) | Level | Technical data | | |
|------------------|------------------------|---|---|--|---|---|
| 1U/ 2U | Analog inputs | Actual or setpoint inputs (master voltage) | 0 ... +5 V 0 ... +10 V -10 V ... +10 V | Resolution: 10 bits Linearity error: ±0.5% | | |
| 1I/2I | | Actual or setpoint inputs (master current) | 0 ... +20 mA +4 ... +20 mA +4 ... +20 mA (open-circuit-monitored) | Input resistance – Voltage signal: > 50 kΩ – Current signal: 250 Ω | | |
| 62 | Analog outputs | Output frequency | 0 ... +10 V 0 ... +20 mA +4 ... +20 mA | Resolution: 10 bits Linearity error: ±0.5% Temperature error: 0.6% (0 ... +60°C) | | |
| 63 | | Motor current | | Load capacity: (0...+10 V): max. 2 mA RL (0/4...20 mA) ≤ 500 Ω | | |
| 28 | | Controller inhibit | 1 = START | | | |
| 1I ¹⁾ | Digital inputs | Activation of fixed frequencies (JOG) | | Input resistance: 3.2 kΩ 1 = High (+12...+30 V) 0 = Low (0...+3 V) (PLC level, HTL) | | |
| 12 ¹⁾ | | JOG1 = 20 Hz | JOG1 | | 1 | 0 |
| | | JOG2 = 30 Hz | JOG2 | | 0 | 1 |
| | | JOG3 = 40 Hz | JOG3 | | 1 | 1 |
| 13 | | DC injection brake (DCB) | 1 = DCB active | | | |
| 14 | Reversal | | I4 | | | |
| | CW/CCW rotation | CW | 0 | | | |
| | | CCW | 1 | | | |
| 15 | | Not preconfigured | | | | |
| 16 | | Not preconfigured | | | | |
| O1 | Digital outputs | Ready for operation | | Load capacity: 10 mA 50 mA | | |
| O2 | | Not preconfigured | 0/+20 V at DC internal 0/+24 V at DC external | | | |
| O4 | Frequency output | DC bus voltage | HIGH: +18 V ... +24 V (HTL) LOW: 0 V | 0.05 kHz ...10 kHz Load capacity: max. 8 mA | | |
| 9 | | Internal, stabilised DC-voltage source for setpoint potentiometer | +5.2 V | Load capacity: max. 5 mA | | |
| 20 | | Internal DC voltage source for controlling digital inputs and outputs | +20 V ±10% | Load capacity: max. 60 mA | | |
| 59 | | DC supply for X3/O1 and X3/O2 | +20 V (internal, bridge to X3/20) +24 V (external) | | | |
| 7 | | GND, reference potential | | | | |

¹⁾ Optional frequency input 0 ... 102.4 kHz, single-track or two-track

| Electrical connection | Screw terminals |
|---------------------------|---|
| Connection options |  Rigid: 1.5 mm ² (AWG 16) |
| | Flexible: |
| |  1.0 mm ² (AWG 18) without wire end ferrule |
| |  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve |
| |  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |

BUS I/O

| | | | |
|---------|--|-----------|------------|
| BUS I/O | - Can be used in 8200 motec 0.25 - 0.37 kW | Order no. | E82ZMFB001 |
| | - Can be used in 8200 motec 0.55 - 2.2 kW | Order no. | E82ZAFB001 |
| | - Can be used in 8200 motec 3.0 - 7.5 kW | Order no. | E82ZAFB201 |

The "BUS I/O" I/O function module provides the inverter with digital inputs and outputs for standard applications. Fieldbus communication is also possible in conjunction with a fieldbus function module. The function module is installed in the carrier housing of the 8200.

Note:

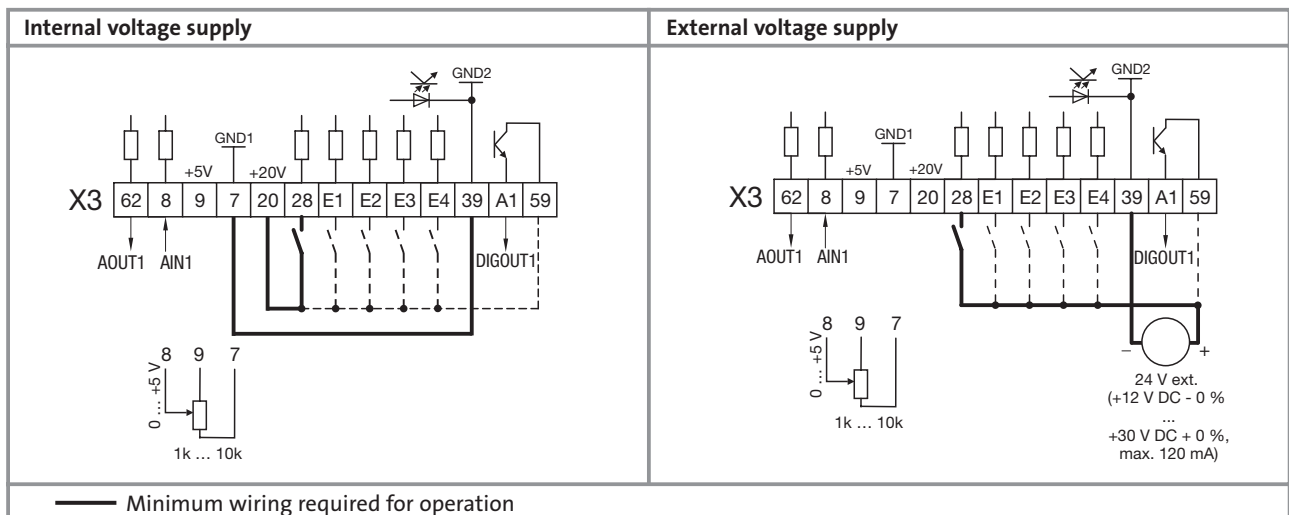
- Please note change in overall height on BUS I/O for 0.25/0.37 kW.
- When ordering the BUS I/O, always add a fieldbus function module to your order.

Available input/output terminals

| Analog IN | Analog OUT | Digital IN | Digital OUT |
|-----------|------------|-----------------|-------------|
| 1 | 1 | 4 ¹⁾ | 1 |

¹⁾ Optional frequency input 0...10 kHz single-track (via I1) or 0...1 kHz two-track (via I1 and I2) 8200 motec E82MVxxx_xxxxxXXxx2x or later (please note dimension g₁ in the dimensions tables for geared motors).

Terminal assignment



| Electrical connection | Screw terminals |
|-----------------------|---|
| Connection options | Rigid: 1.5 mm ² (AWG 16) |
| | Flexible: |
| | 1.0 mm ² (AWG 18) without wire end ferrule |
| | 0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve |
| | 0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |



BUS I/O

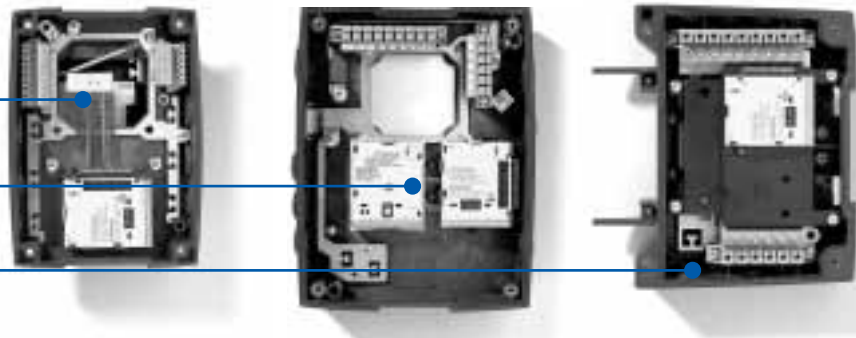
| X3 | Signal type | Function (bold = Lenze setting) | Level | Technical data | | |
|------------------|----------------|---|---|--|--------------------------------------|----|
| 8 | Analog input | Actual or setpoint input | 0 ... +5 V 0 ... +10 V -10 V ... +10 V 0 ... +20 mA +4 ... +20 mA +4 ... +20 mA (open-circuit-monitored) | Resolution: 10 bits Linearity error: ±0.5% Temperature error: 0.3% (0 ... +60°C) Input resistance – Voltage signal: > 50 kΩ – Current signal: 250 Ω | | |
| 62 | Analog output | Output frequency | 0 ... +10 V | Resolution: 10 bits Linearity error: ±0.5% Temperature error: 0.3% (0 ... +60°C) Load capacity: Max. 2 mA | | |
| 28 | | Controller inhibit | 1 = START | Input resistance: 3.3 kΩ 1 = High (+12...+30 V) 0 = Low (0...+3 V) (PLC level, HTL) | | |
| I1 ¹⁾ | Digital inputs | Activation of fixed frequencies (JOG) | | | I1 | I2 |
| I2 ¹⁾ | | JOG1 = 20 Hz | JOG1 | | 1 | 0 |
| | | JOG2 = 30 Hz | JOG2 | | 0 | 1 |
| | | JOG3 = 40 Hz | JOG3 | | 1 | 1 |
| I3 | | DC injection brake (DCB) | 1 = DCB active | | | |
| I4 | | Reversal CW/CCW rotation | | I4 | | |
| | | | CW | 0 | | |
| | | | CCW1 | 1 | | |
| O1 | Digital output | Ready for operation | 0/+20 V at DC internal 0/+24 V at DC external | | Load capacity: 10 mA 50 mA | |
| 9 | | Internal, stabilised DC-voltage source for setpoint potentiometer | +5.2 V (reference: X3/7) | | Load capacity: max. 10 mA | |
| 20 | | Internal DC voltage source for controlling digital inputs and outputs | +20 V ±10% (reference: X3/7) | | Max. load capacity: $\sum I = 40$ mA | |
| 59 | | DC supply for O1 | +20 V (internal, bridge to X3/20) +24 V (external) | | | |
| 7 | | GND1, reference potential for analog signals | | | Isolated from GND2 | |
| 39 | | GND2, reference potential for digital signals | | | Isolated from GND1 | |

¹⁾ Optional frequency input 0...10 kHz single-track (via I1) or 0...1 kHz two-track (via I1 and I2) 8200 motec E82MVxxx_xxxxxXxx2x or later

Use of E82ZMFB001
in 8200 motec 0.25-0.37 kW

Use of E82ZAFB001
in 8200 motec 0.55-2.2 kW

Use of E82ZAFB201
in 8200 motec 3.0-7.5 kW



CAN (system bus)

| | | |
|------------------|-----------|-------------|
| CAN (system bus) | Order no. | E82ZAFCC001 |
|------------------|-----------|-------------|

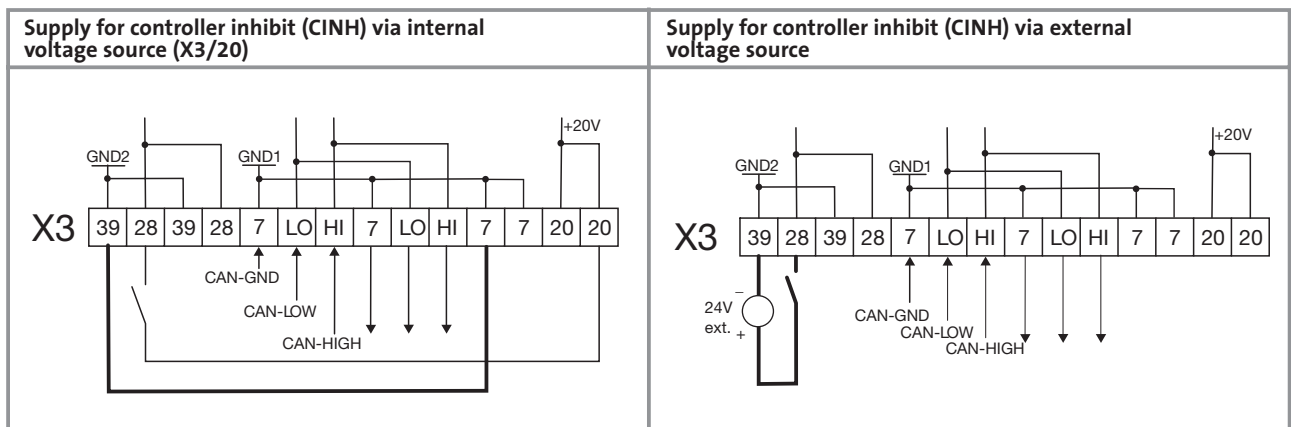
The CAN (system bus) fieldbus function module can be used to interface the 8200 motec with the CAN (Controller Area Network) serial communication system.

The function module enables the 8200 motec to perform additional functions, including:

- ▶ Parameter preselection/Remote parameter setting
- ▶ Data transfer between inverters
- ▶ Connection to external controllers (e.g. Drive PLC) and host systems
- ▶ Optional connection to:
 - IP20 I/O system (see also page 9-62)
 - Operator and input devices





Terminal assignment

| X3/ | Designation | Function | Level |
|-----|-------------|--|---|
| 39 | GND2 | Reference potential 2 (only for X3/28) | |
| 28 | CINH | Controller inhibit | <ul style="list-style-type: none"> • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 V ... +3 V) |
| 7 | GND1 | Reference potential 1 | |
| LO | CAN-LOW | System bus LOW (data line) | |
| HI | CAN-HIGH | System bus HIGH (data line) | |
| 20 | | Internal DC voltage source for supply of controller inhibit (CINH) | + 20 V (reference: X3/7) |



CAN (system bus)

General data and operating conditions

| | | | | | |
|--|---|------|-----|-----|-----|
| Communication medium | DIN ISO 11898 | | | | |
| Communication profile | Based on CANopen (CiA DS301) | | | | |
| Network topology | Line (terminated at both ends with 120 Ω) | | | | |
| System bus nodes | Master or slave | | | | |
| Max. no. of nodes | 63 | | | | |
| Baud rate [kbps] | 20 | 50 | 125 | 250 | 500 |
| Max. bus length [m] ¹⁾ | 3910 | 1510 | 590 | 250 | 80 |
| No. of. logical process data channels | 2 | | | | |
| No. of. logical parameter data channels | 2 | | | | |
| Electrical connection | Screw terminals | | | | |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) Flexible:  1.0 mm ² (AWG 18) without wire end ferrule  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve | | | | |
| DC voltage supply for function module | Internal | | | | |
| Insulation voltage to reference earth/PE | 50 V AC | | | | |
| Ambient temperature | Operation: -20 ... +60°C Transport: -25 ... +70°C Storage: -25 ... +60°C | | | | |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | | | | |

¹⁾ You should be aware of the additional effect of the number of nodes and the cable cross-section used on the maximum bus cable lengths.

Note:

The scope of supply includes two bus terminating resistors (120 Ω).

Wiring instructions

We recommend the following signal cable is used for wiring:

| System bus cable specification | Total length up to 300 m | Total length up to 1000 m |
|--------------------------------|--|---|
| Cable type | LIYCY 2 x 2 x 0.5 mm ² (shielded twisted pairs) | CYPIMF 2 x 2 x 0.5 mm ² (shielded twisted pairs) |
| Specific resistance | ≤ 40 Ω/km | ≤ 40 Ω/km |
| Capacitance per unit length | ≤ 130 nF/km | ≤ 60 nF/km |
| Connection | Pair 1 (white/brown): CAN-LOW and CAN-HIGH Pair 2 (green/yellow): CAN-GND | |

CAN I/O (system bus)

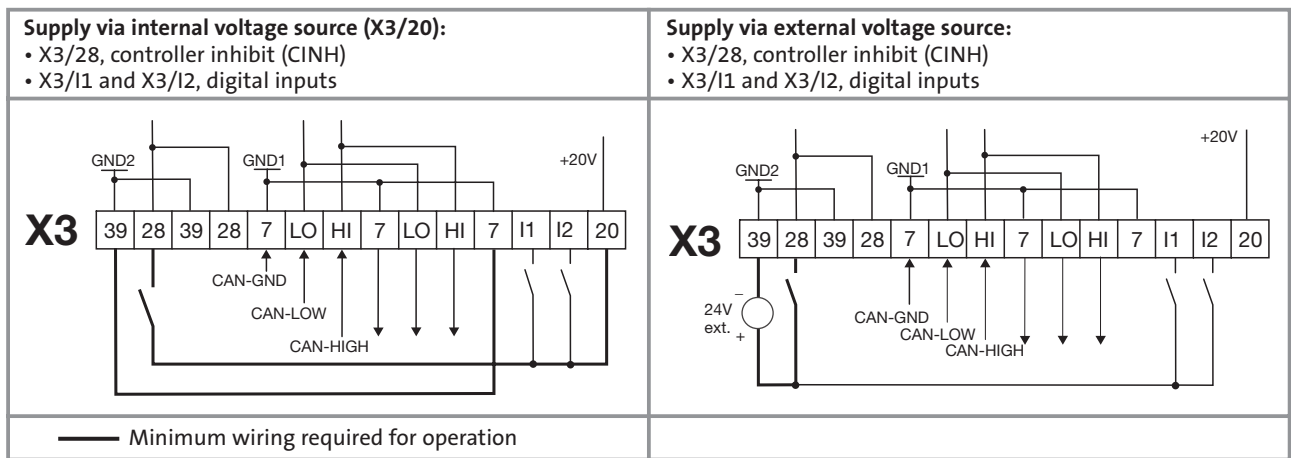
| | | |
|---------|-----------|-------------|
| CAN I/O | Order no. | E82ZAFCC201 |
|---------|-----------|-------------|

The CAN I/O (system bus) fieldbus function module can be used to interface the 8200 motec with the CAN (Controller Area Network) serial communication system. The module has two freely-programmable digital inputs for activating the controller inhibit via a digital signal and two more freely-assignable signals. Furthermore, the node address and baud rate can be preset easily via DIP switches.

The function module enables the 8200 motec to perform additional functions, including:





- ▶ Parameter preselection/Remote parameter setting
- ▶ Data transfer between inverters
- ▶ Connection to external controllers (e.g. Drive PLC) and host systems
- ▶ Optional connection to:
 - IP20 I/O system (see also page 9-62)
 - Operator and input devices

| X3/ | Designation | Function | Level |
|-----|----------------|---|---|
| 39 | GND2 | Reference potential 2, controller inhibit (CINH) on X3/28 | |
| 28 | CINH | Controller inhibit | <ul style="list-style-type: none"> • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 V ... +3 V) |
| 7 | GND1 | Reference potential 1 | |
| LO | CAN-LOW | System bus LOW (data line) | |
| HI | CAN-HIGH | System bus HIGH (data line) | |
| I1 | Digital inputs | User-defined | 0 = LOW (0 ... +3 V) 1 = HIGH (+12 ... +30 V) (reference: GND1) |
| I2 | | | |



CAN I/O (system bus)

General data and operating conditions

| | | | | | |
|--|--|------|-----|-----|-----|
| Communication medium | DIN ISO 11898 | | | | |
| Communication profile | Based on CANopen (CiA DS301) | | | | |
| Network topology | Line (terminated at both ends with 120 Ω) | | | | |
| System bus nodes | Master or slave | | | | |
| Max. no. of nodes | 63 | | | | |
| Baud rate [kbps] | 20 | 50 | 125 | 250 | 500 |
| Max. bus length [m] ¹⁾ | 3910 | 1510 | 590 | 250 | 80 |
| No. of logical process data channels | 2 | | | | |
| No. of logical parameter data channels | 2 | | | | |
| Electrical connection | Screw terminals | | | | |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) | | | | |
| | Flexible: | | | | |
| |  1.0 mm ² (AWG 18) without wire end ferrule | | | | |
| |  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve | | | | |
| DC voltage supply for function module | Internal | | | | |
| Insulation voltage to reference earth/PE | 50 V AC | | | | |
| Ambient temperature | Operation: -20 ... +60°C Transport: -25 ... +70°C Storage: -25 ... +60°C | | | | |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | | | | |

¹⁾ You should be aware of the additional effect of the number of nodes and the cable cross-section used on the maximum bus cable lengths.

Note:

The scope of supply includes two bus terminating resistors (120 Ω).

Wiring instructions

We recommend the following signal cable is used for wiring:

| System bus cable specification | Total length up to 300 m | Total length up to 1000 m |
|--------------------------------|--|--|
| Cable type | LIYCY 2 x 2 x 0.5 mm ² (shielded twisted pairs) | CYPIMF 2 x 2 x 0.5 mm ² (shielded twisted pairs) |
| Specific resistance | ≤ 40 Ω/km | ≤ 40 Ω/km |
| Capacitance per unit length | ≤ 130 nF/km | ≤ 60 nF/km |
| Connection | Pair 1 (white/brown): CAN-LOW and CAN-HIGH Pair 2 (green/yellow): CAN-GND | |

CANopen

| | | |
|---------|-----------|-------------|
| CANopen | Order no. | E82ZAFUC001 |
|---------|-----------|-------------|

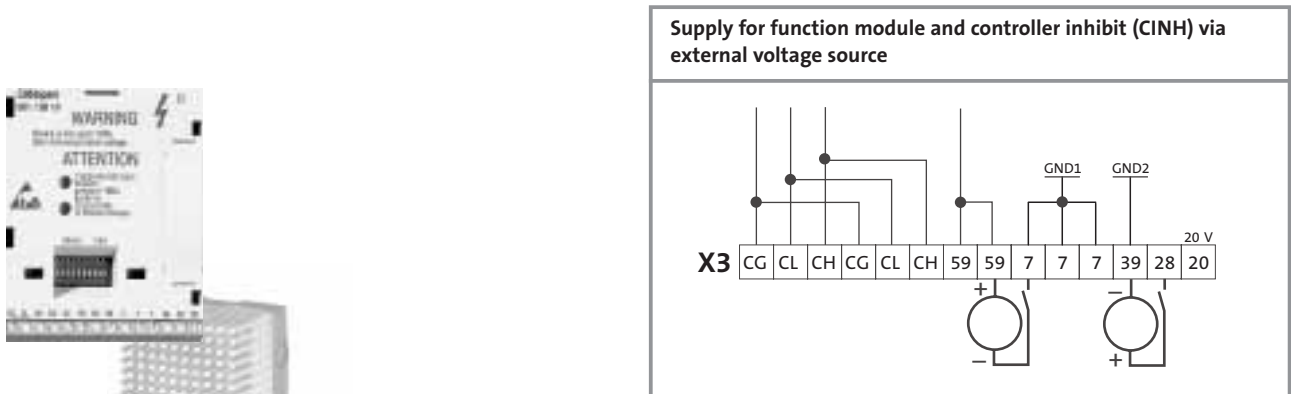
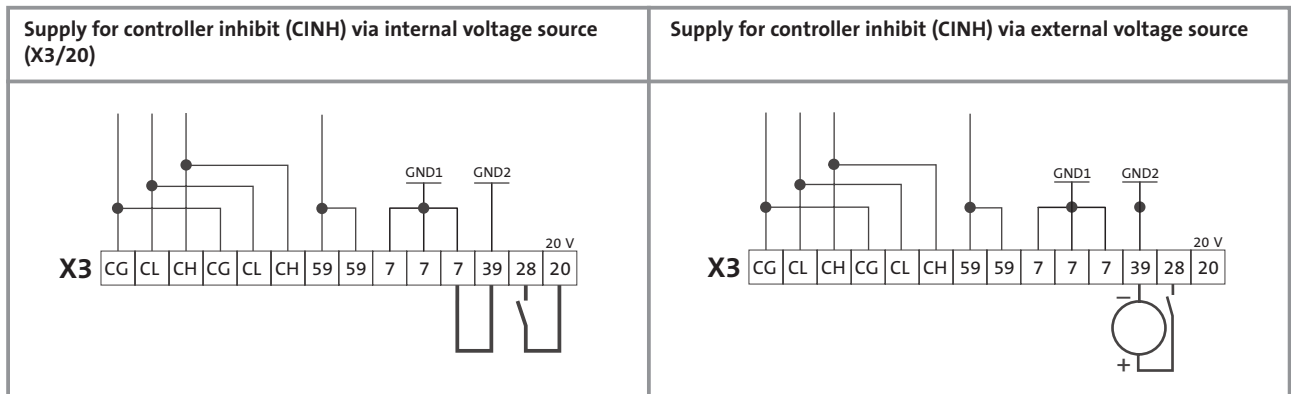
The CANopen fieldbus function module can be used to interface the 8200 motec with the serial CAN communication system running communication profile DS 301. The node address and baud rate can be preset easily via DIP switches.

The function module enables the 8200 motec to perform additional functions, including:

- ▶ Parameter preselection/Remote parameter setting
- ▶ Interface with external control systems





Terminal assignment

| X3/ | Designation | Function | Level |
|-----|-------------|--|---|
| CG | CAN-GND | Reference potential for CAN | |
| CL | CAN-LOW | CAN data line (LOW) | |
| CH | CAN-HIGH | CAN data line (HIGH) | |
| 59 | | External supply voltage | Please follow the instructions for external supplies! |
| 7 | GND1 | Reference potential for X3/20, X3/59 | |
| 39 | GND2 | Reference potential, controller inhibit (CINH) on X3/28 | |
| 28 | CINH | Controller inhibit | <ul style="list-style-type: none"> • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 V ... +3 V) |
| 20 | | DC voltage source for internal supply for controller enable (CINH) | + 20 V (reference: GND1) |



CANopen

General data and operating conditions

| | | | | | | | |
|--|---|------|-----|-----|-----|------|--|
| Communication medium | DIN ISO 11898 | | | | | | |
| Communication profile | CiA DS301 V4.02 | | | | | | |
| Network topology | Line (terminated at both ends with 120 Ω) | | | | | | |
| System bus nodes | Master or slave | | | | | | |
| Max. no. of nodes | 63 | | | | | | |
| Baud rate [kbps] | 20 | 50 | 125 | 250 | 500 | 1000 | |
| Max. bus length [m] ¹⁾ | 3934 | 1534 | 614 | 274 | 104 | 9 | |
| No. of logical process data channels | 4 | | | | | | |
| No. of logical parameter data channels | Either 1 or 2 | | | | | | |
| Electrical connection | Screw terminals | | | | | | |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) Flexible:  1.0 mm ² (AWG 18) without wire end ferrule  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve | | | | | | |
| DC voltage supply for function module | Internal | | | | | | |
| Insulation voltage to reference earth/PE | 50 V AC | | | | | | |
| Ambient temperature | Operation: -20 ... +60°C Transport: -25 ... +70°C Storage: -25 ... +60°C | | | | | | |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | | | | | | |

¹⁾ You should be aware of the additional effect of the number of nodes and the cable cross-section used on the maximum bus cable lengths.

Note:

The scope of supply includes two bus terminating resistors (120 Ω).

Wiring instructions

We recommend the following signal cable is used for wiring:

| System bus cable specification | Total length up to 300 m | Total length up to 1000 m |
|--------------------------------|--|--|
| Cable type | LIYCY 2 x 2 x 0.5 mm ² (shielded twisted pairs) | CYPIMF 2 x 2 x 0.5 mm ² (shielded twisted pairs) |
| Specific resistance | ≤ 40 Ω/km | ≤ 40 Ω/km |
| Capacitance per unit length | ≤ 130 nF/km | ≤ 60 nF/km |
| Connection | Pair 1 (white/brown): CAN-LOW and CAN-HIGH Pair 2 (green/yellow): CAN-GND | |

DeviceNet

| | | |
|-----------|-----------|-------------|
| DeviceNet | Order no. | E82ZAFVC001 |
|-----------|-----------|-------------|

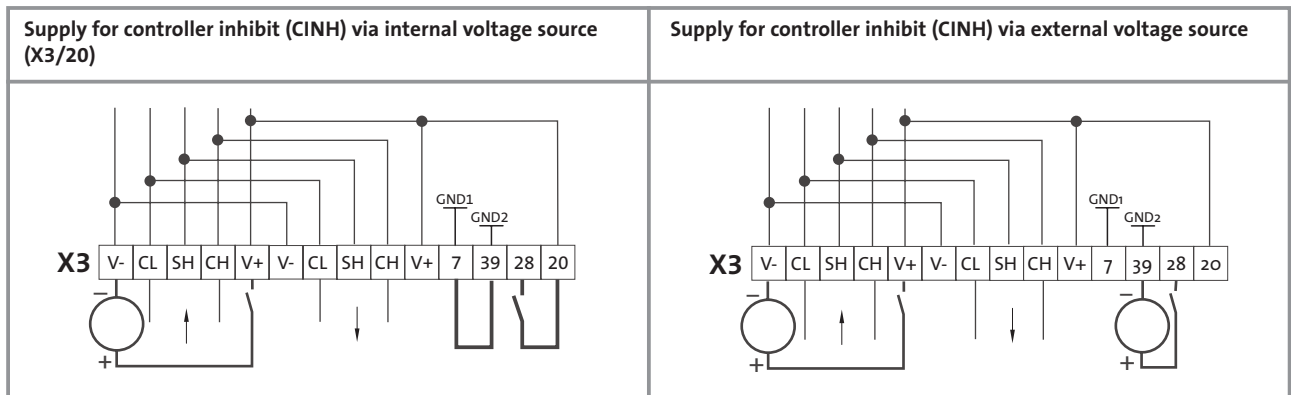
The DeviceNet fieldbus function module can be used to interface the 8200 motec with the DeviceNet serial communication system, which has been particularly successful in the American and Asian markets. The node address and baud rate can be preset easily via DIP switches.

The function module enables the 8200 motec to perform additional functions, including:

- ▶ Parameter preselection/Remote parameter setting
- ▶ Interface with external control systems

Terminal assignment

| X3/ | Designation | Function | Level |
|-----|-------------|--|---|
| V- | | Reference potential for external supply voltage | |
| CL | CAN-LOW | CAN data line (LOW) | |
| SH | SHIELD | Shield | |
| CH | CAN-HIGH | CAN data line (HIGH) | |
| V+ | | External supply voltage | Please follow the instructions for external supplies! |
| 7 | GND1 | Reference potential for X3/20, X3/59 | |
| 39 | GND2 | Reference potential, controller inhibit (CINH) on X3/28 | |
| 28 | CINH | Controller inhibit | <ul style="list-style-type: none"> • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 V ... +3 V) |
| 20 | | DC voltage source for internal supply for controller enable (CINH) | + 20 V (reference: GND1) |







— Minimum wiring required for operation



DeviceNet

General data and operating conditions

| | | | |
|--|---|------------|-------------|
| Communication medium | DIN ISO 11898 | | |
| Communication profile | DeviceNet | | |
| Network topology | Line (terminated at both ends with 120 Ω) | | |
| System bus nodes | Master or slave | | |
| Max. no. of nodes | 63 | | |
| Baud rate [kbps] | Baud rate (kbps) | Thin cable | Thick cable |
| | 125 | 100 m | 500 M |
| | 250 | | 250 m |
| Max. bus length [m] ¹⁾ | 500 | | 100 m |
| | 16 | | |
| Process data words (PCD) (16 bits) | 16 | | |
| Electrical connection | Screw terminals | | |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) | | |
| | Flexible: | | |
| |  1.0 mm ² (AWG 18) without wire end ferrule | | |
| |  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve | | |
| |  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve | | |
| DC voltage supply for function module | Internal | | |
| Insulation voltage to reference earth/PE | 50 V AC | | |
| Ambient temperature | Operation: -20 ... +60°C Transport: -25 ... +70°C Storage: -25 ... +60°C | | |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | | |

¹⁾ You should be aware of the additional effect of the number of nodes and the cable cross-section used on the maximum bus cable lengths.

Note:

The scope of supply includes two bus terminating resistors (120 Ω).

Wiring instructions

A fieldbus cable meeting the requirements of the DeviceNet™ specification (Release 2.0) is used to connect the nodes to the bus system. Companies such as Belden Wire & Cable, Olflex Wire & Cable, C&M Corp. and Madison Cable produce DeviceNet™ "thick" and "thin" cables.

PROFIBUS-DP

| | | |
|-------------|-----------|-------------|
| PROFIBUS-DP | Order no. | E82ZAFPC001 |
|-------------|-----------|-------------|

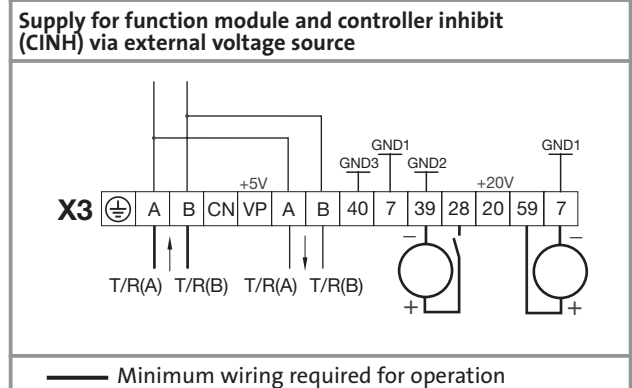
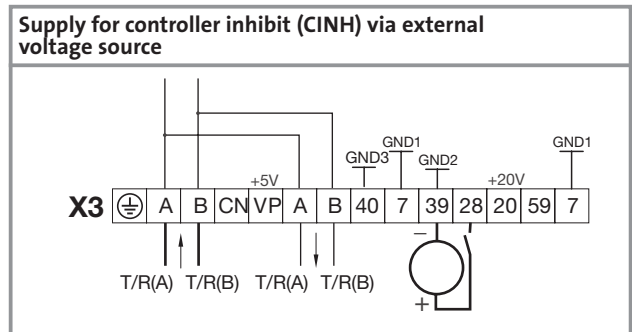
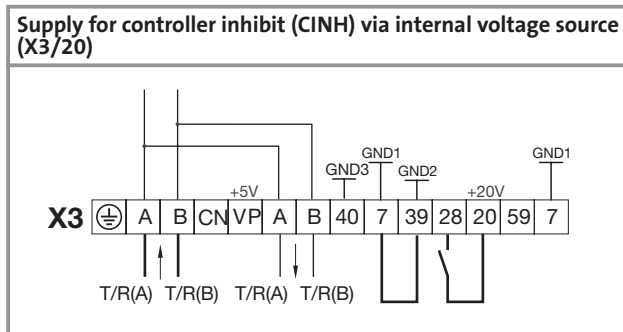
The PROFIBUS-DP fieldbus function module is a slave interface module with the PROFIBUS-DP profile.

It is used for networking between hosts and the 8200 motec.

Terminal assignment





| X3/ | Designation | Function | Level |
|-----|-------------|---|--|
| ⊕ | PES | Additional HF shield termination | |
| A | T/R(A) | RS485 data line A | |
| B | T/R(B) | RS485 data line B | |
| CN | CNTR | See PROFIBUS-DP standard ¹⁾ | For data transmission: CNTR = HIGH (+5 V, reference: GND3) |
| VP | | See PROFIBUS-DP standard ¹⁾ | +5 V (reference: GND3) |
| 40 | GND3 | Reference potential for PROFIBUS-DP network ¹⁾ | |
| 7 | GND1 | Reference potential for X3/20 | |
| 39 | GND2 | Reference potential, controller inhibit (CINH) on X3/28 | |
| 28 | CINH | Controller inhibit | • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 ... +3 V) |
| 20 | | DC voltage source for internal supply for controller inhibit (CINH) | +20 V (reference: GND1) |
| 59 | | External DC supply for function module | U(ext.) = +24 V DC ±10% (reference: GND1) |

¹⁾ e.g. connection of a repeater



PROFIBUS-DP

General data and operating conditions

| | |
|--|--|
| Communication medium | RS485 |
| Communication profile | PROFIBUS-DP (DIN 19245 Part 1 and Part 3) |
| Drive profile | DRIVECOM profile "Drive technology 20" or Lenze device control |
| Baud rate [kbps] | 9.6 ... 12000 (automatic detection) |
| PROFIBUS-DP node | Slave |
| Network topology | Without repeaters: Line With repeaters: Line or tree |
| Process data words (PCD) (16 bits) | 1 word ... 10 words |
| DP user data length | Parameter channel (4 words) + process data words |
| No. of nodes | Standard: 32 (= 1 bus segment) including host system With repeaters: 128 including host system and repeaters |
| Max. cable length per bus segment | 1200 m (depending on baud rate and type of cable used) |
| Communication time | <ul style="list-style-type: none"> • Sum of cycle time and processing time in fieldbus nodes. The times are not interdependent. • Processing time in controller: <ul style="list-style-type: none"> – Parameter data and process data are not interdependent – Parameter data: approx. 30 ms + 20 ms tolerance – Process data: approx. 3 ms + 2 ms tolerance |
| Electrical connection | Screw terminals |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) Flexible:  1.0 mm ² (AWG 18) without wire end ferrule  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |
| DC voltage supply for function module | <ul style="list-style-type: none"> • Internal • External <ul style="list-style-type: none"> – Necessary if bus nodes are not connected to the mains and communication with the master needs to be maintained – Necessary on bus nodes on which a bus terminating resistor has been activated and which are not connected to the mains although the bus system needs to remain active – Supply via separate power supply unit – +24 V DC ± 10%, max. 80 mA per function module |
| Insulation voltage to reference earth/PE | 50 V AC |
| Ambient temperature | Operation: –20 ... +60°C Transport: –25 ... +70°C Storage: –25 ... +60°C |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) |

Note:

- ▶ The function module features two communication status LEDs.
- ▶ A configuration diskette for PROFIBUS-DP containing description files for the devices (EDS files) is included in the scope of supply.

Important:

The internal or external DC voltage supply to the controller inhibit terminal (X3/28) is provided **independently** of the internal or external DC voltage supply for the function module.

Tip:

The external DC voltage supply for the function module is provided via terminals X3/59 and X3/7. The connection diagrams above indicate the internal DC supply to the function module as an alternative option.

INTERBUS

| | | |
|----------|-----------|-------------|
| INTERBUS | Order no. | E82ZAFIC001 |
|----------|-----------|-------------|

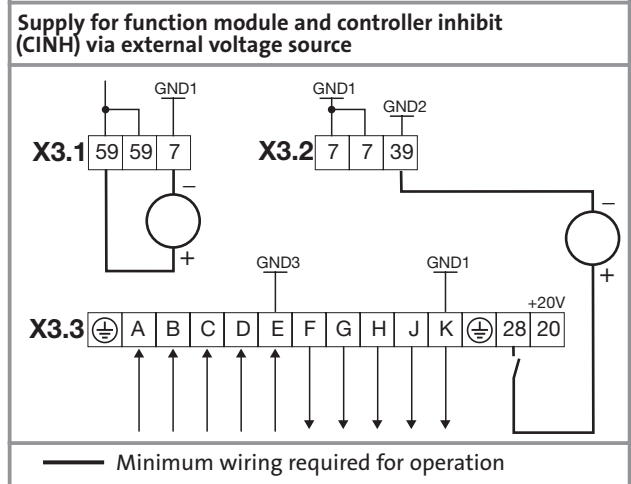
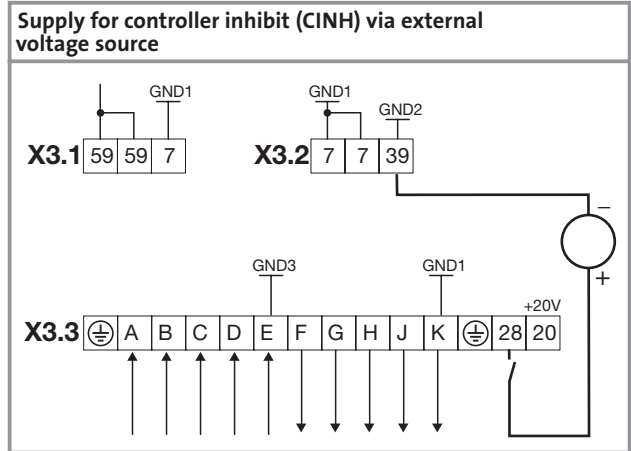
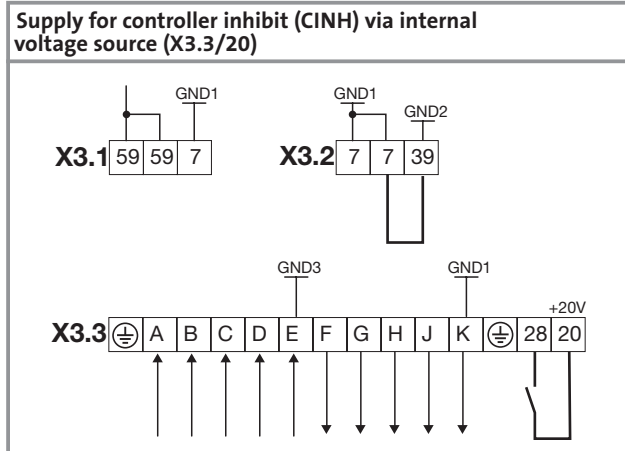
The INTERBUS fieldbus function module can be used to interface the 8200 motec directly with the remote bus. The interfacing of the 8200 motec supports the DRIVECOM

profile 20. DIP switches are used to set the process data volume, PCP communication and the last physical bus node.

Terminal assignment





| X3.1/ | Designation | Function |
|-------|-------------|---|
| 59 | | External DC supply for function module |
| 7 | GND1 | Reference potential for X3.3/20 |
| X3.2/ | | |
| 7 | GND1 | Reference potential for X3.3/20 |
| 39 | GND2 | Reference potential, controller inhibit (CINH) on X3.3/28 |
| X3.3/ | | |
| ⊕ | PES | Additional HF shield termination |
| A | /DO1 | RS485 data line (incoming) |
| B | DO1 | |
| C | /DI1 | |
| D | DI1 | |

| X3.3/ | Designation | Function |
|-------|-------------|---|
| E | GND3 | Reference potential for incoming data line |
| F | /DO2 | RS485 data line (outgoing) |
| G | DO2 | |
| H | /DI2 | |
| J | DI2 | |
| K | GND1 | Reference potential for outgoing data line |
| ⊕ | PES | Additional HF shield termination |
| 28 | CINH | Controller inhibit • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 ... +3 V) |
| 20 | | DC voltage source for internal supply for controller inhibit (CINH) +20 V (reference: GND1) |



INTERBUS

General data and operating conditions

| | |
|--|---|
| Communication medium | RS485 |
| Drive profile | DRIVECOM profile "Drive technology 20" or Lenze device control |
| Baud rate [kbps] | 500 |
| INTERBUS node | Slave |
| Network topology | Ring (go and return lines in the same bus cable) |
| Process data words (PCD) (16 bits) | 1 word ... 6 words |
| Parameter data words (PCP) (16 bits) | 0/1 word |
| INTERBUS identification (ID code) | Decimal: 227 or 3 (without PCP); hex: E3 or 3 (without PCP) |
| Maximum PDU length | 64 bytes |
| PCP services supported | Initiate, Abort, Status, Identify, Get-OV-Long, Read, Write |
| No. of nodes | Depends on host system (I/O area), max. 63 |
| Max. distance between 2 nodes | 400 m |
| Communication time | <ul style="list-style-type: none"> • Sum of cycle time and processing time in fieldbus nodes. The times are not interdependent. • Processing time in controller: <ul style="list-style-type: none"> – Parameter data and process data are not interdependent – Parameter data (PCP): approx. 30 ms + 20 ms tolerance – Process data: approx. 3 ms + 2 ms tolerance |
| Electrical connection | Screw terminals |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) Flexible:  1.0 mm ² (AWG 18) without wire end ferrule  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |
| DC voltage supply for function module | <ul style="list-style-type: none"> • Internal • External <ul style="list-style-type: none"> – Only necessary if the communication ring must not be interrupted due to a shutdown or the failure of a bus node – Supply via separate power supply unit – +24 V DC ± 10%, max. 90 mA per function module – X3/59 can be loaded with a maximum of 3 A when the supply voltage is looped through to other bus nodes |
| Insulation voltage to reference earth/PE | 50 V AC |
| Ambient temperature | Operation: –20 ... +60°C Transport: –25 ... +70°C Storage: –25 ... +60°C |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) |

Note:

The function module features two communication status LEDs.

Important:

The internal or external DC voltage supply to the controller inhibit terminal (X3/28) is provided **independently** of the internal or external DC voltage supply for the function module.

Tip:

The external DC voltage supply for the function module is provided via terminals X3/59 and X3/7 (see connection diagrams above).

LECOM-B (RS485)

| | | |
|-----------------|-----------|-------------|
| LECOM-B (RS485) | Order no. | E82ZAFLC001 |
|-----------------|-----------|-------------|

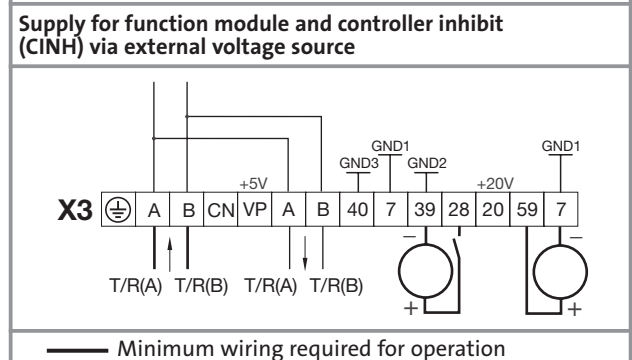
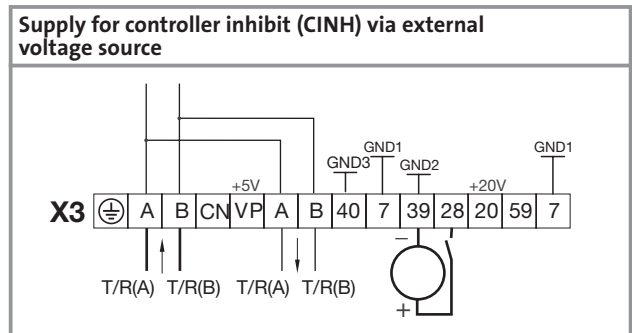
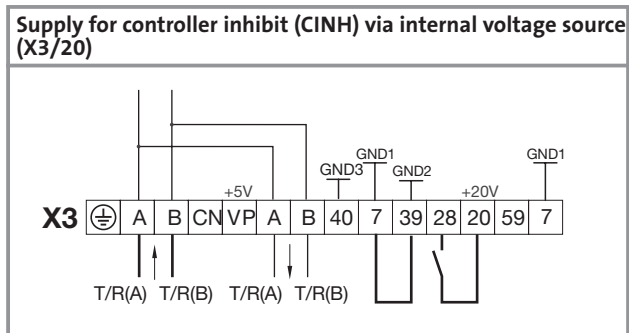
Lenze's LECOM profile is used for communication via the LECOM-B (RS485) fieldbus function module. This protocol is open for users.

Components which support this protocol can be purchased for various systems (e.g. Simatic S5).

Terminal assignment





| X3/ | Designation | Function | Level |
|-----|-------------|---|--|
| ⊕ | PES | Additional HF shield termination | |
| A | T/R(A) | RS485 data line A | |
| B | T/R(B) | RS485 data line B | |
| CN | CNTR | ¹⁾ | For data transmission: CNTR = HIGH (+5 V, reference: GND3) |
| VP | | ¹⁾ | +5 V (reference: GND3) |
| 40 | GND3 | Reference potential 3 for LECOM-B network ¹⁾ | |
| 7 | GND1 | Reference potential 1 | |
| 39 | GND2 | Reference potential 2, controller inhibit (CINH) on X3/28 | |
| 28 | CINH | Controller inhibit | • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 ... +3 V) |
| 20 | | DC voltage source for internal supply for controller inhibit (CINH) | +20 V (reference: GND1) |
| 59 | | External DC supply for function module | U(ext.) = +24 V DC ±10% (reference: GND1) |

¹⁾ e.g. connection of a repeater



LECOM-B (RS485)

General data and operating conditions

| | |
|--|---|
| Communication medium | RS485 (LECOM-B) |
| Communication protocol | LECOM-AB V2.0 |
| Transmission character format | 7E1: 7-bit ASCII, 1 stop bit, 1 start bit, 1 parity bit (even) |
| Baud rate [bps] | 1200, 2400, 4800, 9600, 19200, 38400, 57600 |
| LECOM-B node | Slave |
| Network topology | Without repeaters: Line With repeaters: Line or tree |
| Process data words (PCD) (16 bits) | 2 words |
| Max. no. of nodes | 32 (= 1 bus segment) including host system With repeaters: 90 slaves |
| Max. cable length per bus segment | 1000 m (depending on baud rate and type of cable used) |
| Electrical connection | Screw terminals |
| Connection options |  Rigid: 1.5 mm ² (AWG 16) Flexible:  1.0 mm ² (AWG 18) without wire end ferrule  0.5 mm ² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm ² (AWG 20) with wire end ferrule and plastic sleeve |
| DC voltage supply for function module | <ul style="list-style-type: none"> • Internal • External <ul style="list-style-type: none"> – Necessary if bus nodes are not connected to the mains and communication with the master needs to be maintained – Necessary on bus nodes on which a bus terminating resistor has been activated and which are not connected to the mains although the bus system needs to remain active – Supply via separate power supply unit – +24 V DC ± 10%, max. 70 mA per function module |
| Insulation voltage to reference earth/PE | 50 V AC |
| Ambient temperature | Operation: –20 ... +60°C Transport: –25 ... +70°C Storage: –25 ... +60°C |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) |

Note:

The function module features two communication status LEDs.

Important:

The internal or external DC voltage supply to the controller inhibit terminal (X3/28) is provided **independently** of the internal or external DC voltage supply for the function module.

Tip:

The external DC voltage supply for the function module is provided via terminals X3/59 and X3/7.
The connection diagrams above indicate the internal DC supply for the function module as an alternative option.

AS-Interface

| | | |
|--------------|-----------|-------------|
| AS-Interface | Order no. | E82ZAFFC001 |
|--------------|-----------|-------------|

The AS-Interface fieldbus function module enables the 8200 motec to be controlled with digital control signals via the "AS-Interface" bus system. It also has two digital inputs. The "AS-Interface" (AS-i) bus system is one of the most popular systems at the lowest field level and is used in particular for the transmission of digital signals. It is designed for applications in which the use of high-performance field-

bus systems is not absolutely essential but still need to benefit from serial communication.

The advantages of this system are:

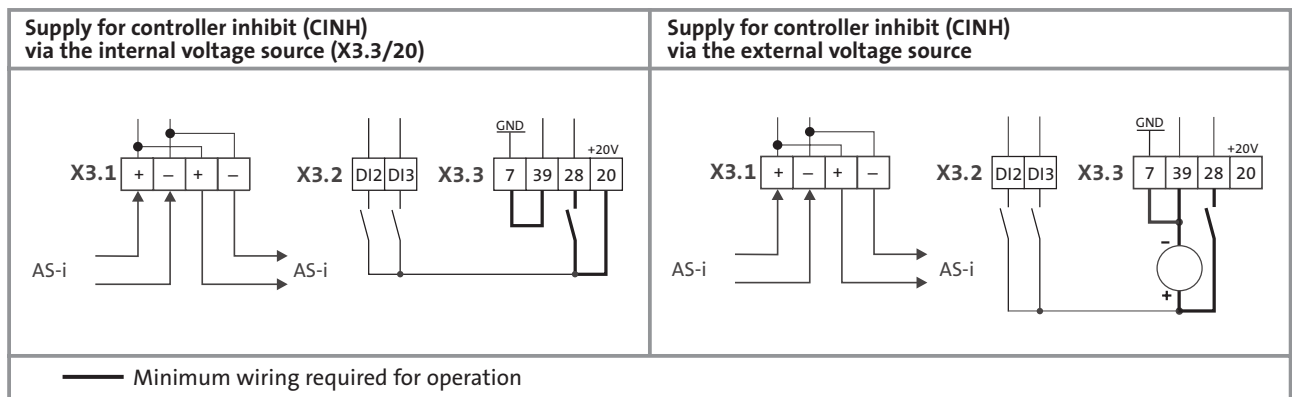
- ▶ Easy to use and set up
- ▶ Less wiring required
- ▶ Easy to integrate into existing systems
- ▶ Cost reductions

Terminal assignment function module E82ZAFFC001

| X3.1/ | Wire colour (IEC 757) | Function |
|-------|-----------------------|---|
| + | BN (brown) | Please refer to the information included in the description of the AS-i system about the electrical connection of peripheral devices. |
| - | BU (blue) | |






| X3.2/ | Designation | Function | Level |
|-------|-----------------|--------------|--|
| DI2 | Digital input 1 | User-defined | 0 = LOW (0 V ... +3 V) 1 = HIGH (+12 V ... +30 V) Reference: GND |
| DI3 | Digital input 2 | | |

| X3.3/ | Designation | Function | Level |
|-------|-------------|---|---|
| 7 | GND | Reference potential for X3.3/20 | |
| 39 | | Reference potential, controller inhibit (CINH) on X3.3/28 | |
| 28 | CINH | Controller inhibit | • Start = HIGH (+12 V ... +30 V) • Stop = LOW (0 V ... +3 V) |
| 20 | | DC voltage source for internal supply for controller inhibit (CINH) | +20 V (reference: GND) |



AS-Interface

General data and operating conditions

| | |
|---|--|
| Protocol/Communication medium | AS-i |
| Network topology | Tree |
| Node | Slave |
| Max. no. of nodes | 31 |
| Baud rate [kbps] | 167 |
| Cycle time [ms] | 5 ms (31 nodes) |
| Max. bus length [m] | 100 |
| Electrical connection (terminal strip X3) | Screw terminals |
| Digital inputs | 2 |
| Connection options (terminal strip X3.2) |  Rigid: 1.5 mm ² (AWG 16) |
| | Flexible: <ul style="list-style-type: none">  1.0 mm² (AWG 18) without wire end ferrule  0.5 mm² (AWG 20) with wire end ferrule without plastic sleeve  0.5 mm² (AWG 20) with wire end ferrule and plastic sleeve |
| Connection options (terminal strip X3.1) |  1.5 mm ² (AWG 16) with wire end ferrule and plastic sleeve |
| DC voltage supply for function module | Via the bus |
| Insulation voltage to reference earth/PE | 50 V AC |
| Ambient temperature | Operation: –20 ... +60°C Transport: –25 ... +70°C Storage: –25 ... +60°C |
| Climatic conditions | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) |

Function module E82ZAFFC001

The following are available:

- 4 AS-i data bits to the 8200 motec (control)

The bits can be freely assigned in the 8200 motec.

Example:

- Bit 1 assigned with function "Fixed setpoint 1"
- Bit 2 assigned with function "Fixed setpoint 2"
- Bit 3 assigned with function "DC injection brake"
- Bit 4 assigned with function "Reversal of rotation direction"

- ▶ 1 AS-i data bit from the 8200 motec (feedback)

The bit can be freely assigned in the 8200 motec, e.g. with trip error message.

- ▶ 1 AS-i monitoring bit from the AS-i module
- ▶ 2 data bits digital inputs of the module

Note: The function module features two communication status LEDs.

Wiring the AS-i network

Wiring can be completed quickly and easily using an AS-i flat-cable connection (type E82ZMFF). The cables are secured in a cable entry in the carrier housing (M16).



AS-i flat-cable connection (type E82ZMFF)

Drive PLC – Description

Would you like to ...

- ▶ Rationalise the electrical part of your machine?
- ▶ Have more transparent PLC programs?
- ▶ Take the load off your bus system?
- ▶ Not have to keep learning new programming languages?
- ▶ Be able to implement drive-orientated control functions in the drive?
- ▶ Be able to use tried and tested systems for more complex drive solutions?

... then you should take a closer look at the Drive PLC.

This is because the Drive PLC can offer:

- ▶ Programming in all five IEC 1131-3 programming languages and a powerful CFC editor for simple programming in graphic format
- ▶ Complex drive technology which continues to be solved using preconfigured technology functions
- ▶ Technology functions which can be integrated into the PLC program

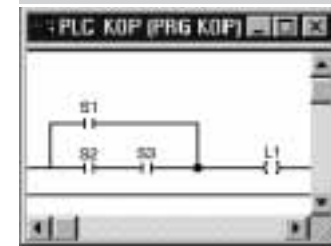
... and this is what you get:

- ▶ Distributed control of your machine
- ▶ The electrical part of the machine becomes more cost-effective whilst maintaining the same level of performance
- ▶ Faster set-up times thanks to the high-performance "Drive PLC Developer Studio" software development environment
- ▶ Increased availability due to the reduction in number of individual control components
- ▶ Reduced programming training requirements: IEC 61131-3 is an international standard

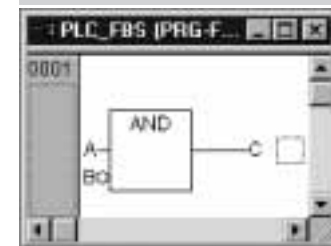
Instruction List



Ladder Diagram



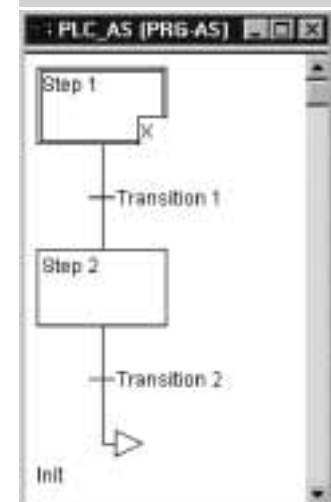
Function Block Diagram



Structured Text



Sequential Function Chart



Drive PLC – Description

The Drive PLC adds a freely-programmable drive PLC to the 8200 motec frequency inverter. This combination will not only control movement in your machine, but can also manage distributed control tasks. The system is programmed using the PLC languages of the international standard IEC 61131-3 and the user-friendly Drive PLC Developer Studio software development environment. Please refer to the Lenze "Automation" catalogue for more details.

Lenze can offer a full automation system for your application, from operating and display units (keypads) to geared motors.

As an additional bonus, Lenze can now save you time by providing the software that brings your machines to life from the basic configurations and technology functions, using the IEC 1131-3 languages you are already familiar with.

Why a Drive PLC?

What benefits does the Drive PLC offer over a standard PLC?

- ▶ Reduction of parallel wiring and unnecessary terminals through an integrated system bus interface (CAN) to the 8200 motec frequency inverter
- ▶ Straightforward engineering thanks to a special software library which makes it easy to integrate the 8200 motec into the PLC program
- ▶ Straightforward integration of all types of fieldbus via plug-in modules
- ▶ A cost-effective system with extensive basic functions
- ▶ No additional costs for gateway functions to higher-level bus systems such as INTERBUS or PROFIBUS

Drive PLC – Technical data

| | | |
|---------------------------------------|---------|---|
| Conformity | CE | Low-Voltage Directive (73/23/EEC) |
| Approvals | UL 508C | Underwriter Laboratories (File No. E132659) Power Conversion Equipment |
| Program memory | | 191 KB |
| Data memory | | 9.5 KB (1.3 KB flags + 8.2 KB variables) |
| EEProm buffered memory | | 800 bytes |
| Retentive memory | | 200 bytes |
| Task types | | 1 cyclic task 8 tasks (time or event-controlled) |
| Processing time for one bit operation | | 1.0 µs |
| No. of counters/timers | | Can be freely selected in acc. with IEC 61131-3 |
| Digital inputs | | 8 (of which 3 have interrupt capability) |
| Can be extended | | Via extension board and distributed terminals |
| Digital outputs | | 4 (each 1 A to 40°C, derating 2.5%/K between 40°C and 55°C) |
| Can be extended | | Via extension board and distributed terminals |
| Analog inputs | | 3 (± 10 V, 10 bits + sign) |
| Analog outputs | | 1 (±10 V or ±20 mA, 10 bits + sign, ±0.5%) |
| Communication interfaces | | System bus (based on CANopen) integrated Plug-in communication module (e.g. INTERBUS, PROFIBUS-DP) |
| Dimensions (H x W x D)/[mm] | | 120 x 60 x 140 |
| Operational reserve | | Acc. to IEC 1131 |
| Programming software | | Drive PLC Developer Studio with programming languages IL, LD and FBD, ST, SFC, CFC, debugging and monitoring, visualisation |
| Voltage supply | | +18 ... 30 V DC |
| Current (at 24 V DC) | | 200 mA (without output loads) |

| Designation | Order no. |
|-------------|-----------|
| Drive PLC | EPL-10200 |

Components required for programming:

| Designation | Order no. |
|--|----------------|
| Drive PLC Developer Studio BASIC | ESP-DDS1-B |
| Drive PLC Developer Studio PROFESSIONAL | ESP-DDS1-P |
| PC system bus adapter (voltage supply via keyboard with DIN connection) | EMF2173IB |
| PC system bus adapter (voltage supply via keyboard with PS2 connection) | EMF2173IB-V002 |
| RS232 system cable (0.5 m) | EWL0048 |
| RS232 system cable (5.0 m) | EWL0020 |
| RS232 system cable (10.0 m) | EWL0021 |
| USB system bus adapter | EMF2177IB |

Note:

The Drive PLC is programmed on the PC via the system bus.

Drive PLC – Mechanical installation

- ▶ Drive PLCs must only be used as built-in units.
- ▶ If the exhaust air contains pollutants (dust, lint, grease, aggressive gases) then appropriate countermeasures must be in place (e.g. installation of filters, regular cleaning etc.).
- ▶ Ensure there is enough mounting space.
 - Several devices can be mounted directly adjacent to one another without clearance.
 - Make sure that there is free access for cooling air and that the outlet for used air is not blocked.
 - Ensure a clearance of 100 mm above and below.
- ▶ In the event of continuous oscillations or vibrations, check the use of vibration dampers.

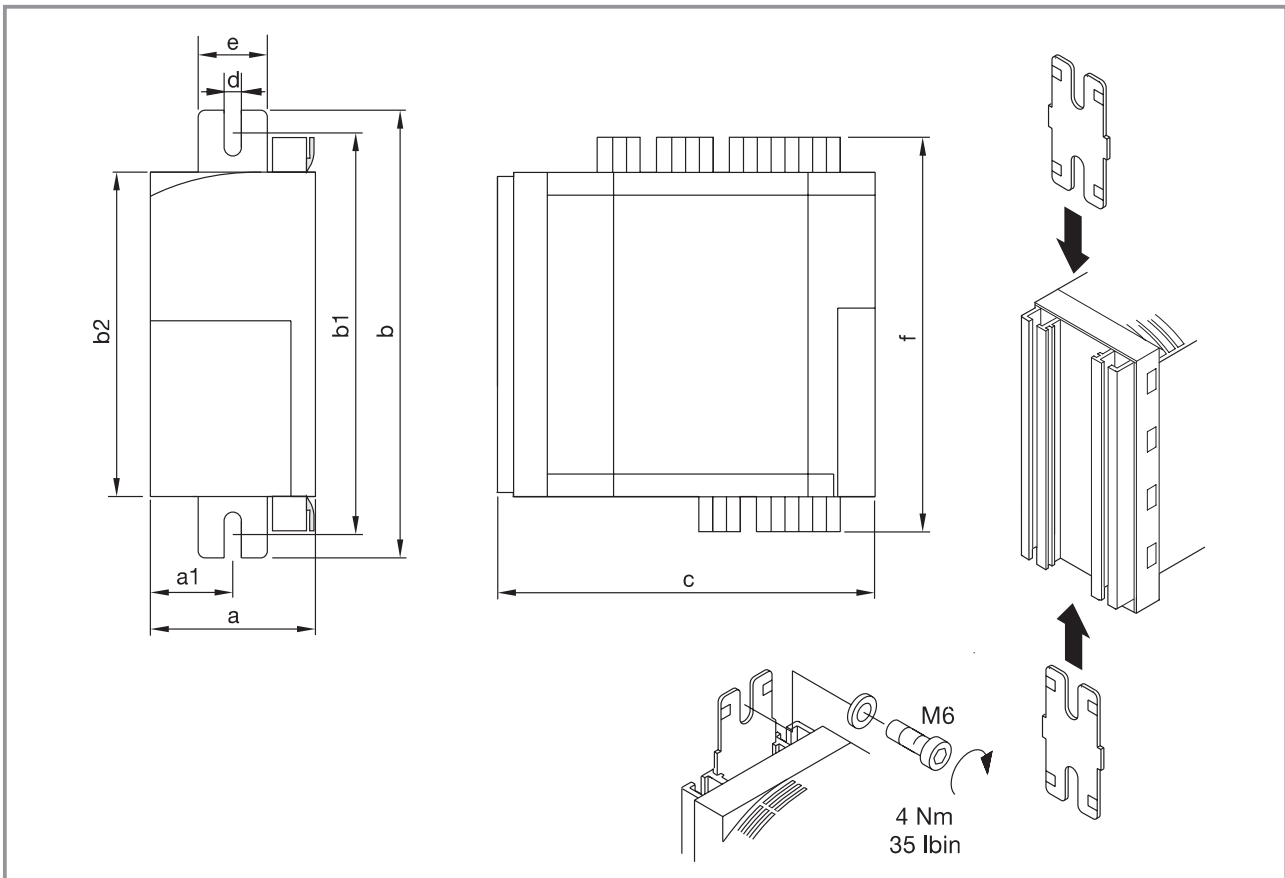
The Drive PLC can be fitted as follows into a control cabinet:

- ▶ With the **standard fixtures included in the scope of supply**
- ▶ With a **swivel bracket** (accessories)
- ▶ With a **DIN rail mounting** (accessories)

Tip:

E82ZW EK (with bracket) or E82ZW ES (with clamp) fixings can be used (accessories) for quick and easy installation.

Standard fixing



Dimensions [mm]

| a | a1 | b | b1 | b2 | c | d | e | f |
|----|----|-----|-----------|-----|-----|-----|------|-----|
| 60 | 30 | 167 | 147...157 | 120 | 140 | 6.5 | 27.5 | 148 |

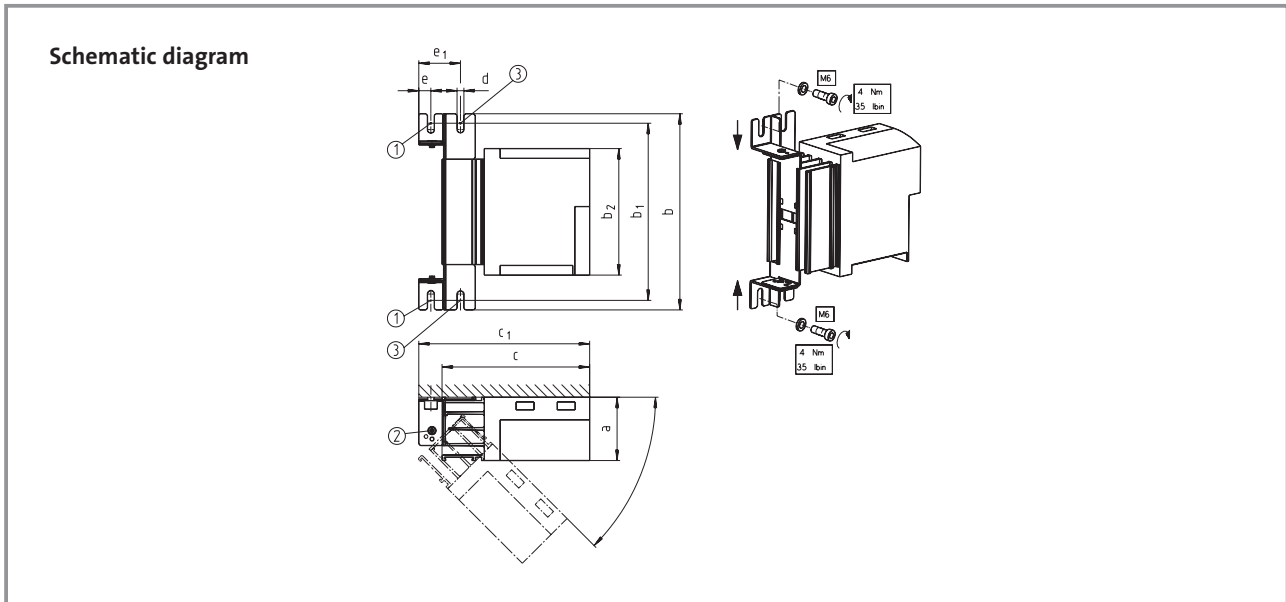
Drive PLC – Mechanical installation

Mounting with a swivel bracket or side mounting

In housings where installation space is limited, the Drive PLC can be installed with a swivel mounting rail.

The Drive PLC can be swivelled out sideways, e.g. through 90°, for installation, adjustment and diagnostic purposes

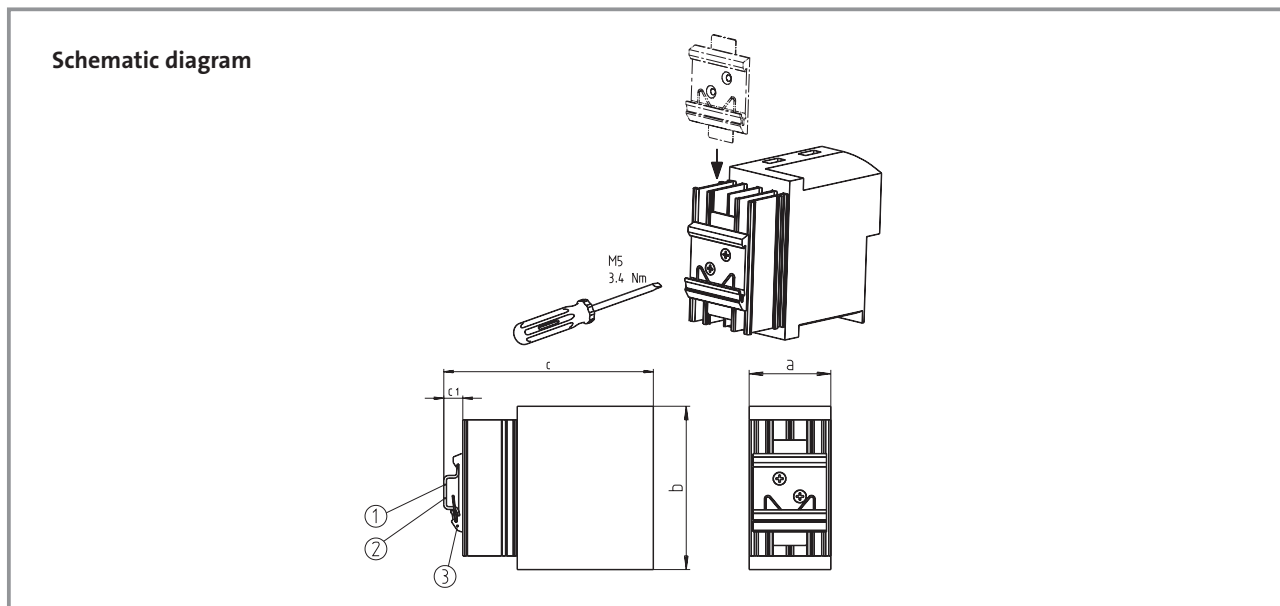
(locking mechanisms at 45°, 90°, 135°, 180°). The swivel bracket can also be used for fixed sideways mounting.



① Bolt here ② Pivot point ③ Bolt here to keep the Drive PLC fixed in the 0° position

| Order no. | a [mm] | b [mm] | b ₁ [mm] | b ₂ [mm] | c [mm] | c ₁ [mm] | d [mm] | e [mm] | e ₁ [mm] |
|-----------|--------|--------|---------------------|---------------------|--------|---------------------|--------|--------|---------------------|
| E82ZJ001 | 60 | 203 | 177...192 | 120 | 140 | 162 | 6.5 | 11.5 | 39 |

DIN rail mounting



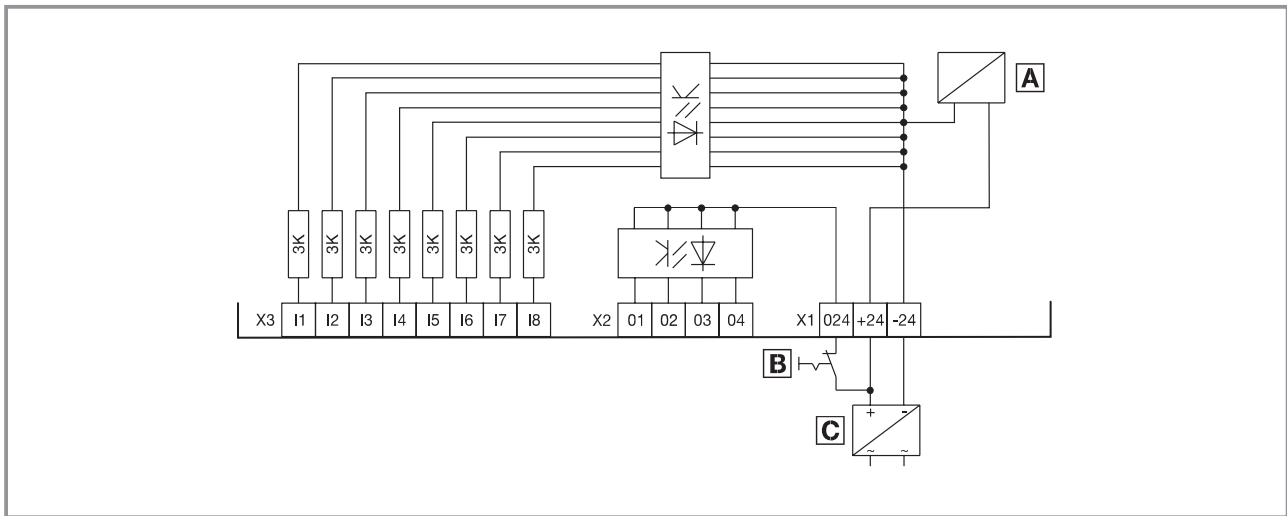
| | a [mm] | b [mm] | c [mm] | | c ₁ [mm] | |
|-----------|--------|--------|--------|-----|---------------------|----|
| Order no. | | | ① | ② | ① | ② |
| E82ZJ002 | 60 | 120 | 158 | 151 | 18 | 11 |

① DIN rail 35 x 15 or ② DIN rail 35 x .7.5 ③ DIN rail mounting

Tip: The DIN rail fixture can be moved flexibly on the rear panel of the Drive PLC.

Drive PLC – Electrical installation

Terminals on the upper side of the device



A Supply, control electronics

B Emergency-off

C External DC voltage source

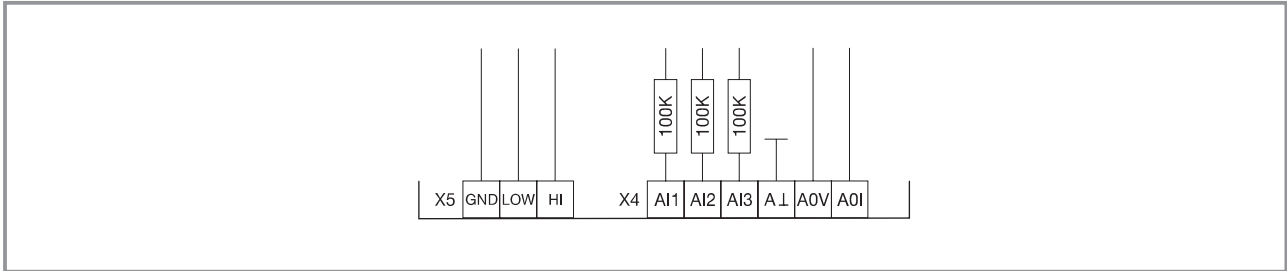
| X1 | Voltage supply | Level |
|------|------------------------------------|---------------------|
| ⊥24 | GND supply voltage | Reference potential |
| +24 | Supply voltage | +18 ... +30 V DC |
| +024 | Supply voltage for digital outputs | +18 ... +30 V DC |

| X2 | Digital outputs | Level |
|----|-----------------|---|
| 01 | Output 1 | LOW level 0 ... +4 V DC |
| : | : | HIGH level +13 ... +30 V DC |
| 04 | Output 4 | HIGH active max. 1 A (up to 40°C, derating 2.5%/K between 40°C and 55°C) Shortest update cycle 1 ms (depending on where the process image is created) |

| X3 | Digital inputs | Level |
|----|----------------|---|
| I1 | Input 1 | LOW level 0 ... +4 V DC |
| : | : | HIGH level +13 ... +30 V DC |
| I8 | Input 8 | Input current 8 mA at 24 V DC Shortest update cycle 1 ms (depending on where the process image is created) |

Drive PLC – Electrical installation

Terminals on the underside of the device



| X4 | Analog I/O | Level |
|-----|-----------------------|----------------------------------|
| AI1 | Analog input 1 | ± 10 V (10 bits + sign) |
| AI2 | Analog input 2 | |
| AI3 | Analog input 3 | |
| A.L | Analog GND | Reference potential |
| A0V | Analog output voltage | ± 10 V (10 bits + sign); ± 0.5% |
| A0i | Analog output current | ± 20 mA (10 bits + sign); ± 0.5% |

| X5 | System bus (CAN) | Level |
|-----|------------------|-----------------------------|
| GND | | Reference potential |
| LOW | CAN-LOW | System bus LOW (data line) |
| HI | CAN-HIGH | System bus HIGH (data line) |

Extension board

The extension boards can be plugged into the side of the Drive PLC. This simple solution allows the type and number of input/output terminals to be expanded quickly and easily.

| Extension board 1 | Connections |
|--|--|
| For the connection of three-wire sensors and outputs for 24 V brake control | 6 digital inputs LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC |
| | 4 digital outputs, LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC max. 1 A (up to 40°C; derating 2.5%/K between 40°C and 55°C) |
| | 2 digital outputs, LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC max. 2 A (up to 40°C; derating 2.5%/K between 40°C and 55°C) 5 terminals each for + 24 V DC and GND (for three-wire sensors) |
| Extension board 2 | Connections |
| For the cost-effective connection of digital sensors and actuators | 14 digital inputs LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC |
| | 8 digital outputs, LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC max. 1 A (up to 40°C; derating 2.5%/K between 40°C and 55°C) |
| Extension board 3 | Connections |
| For high-speed counting, length measurements and control technology applications | 1 encoder input, TTL, HTL, 500 kHz, two-track with inverse signals and zero track |
| | 8 digital inputs, 24 V potential-free LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC |
| | 4 digital outputs, LOW level: 0 ... +4 V DC HIGH level: +13 ... +30 V DC max. 1 A (up to 40°C; derating 2.5%/K between 40°C and 55°C) |
| | 2 analog inputs ± 10 V (10 bits + sign) |

| Designation | Order no. |
|-------------------|-----------|
| Extension board 1 | EPZ-10201 |
| Extension board 2 | EPZ-10202 |
| Extension board 3 | EPZ-10203 |





Visualisation made easy

The task of improving the efficiency and effectiveness of the machines and systems we use today is never-ending. The ability to use complex machines easily and monitor them reliably is becoming an ever-increasing priority. Lenze can offer you a wide range of HMI products, from text displays and graphical displays to touch screen devices, with a single programming software for all devices: HMI Designer.

Choose a host of functions to suit your type of device, e.g.:

- ▶ Display of text, images, bar graphs, bitmap images and animated graphics
- ▶ Recipe handling
- ▶ Display of system and alarm messages
- ▶ Windows fonts
- ▶ Automatic operations
- ▶ Communication via Lenze system bus

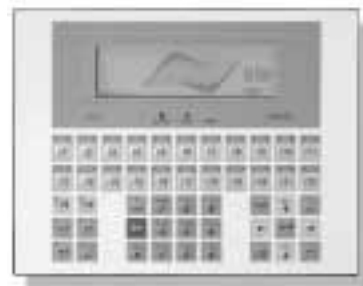
Text display

Text displays provide a low-cost, compact solution for simple applications. Their compact mounting depth makes them ideal for installation wherever space is at a premium. The 2 to 4-line displays are backlit, come with a system bus as standard and feature a variety of system and function keys.



Graphical display

Graphical displays combine cost-effectiveness, functionality and user-friendliness in a modern design. This compact device with its integrated system bus is capable of handling recipes and displaying data in graphics format. Production trends are visible immediately, meaning that machine processes can be optimised.



Touch screen

In the range of touch screens we have to offer, you can choose anything from a low-cost, entry-level graphical display to a 10.4" TFT screen for displaying complex graphics. All the devices come with a system bus, as well as a user interface offering the ultimate in flexibility.



HMI Designer

A single program for all devices: HMI Designer provides a comprehensive development environment for all the human machine interfaces described in this document. The user-friendly programming environment, which features project managers, project editors and font editors, integrates perfectly with the configurations of Lenze's drive controllers, thereby facilitating the devices' set-up and subsequent operation.



IP20 I/O system

Automation is playing an ever more important part in machines and systems. The increasing number of I/O devices this has given rise to has in turn increased the amount of wiring required. This is where distributed I/O systems bring order to the chaos.

A compact system

The system comprises a range of compact products with a fixed number of digital inputs and outputs. It has a built-in communication interface in the form of the CAN-based Lenze system bus.



The compact system is available in four different versions – one of which is bound to meet your exact application requirements.

8, 16 and 32-channel modules can be supplied in one or three-wire technology with up to 24 inputs and 8 outputs.

Lenze has developed two new product concepts which are suitable for both basic digital applications and more complex automation applications.

The modules have a SUB-D connector for the connection of the system bus, plug-in spring-clamp terminal strips to speed up the wiring process and a switch for the node address. The compact system offers maximum operational reliability, can be mounted quickly and easily on 35 mm DIN rails and is even easy to configure. All in all, this speeds up the start-up process.

| Type | Order no. |
|----------------------|--|
| 8x dig. I/O compact | EPM-T830 (3-wire) |
| 16x dig. I/O compact | EPM-T831 (1-wire) EPM-T833 (3-wire) |
| 32x dig. I/O compact | EPM-T832 (1-wire) |

A modular system

Lenze can provide a complete range of I/O systems for more complex automation applications. The modular system comprises three components: the gateway, electronic modules and the backplane bus. The modular system is connected to the Lenze system bus



via the gateway. An internal backplane bus is used for the intra-station communication of process and parameter data, as well as diagnostic data.

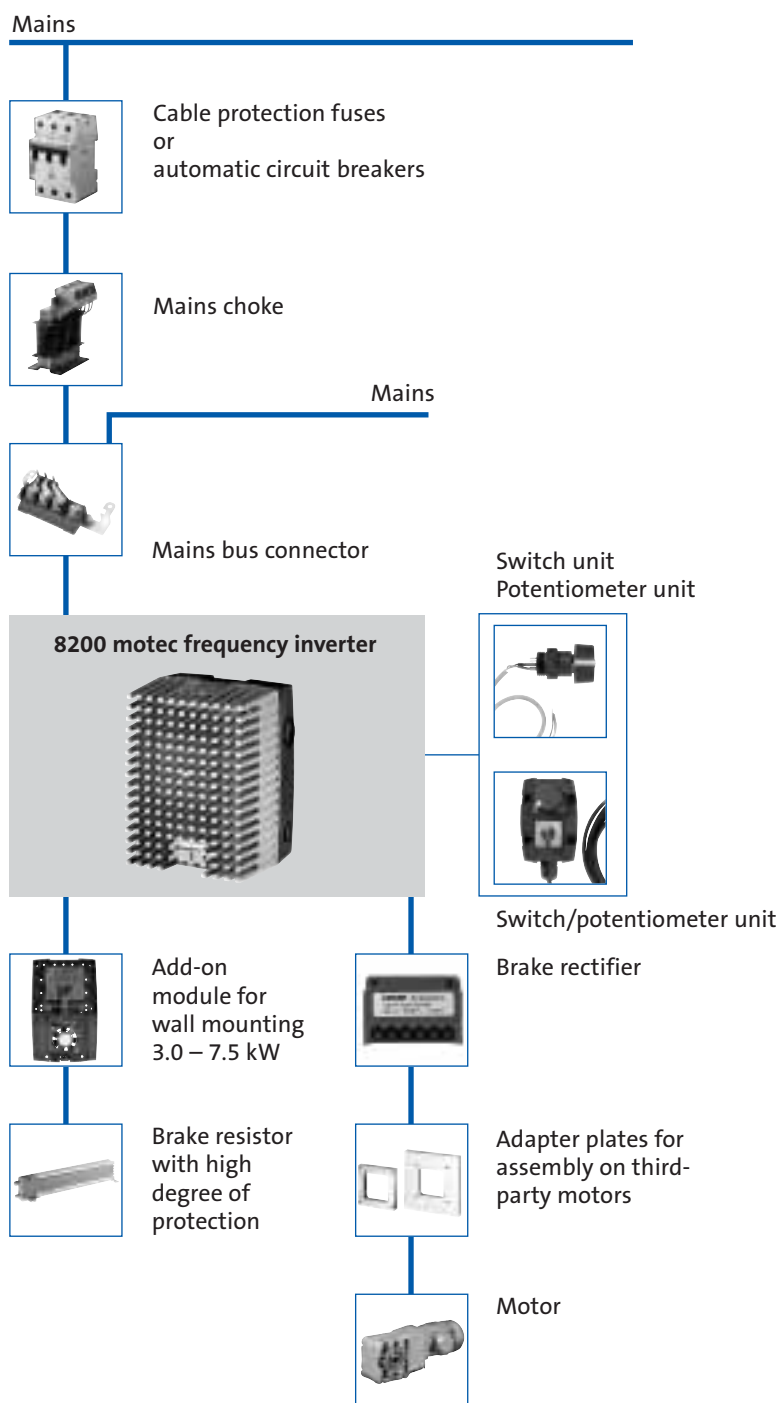
The electronics modules manage the actual I/O functions. Up to 32 units can be combined as required to form an overall station in which each module is optimised for the individual application in which it is to be used.

The electronics module range comprises the following modules:

- ▶ Digital input – 8 channels
- ▶ Digital output – 8 channels – 1 A, 2 A
- ▶ Digital output – 4 channels - 5 A relay
- ▶ Digital I/O – 8 channels
- ▶ Analog input – 4 channels
- ▶ Analog output – 4 channels
- ▶ Counter – 1 MHz

| Type | Order no. |
|-----------------------|-----------------|
| CAN gateway | EPM-T110 |
| 8x digital input | EPM-T210 |
| 8x digital output 1 A | EPM-T220 |
| 8x digital output 2 A | EPM-T221 |
| 4x relay | EPM-T222 |
| 8x digital I/O | EPM-T230 |
| 4x analog input | EPM-T310 |
| 4x analog output | EPM-T320 |
| 2/4x counter | EPM-T410 |

For more information about the I/O system, please refer to the Automation catalog.



The 8200 motec is complemented by wide range of accessory components for setting up distributed drive solutions. Brake resistors (even with high degrees of protection) for converting braking energy into heat are available for braking large loads and for dynamic applications.

Spring-operated brakes can be supplied with power and controlled directly from the 8200 motec.

Fuses and cable cross-sections

| Type | Normal operation (150% overload) | | | | | Operation with increased rated power (120% overload) | | | | |
|--------------------|-------------------------------------|-----|--------------------|------------------------|-----|---|-----|--------------------|------------------------|-----|
| | Fuse F1, F2, F3 | | Circuit breaker | Cable cross-section | | Fuse F1, F2, F3 | | Circuit breaker | Cable cross-section | |
| | VDE | UL | VDE | mm ² | AWG | VDE | UL | VDE | mm ² | AWG |
| 8200 motec | | | | | | | | | | |
| E82MV251_2B | M 10A | 10A | C 10A | 1.0 | 18 | M 10A | 10A | C 10A | 1.0 | 18 |
| E82MV371_2B | M 10A | 10A | C 10A | 1.5 | 16 | M 10A | 10A | C 10A | 1.5 | 16 |
| E82MV551_4B | M 6A | 5A | B 6A | 1 | 18 | M 6A | 5A | B 6A | 1 | 18 |
| E82MV751_4B | M 6A | 5A | B 6A | 1 | 18 | M 6A | 5A | B 6A | 1 | 18 |
| E82MV152_4B | M 6A | 5A | B 6A | 1 | 18 | M 10A | 10A | B 10A | 1.5 | 16 |
| E82MV222_4B | M 10A | 10A | B 10A | 1.5 | 16 | M 10A | 10A | B 10A | 1.5 | 16 |
| E82MV302_4B | M 16A | 15A | B 16A | 2.5 | 14 | M 16A | 15A | B 16A | 2.5 | 14 |
| E82MV402_4B | M 20A | 20A | B 20A | 4.0 | 12 | M 20A | 20A | B 20A | 4.0 | 12 |
| E82MV552_4B | M 25A | 25A | B 25A | 4.0 | 10 | M 32A | 25A | B 32A | 6.0 | 10 |
| E82MV752_4B | M 32A | 35A | B 32A | 6.0 | 8 | | | | | |

Please observe national and regional regulations.

Only use UL-approved fuses and fuse holders in UL-approved systems.

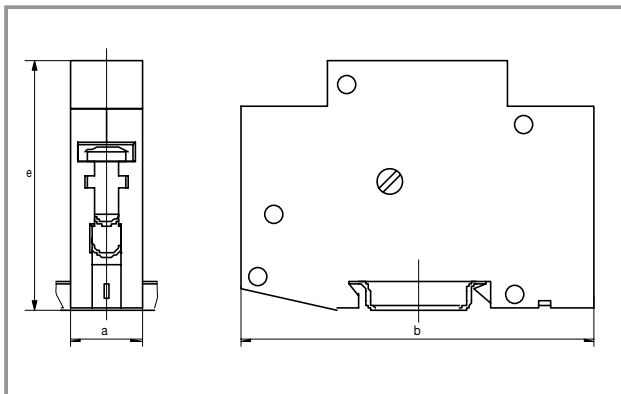
UL fuse: Voltage 240 V or 500...600 V,

Tripping characteristic "H" or "K5"

Cable protection (circuit breakers)

| Type | Circuit breakers | | | Quantity required |
|-------------|-------------------------------------|--|--------------|-------------------|
| | Normal operation (150% overload) | Operation at increased rated power (120% overload) | Order number | |
| 8200 motec | | | | |
| E82MV251_2B | C 10A | C 10A | EFA1C10A | 1 |
| E82MV371_2B | C 10A | C 10A | EFA1C10A | 1 |
| E82MV551_4B | B 6A | B 6A | EFA3B06A | 1 |
| E82MV751_4B | B 6A | B 6A | EFA3B06A | 1 |
| E82MV152_4B | B 6A | B 10A | EFA3B06A | 1 |
| E82MV222_4B | B 10A | B 10A | EFA3B10A | 1 |
| E82MV302_4B | B 16A | B 16A | EFA3B16A | 1 |
| E82MV402_4B | B 20A | B 20A | EFA3B20A | 1 |
| E82MV552_4B | B 25A | B 32A | EFA3B25A | 1 |
| E82MV752_4B | B 32A | – | EFA3B32A | 1 |

Dimensions of circuit breakers



EFA1XXXXA



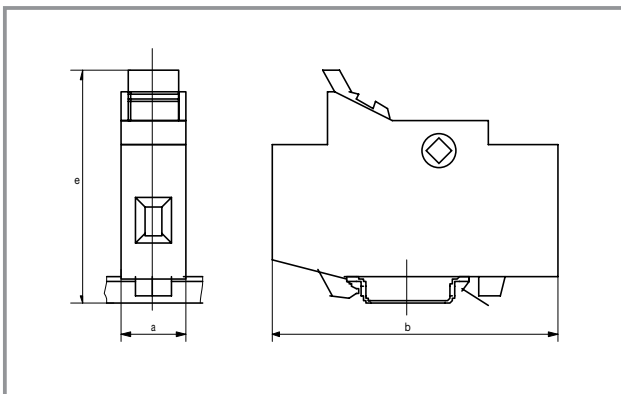
EFA3BXXXXA

| Type | a [mm] | b [mm] | e [mm] |
|------------|--------|--------|--------|
| EFA1XXXXA | 17.5 | 80 | 63 |
| EFA3BXXXXA | 53 | 90 | 63 |

Cable protection (fuses with assigned holders)

| Type | Rated current | Fuse | | Quantity required | Fuse holder | |
|-------------|---------------|---------|--------------|-------------------|--------------|-------------------|
| | | Size | Order number | | Order number | Quantity required |
| 8200 motec | | | | | | |
| E82MV251_2B | M 10A | 10 x 38 | EFSM-0100AWE | 1 | EFH10001 | 1 |
| E82MV371_2B | M 10A | 10 x 38 | EFSM-0100AWE | 1 | EFH10001 | 1 |
| E82MV551_4B | M 6A | 10 x 38 | EFSM-0060AWE | 3 | EFH10001 | 3 |
| E82MV751_4B | M 6A | 10 x 38 | EFSM-0060AWE | 3 | EFH10001 | 3 |
| E82MV152_4B | M 6A | 10 x 38 | EFSM-0060AWE | 3 | EFH10001 | 3 |
| E82MV222_4B | M 10A | 10 x 38 | EFSM-0100AWE | 3 | EFH10001 | 3 |
| E82MV302_4B | M 16A | 10 x 38 | EFSM-0160AWE | 3 | EFH10001 | 3 |
| E82MV402_4B | M 20A | 10 x 38 | EFSM-0200AWE | 3 | EFH10001 | 3 |
| E82MV552_4B | M 25A | 14 x 51 | EFSM-0250AXH | 3 | EFH10002 | 3 |
| E82MV752_4B | M 32A | 14 x 51 | EFSM-0320AWH | 3 | EFH10002 | 3 |

Fuse holder dimensions



| Type | a [mm] | b [mm] | e [mm] | Fuse dimensions |
|----------|--------|--------|--------|-----------------|
| EFH10001 | 17.5 | 81 | 68 | 10 x 38 |
| EFH10002 | 26 | 81 | 68 | 14 x 51 |

Mains chokes (EN 61000-3-2)

European Standard EN 61000-3-2 specifies limits for harmonic currents in the mains supply. Non-linear consumers (e.g. frequency inverters) generate harmonic currents which "contaminate" the supply network and can therefore cause interference to other consumers. The standard is designed to safeguard the quality of **public** supply systems and reduce the load on the mains.

On the 8200 motec frequency inverters listed, the following assigned mains chokes must be used for compliance with limit values to EN 61000-3-2:

Important: The standard is only to be applied on the public supply. Supplies with a dedicated transformer station (generally the case in industrial environments) are not public and therefore do **not** fall within the scope of application of the standard. If more than one component (e.g. 8200 motec) is installed in a single device or piece of machinery, then the standard should only be applied to the **overall machine**. Therefore, the limits must be satisfied by any device which is to be connected to the mains supply.

| 8200 motec | | | Mains choke | | | |
|-------------|-------------|------------|---------------|-----------------|--------|--------|
| Type | Voltage [V] | Power [kW] | Order no. | Inductance [mH] | Ir [A] | m [kg] |
| E82MV251_2B | 1 x 230 | 0.25 | ELN1-0900H005 | 9.0 | 5.0 | 1.0 |
| E82MV371_2B | | 0.37 | | | | |
| E82MV551_4B | 3 x 400 | 0.55 | EZN3A1500H003 | 15.0 | 2.5 | 0.5 |
| E82MV751_4B | | 0.75 | | | | |

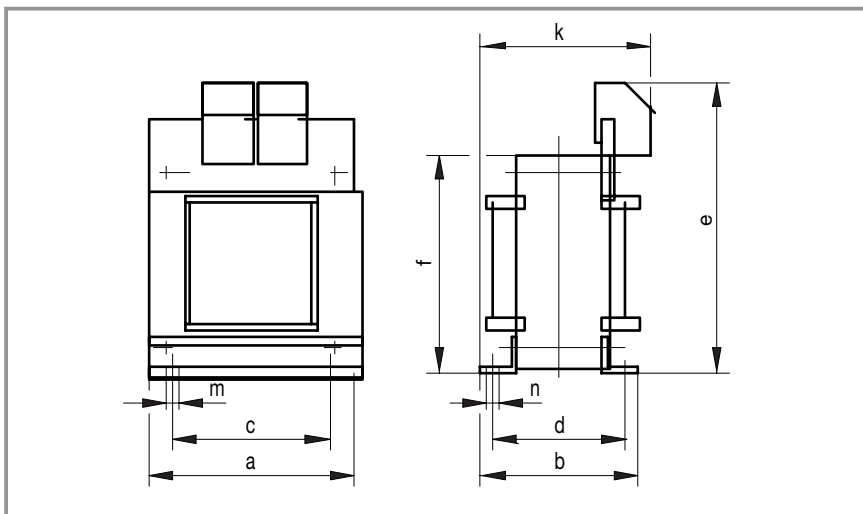
Please note:

- When using a mains choke, the maximum possible output voltage does not reach the value of the mains voltage – the typical mains voltage drop at the rated value is around 6%.
- 8200 motec frequency inverters are "professional devices in accordance with EN 61000-3-2"¹⁾.

¹⁾ Definition: "A device, designed for industrial use in certain professions or industries and not destined for general sale to the public. The application of the device must be specified by the manufacturer."

Dimensions of mains chokes

| Mains choke | a [mm] | b [mm] | c [mm] | d [mm] | e [mm] | f [mm] | k [mm] | m [mm] | n [mm] |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ELN1-0900H005 | 66 | 67 | 50 | 53 | 80 | 62 | 80 | 4.8 | 9 |
| EZN3A1500H003 | 95 | 82 | 56 | 35 | 115 | | | 5 | 9 |



8200 motec – Braking operation with brake resistor

External brake resistors are required to brake high moments of inertia or for extended generator mode operation. The brake resistor converts mechanical braking energy into heat.

The brake resistor integrated into the 8200 motec frequency inverter activates the external brake resistor if the DC

bus voltage exceeds the switching threshold. This prevents the frequency inverter setting a pulse inhibit due to the "Overvoltage" fault and the drive coasting. Braking is always controlled when using an external brake resistor.

Selection of brake resistors

The Lenze brake resistors recommended in the tables are appropriate for each frequency inverter (based on 150% regenerative power). They are suitable for most applications.

For specific applications, e.g. for centrifuges, hoists, etc., the suitable brake resistor must meet the following criteria:

| Brake resistor Criteria | Application | |
|------------------------------|---|---|
| | With active load | With passive load |
| Continuous braking power [W] | $\geq P_{\max} \cdot \eta_e \cdot \eta_m \cdot \frac{t_1}{t_{\text{cycl}}}$ | $\geq \frac{P_{\max} \cdot \eta_e \cdot \eta_m}{2} \cdot \frac{t_1}{t_{\text{cycl}}}$ |
| Thermal capacity [Ws] | $\geq P_{\max} \cdot \eta_e \cdot \eta_m \cdot t_1$ | $\geq \frac{P_{\max} \cdot \eta_e \cdot \eta_m}{2} \cdot t_1$ |
| Resistance [Ω] | $R_{\min} \leq R \leq \frac{U_{\text{DC}}^2}{P_{\max} \cdot \eta_e \cdot \eta_m}$ | |

| | |
|-----------------------|---|
| Active load | Can be set in motion independently of the drive (e.g. hoists, unwinders) |
| Passive load | Will be brought to a standstill independently of the drive (e.g. horizontal motion drives, centrifuges, fans) |
| U_{DC} [V] | Switching threshold, brake transistor |
| P_{\max} [W] | Maximum braking power defined by the application |
| η_e | Electrical efficiency (controller + motor) Guide value: 0.54 (0.25 kW) ... 0.85 (11 kW) |
| η_m | Mechanical efficiency (gearbox, machine) |
| t_1 [s] | Braking time |
| t_{cycl} [s] | Cycle time = Time between two consecutive braking operations (= t_1 + rest time) |

Brake resistors for the 8200 motec are supplied with high degrees of protection in order that they can be installed outside the control cabinet. This means that expensive HVAC units do not have to be installed to dissipate resulting power losses from the control cabinet.

8200 motec – Braking operation with brake resistor

Rated data of integrated brake transistor

| Brake transistor | | 8200 motec, 230 V | |
|--|--------------|---|-----------------|
| | | E82MV 251_2B | E82MV 371_2B |
| Switching threshold U_{DC} | [V DC] | 375 | |
| Peak current \hat{I} | [A DC] | 0.85 | |
| Max. continuous current | [A DC] | 0.85 | |
| Peak braking power at U_{DC} | [kW] | 0.3 | |
| Continuous braking power | [kW] | 0.3 | |
| Minimum permissible brake resistance R_{min} | [Ω] | 470 | |
| Power reduction | | 40°C < T < 60°C: 2%/K 1000 m amsl < h < 4000 m amsl: 5%/1000 m | |
| Switch-on cycle | | Max. 60 s peak braking power, then at least 60 s rest | |
| Recommended Lenze brake resistor | Order no. | ERBM470R110W | |
| Brake resistor enclosure | | IP55 | |

| Brake transistor | | 8200 motec, 400 V | | | |
|--|--------------|---|-------------|--------------|-------------|
| | | E82MV551_4B | E82MV751_4B | E82MV152_4B | E82MV222_4B |
| Switching threshold U_{DC} | [V DC] | 780 | | | |
| Peak current \hat{I} | [A DC] | 1.8 | | 4.0 | |
| Max. continuous current | [A DC] | 1.0 | | 2.5 | |
| Peak braking power at U_{DC} | [kW] | 1.4 | | 3.2 | |
| Continuous braking power | [kW] | 0.8 | | 2.0 | |
| Minimum permissible brake resistance | [Ω] | 450 | | 200 | |
| Power reduction | | 40°C < T < 60°C: 2%/K 1000 m amsl < h < 4000 m amsl: 5%/1000 m | | | |
| Switch-on cycle | | Max. 60 s peak braking power, then at least 60 s rest | | | |
| Recommended Lenze brake resistor ¹⁾ | Order no. | ERBM470R110W | | ERBM240R220W | |
| Brake resistor enclosure | | IP55 | | | |

¹⁾ The brake resistors are based on a switch-on cycle of 1:10 (max. 15 s braking, then at least 150 s recovery time)

8200 motec – Braking operation with brake resistor

Rated data of integrated brake transistor

| Brake transistor | | 8200 motec, 400 V | | | |
|--|--------------|---|--------------|--------------|--------------|
| | | E82MV302_4B | E82MV402_4B | E82MV552_4B | E82MV752_4B |
| Switching threshold U_{DC} | [V DC] | 780 | | | |
| Peak current \uparrow | [A DC] | 7.8 | 7.8 | 11.4 | 16.5 |
| Max. continuous current | [A DC] | 3.8 | 5.1 | 7.0 | 9.6 |
| Peak braking power at U_{DC} | [kW] | 6.1 | 6.1 | 8.9 | 12.9 |
| Continuous braking power | [kW] | 3.0 | 4.0 | 5.5 | 7.5 |
| Minimum permissible brake resistance, | [Ω] | 100 | 100 | 68 | 47 |
| Power reduction | | 40°C < T < 60°C: 2%/K 1000 m amsl < h < 4000 m amsl: 5%/1000 m | | | |
| Switch-on cycle | | Max. 60 s peak braking power, then at least 60 s rest | | | |
| | | E82MV302_4B | E82MV402_4B | E82MV552_4B | E82MV752_4B |
| Recommended Lenze brake resistor ¹⁾ | Order no. | ERBS180R350W | ERBS100R625W | ERBS100R625W | ERBS082R780W |
| Brake resistor enclosure | | IP65 | | | |

¹⁾ The brake resistors are based on a switch-on cycle of 1:10 (max. 15 s braking, then at least 150 s recovery time)

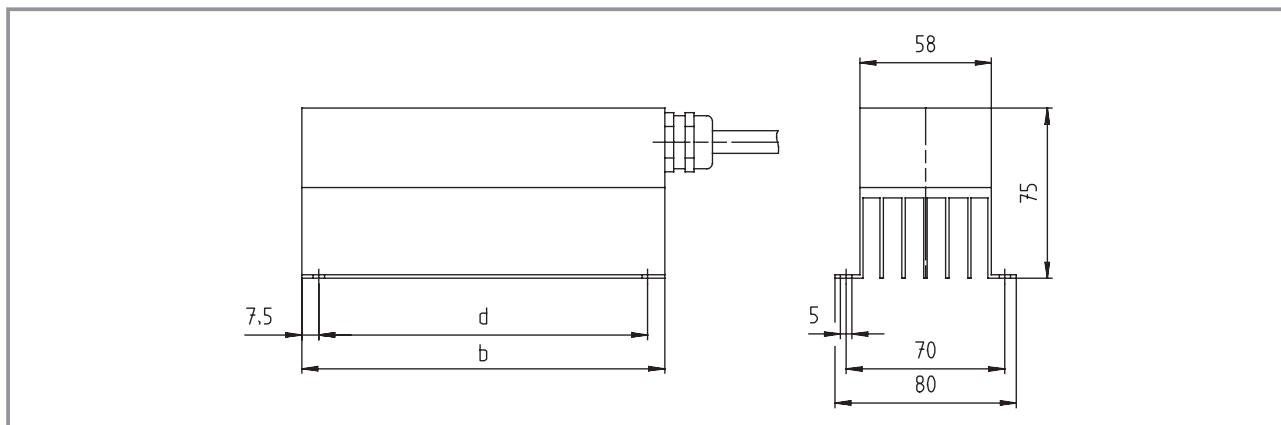
8200 motec – Braking operation with brake resistor

Rated data of brake resistors

| Lenze brake resistors | | | | | | | |
|-----------------------|--------------|---------------|-------|------------------|---|---------------------|-----|
| Order number | R | Braking power | | Thermal capacity | Switch-on cycle | Cable cross-section | |
| | [Ω] | [kW] | [kW] | [kW \cdot s] | | [mm 2] | AWG |
| ERBM470R110W | 470 | 1.3 | 0.11 | 16.5 | 1:10, max. 15 s braking at peak braking power, followed by at least 150 s recovery time | 1.5 | 16 |
| ERBM240R220W | 240 | 2.5 | 0.22 | 33 | | 1.5 | 16 |
| ERBS180R350W | 180 | 3.5 | 0.35 | 52.5 | | 1.5 | 18 |
| ERBS100R625W | 100 | 6.25 | 0.625 | 93.75 | | 1.5 | 18 |
| ERBS082R780W | 82 | 7.8 | 0.78 | 117 | | 2.5 | 14 |

Note: The brake resistors are fitted with a thermostat (NC contact) as standard.
Other brake resistors with IP20 enclosures appear in the 8200 vector frequency inverter product catalogue.

Dimensions of ERBM... (IP55) brake resistors



Note: ERBM...(IP55) brake resistors are supplied with a pre-assembled 2.5 m connecting cable.

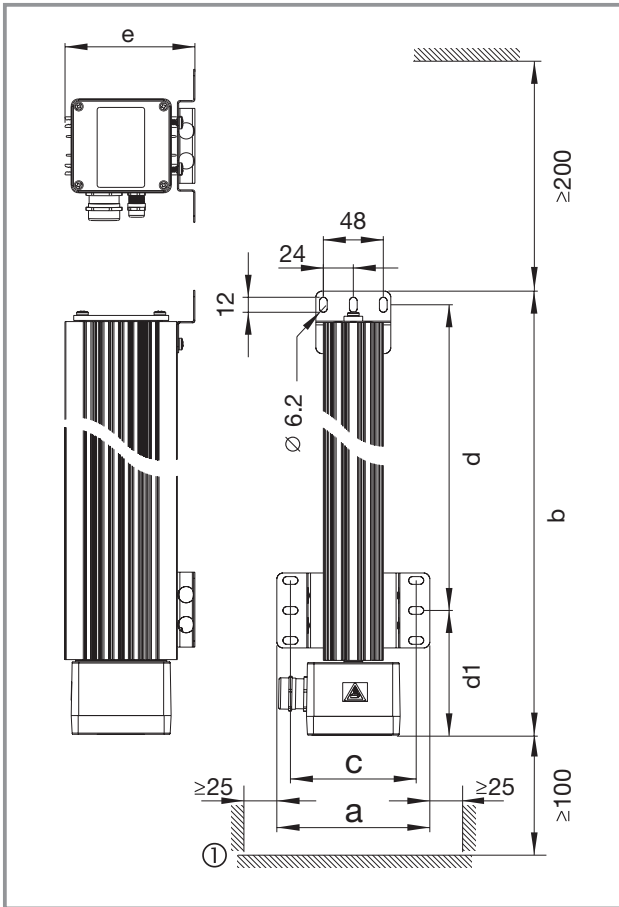
| Brake resistor | b [mm] | d [mm] |
|----------------|--------|--------|
| ERBM470R110W | 160 | 145 |
| ERBM240R220W | 340 | 325 |



ERBM... brake resistor with pre-assembled connecting cable in IP55

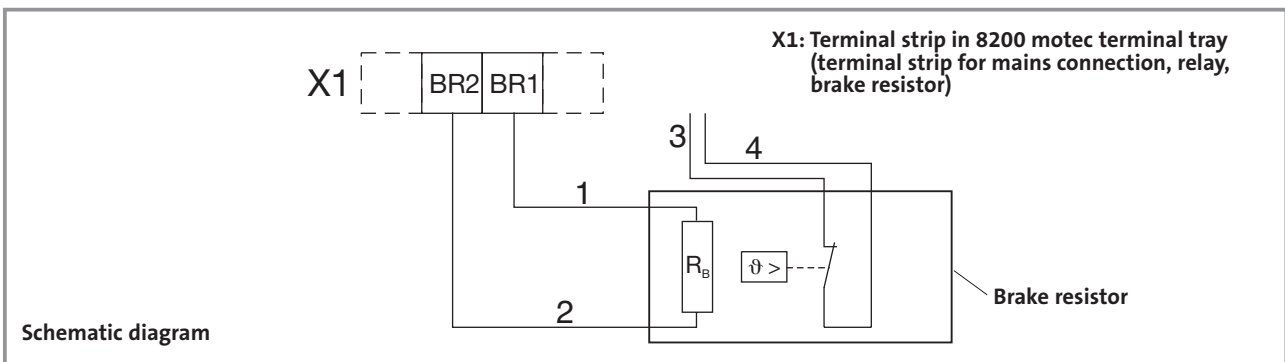
8200 motec – Braking operation with brake resistor

Dimensions of ERBS... (IP65) brake resistors



| Brake resistor | a | b | c | d | d1 | e | Weight [kg] |
|----------------|-----|-----|-----|-----|-----|-----|-------------|
| ERBS082R780W | 123 | 666 | 101 | 554 | 101 | 104 | 3.7 |
| ERBS100R625W | | 566 | | 454 | | | 3.2 |
| ERBS180R350W | | 381 | | 269 | | | 2.1 |

Connection of a brake resistor



1. 2: Resistor

3. 4: Temperature monitoring (thermostat/NC contact) to be integrated for example into the locking of the relevant supply mains contactor

8200 motec – Braking operation with brake motors

Overview

Lenze three-phase AC motors and G-motion geared motors can be fitted with spring-operated brakes.

A brake rectifier is required for the DC supply to the electro-mechanical motor brakes (180 V DC, 205 V DC). As shown below, this brake rectifier is included in the scope of supply:

| | 8200 motec | Brake rectifier ... |
|-----------|--|--|
| Example 1 | Installed on geared brake motor/three-phase AC brake motor | Installed in 8200 motec terminal tray ¹⁾ |
| Example 2 | For wall mounting + geared brake motor/three-phase AC brake motor | Installed in terminal box of geared motor/three-phase AC brake motor ²⁾ |

Important:

¹⁾ Only 6-pin brake rectifiers can be used in the 8200 motec terminal tray.

²⁾ Lenze brake motors (without 8200 motec) are supplied with 4-pin brake rectifiers as standard.

Depending on the brake voltage (180 V DC, 205 V DC), brake rectifiers may need to be used as bridge or half-wave rectifiers with input/output varistors (overvoltage protection).

Selection of brake rectifier

The brake rectifier is selected on the basis of the input voltage U_{AC} and the brake coil rated voltage (U_{coil}):

| Brake rectifier | Order no. ¹⁾ | Max. input voltage U_{AC} | Output voltage U_{DC} (V) | Max. output current | Selection example |
|---------------------------|---|-----------------------------|-------------------------------|---------------------|---|
| Bridge rectifier 6-pin | E82ZMBR1 (motec 0.25/0.37 kW, 230 V) ²⁾ E82ZWBR1 (motec 0.55-7.5 kW, 400 V) | 265 V + 0% | $U_{DC} = 0.9 \times U_{AC}$ | 0.75 A | $U_{coil} = 205 \text{ V DC} = U_{DC}$ at $U_{AC} = 230 \text{ V}$ |
| Half-wave rectifier 6-pin | E82ZWBR3 (motec 0.55-7.5 kW, 400 V) | 460 V + 0% | $U_{DC} = 0.45 \times U_{AC}$ | 0.75 A | $U_{coil} = 180 \text{ V DC} = U_{DC}$ at $U_{AC} = 400 \text{ V}$ |

¹⁾ When 8200 motec frequency inverters are installed on Lenze brake motors, the necessary brake rectifiers are preassembled.

²⁾ E82ZMBR1 corresponds to brake rectifier type E82ZWBR1 installed in additional terminal tray. Please note the change in the overall height (see dimension g1 in the dimensions tables).

E82ZWBR3 = Half-wave rectifier
Type 14.630.33.016

E82ZMBR1/E82ZWBR1 = Bridge rectifier
Type 14.630.35.016



8200 motec – Braking operation with brake motors

Actuation of the brake

The brake is either DC or AC-controlled. The delay times are significantly reduced if the brake is DC-controlled. This makes it possible, for example, to brake the motor with a reproducible stopping distance. DC-controlled switching requires a spark suppressor to protect the switching contact and the coil. The spark suppressor is integrated into 6-pin brake rectifiers.

We recommend that the relay output ¹⁾ of the 8200 motec

frequency inverter is used to switch the brake. Alternatively, the brake can be switched via an external control contact (e.g. PLC).

The following table lists the available options for Lenze brakes. The information relates to a mains rated voltage of 230/400 V +/-10%.

| Brake coils rated voltage | Type of rectifier | Brake size (braking torque [Nm]) | | | | | |
|---------------------------|-----------------------|--|----------|-----------|-----------|--|---------|
| | | 06 (4.0) | 08 (8.0) | 10 (16.0) | 12 (32.0) | 14 (60) | 16 (80) |
| | | Associated motor frame size | | | | | |
| | | 063/071 | 080/090 | 090/100 | 100/112 | 112/132 | 132 |
| 180 V | Half-wave | <ul style="list-style-type: none"> AC-controlled switching via the relay output of the 8200 motec only permissible with additional auxiliary relay DC-controlled switching or direct switching of a DC voltage via the relay output of the 8200 motec only permissible with additional auxiliary relay | | | | | |
| 205 V | Bridge | <ul style="list-style-type: none"> AC-controlled switching permissible via the relay output of the 8200 motec DC-controlled switching or direct switching of a DC voltage permissible via the relay output of the 8200 motec | | | | | |
| 24 V ²⁾ | No rectifier required | <ul style="list-style-type: none"> Direct switching of a DC voltage permissible via the relay output of the 8200 motec | | | | <ul style="list-style-type: none"> Direct switching of a DC voltage via the relay output of the 8200 motec only permissible with additional auxiliary relay | |

¹⁾ Technical data relay output 8200 motec:

AC 250 V/3 A, DC 24 V/2 A...240 V/0.22 A. The service life of the relay is determined by the load and the connected power.

²⁾ DC-controlled switching requires a spark suppressor to protect the switching contact and the coil.

8200 motec – Braking operation with brake motors

Actuation of the brake

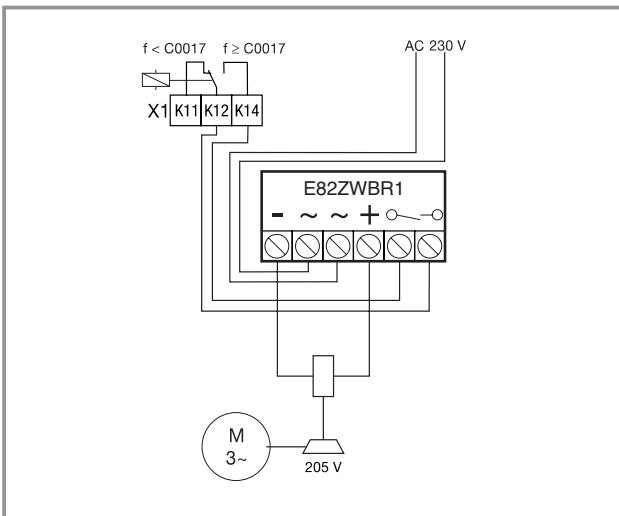
The relay must be programmed in order to actuate the electromechanical motor brake via the relay output of the 8200 motec frequency inverter.

Example: Release/engage brake (205 V) on exceeding/undershooting a configurable frequency threshold.

The braking operation can be induced via a digital signal which forces the drive to quick stop:
 (programming: relay C0008 = 7, frequency inverter threshold [Q_{min}] C0017 = 3 Hz; use relay terminals K12, K14 on terminal strip X1 of the 8200 motec)

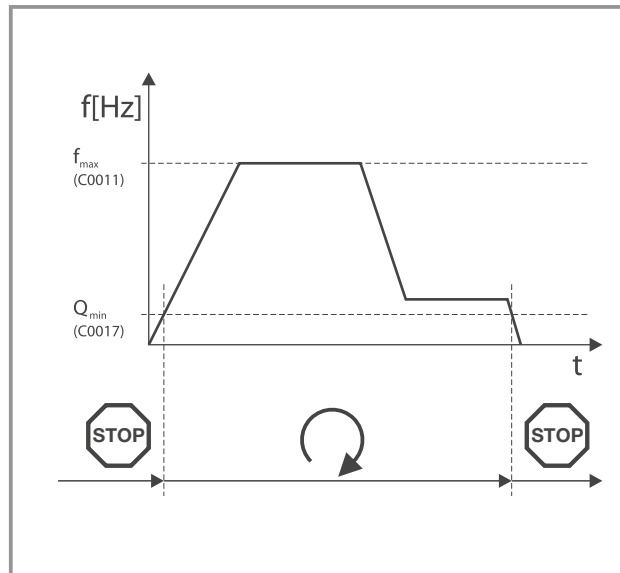
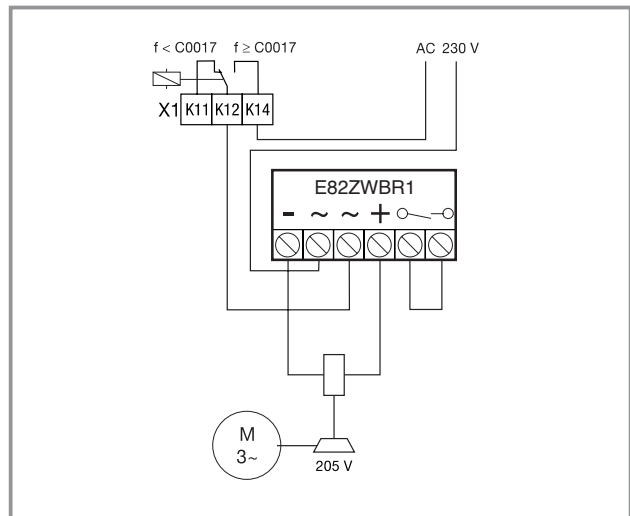
Block diagram

DC-controlled switching of brake



Block diagram

AC-controlled switching of brake



Brake switch

| | | |
|-----------------------------|-----------|----------|
| Brake switch enclosure IP65 | Order no. | E82ZWBRU |
|-----------------------------|-----------|----------|

The brake switch has an electronic circuit breaker which it can use to actuate spring-operated brakes. It is installed in a cable gland (M16), e.g. on the 8200 motec. This means that the 8200 motec can actuate a spring-operated brake directly even if, e.g., a bus I/O and a function module are being

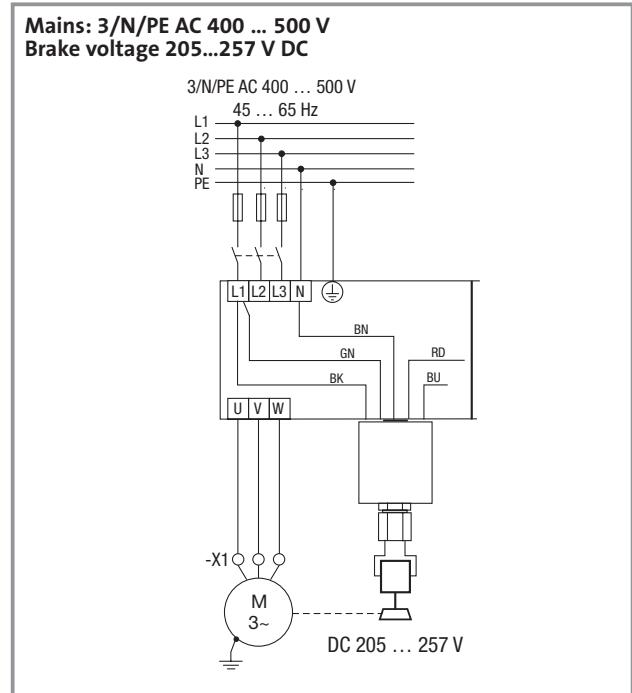
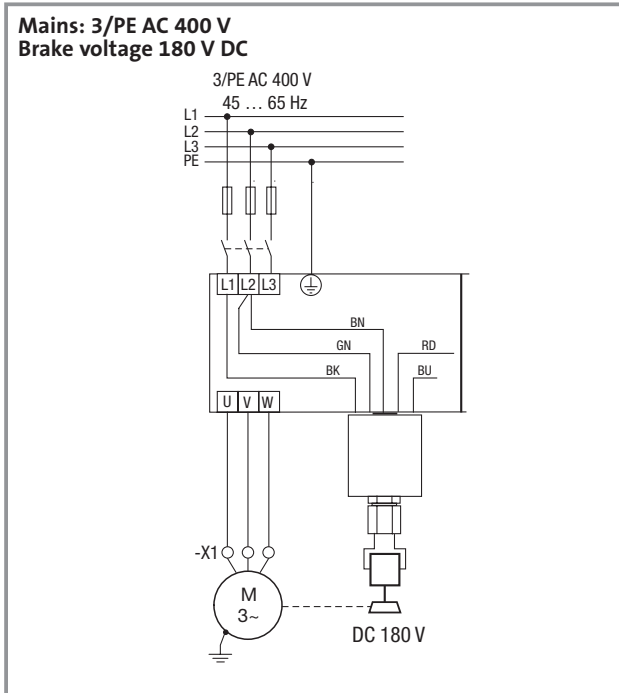
used simultaneously. The brake switch draws its power supply from the 8200 motec. It is actuated either via a digital signal or via the mains voltage.

| | | |
|------------------------------|--|----------------|
| Conformity | CE Low-Voltage Directive (37/23/EEC) | |
| Vibration resistance | Accelerational stability up to 2 g (Germanischer Lloyd, general conditions) | |
| Humidity class | Class 3K3 to EN 50178 (without condensation, average relative humidity 85%) | |
| Degree of pollution | VDE0110 Part 2 Degree of pollution 2 | |
| Temperature ranges | Transport -25°C ... +80°C Storage -25°C ... +80°C Operation -20°C ... +60°C | |
| Installation | In Lenze 8200 motec frequency inverter | |
| Noise emission | Limit class A to EN 55022 | |
| Insulation resistance | Overvoltage category III to VDE 0110 | |
| Enclosure | IP65 | |
| Input voltage | 1/N/PE AC 230 V, 45 Hz ... 65 Hz 3/PE AC 230 V, 45 Hz ... 65 Hz 3/PE AC 400 V, 45 Hz ... 65 Hz 3/N/PE AC 400 V, 45 Hz ... 65 Hz 3/N/PE AC 500 V, 45 Hz ... 65 Hz | |
| Output voltage | 205 V DC | 230 V AC mains |
| | 180 V DC/205 V DC | 400 V AC mains |
| | 257 V DC | 500 V AC mains |
| Brake current | 0.55 A | |
| Power loss | 3 W max. | |
| Control input (I) | HIGH (+12 V DC ... +30 V DC) LOW (0 ... +3 V DC) (PLC level, HTL) | |

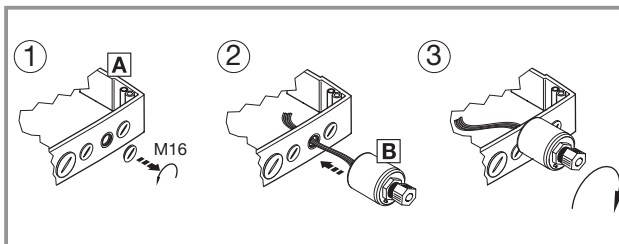
| Mains voltage | Brake voltage at B1, B2 | |
|-----------------|---|---|
| | $U_{B1B2} \approx 0.45 \times U_{L1BN}$ | $U_{B1B2} \approx 0.89 \times U_{L2/NBN}$ |
| 1/N/PE AC 230 V | Operation not permitted | 205 V DC |
| 3/PE AC 230 V | Operation not permitted | 205 V DC |
| 3/PE AC 400 V | 180 V DC | Operation not permitted |
| 3/N/PE AC 400 V | Operation not permitted | 205 V DC |
| 3/N/PE AC 500 V | Operation not permitted | 257 V DC |

The brake voltage at B1, B2 is determined by the mains voltage.

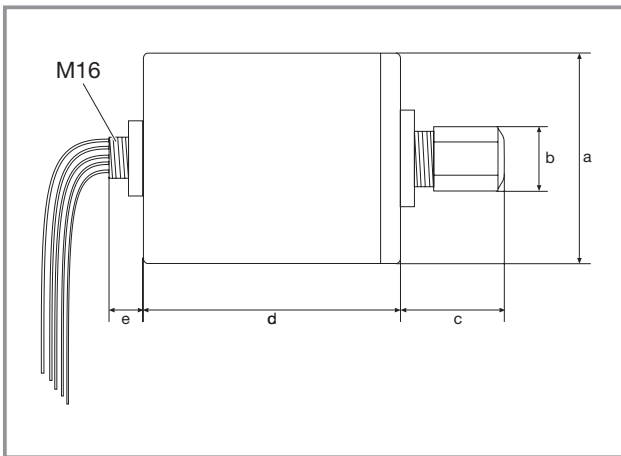
Connection examples for brake switch



Assembly procedure (schematic diagram)



Dimensions of brake switch



| Type | Dimensions [mm] | | | | |
|--------|-----------------|----|----|----|----|
| | a | b | c | d | e |
| E82ZBU | 50 | 24 | 35 | 55 | 10 |

General features

The wiring terminals enable mains and control cables to be looped and connected in the 8200 motec carrier housing.

| Wiring terminal | Version | Area of application |
|---------------------|--|---|
| Mains bus connector | <ul style="list-style-type: none"> • 2.5 mm² (0.25 - 0.37 kW, 230 V) • 4 mm² (0.55 - 2.2 kW, 400 V) • 4 mm² (3.0 - 7.5 kW) using twin wire end ferrules by Phoenix Contact AI-TWIN 2x4-12GY • Select a fuse rating for the cable cross-section used, taking into account applicable regulations | Looping and connection of mains cables |
| Terminal fan | <ul style="list-style-type: none"> • 2 x 2.5 mm² (0.55 - 2.2 kW, 400 V) | Connection of a separate motor fan with a fan cable |
| System terminals | <ul style="list-style-type: none"> • 12 x 1.5 mm² (0.55 - 2.2 kW, 400 V) • 10 x 1.5 mm² (0.25/0.37 kW, 230 V) * | Looping and connection of control cables |

* In preparation



Mains bus connector E82ZWKN4 for use in 8200 motec 0.55 to 2.2 kW



Mains bus connector E82ZWKN2 for use in 8200 motec 0.25 to 0.37 kW

Mains bus connectors

In conjunction with the mains bus connectors, a "power bus" can be built, i.e. the supply voltage is "looped" in the 8200 motec frequency inverter terminal tray.

8200 motec 0.25-2.2 kW

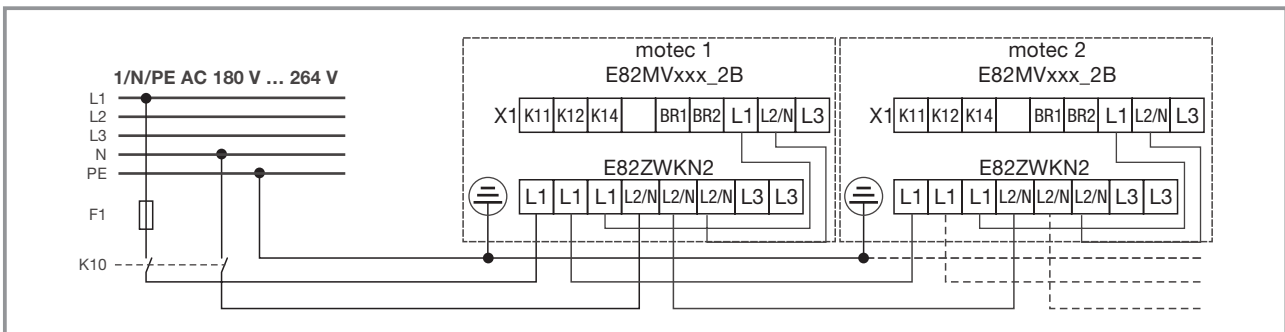
| 8200 motec | | Mains bus connector | |
|--|--------------------------|------------------------|-----------|
| Type | Mains current [A] | Max. mains current [A] | Order no. |
| 0.25 kW, 230 V 0.37 kW, 230 V | 3.4 5.0 | 16 | E82ZWKN2 |
| 0.55 kW, 400 V 0.75 kW, 400 V 1.5 kW, 400 V 2.2 kW, 400 V | 1.8 2.4 3.8 5.5 | 24 | E82ZWKN4 |

8200 motec 3.0-7.5 kW

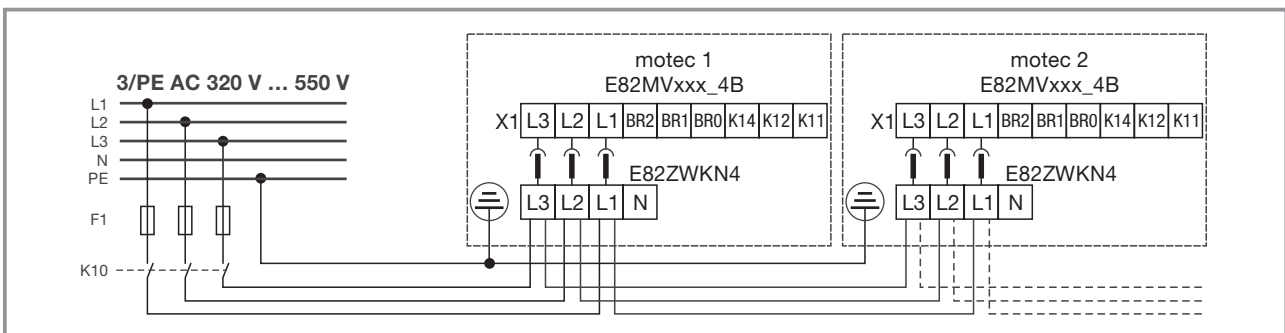
The use of twin wire end ferrules enables mains cables up to 4 mm² to be "looped" directly to the terminal strip in the terminal tray.

Ordering example for twin wire end ferrules from Phoenix Contact AI-TWIN 2x4-12GY.

Block diagram 8200 motec 1 ~ 230 V, 0.25...0.37 kW



Block diagram 8200 motec 3 ~ 400 V, 0.55...2.2 kW



Tip: Using mains contactors enables starting currents to be derated via current limiting modules (see page 9-79).

Accessories 8200 motec

Current limiting modules

A current limiting module reduces the current peak when the 8200 motec(s) is (are) connected to the supply system.

Assignment

| 8200 motec | Mains contactor [kW] with current limiting module for connection of... | | | | | | Current limitation |
|--|--|----------|----------|----------|----------|----------|---|
| | 1 motec | 2 motecs | 3 motecs | 4 motecs | 5 motecs | 6 motecs | |
| 0.25 kW, 230 V 0.37 kW, 230 V | 4 kW | | | | | | Current limiting module Order no. E82ZJ004 |
| 0.55 kW, 400 V 0.75 kW, 400 V 1.5 kW, 400 V 2.2 kW, 400 V | 4 kW | 5.5 kW | 7.5 kW | 11 kW | | | Mains choke/filter Order no. EZN3A0150H024 ¹⁾ |

¹⁾ Alternative E82ZJ004 possible (use one module for each phase)

Technical data

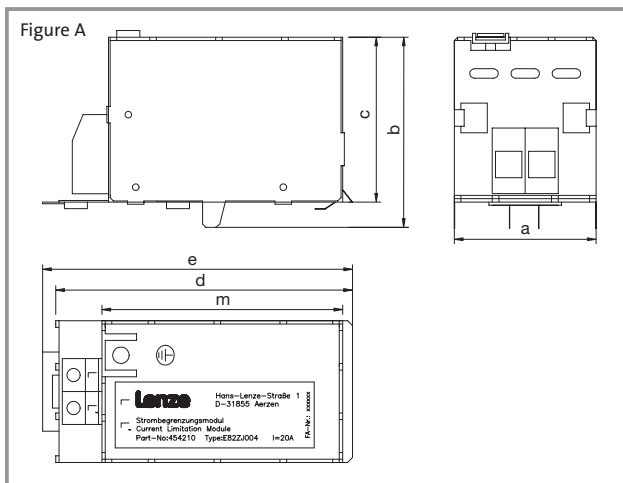
| Order no. | I_r [A] | m [kg] |
|---|-----------|--------|
| E82ZJ004 ¹⁾ /Current limiting module | 20 | 0.13 |
| EZN3A0150H024 / Mains choke/filter | 24 | 8.2 |

¹⁾ For DIN rail mounting to EN50022 35 x 7.5 and 35 x 15

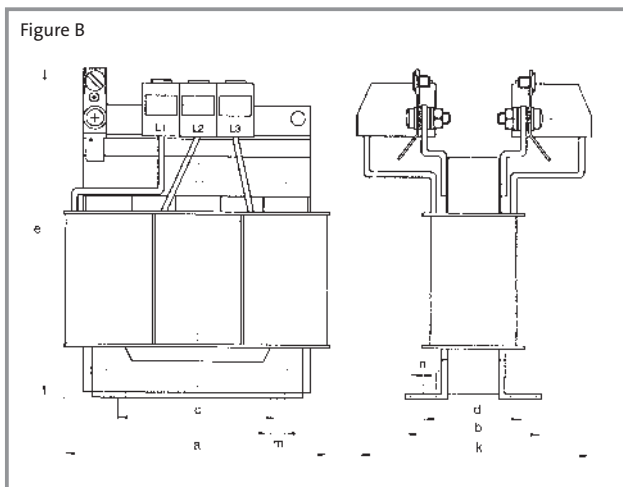
Dimensions

| Order no. | Figure | a [mm] | b [mm] | c [mm] | d [mm] | e [mm] | m [mm] | n [mm] |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| E82ZJ004 ¹⁾ /Current limiting module | A | 43 | 57 | 50 | 86 | 91 | 70 | |
| EZN3A0150H024 / Mains choke/filter | B | 180 | 120 | 136 | 67 | 192 | 7 | 12 |

¹⁾ For DIN rail mounting to EN 50022 35 x 7.5 and 35 x 15



Current limiting module E82ZJ004



Mains choke/filter EZN3A0150H024

Switch/potentiometer unit

| | | |
|---------------------------|-----------|--------|
| Switch/potentiometer unit | Order no. | E82ZBU |
|---------------------------|-----------|--------|

The switch/potentiometer unit (IP65 enclosure) is installed directly on the 8200 motec frequency inverter or, for ease of accessibility, on the system.

The switch/potentiometer unit and an I/O function module (standard I/O, application I/O, bus I/O) can be used to pre-select an analog setpoint on the frequency inverter; the

rotary switch can be used to start/stop the drive or change the direction of rotation.

Note:

An application example with the switch/potentiometer unit appears on page 9-83.



Switch/potentiometer unit

Scope of supply

- 1 switch/potentiometer unit prefabricated with 2.5 m connecting cable
- 1 mounting plate 60 mm x 60 mm
- 4 M4 x 30 screws for fixing the switch/potentiometer unit to the mounting plate
- 2 M4 x 20 screws with spring steel sheet for fixing to the 8200 motec heatsink

General data and operating conditions

| | | |
|------------------------|--------------------------------|-----------|
| Enclosure | IP65 | |
| Dimensions (W x H x D) | Approx. 65 mm x 115 mm x 85 mm | |
| Assembly options | On the motec heatsink | On a wall |

Potentiometer unit

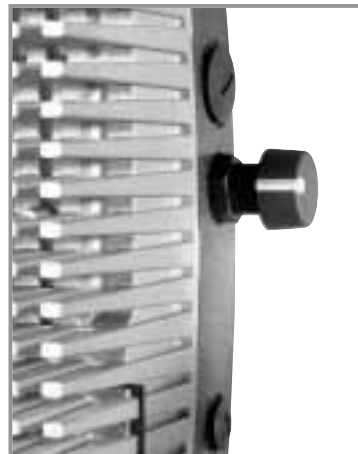
| | | |
|--|-----------|-----------|
| Potentiometer unit/Potentiometer 10 kΩ | Order no. | E82ZBR020 |
|--|-----------|-----------|

The potentiometer unit is fitted directly in an M20 cable gland (e.g. in the terminal tray on the 8200 motec). In conjunction with an I/O function module (standard I/O, application I/O, BUS I/O), the integrated potentiometer unit can be used to preselect an analog setpoint on the frequency inverter.

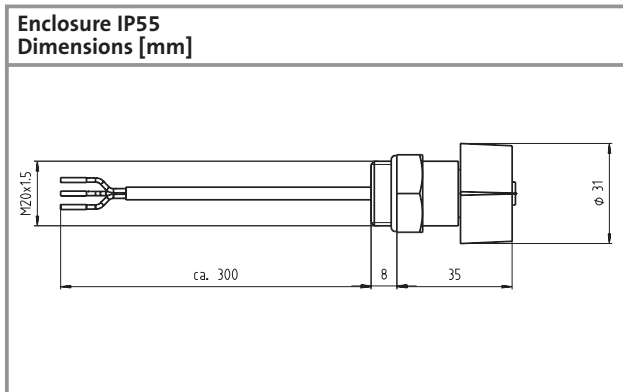
Switch unit

| | | |
|-------------|-----------|-----------|
| Switch unit | Order no. | E82ZBS020 |
|-------------|-----------|-----------|

The switch unit is fitted directly in an M20 cable gland (e.g. in the terminal tray on the 8200 motec). The controller can be actuated easily via the digital inputs (standard I/O, application I/O, BUS I/O on the 8200 motec) using the integrated switch.



General data and operating conditions for potentiometer unit and switch unit

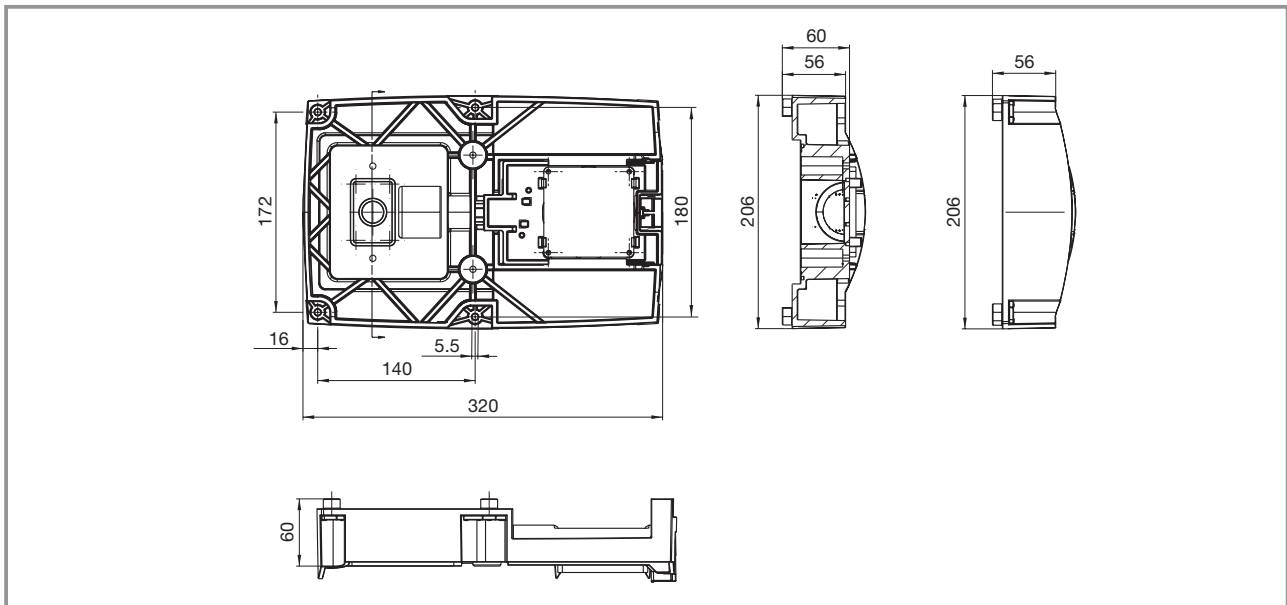


Assembly options

The unit is fitted in an M20 bore.

Add-on module for 8200 motec 3.0-7.5 kW

| | | |
|------------------------------|-----------|--------|
| Add-on module IP54 enclosure | Order no. | E82ZMV |
|------------------------------|-----------|--------|



The E82ZMV add-on module features an electric fan with IP54 enclosure which draws its power supply directly from the 8200 motec.

The module is required on:
– Geared motors with integral fans which run without derating of the rated output current

Dimensions of geared motor with add-on module page 8-16.

General accessories 8200 motec

| Accessories | Designation | Order no. |
|---|---|--|
| Communication modules | Operating module Keypad XT complete with diagnosis terminal Keypad complete with diagnosis terminal LECOM-A (RS232) with diagnosis terminal | E82ZBBXC E82ZBB E82ZBL-C |
| I/O function modules | Standard I/O Application I/O BUS I/O | E82ZAFSC001 E82ZAFAC001 See type-specific accessories |
| Fieldbus function modules | CAN (system bus) CAN I/O (system bus) PROFIBUS-DP INTERBUS LECOM-B (RS485) AS-Interface | E82ZAFCC001 E82ZAFCC201 E82ZAFPC001 E82ZAFIC001 E82ZAFLC001 E82ZAFFC001 |
| Braking operation | Brake resistors, rectifiers Brake switch (in preparation) | See type-specific accessories E82ZWBRU |
| Wiring terminals | | See type-specific accessories |
| Current limiting modules | | See type-specific accessories |
| Assembly guides | Adapter plates | See type-specific accessories |
| Controls | Switch/potentiometer unit Potentiometer unit Switch unit | E82ZBU E82ZBR020 E82ZBS020 |
| Miscellaneous | Connecting cable 2.5 m Connecting cable 5.0 m Connecting cable 10.0 m PC system cable RS232 0.5 m PC system cable RS232 5.0 m PC system cable RS232 10.0 m Assembly kit for control cabinet AS-i flat-cable connection | E82ZWL025 E82ZWL050 E82ZWL100 EWL0048 EWL0020 EWL0021 E82ZBHT E82ZMFF |
| Operating Instructions 8200 motec ¹⁾ | German English French | E82ZMV752 |
| Communication Manual LECOM ¹⁾ | German English French | EDSLECOM |
| Communication Manual CAN ¹⁾ | German English French | EDSCAN |
| Communication Manual PROFIBUS ¹⁾ | German English French | EDSPBUS |
| Communication Manual INTERBUS ¹⁾ | German English French | EDSIBUS |

¹⁾ Please indicate the language you require when placing your order.

Type-specific accessories 8200 motec 0.25/0.37 kW (1~230 V)

| Designation | Type | |
|-------------------------|---------------------------|--------------|
| | E82MV251_2B | E82MV371_2B |
| Circuit breaker | EFA1C10A | EFA1C10A |
| Fuse | EFSM-0100AWE | EFSM-0100AWE |
| Fuse holder | EFH10001 | EFH10001 |
| Brake resistor IP55 | ERBM470R110W | |
| Mains bus connector | E82ZWKN2 | |
| System terminals | E82ZMKS (in preparation) | |
| Brake rectifier | Bridge rectifier E82ZMBR1 | |
| Current limiting module | E82ZJ004 | |
| Mains choke | ELN 1-0900H005 | |
| BUS I/O | E82ZMFB001 | |
| Adapter plates | EJ0048 | |

8200 motec 0.55 - 2.2 kW (3~400 V)

| Designation | Type | | | |
|-------------------------|---|--------------|---|--------------|
| | E82MV551_4B | E82MV751_4B | E82MV152_4B | E82MV222_4B |
| Circuit breaker | EFA3B06A | EFA3B06A | EFA3B06A (EFA3B10A ¹) | EFA3B10A |
| Fuse | EFSM-0060AWE | EFSM-0060AWE | EFSM-0060AWE EFSM-0100AWE ¹) | EFSM-0100AWE |
| Fuse holder | EFH10001 | EFH10001 | EFH10001 | EFH10001 |
| Brake resistor IP55 | ERBM470R110W | | ERBM240R220W | |
| Mains bus connector | E82ZWKN4 | | | |
| System terminals | E82ZWKS | | | |
| Fan connection terminal | E82ZWKL | | | |
| Brake rectifier | Bridge rectifier E82ZWBR1 (type 14.630.32.016) Half-wave rectifier E82ZWBR3 (type 14.630.33.016) | | | |
| Current limiting module | EZN3A0150H024 or 3 x E82ZJ004 | | | |
| Mains choke | EZN3A1500H003 | | | |
| BUS I/O | E82ZAFB001 | | | |
| Adapter plates | EJ0047/EJ0048 | | | |

¹⁾ Use for operation with increased rated power

8200 motec 3.0 - 7.5 kW (3~400 V)

| Designation | Type | | | |
|---------------------|---|--------------|--|--------------|
| | E82MV302_4B | E82MV402_4B | E82MV552_4B | E82MV752_4B |
| Circuit breaker | EFA3B16A | EFA3B20A | EFA3B25A EFA3B32A ¹⁾ | EFA3B32A |
| Fuse | EFSM-0160AWE | EFSM-0200AWE | EFSM-0250AXH EFSM-0320AWH ¹⁾ | EFSM-0320AWH |
| Fuse holder | EFH10001 | EFH10001 | EFH10002 | EFH10002 |
| Fan module | E82ZMV | | | |
| Brake resistor IP65 | ERBS180R350W | ERBS100R625W | ERBS100R625W | ERBS082R780W |
| Brake rectifier | Bridge rectifier E82ZWBR1 (type 14.630.32.016) Half-wave rectifier E82ZWBR3 (type 14.630.33.016) | | | |
| BUS I/O | E82ZAFB201 | | | |
| Adapter plates | EJ0050 (in preparation) | | | |

¹⁾ Use for operation with increased rated power

8200 motec 0.25/0.37 kW, 230 V, possible combinations

| Options | Can be combined with | | | | | | | | |
|---|----------------------|-----------------------|--|---------------------|---|--|--------------|-------------|-----------|
| | Switch/pot. unit | Brake resistor (IP55) | Fieldbus function module INTERBUS or PROFIBUS or LECOM-B or system bus (CAN) | Mains bus connector | Brake rectifier ¹⁾ or system terminals ¹⁾ | Diagnosis terminal ²⁾ or handheld with PC interface (RS232) ²⁾ | Brake switch | Switch unit | Pot. unit |
| 8200 motec with I/O function module standard I/O | ● | ● | | ● | ● | ● | ● | ● | ● |
| 8200 motec with I/O function module application I/O | ● | ● | | ● | ● | ● | ● | ● | ● |
| 8200 motec with I/O function module bus I/O ¹⁾ | ● | ● | ● | ● | | ● | ● | ● | ● |
| 8200 motec with fieldbus function module CAN (system bus) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module CANopen | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module DeviceNet | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module CAN I/O (system bus) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module PROFIBUS-DP | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module INTERBUS | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module LECOM-B (RS485) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module AS-Interface | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec without function module | | ● | | ● | ● | ● | ● | | |

¹⁾ Please note the change in the overall height. A fieldbus function module MUST be selected.

²⁾ E82ZWLxxx connecting cable also required (EWL00xx PC system cable also required for PC interface).

8200 motec 0.55 - 2.2 kW, 400 V, possible combinations

| Options | Can be combined with | | | | | | | | |
|---|----------------------|-----------------------|--|---------------------|--|--|--------------|-------------|-----------|
| | Switch/pot. unit | Brake resistor (IP55) | Fieldbus function module INTERBUS or PROFIBUS or LECOM-B or system bus (CAN) | Mains bus connector | Brake rectifier or system terminals or fan connection terminal | Diagnosis terminal ¹⁾ or handheld with PC interface (RS232) ²⁾ | Brake switch | Switch unit | Pot. unit |
| 8200 motec with I/O function module standard I/O | ● | ● | | ● | ● | ● | ● | ● | ● |
| 8200 motec with I/O function module application I/O | ● | ● | | ● | ● | ● | ● | ● | ● |
| 8200 motec with I/O function module bus I/O ¹⁾ | ● | ● | ● | ● | | ● | ● | ● | ● |
| 8200 motec with fieldbus function module CAN (system bus) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module CANopen | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module DeviceNet | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module CAN I/O (system bus) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module PROFIBUS-DP | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module INTERBUS | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module LECOM-B (RS485) | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec with fieldbus function module AS-Interface | ● | ● | | ● | ● | ● | ● | ● | |
| 8200 motec without function module | | ● | | ● | ● | ● | ● | | |

¹⁾ A fieldbus function module MUST be selected.

²⁾ E82ZWLxxx connecting cable also required (EWL00xx PC system cable also required for PC interface).

8200 motec 3.0 - 7.5 kW, 400 V, possible combinations

| Options | Can be combined with | | | | | | | | |
|---|----------------------|-----------------------|--|--------------------------------------|-----------------|--|--------------|-------------|-----------|
| | Switch/pot. unit | Brake resistor (IP65) | Fieldbus function module INTERBUS or PROFIBUS or LECOM-B or system bus (CAN) | Add-on module e.g. for wall mounting | Brake rectifier | Diagnosis terminal ¹⁾ or handheld with PC interface (RS232) ²⁾ | Brake switch | Switch unit | Pot. unit |
| 8200 motec with I/O function module standard I/O | • | • | | • | • | • | • | • | • |
| 8200 motec with I/O function module application I/O | • | • | | • | • | • | • | • | • |
| 8200 motec with I/O function module bus I/O ¹⁾ | • | • | • | • | • | • | • | • | • |
| 8200 motec with fieldbus function module CAN (system bus) | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module CANopen | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module DeviceNet | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module CAN I/O (system bus) | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module PROFIBUS-DP | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module INTERBUS | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module LECOM-B (RS485) | • | • | | • | • | • | • | • | |
| 8200 motec with fieldbus function module AS-Interface | • | • | | • | • | • | • | • | |
| 8200 motec without function module | | • | | • | • | • | • | | |

¹⁾ A fieldbus function module MUST be selected.

²⁾ E82ZWLxxx connecting cable also required (EWL00xx PC system cable also required for PC interface).





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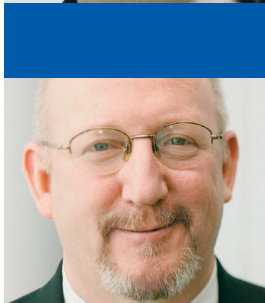
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