

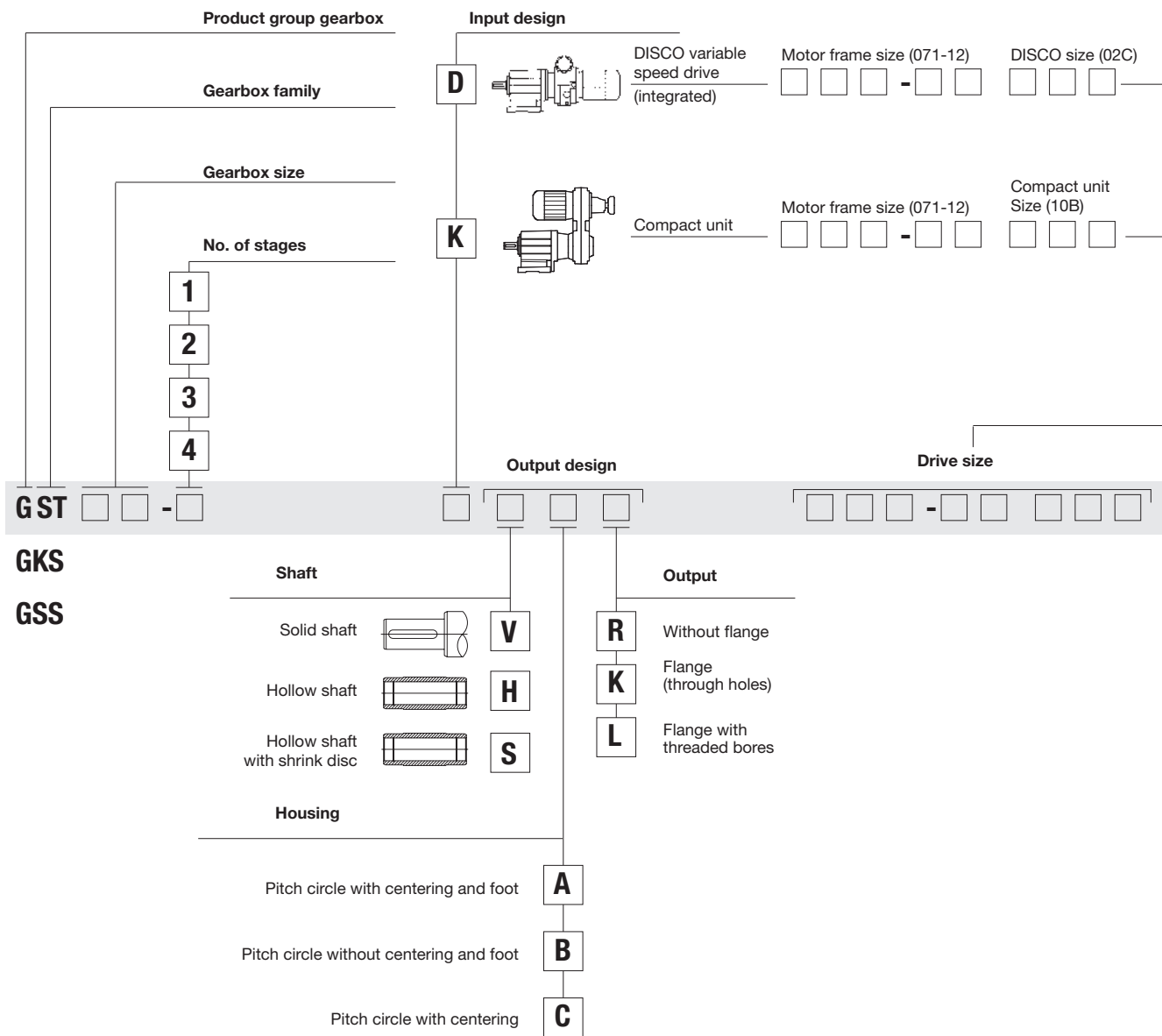
Disco variable speed drives

Compact units

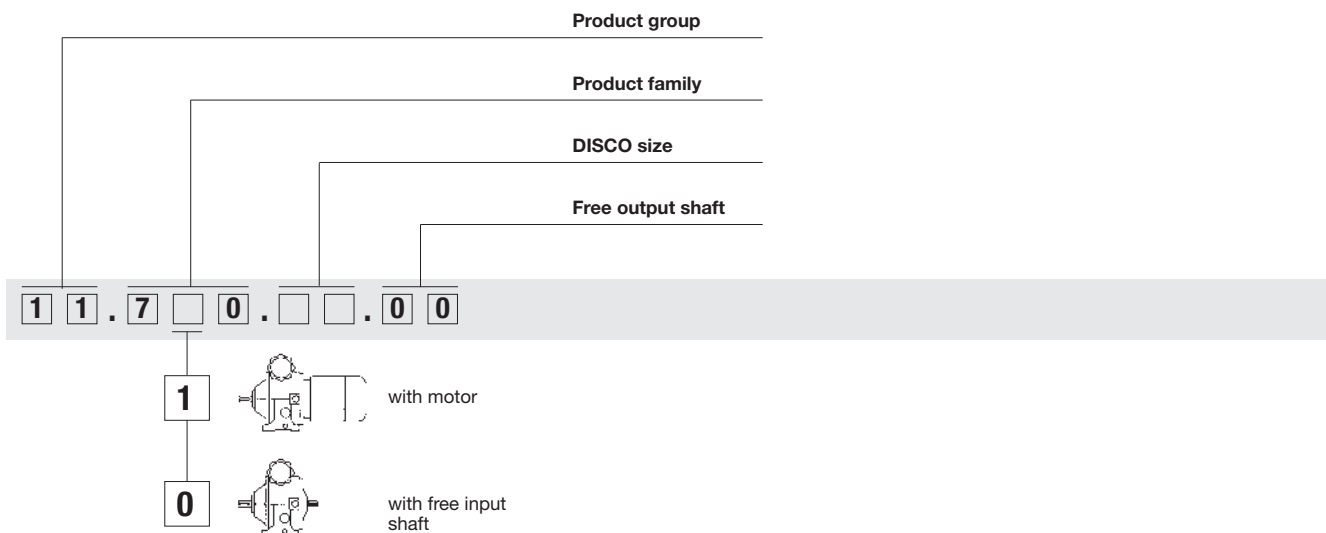
Variable speed pulleys

Product key

Variable speed drives with gearboxes



Disco variable speed drive without gearbox



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

Compact units

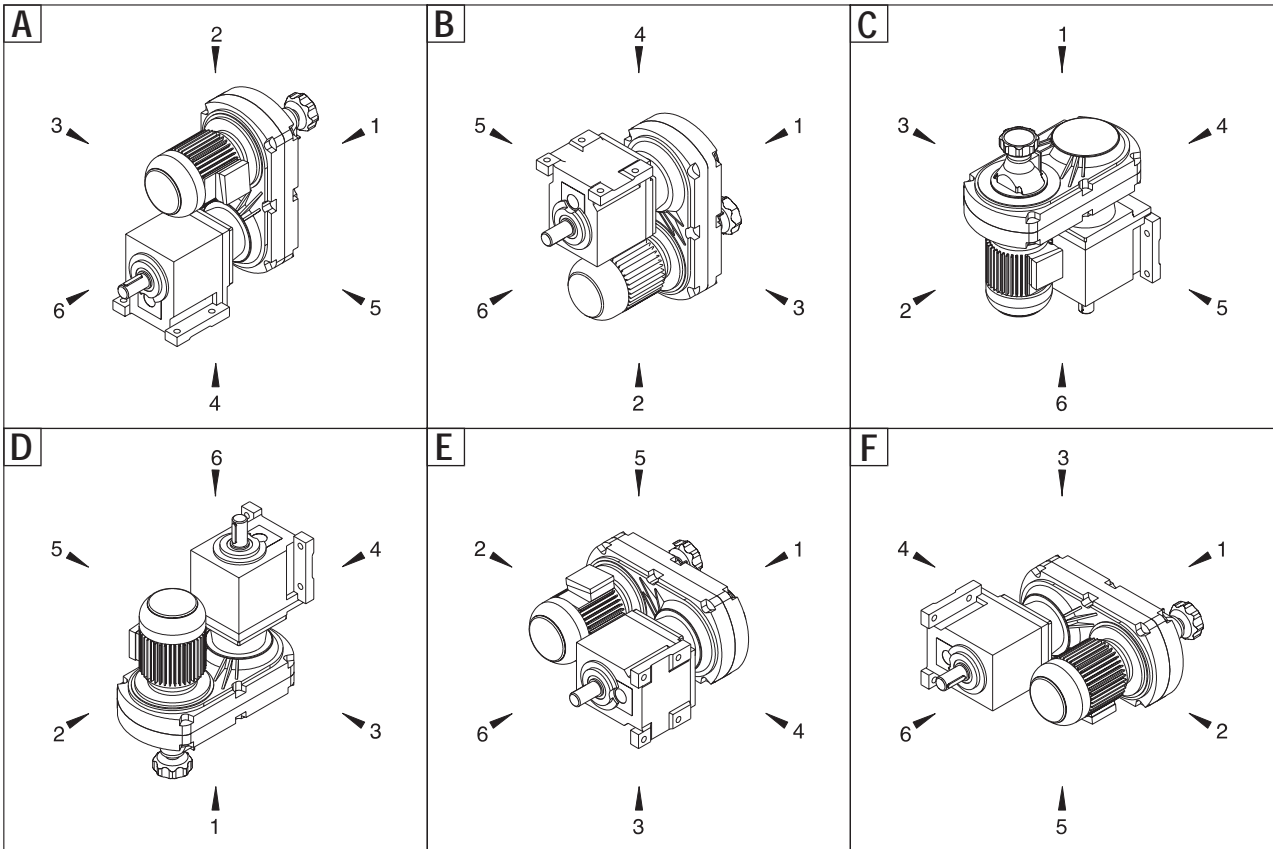
with helical gearbox

GST□□-□K

Terminal box: 2, 3, 4, 5

Motor: 1=Z, 6=U

Variable speed belt drive: 2, 3, 4, 5



with helical-bevel gearbox and helical-worm gearbox

GKS□□-□K

Solid shaft: 3, 5, 3+5

Flange: 3, 5, 3+5

Terminal box: 2, 3, 4, 5

Hollow shaft: 0

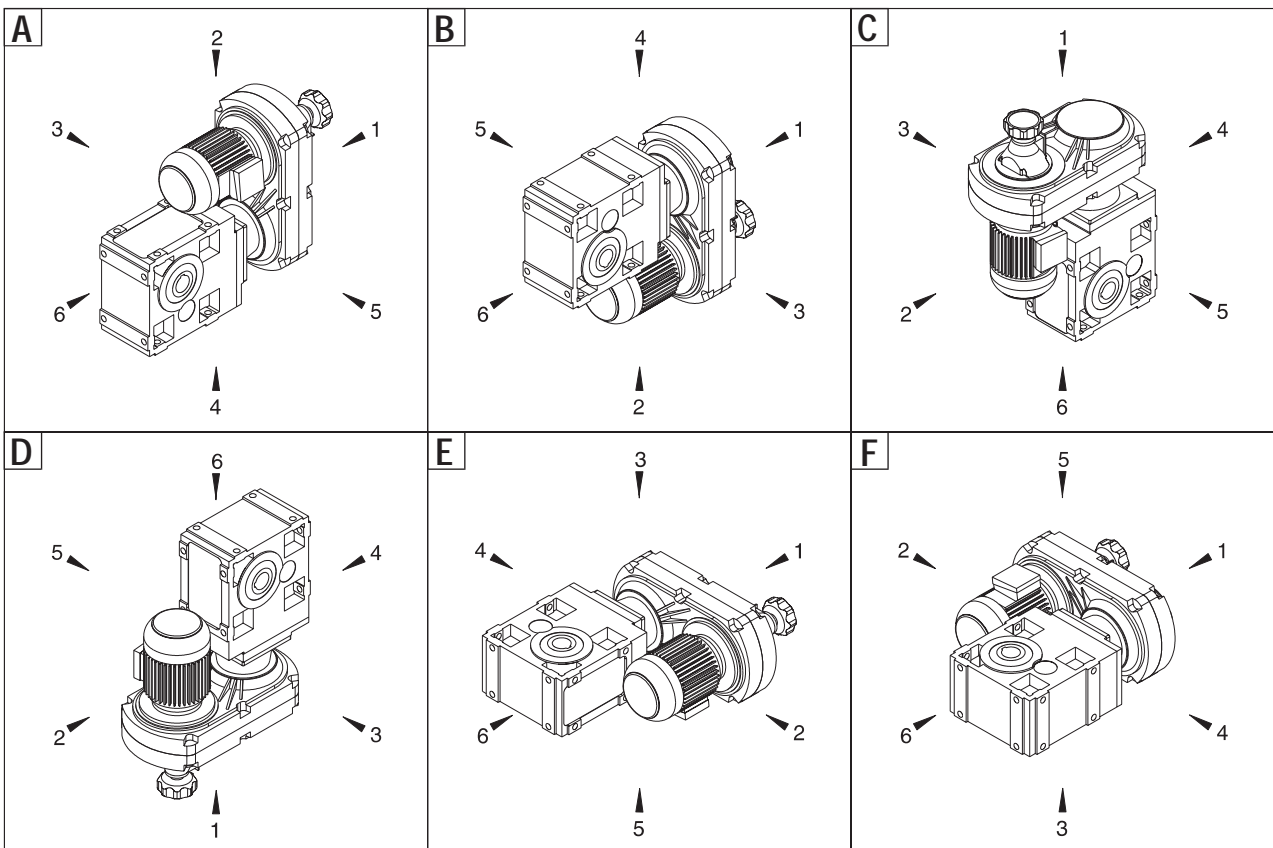
without flange: 0

Motor: 1=Z, 6=U

GSS□□-□K

Hollow shaft with shrink disc: 3, 5

Variable speed belt drive: 2, 3, 4, 5



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

DISCO variable speed drives

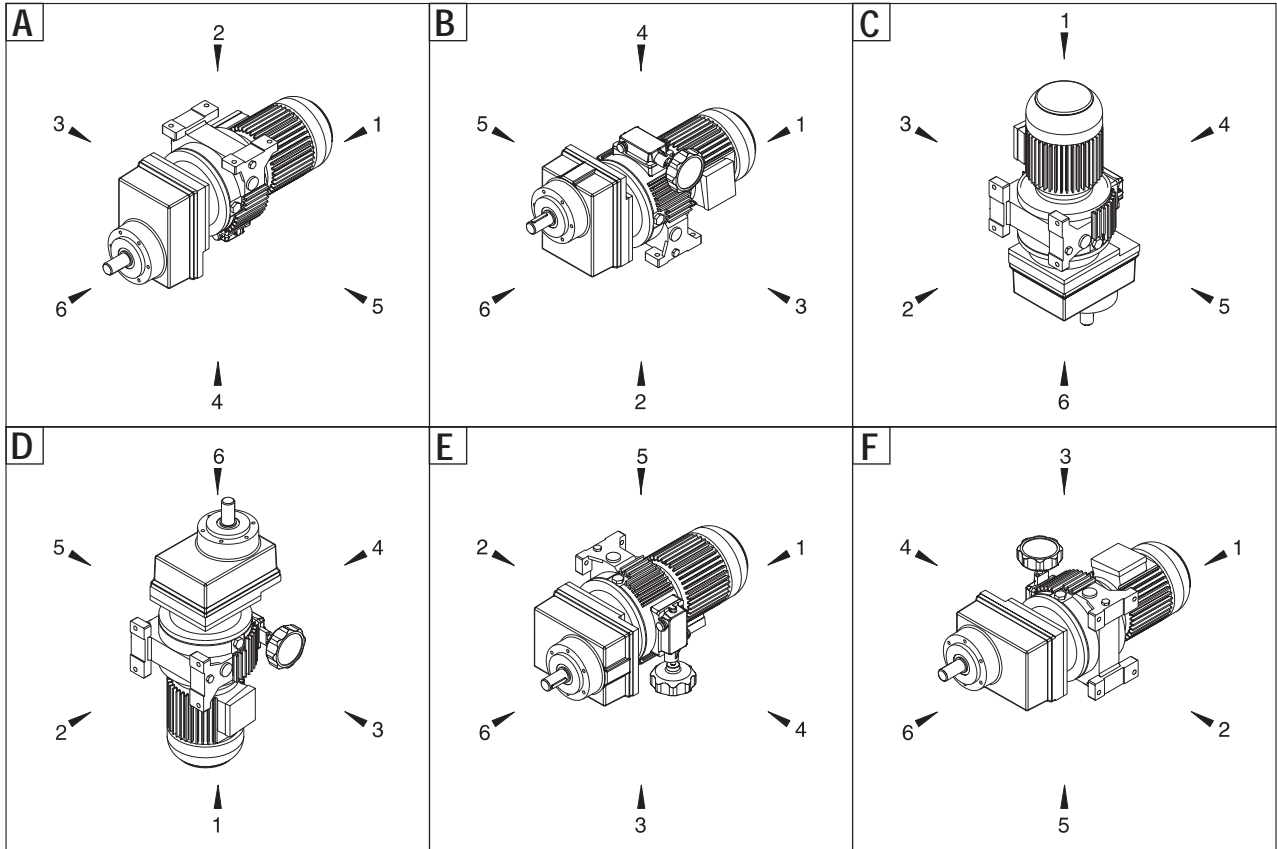
with helical gearbox

GST□□-1D VCR (foot on variable speed drive)

Terminal box: 2, 3, 4, 5

Spindle box: 2, 3, 4, 5

Handwheel/adjuster: 2, 3, 4, 5



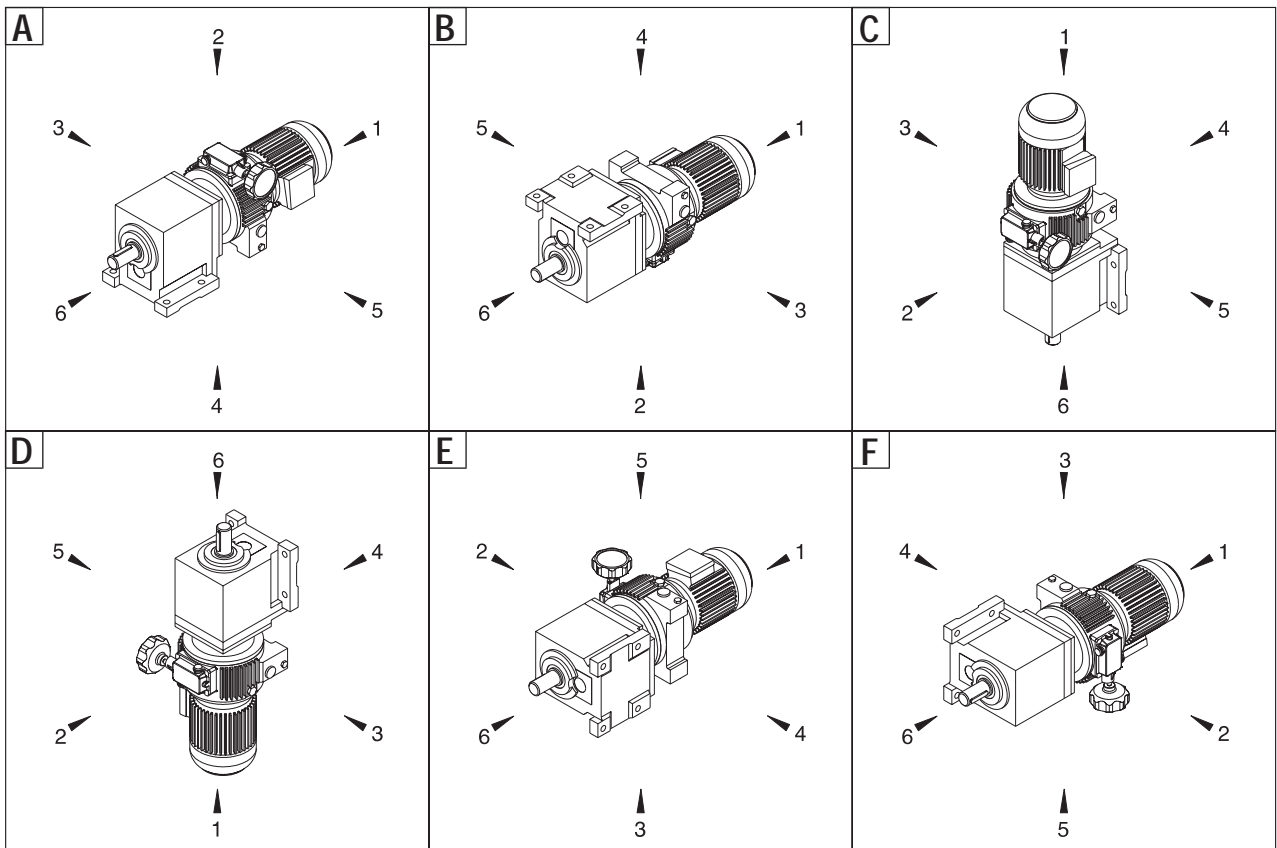
with helical gearbox

GST□□-□D

Terminal box: 2, 3, 4, 5

Spindle box: 2, 3, 4, 5

Handwheel/adjuster: 2, 3, 4, 5



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

DISCO variable speed drives

with helical-bevel gearbox and helical-worm gearbox

GKS□□-□D

Solid shaft: 3, 5, 3+5

Flange: 3, 5, 3+5

Terminal box: 2, 3, 4, 5

GSS□□-□D

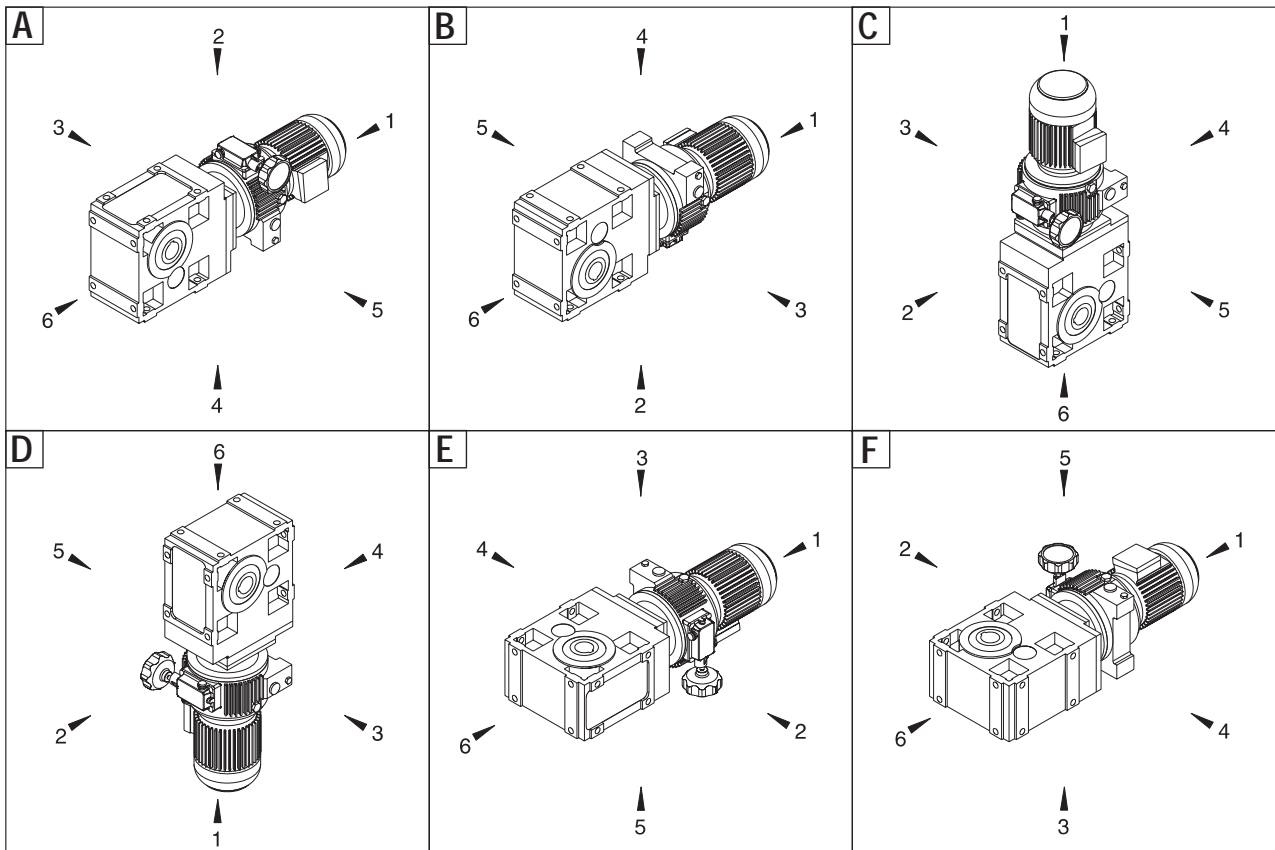
Hollow shaft: 0

without flange: 0

Spindle box: 2, 3, 4, 5

Hollow shaft with shrink disk: 3, 5

Handwheel/adjuster: 2, 3, 4, 5

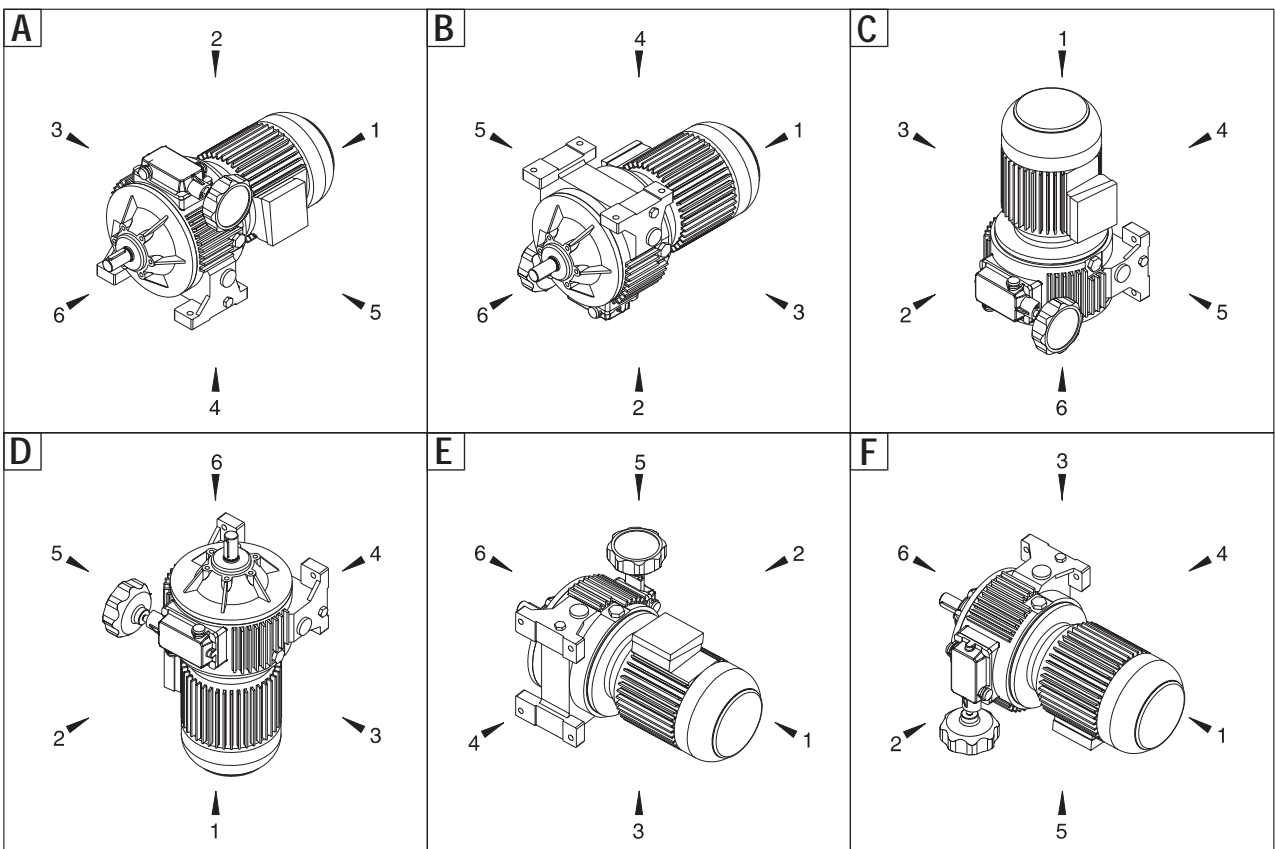


without gearbox

11.7□0

Terminal box: 2, 3, 4, 5

Handwheel/adjuster: 3, 5



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DISCO variable speed drives

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Fax orders / Lenze worldwide

7-1

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

Following our maxim “one stop shopping” we offer you a complete programme of electronic and mechanical drive systems which are distinguished by reliability and efficiency. The range of our products includes frequency inverters, speed controllers, servo controllers, variable speed drives and gearboxes, clutches and brakes as well as the appropriate motors.

So Lenze is not only the supplier for single components but also offers solutions for complete drive systems including planning, execution and commissioning of your applications. Furthermore, a worldwide service and distribution network allows a qualified customer advisory service at the job and a fast and extensive after sales service.

Our quality assurance system for development, production, sales and service is certified according to DIN ISO 9001. Our customers set the scale for measuring the quality of our products. Our task is to meet your requirements, customer orientation as a Lenze principle implies the best quality.

Convince yourself.

G-motion:

The innovative geared motor programme with intelligent speed variation.

Lenze gearboxes of the new generation have been well established in industry for years now. The programme comprises standard industry types, such as helical, low-profile, helical-bevel, helical-worm and bevel geared motors for the power range from 0.12 to 45 kW.

All types are available as gearboxes to be mounted to IEC motors or compact geared motors. The programme also offers combinations of geared motors and directly mounted frequency inverters. These mechatronic variable speed drives enable flexible control and communication possibilities.

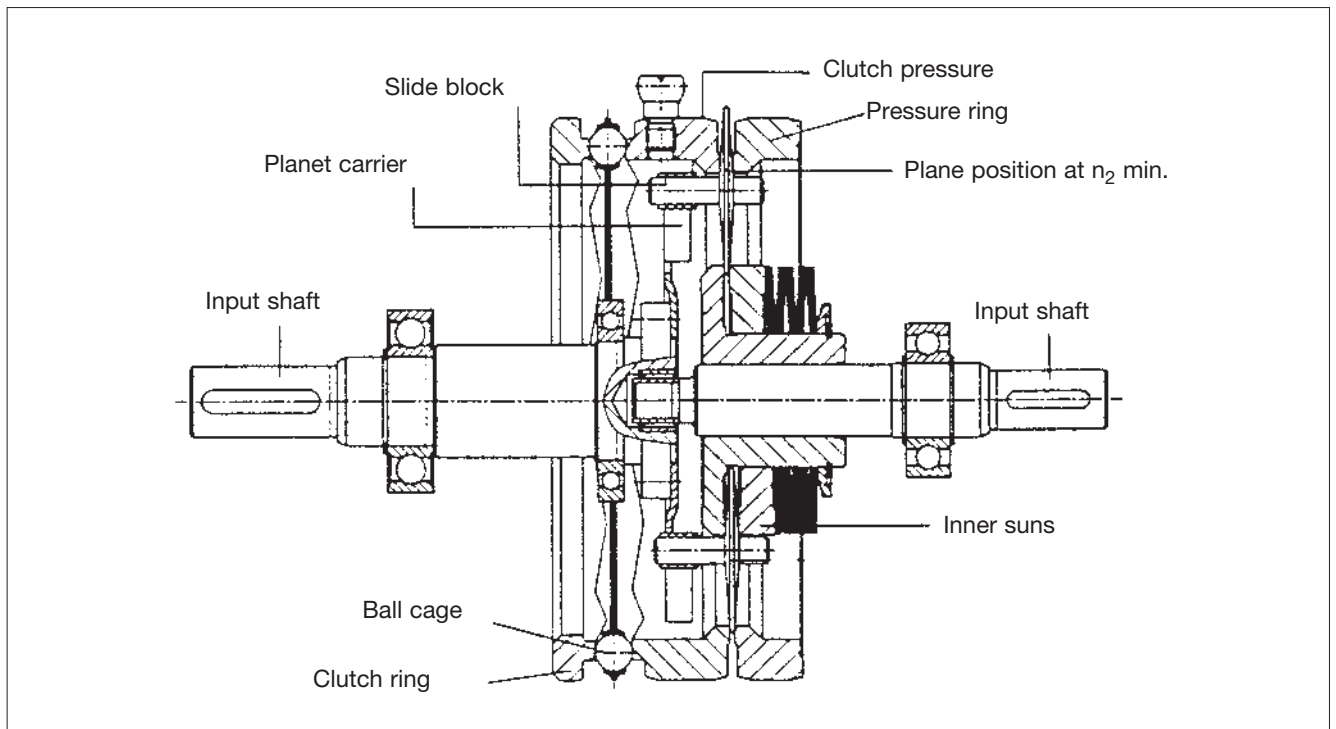
Even today many applications require a simple and rugged drive. For this, Lenze offers mechanical variable speed drive combinations with gearboxes of the new generation. Simlabeit and Disco are the well established Lenze gearboxes for this type of speed adjustment.

The catalog *G-motion, m_var* contains all selection criteria, tables and dimension information for all components required for mechanical speed adjustment. Disco planetary wheel drives, Simlabeit compact units and variable speed pulleys.

Disco planetary wheel drives – Operation principle

Disco planetary wheel drives are planetary wheel gearboxes with non-positive power and speed transmission. The planets, which are held by a planet carrier with slide blocks, rotate around the driving inner sun. Speed and force are transmitted to the inner sun and the planets from the input shaft. The planets rotating around the inner sun lean on the outer rings fixed inside the housing and drive the planet carrier which is fixed to the output shaft. The speed is adjusted through an adjustment spindle by turning the clutch pressure ring inside the housing. The planets thus move on different rotation radii, depending on the width of the air gap between clutch pressure ring and pressure ring. Therefore, the speed can be adjusted in a range of 1:6. With minimum output speeds, the speed can also be adjusted when the input shaft does not rotate, for higher speeds, the gearbox must be running. Disco planetary wheel gearboxes offer the following advantages:

- Power range $P_1 = 0.25$ to 7.5 kW
- Small dimensions, high power
- Small ratio of input speed 1:1.5 to 1:9
- Low noise, low vibration generation
- Adjustment range 1:6, seven gearbox sizes
- Enclosed full-metal housing, rotating parts in oil bath, thus protected against aggressive environmental conditions.



1 Simplabelt compact units Operating principle

Simplabelt compact units are rugged, universally applicable variable speed geared motors for powers between 0.25 to 45 kW with adjustable output speeds. The main part is the Simplabelt variable speed pulley type 11.213 (with size 40 type 11.218) in maintenance-free polygon design.

The coated hub with its four-side polygon profile together with laminated pulleys made of aluminium die cast is used in millions of applications in mechanical and system engineering worldwide.

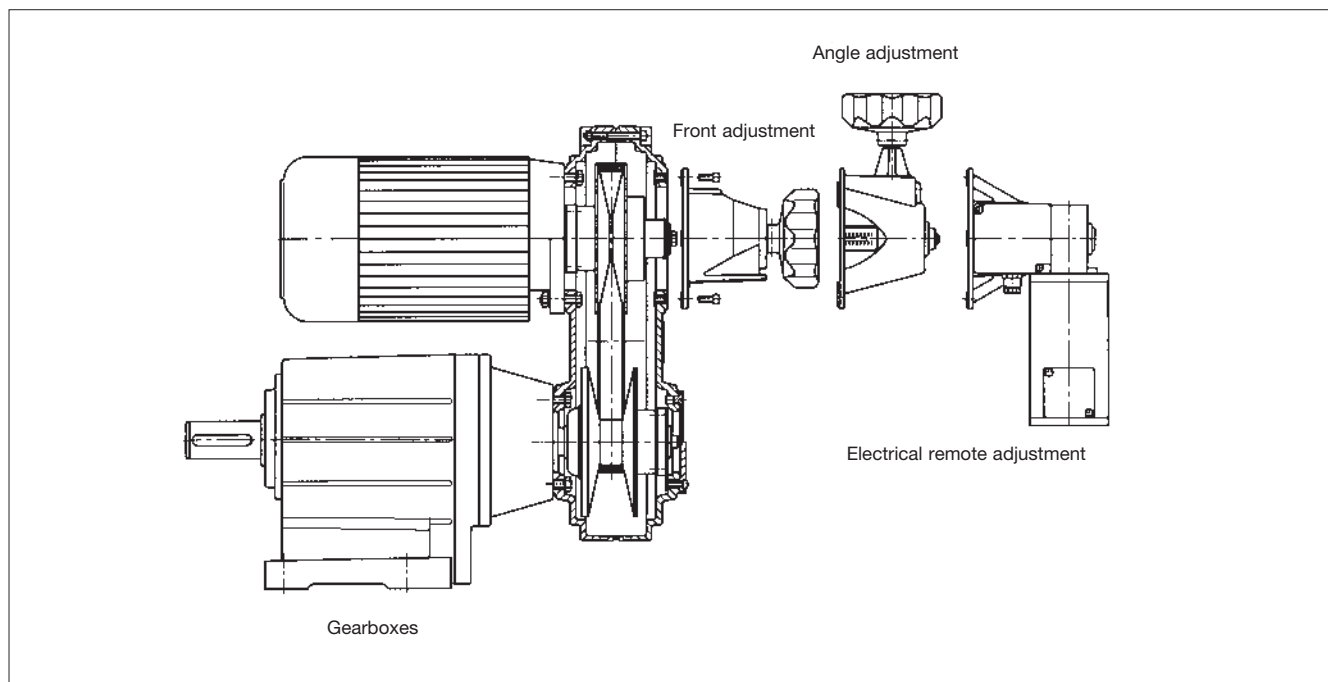
Advantages:

- High torque transmission surfaces, i.e. low surface pressure
- Self-centering through symmetrical backlash compensation, i.e. no tilting of disc-type pulleys
- Even profile edges, i.e. smooth running and low noise generation
- Maintenance free pulleys
- Long service life

The pretension required for power transmission is generated by rotation-symmetrical helical springs. All rotating parts are made of corrosion-resistant material and enable application even under difficult environmental conditions. As option for extreme conditions, a version with an especially coated belt running surface is available.

The great variety of helical, helical worm and helical bevel gearboxes in foot, flange, hollow shaft and hollow shaft flange design ensures speed derating for the entire modular system offered by Lenze.

Various adjustment possibilities like front, angle or electrical remote adjustment as well as speed display through handwheels with position indicator or electrical speed measuring systems ensure optimum adaptation to all applications.





Symbols used in this catalog

| | | | | | |
|-----------------------------------|---------------------|--|--------------------------|----------------------|---|
| α | | Angle of radial force | M_r | [Nm] | Rated torque |
| c | | Load capacity of gearboxes/geared motors | M_A | [Nm] | Motor starting torque |
| d_w | [mm] | Effective diameter of the transmission element | M_B | [Nm] | Holding torque – brake |
| cos φ | | Power factor - motor | M_{cont} | [Nm] | Continuous torque |
| cos φ_N | | Power factor - asynchronous motor | M_{stall} | [Nm] | Motor stalling torque |
| F_a | [N] | Applied axial force | M_I | | Maximum torque factor |
| $F_{a perm}$ | [N] | Permissible axial force | M_{max} | [Nm] | Max. torque |
| $F_{a Tab}$ | [N] | Table value of axial force | M_{perm} | [Nm] | Permissible torque |
| f_{ch} | [kHz] | Chopper frequency | n_1 | [min ⁻¹] | Input speed |
| f_d | [Hz] | Field frequency | n_2 | [min ⁻¹] | Output speed |
| F_l | | Mass acceleration factor | n_r | [min ⁻¹] | Rated speed |
| f_{max} | [Hz] | Max. frequency set | n_{max} | [min ⁻¹] | Max. speed |
| f_N | [Hz] | Rated frequency | P_1 | [kW] | Input power |
| F_r | [N] | Applied radial force | P_2 | [kW] | Output power |
| $F_{r Tab}$ | [N] | Table value of radial force | P_r | [kW] | Rated power |
| $F_{r perm}$ | [N] | Permissible radial force | P_{loss} | [kW] | Inverter power loss |
| f_w | | Load application factor of applied radial force | R | [Ω] | Resistance |
| f_α | | Effective direction factor of applied radial force | S_r | [kW] | Inverter output power |
| f_z | | Additional radial force factor of the transmission element | T_{amb} | [°C] | Ambient temperature |
| i | | Ratio | V_{DC} | [V] | DC-bus voltage |
| φ | | Ratio step | V_r | [V] | Rated voltage |
| η | | Mechanical efficiency | V_{mains} | [V] | Mains voltage |
| I_0 | [A] | Continuous standstill current | IP | | International protection code |
| I_A | [A] | Starting current | IEC | | International Electrotechnical Commission |
| I_{max} | [A] | Max. output current | DIN | | Deutsches Institut für Normung |
| I_N | [A] | Rated current | VDE | | Verband deutscher Elektrotechniker |
| I_{mains} | [A] | Rated mains current | USDA | | United States Department of Agriculture |
| J_{ext} | [kgm ²] | Moment of inertia of machine to be driven reduced to motor shaft | NEMA | | National Electrical Manufacturers Association |
| J_{load} | [kgm ²] | Torque of load machine | AC | | Alternating current/voltage |
| J_{mot} | [kgm ²] | Motor moment of inertia | DC | | Direct current/voltage |
| J_A | [kgm ²] | Moment of inertia of the drive reduced to input shaft | EMC | | Electromagnetic compatibility |
| J_B | [kgm ²] | Moment of inertia of brake | EN | | European Standard |
| k | | Operating factor (according to DIN 3990) | CE | | Communauté Européene |
| L | [mH] | Inductance | IM | | International Mounting Code |
| m | [kg] | Mass | | | |
| M₀ | [Nm] | Continuous standstill torque | | | |
| M₁ | [Nm] | Input torque | | | |
| M₂ | [Nm] | Output torque | | | |



Definitions

Basics about the data indicated in this catalog

1 Power, torque and speed

The data indicated in this catalog are rounded values and apply to

- operating time/day = 8h (100% duty time)
- load class I with 10 switchings/h
- mounting positions and designs indicated in this catalog
- standard lubricant
- $f_{\text{mains}} = 50$ Hz constant
- $T_{\text{amb}} = 20$ °C for gearboxes
40 °C for motors (to VDE 0530)
- installation height ≤ 1000 m amsl

The rated power indicated for motors and geared motors is valid for duty cycle S1 to VDE 0530 part 1 / DIN 57530 part 1.

The values indicated may change under different application conditions. In case of extreme application conditions, please contact your nearest Lenze representative.

Rated point

The rated point is the point where speed and torque provide the max. required permanent power. The drive is rated with these values.

Operating factor k (to DIN 3990)

The operating factor considers the effectively changing loads during the running time planned for gearboxes and geared motors.

k depends on

- type of load,
- intensity of load,
- temporary influences.



For quick and correct delivery we need complete order information. The following check list and description of the order process help you to provide all information required.

Check list

For fast and correct delivery we need the following information:

- Your address and order data.
- Our product key of the products listed in this catalog.
- Your delivery data, such as delivery date and address.

How to order

Use the following step-by-step check list to find out all the information required for your order. Ordering of your tailor-made drive is then very easy.

- Copy order form.
See chapter 7.
- Enter order data.
- Send or fax the order form to the nearest Lenze branch office. A list of all Lenze branch offices and subsidiaries can be obtained from the last page.

Delivery

- All components are individually packed and checked before delivery.
- Orders are subject to the general terms of sale and delivery of Lenze Drive Systems GmbH.
 - Terms of delivery: Ex works according to your packing requirements, packing not included.



Order information

1 Step-by-step to your drive

→ Cross reference

⇨ Information

1. Select drive system
→ Chapter **Selection**
⇨ Power, speed, operating factor, forces, circumferential backlash
2. Select gearbox type, size, ratio step and drive size
→ **Product key, selection table**
⇨ Design, ratio
Example: GST06-2K 090-32 13 C
(without options)
3. Select output design
→ **Product key, dimensions**
⇨ Design
Example: Solid shaft: V
Housing with foot: **B**
Output without flange: **R**
4. Select position of system modules and mounting position
→ **Product key**
Example:
Terminal box in position **5**
Motor in position **6**
Variable speed drive in position **2**
Mounting position **A**
5. Select colour
→ **Example:**
Varnish RAL 7012
6. Options
→ **Options gearbox, variable speed drive, motor**

Pcs. i =

GST 2 V A R Motor frame size Compact unit size

GKS - H B K -

GSS 3 S C L

1 4

Position of system modules (mark non defined positions with 0)

| | | | | | |
|---|--|--|---|--|--|
| Shaft <input type="text" value="0"/> | Flange <input type="text" value="0"/> | Terminal box <input type="text" value="0"/> | Motor <input type="text" value="1"/> | Variable speed belt drive <input checked="" type="text" value="2"/> | Mounting position <input checked="" type="text" value="A"/> |
| <input type="text" value="1"/> | <input type="text" value="3"/> | <input type="text" value="2"/> | <input checked="" type="text" value="6"/> | <input type="text" value="3"/> | <input type="text" value="B"/> |
| <input type="text" value="3"/> | <input type="text" value="4"/> | <input type="text" value="3"/> | | <input type="text" value="4"/> | <input type="text" value="C"/> |
| <input type="text" value="5"/> | <input type="text" value="5"/> | <input type="text" value="4"/> | | <input type="text" value="5"/> | <input type="text" value="D"/> |
| <input type="text" value="6"/> | <input type="text" value="6"/> | <input checked="" type="text" value="5"/> | | | <input type="text" value="E"/> |
| | | | | | <input type="text" value="F"/> |

Dimensions H Hollow shaft d H7 = mm

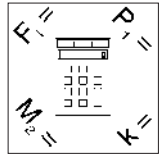
K L Flange diameter a2 = mm

Colour Varnish RAL 7012 Primer varnish grey

Options gearbox

Options compact unit

Options motor



Rated point (P_1 , M_2 , n_2)

The rated point is determined by the maximum drive power required over the entire speed-torque range. The rated point is at n_{2max} if the torque requirement is constant over the speed.

Rated point at n_{2max} (50 Hz)

Features:

- Large speed setting range
- 200 % maximum torque at n_{2min} for a short time (Caution: Corresponds to multiplied rated torque!)
- Good self ventilation of the motor because of constant motor speed at mains frequency.

Technical data:

- Variable speed drives are designed for applications which require only few switching operations. For more switching operation applications, please contact Lenze.
- The values for M_2 (at n_{2min}) indicated in the selection tables can be exceeded if the drive is not selected correctly.
- For extreme application conditions (temperature, humidity and dust), please contact Lenze.



Selection

Disco

1. Determination of the required load capacity

Determine required torque M_2 and speed n_2 at output

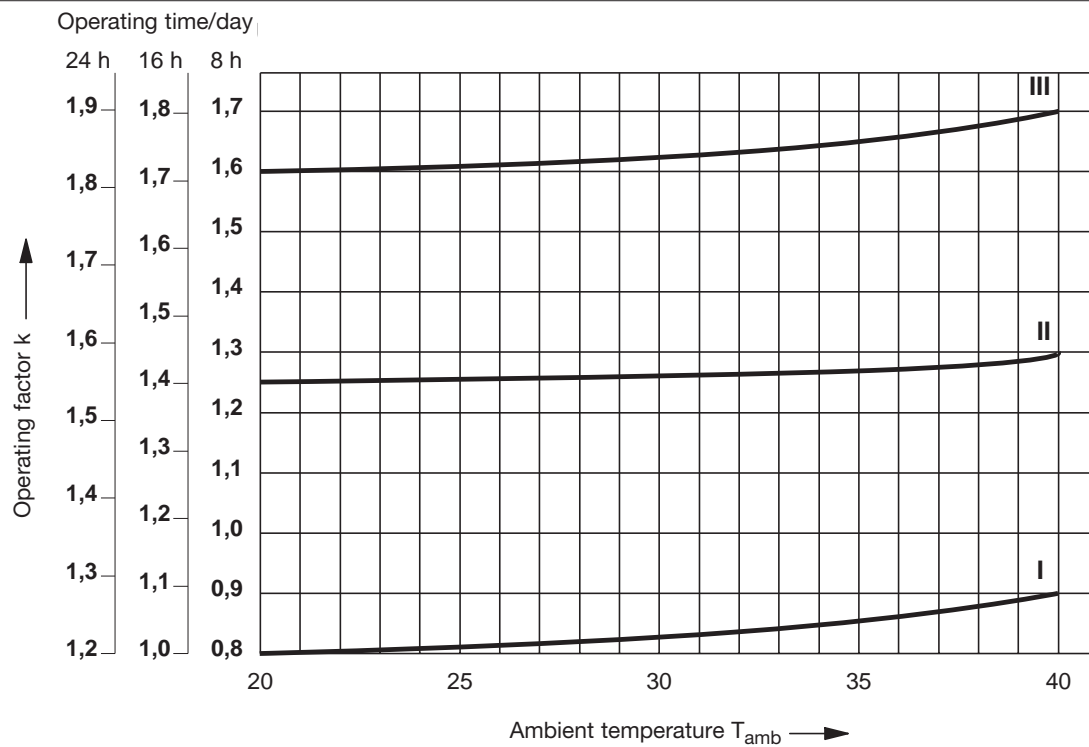
Calculate required motor power $P_1 = \frac{M_2 \cdot n_2}{9550 \cdot \eta}$

Determination of load class:

| Load class | Type of load |
|------------|---|
| I | Regular operation, virtually shock-free |
| II | Irregular operation, moderate shocks |
| III | Irregular operation, heavy shocks and/or changing load and/or changing load |

Determination of temporary influences: – Operating time/day – ambient temperature

Determination of operating factor k of the machine by means of the diagram



Requirement for gearboxes: $M_{2 \text{ perm}} \text{ (selection table)} \geq M_2 \cdot k$



1. Determination of the required load capacity

Determine required torque M_2 and speed n_2 at output

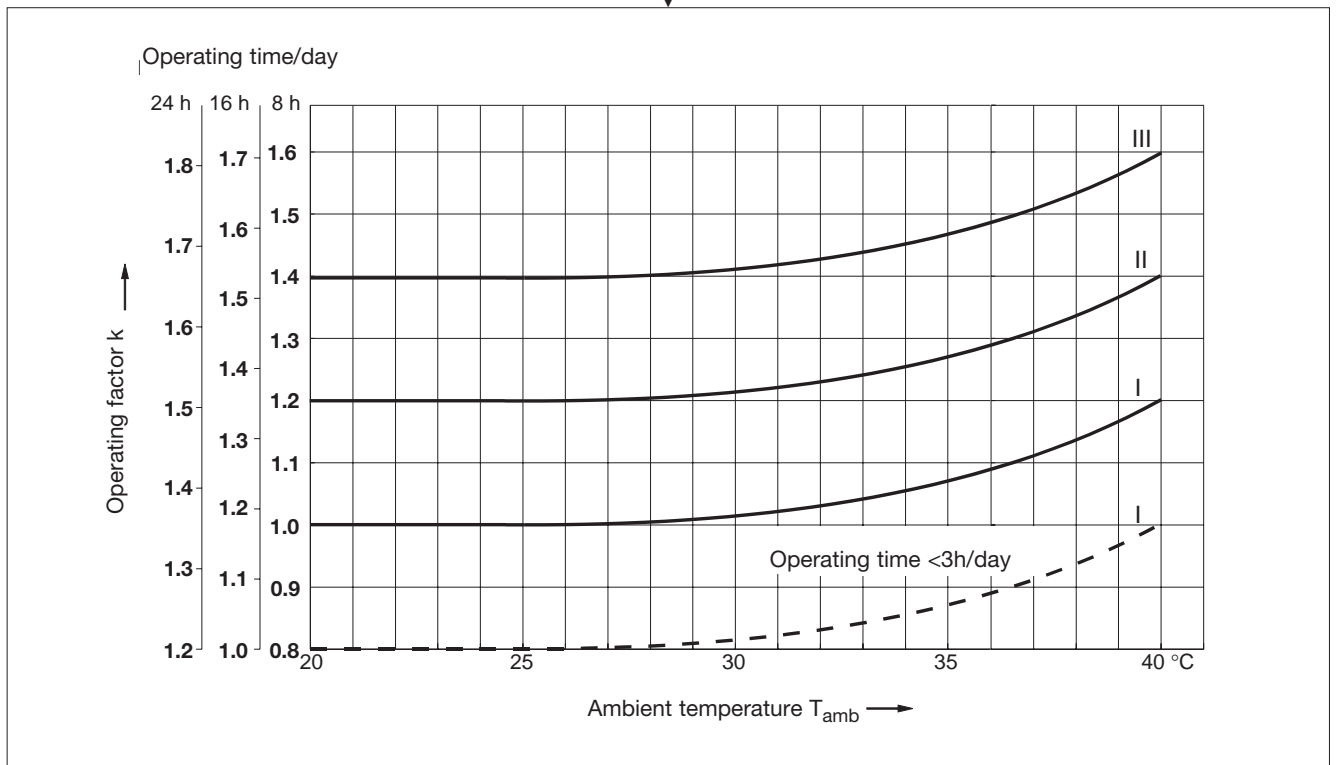
Calculate required motor power $P_1 = \frac{M_2 \cdot n_2}{9550 \cdot \eta}$

1. Determination of the required load capacity

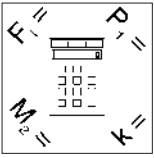
| Load class | Type of load |
|------------|---|
| I | Regular operation, virtually shock-free |
| II | Irregular operation, moderate shocks |
| III | Irregular operation, heavy shocks and/or changing load and/or changing load |

Determination of temporary influences: – Operating time/day – ambient temperature

Determination of operating factor k of the machine by means of the diagram



Requirement for gearboxes: $M_{2 \text{ perm}} \text{ (selection table)} \geq M_2 \cdot k$



Drive selection

2. Determination of axial and radial forces acting on the gearbox shaft

Calculation of axial and radial forces available

Rough calculation of radial forces:

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

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

Required:

- $F_{r \text{ perm}} \geq F_r$
($F_{r \text{ perm}}$ from helical gearbox data)
- $F_{a \text{ perm}} \geq F_a$
($F_{a \text{ perm}}$ from helical gearbox data)

Technical data

DISCO variable speed drive

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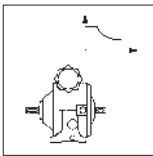
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| | |
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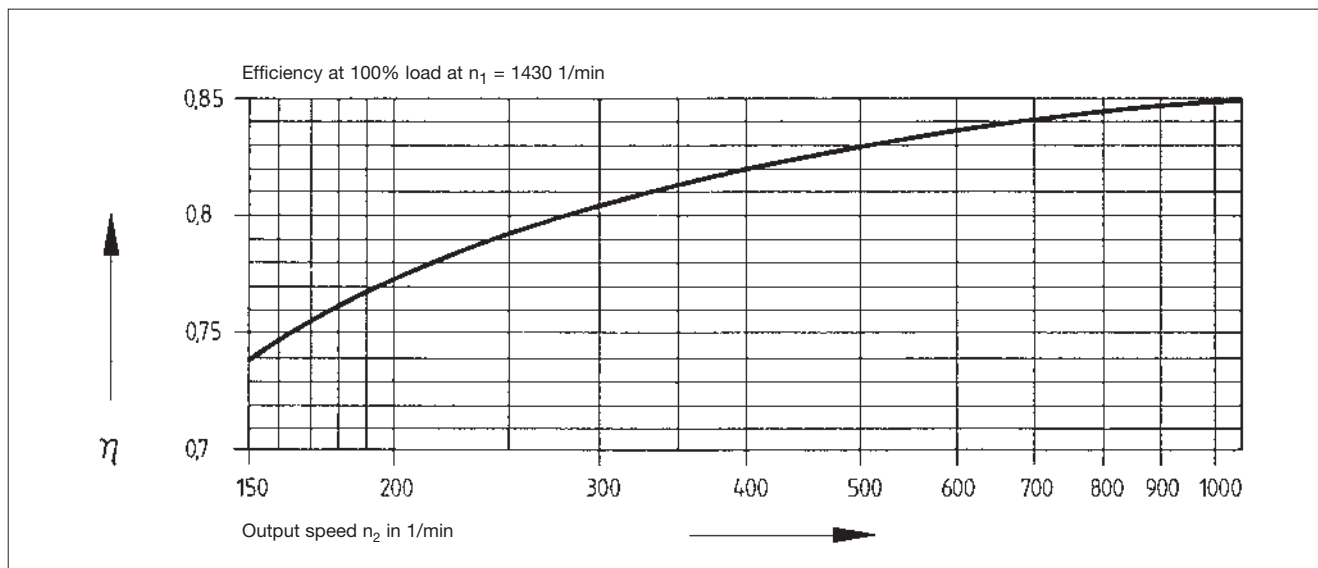
Technical data

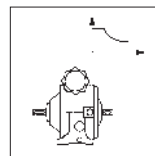
DISCO variable speed drive

General data

| | | |
|------------------------|--------------------|---|
| Housing | Design | Oil check by means of sight glass |
| | Material | Aluminium die cast or cast iron – depending on size |
| Input shaft | Design | with key to DIN 6885, sheet 1 |
| | Tolerance | k6 |
| | Material | Tempered steel C45 |
| Output shaft | Design | with key to DIN 6885, sheet 1 |
| | Tolerance | k6 |
| | Material | Tempered steel C45 |
| Shaft seals | Design | with additional dust protection |
| | Material | NB/FP |
| Bearing – input shaft | Design | Input: Ball bearing |
| | | Output: Ball bearing or needle roller bearing – depending on size |
| Bearing – output shaft | Design | Input: Ball bearing |
| Friction parts | Material | Roller bearing steel 100 Cr 6 ; hardened |
| Lubricants | Design | DISCO – life lubrication |
| | Filling quantities | according to mounting position > Operating Instructions |
| Temperature range | | -15° to +40°C ambient temperature |
| Noises | | DISCO variable speed drives are below the emission values to VDE directive 2159 |

Mechanical efficiency





Rated data

| Size | $n_1 = 3000$ [min ⁻¹] | | $n_1 = 1500$ [min ⁻¹] | | $n_1 = 1000$ [min ⁻¹] | | $n_1 = 750$ [min ⁻¹] | | |
|----------------|-----------------------------------|-----------------------------|-----------------------------------|---------------------------|-----------------------------------|--------------------------|----------------------------------|-------------------------|--------------------------|
| 02 | $P_1^*)$ n_2 M_2 | 0.37 1860-310 1.6-3.2 | | 0.25 930-155 2-4 | | 0.18 600-100 2-4 | | 0.12 450-75 2-4 | |
| 03 | P_1 n_2 M_2 | 0.55 1920-335 2.2-4.4 | 0.37 1920-335 1.5-4.4 | 0.37 950-165 3-6 | | 0.25 630-110 3-6 | | 0.18 460-80 3-6 | |
| 04 | P_1 n_2 M_2 | 1.1 1920-335 4.5-9 | 0.75 1920-335 3-9 | 0.75 950-165 6-12 | 0.55 950-165 4.5-12 | 0.55 630-110 6-12 | 0.37 630-110 4.5-12 | 0.37 460-80 6-12 | 0.25 460-80 4.5-12 |
| 05 | P_1 n_2 M_2 | 2.2 1920-335 9-18 | 1.5 1920-335 6-18 | 1.5 950-165 12-24 | 1.1 950-165 9-24 | 1.1 630-110 12-24 | 0.75 630-110 9-24 | 0.75 460-80 12-24 | 0.55 460-80 9-24 |
| 06 | P_1 n_2 M_2 | | | 3 1000-175 22-44 | 2.2 1000-175 17.5-44 | 2.2 660-115 22-44 | 1.5 660-115 17.5-44 | 1.5 490-85 22-44 | 1.1 490-85 17.5-44 |
| 07 | P_1 n_2 M_2 | | | 4 1000-175 32-64 | | 3 660-115 32-64 | | 2.2 490-85 32-64 | |
| 08/18*) | P_1 n_2 M_2 | | | 7.5 1000-200 58-116 | 5.5 1000-200 45-90 | 5.5 660-130 58-116 | 4 660-130 45-90 | 4 490-100 58-116 | 3 490-100 45-90 |

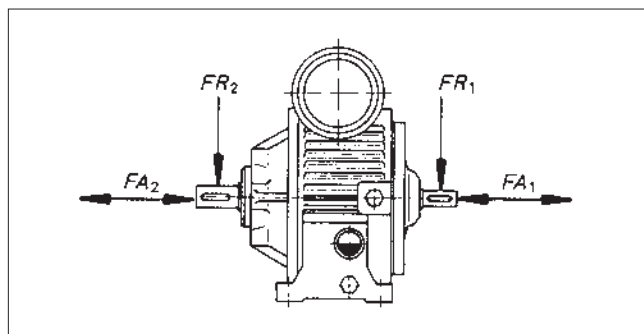
P_1 = Input power in [kW]
 n_1 = Output speed in 1/min
 n_2 = Output speed in 1/min
 M_2 = Maximum input speed Nm

Maximum input speed n_1

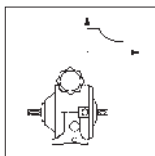
| Size | 02 | 03 | 04 | 05 | 06 | 07 | 08/18 |
|---------------------------------|------|------|------|-------|------|------|-------|
| n_1 max. [min ⁻¹] | 3600 | 3600 | 3600 | 1800* | 1800 | 1800 | 1800 |

* with free input shaft

Permissible radial and axial forces



| Size | Input | | Output | |
|-------|-------------|-------------|-------------|-------------|
| | FA_1 N | FR_1 N | FA_2 N | FR_2 N |
| 02 | 300 | 300 | 400 | 400 |
| 03 | 450 | 450 | 700 | 700 |
| 04 | 700 | 700 | 1200 | 1200 |
| 05 | 1000 | 1000 | 1700 | 1700 |
| 06/07 | 1500 | 1500 | 2300 | 2300 |
| 18/08 | 1800 | 1800 | 3500 | 3500 |



Technical data

DISCO variable speed drive

Attachments – Speed adjusters

Designs

| Name | Handwheel adjustment (Standard) | Bevel adjustment (Option) | Electrical remote adjustment (Option) |
|--------|--------------------------------------|--------------------------------------|---|
| Design | Handwheel – impact strong plastic | Handwheel – impact strong plastic | Actuating motor – three-phase AC asynchr. – technical data, see below |
| Layout | – parallel-axial to spindle axis | – rectangular to spindle axis | – rectangular to spindle axis |

3 Technical data, actuating motor (for electrical remote adjustment)

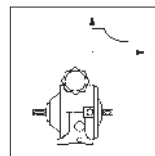
| Disco Size | P ₁ [kW] | N ₁ [min ⁻¹] | Voltage / frequency [V] | Rated current [I] | Type of protec- tion | Thermal class | Ratio small gearboxes | Time [s] |
|---------------|------------------------|--|--|-------------------------|----------------------------|------------------|--------------------------|-------------|
| 02 | 0.012 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.18 0.1 | IP 54 | F | 20 60 | 10 30 |
| 03 | 0.012 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.18 0.1 | IP 54 | F | 20 60 | 13 40 |
| 04 | 0.060 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.4 0.23 | IP 54 | F | 20 55 | 15 40 |
| 05 | 0.060 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.4 0.23 | IP 54 | F | 20 55 | 17 47 |
| 06/07 | 0.060 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.4 0.23 | IP 54 | F | 20 55 | 19 47 |
| 08 | 0.18 | 1350 | Δ 220–240 V/50 HZ Y 380–415 V/50 HZ | 0.94 0.55 | IP 54 | F | 40 80 | 50 100 |

Speed deviations for DISCO size 06 . . . 18/08 with electrical adjustment

| DISCO Size | Input speed n ₁ [min ⁻¹] | | |
|---------------|--|---------|---------|
| | 1500 | 1000 | 750 |
| | Output speed n ₂ [min ⁻¹] | | |
| 06/07 | 980–190 | 645–125 | 480–95 |
| 18/08 | 965–220 | 635–145 | 475–110 |

Position indicator in handwheel: Scaling

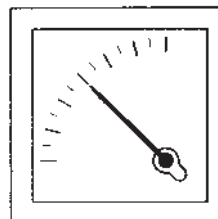
| DISCO size | 02 | 03 | 04/05 | 06/07 | 18/08 |
|------------|----|----|-------|-------|-------|
| Scaling | 12 | 18 | 24 | 24 | 36 |

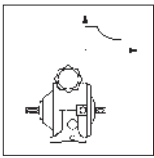


Attachments – Speed measurement instruments

Designs:

| | |
|--|--|
| Name | Electrical remote adjustment with potentiometer |
| Design | – Potentiometer in the limit switch box of the electrical remote control |
| Connection voltage | – (Current supply through mains connection of the electrical remote adjustment) |
| Signal voltage | > 10 V (DC) |
| Speed display – Suitable for control cabinet mounting | Analog display – Mounting to the back side of the encoder input – Scaling in [V], adjustable |



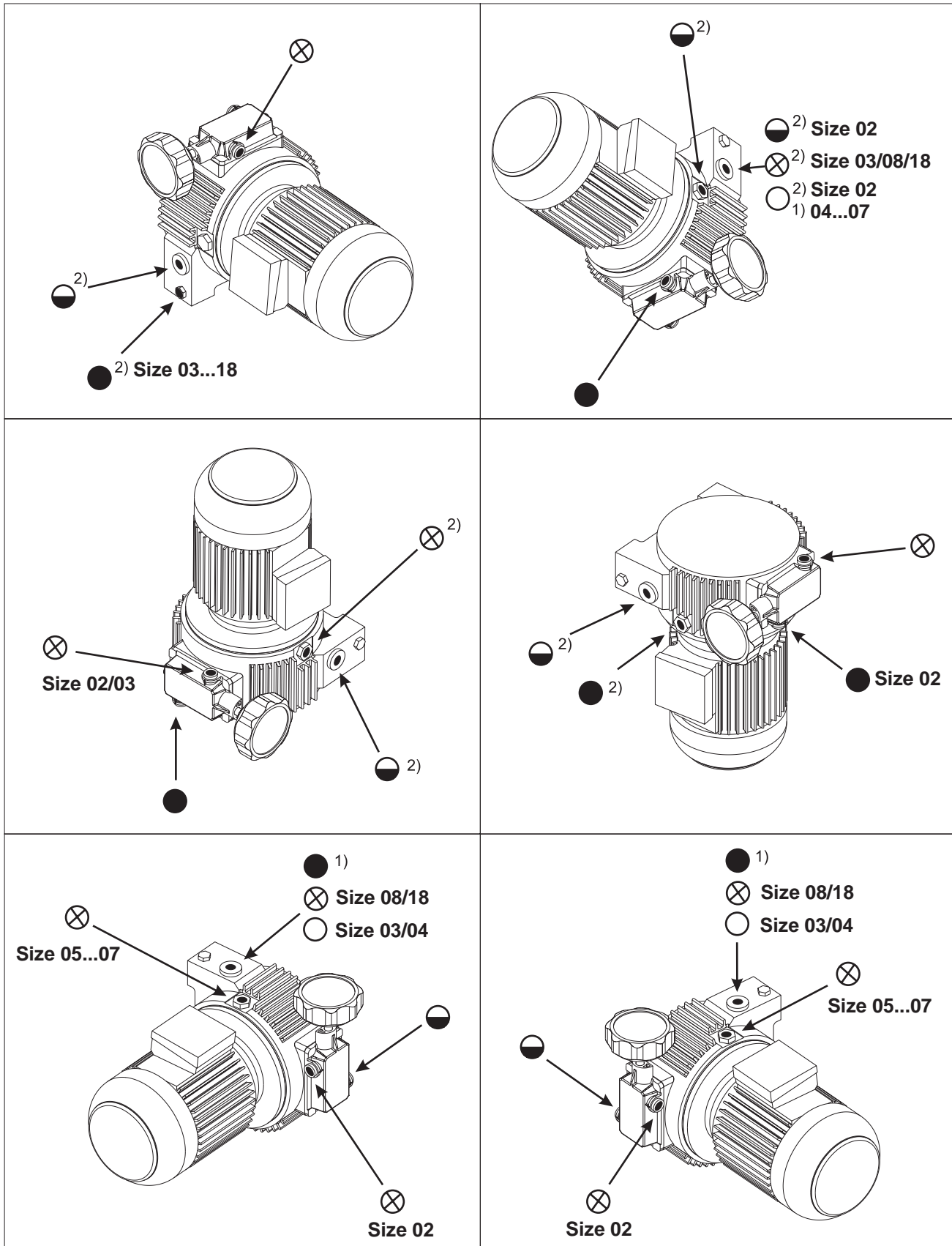


Technical data

Disco variable speed drive

Position of breather, oil filler plug and oil drain plug

3



○ Oil filling for gearbox without breather

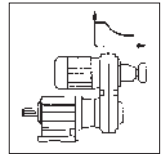
⊗ Breather/oil filler plug

● Oil drain plug

◐ Oil check

1) Opposite at the housing

2) For other handwheel positions, the positions are opposite at the housing



General data

| | | |
|------------------------|----------------|---|
| Housing | Design | Oval, separated |
| | Material | Aluminium die cast or grey cast – depending on size |
| Hub | Design | Coated, Polygon profile |
| | Material | St52-3K, Polyamide coated |
| Variable speed pulleys | Design | Self centering, belt pre-tension by spring and disc springs |
| | Material | Aluminium die cast |
| Belt | Design | Variable speed belt in sandwich design |
| | Material | Compound material, electrically conductive to ISO1813 |
| Mechanical efficiency | at rated point | $0.79 \leq \eta \leq 0.85$ |
| Temperature range | | -20 to +40 °C ambient temperature |
| Noises | | Lenze compact units fall below the emission values stated in the VDE directive 2159 |

Rated data

| Variable speed belt drive size | P_{2perm} ($n_2 min..n_2 max$) [kW] | $n_2 min..n_2 max$ ($n_1 = 1400/min$) [1/min] | Setting range | Variable speed belt b x h [mm x mm] | J [$10^{-3} kgm^2$] |
|--------------------------------|---|---|---------------|---|--------------------------|
| 10 | 0.2..0.35 | 600-3320 | 5.8 | 14 x 5 | 0.5 |
| 13/14 | 0.5..1.3 | 620-3285 | 5.5 | 22 x 6 | 4.0 |
| 16 | 1.1..2.6 | 580-3540 | 6.3 | 28 x 8 | 6.5 |
| 20/21 | 1.7..4.7 | 565-3675 | 6.7 | 37 x 10 | 17 |
| 25/26 | 3.5..9.4 | 570-3725 | 6.7 | 47 x 13 | 47 |
| 31 | 7.1..18.5 | 570-3780 | 6.7 | 55 x 16 | 147 |
| 40 | 12..40 | 485-2740 | 5.7 | 72 x 22 | 350 |

Observe the thermal limit of the gearbox when using variable speed belt drive sizes

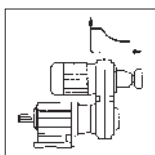
25G

31G

40H

in mounting position C (see page 3-11)

Please contact Lenze.

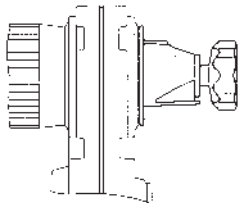
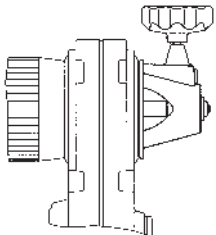
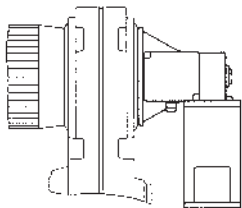


Technical data

Compact unit

Attachments – Speed adjusters

Designs:

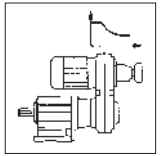
| Name | Front adjustment | Angle adjustment | Electrical remote adjustment |
|---|---|--|---|
| | (Standard) | (Option) | (Option) |
| Principle drawing |  |  |  |
| Design | Handwheel – impact strong plastic – variable speed belt drive size 40: Aluminium | Handwheel – impact strong plastic | Actuating motor – three-phase asynchronous – technical data, see below |
| Layout | – parallel-axial to variable speed pulley axis | – rectangular to variable speed pulley axis | – rectangular to variable speed pulley axis |
| Simple position indication | – in the housing of the adjuster | – in the housing of the adjuster | – |
| Combination possibility with variable speed belt drive size | 10...40 | 10...31 | 10...40 |

Technical data – Variable speed drive (for electrical remote control):

| Variable speed belt drive | P1 [kW] | n1 [1/min] | Voltage/frequency | Enclosure | Thermal class | Ratio small drives | Adjustment time [s] |
|---------------------------|---------|------------|--|-----------|---------------|--------------------|---------------------|
| 10 | 0.012 | 1350 | Δ 220-240V / 50 Hz Y 380-415V / 50 Hz | IP 54 | F | 60 | approx. 15 |
| 13/14 | | | | | | | approx. 22 |
| 16 | 0.060 | 1350 | Δ 220-240V / 50 Hz Y 380-415V / 50 Hz | IP 54 | F | 55 | approx. 26 |
| 20/21 | | | | | | | approx. 35 |
| 25/26 | 0.060 | 1350 | Δ 220-240V / 50 Hz Y 380-415V / 50 Hz | IP 54 | F | 50 | approx. 40 |
| 31 | | | | | | | approx. 50 |
| 40 | 0.180 | 1350 | Δ 220-240V / 50 Hz Y 380-415V / 50 Hz | IP 54 | F | 50 | approx. 64 |

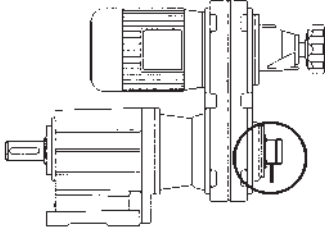
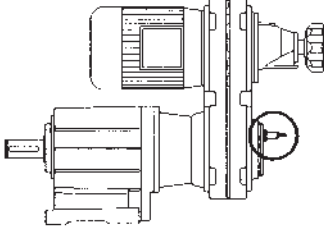
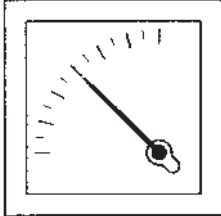
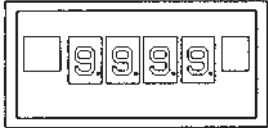
Position indicator in handwheel: Scaling

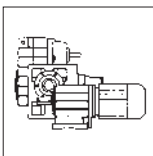
| Variable speed-belt drive | 10 | 13/14 | 16 | 20/21 | 25/26 | 31 | 40 |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|
| Scaling | 1..12 | 1..12 | 1..18 | 1..18 | 1..24 | 1..24 | 1..36 |



Attachments – Speed measuring instrument

Designs:

| Name | DC speed encoder | Pulse encoder |
|--|--|--|
| Principle drawing |  |  |
| Design | <ul style="list-style-type: none"> - Speed encoder at output shaft of variable speed belt drive (input shaft speed transforming gear) - Cable length 1 m | <ul style="list-style-type: none"> - Speed encoder at output shaft of variable speed belt drive (input shaft speed transforming gear) - Cable length 2.5 m (max. cable length 300 m) |
| Standards and regulations | see motors | DIN 19234 / NAMUR |
| Connection voltage | - (Generator) | 8.2 V ± 0.5 V (R _i = 1kOhm ± 50 Ohm) Important: Lenze display units ensure voltage supply |
| Signal voltage | Analog n _{2 min} : approx. 3 V n _{2 max} : approx. 20 V (for R -> infinite) | Digital 4 pulses/rev. > 1.2 V |
| Speed displays - Suitable for mounting in control cabinets | Analog display - Rear-side encoder input - Scaling in [V], adjustable  | Digital display - Rear-side encoder output/input - 4-digit display - Display adjustable  |
| Combination possibilities with variable speed belt drive sizes | 10...31 | 10...40 |



Technical data

Gearboxes

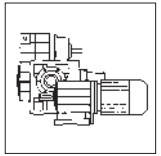
Sizes

| Gearbox family | Product key | Gearbox size | | | | | | |
|-----------------------|-------------|--------------|----|----|----|----|----|----|
| | | 04 | 05 | 06 | 07 | 09 | 11 | 14 |
| Helical gearbox | GST | • | • | • | • | • | • | • |
| Helical-bevel gearbox | GKS | • | • | • | • | • | • | • |
| Helical-worm gearbox | GSS | • | • | • | • | | | |

Basic designs

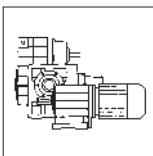
3

| | | | | GST - 1 | GST - 2 GST - 3 | GKS - 3 GKS - 4 | GSS - 2 GSS - 3 |
|--|--|--|--------------|--------------------|----------------------------|--|----------------------------|
| Input design | | Product key | | | | | |
| DISCO variable speed drive | | D | | 0.25...7.5kW | | | |
| Compact unit | | K | | 0.25...18.5kW | 0.25...45kW | | |
| Output design | | | | | | | |
| Shaft | | | | | | | |
| Solid shaft | | V | Gearbox size | d x l [mm x mm] | | | |
| | | | 04 | 16 x 32 | 20 x 40 | 25 x 50 | 25 x 50 |
| | | | 05 | 20 x 40 | 25 x 50 | 30 x 60 | 30 x 60 |
| | | | 06 | 25 x 50 | 30 x 60 | 40 x 80 | 40 x 80 |
| | | | 07 | 30 x 60 | 40 x 80 | 50 x 100 | 50 x 100 |
| | | | 09 | 40 x 80 | 50 x 100 | 60 x 120 | - |
| | | | 11 | - | 60 x 120 | 80 x 160 | - |
| | | | 14 | - | 80 x 160 | 100 x 200 | - |
| Hollow shaft with keyway (plugs at both ends) | | H | Gearbox size | d [mm] | | | |
| | | | 04 | - | - | 25 30 | 25 30 |
| | | | 05 | - | - | 30 35 | 30 35 |
| | | | 06 | - | - | 40 45 | 40 45 |
| | | | 07 | - | - | 50 55 | 50 55 |
| | | | 09 | - | - | 60 70 | - |
| | | | 11 | - | - | 70 80 | - |
| | | | 14 | - | - | 100 | - |
| Housing | | | | | | | |
| With feet and pitch circle with centering | | A B | | - | - | Feet in positions 2, 4 and 6 Pitch circle in position 3 and 5 | |
| Design with feet | | B | | • | • | - | - |
| Design with pitch circle with centering | | C | | • | • | - | - |
| Output | | | | | | | |
| Without additional flange | | R | | • | • | • | • |
| Colour | | | | | | | |
| Coat | | RAL 7012 | | • | • | • | • |
| Primer coat | | Grey | | • | • | • | • |
| Lubricant | | Mineral lubricant Synthetic lubricant | | CLP 460 - | CLP 460 - | CLP 460 - | - PGLP 680 |
| Breather element sizes 09 ... 14 | | | | • | • | • | - |



Options

| | | GST - 1 | GST - 2 GST - 3 | GKS - 3 GKS - 4 | GSS - 2 GSS - 3 |
|--|---------------------|--------------|--------------------------|------------------------------------|---|
| Input design | Product key | | | | |
| DISCO variable speed drive | D | | | | Information page 3-2 |
| Compact unit | K | | | | Information page 3-6 |
| Output design | | | | | |
| Shaft | | | | | |
| Reinforced shaft bearing | V | | • | F _{max} -drive on request | F _{max} -drive on request |
| 2nd solid shaft end | V | | | • | • |
| Hollow shaft with shrink disc | S | Gearbox size | d [mm] | | |
| | | 04 | - | - | 25 |
| | | 05 | - | - | 30 |
| | | 06 | - | - | 40 |
| | | 07 | - | - | 50 |
| | | 09 | - | - | 60 |
| | | 11 | - | - | 80 |
| | | 14 | - | - | 100 |
| Housing | | | | | |
| With feet and pitch circle with centering | A | | • | • | - |
| Pitch circle without centering | B | | • | • | - |
| Output | | | | | |
| With additional flange | K | | • | • | in position 3 and 5 |
| With additional flange with threaded bores | L | | - | Housing design A | - |
| Dimensions in [mm] for gearbox size | | 04 | 120 140 160 | 120 140 160 | 160 |
| | | 05 | 120 140 160 200 | 120 140 160 200 | 200 |
| | | 06 | 160 200 | 160 200 | 200 250 |
| | | 07 | 200 250 | 200 250 | 250 300 |
| | | 09 | 250 300 | 250 300 | 350 |
| | | 11 | - | 300 350 | 400 450 |
| | | 14 | - | 350 400 | 450 |
| Colour | | | | | |
| Special varnish | Indicate RAL number | | • | • | • |
| Lubricant | | | | | |
| Synthetic lubricant | CLP HC 320 | | • | • | - |
| Food concenitive | CLP H1 220 | | • | • | Torque reduction $M2_{\text{perm}} = M2_{\text{perm}} \cdot 0.8$ |
| Additional options | | | | | |
| Rubber buffer set for torque plate | | | - | - | - |
| Torque plate at pitch circle | | | - | - | Gearbox size 04...07 |
| Torque plate at housing foot incl. rubber buffer set | | | - | - | • |
| Shrink disc cover | | | - | - | • |
| Hollow shaft cover – jet-proof | | | - | - | • |
| Shaft seal rings FP (Viton) | | | • | • | • |
| Breather element gearbox sizes 05...07 | | | • | • | • |
| Compensator gearbox sizes 09...14 | | | - | • | - |



Technical data

Gearboxes

Thermal limit rating

The permissible continuous gearbox power is limited by

- the mechanical power, determined by the components' material, or,
- the thermal limit power, determined by the thermal conditions

The thermal limit can be below the mechanical power indicated in the selection tables.

The thermal limit power is influenced by

- churning losses in the lubricant. They are determined by the mounting position and the circumferential speed of the gears.
- the load and speed profile
- the ambient conditions: temperature, air circulation, heat transfer at the shafts and housings

3

Please contact Lenze, if
– you use one of the following combinations of gearbox design, size and ratio:

| Gearbox design | Gearbox sizes | Ratios $i \leq$ | Mounting positions |
|-----------------------------|----------------|--------------------|--------------------|
| Helical gearboxes GST | 07, 09, 11, 14 | 10 | C and D |
| Low-profile gearboxes GFL | 09, 11, 14 | 16 | C and D |
| Helical-bevel gearboxes GKS | 09, 11, 14 | 25 | C and D |

Possible measures to extend the range of applications

| Measure | to be achieved by |
|--|--|
| Increase of the permissible temperature range of the gearbox | – Synthetic lubricant (option) – Shaft seals made of FP material / Viton (option) |
| Reduction of the power loss | – Synthetic lubricant (option) – Reduction of the lubricant quantity |
| Increased heat dissipation | – Possible air convection at the machine / system – Fan ventilation (e.g. air from the driving motor) – Oil cooling |

Ventilated gearboxes

Gearbox sizes 04 to 07

Gearboxes of size 04 do not require any ventilation.

When using gearbox sizes 05 to 07, it is usually not necessary to provide special ventilation.

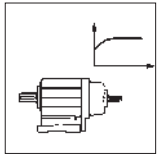
In some cases, e.g. for input speeds > 2000 1/min we recommend the use of breather elements. They are optionally available.

Gearbox sizes 09 to 14

These gearbox sizes are always equipped with breather elements.

Special measures for mounting position C (motor on top)

If you mount the gearbox sizes 09 to 14 in this mounting position, we recommend the use of an oil compensator. For figures and dimensions see page 3-23. The compensator is optionally available. The use of a compensator is not necessary when working with high ratios and low speeds. Please contact Lenze for more information.



Permissible radial and axial forces – helical gearboxes

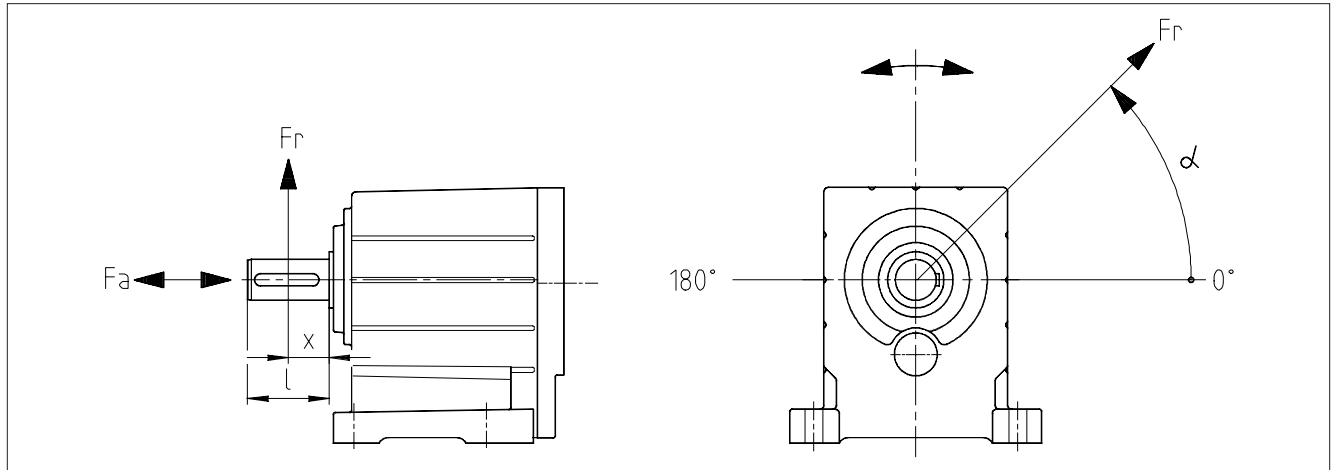
– Permissible radial force

$$F_{r \text{ perm}} = f_w \cdot f_\alpha \cdot F_{r \text{ Tab}} \leq f_w \cdot F_{r \text{ max}}$$

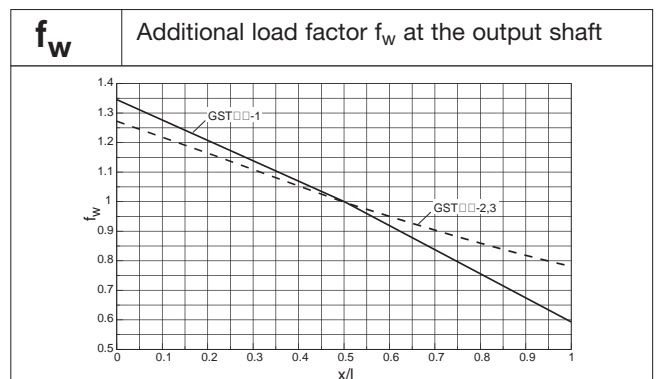
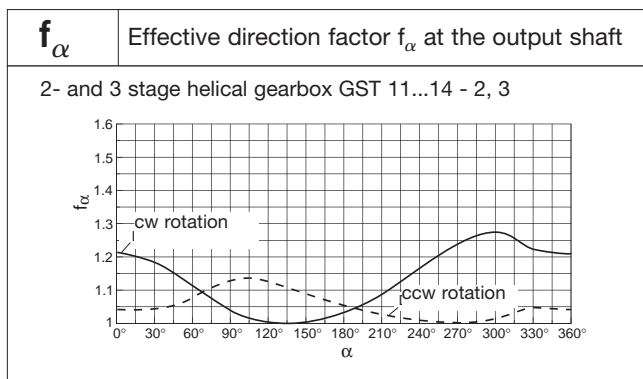
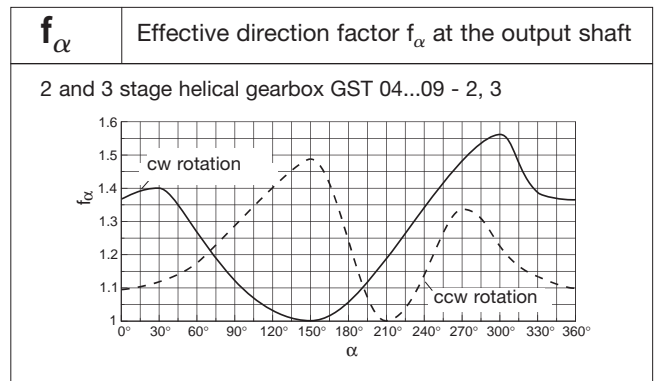
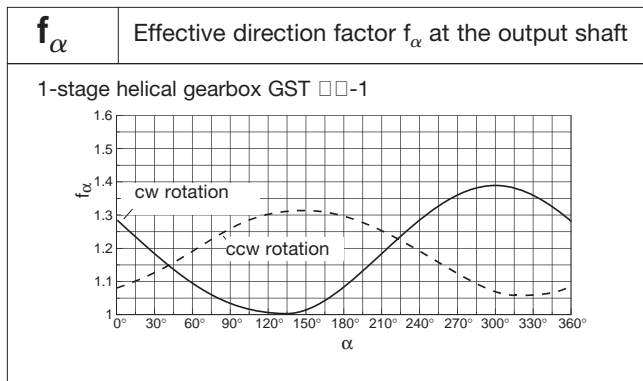
– Permissible axial force

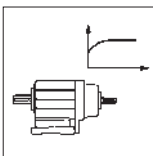
$$F_{a \text{ perm}} = F_{a \text{ Tab}} \quad \text{with } F_r = 0$$

Please contact Lenze if F_r and $F_a > 0$



3





Technical data

Gearboxes

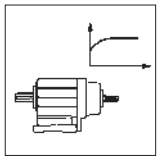
Permissible radial and axial forces – helical gearboxes

GST□□-1D (Feet on DISCO housing)

| VCR | F _{r Tab} acts on the middle of the shaft (x = l/2) F _{a Tab} only valid if F _r = 0 | | | | | | | | | | | | | | | | | |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | GST 04 | | | | GST 05 | | | | GST 06 | | | | GST 07 | | | | | |
| | 02C | | 03C | | 04D | | 03C | | 04D | | 05E | | 04D | | 05E | | 05E | |
| n ₂ [min ⁻¹] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] |
| 1000 | 240 | 240 | 330 | 330 | 490 | 490 | 310 | 310 | 460 | 460 | 780 | 780 | 430 | 430 | 730 | 730 | 680 | 680 |
| 600 | 240 | 240 | 330 | 330 | 490 | 490 | 310 | 310 | 460 | 460 | 780 | 780 | 430 | 430 | 730 | 730 | 680 | 680 |
| 400 | 240 | 240 | 330 | 330 | 490 | 490 | 310 | 310 | 460 | 460 | 780 | 780 | 430 | 430 | 730 | 730 | 680 | 680 |
| 200 | 240 | 240 | 420 | 420 | 610 | 610 | 390 | 390 | 580 | 580 | 970 | 970 | 540 | 540 | 910 | 910 | 850 | 850 |
| 125 | 240 | 240 | 500 | 500 | 730 | 730 | 470 | 470 | 680 | 680 | 1170 | 1170 | 640 | 640 | 1100 | 1100 | 1020 | 1020 |
| 80 | 240 | 240 | 500 | 500 | 730 | 730 | 470 | 470 | 680 | 680 | 1170 | 1170 | 640 | 640 | 1100 | 1100 | 1020 | 1020 |
| ≤50 | 240 | 240 | 500 | 500 | 730 | 730 | 470 | 470 | 680 | 680 | 1170 | 1170 | 640 | 640 | 1100 | 1100 | 1020 | 1020 |
| F _{r max.} | 240 | - | 500 | - | 730 | - | 470 | - | 680 | - | 1170 | - | 640 | - | 1100 | - | 1020 | - |

GST □□-1

| V □ □ | F _{r Tab} acts on the middle of the shaft (x = l/2) F _{a Tab} only valid if F _r = 0 | | | | | | | | | |
|---------------------|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | |
| | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [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 | - |



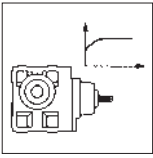
Permissible radial and axial forces – helical gearboxes

GST □□-2, 3 with standard bearing

| V □□ | F _{r Tab} acts on the middle of the shaft (x = l/2) F _{a Tab} only valid if F _r = 0 | | | | | | | | | | | | | |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | | GST 11 | | GST 14 | |
| n ₂ [min ⁻¹] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] |
| 400 | 1250 | 1100 | 1950 | 2000 | 2350 | 850 | 3400 | 1900 | 6800 | 2300 | 17000 | 9500 | 24000 | 15000 |
| 250 | 1450 | 1300 | 2200 | 2300 | 2600 | 900 | 3800 | 2200 | 7600 | 2800 | 19000 | 10000 | 27000 | 16000 |
| 160 | 1700 | 1650 | 2600 | 2650 | 3100 | 1250 | 4500 | 2900 | 9400 | 4000 | 21000 | 11000 | 31000 | 18000 |
| 100 | 2100 | 2000 | 3000 | 3100 | 3600 | 1800 | 5400 | 3900 | 11500 | 5600 | 21000 | 14000 | 36000 | 20000 |
| 63 | 2500 | 2000 | 3500 | 3600 | 4300 | 2600 | 6400 | 5300 | 11500 | 8900 | 21000 | 16000 | 39000 | 20000 |
| 40 | 2650 | 2000 | 3800 | 3600 | 4350 | 3600 | 7600 | 7000 | 11500 | 11000 | 21000 | 16000 | 40000 | 20000 |
| 25 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9100 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 |
| <16 | 2650 | 2000 | 3900 | 3600 | 4350 | 4800 | 9500 | 7000 | 11500 | 12000 | 21000 | 16000 | 40000 | 20000 |
| F _{r max.} | 2650 | – | 3900 | – | 4350 | – | 9500 | – | 11500 | – | 21000 | – | 40000 | – |

GST □□-2, 3 with reinforced bearing

| V □□ | F _{r Tab} acts on the middle of the shaft (x = l/2) F _{a Tab} only valid if F _r = 0 | | | | | | | | | | GST 11 | GST 14 | | | | | | | | | | | | | | |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | GST 04 | | GST 05 | | GST 06 | | GST 07 | | GST 09 | | | | | | | | | | | | | | | | | |
| n ₂ [min ⁻¹] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | F _{r Tab} [N] | F _{a Tab} [N] | The standard bearing corresponds to a reinforced bearing | | | | | | | | | | | | | | | |
| 400 | 2850 | 1700 | 4900 | 3600 | 6300 | 3500 | 8500 | 5500 | 16500 | 8000 | | | The standard bearing corresponds to a reinforced bearing | | | | | | | | | | | | | |
| 250 | 3150 | 1900 | 5400 | 3900 | 7000 | 3600 | 9500 | 6100 | 17000 | 9000 | | | | | The standard bearing corresponds to a reinforced bearing | | | | | | | | | | | |
| 160 | 3550 | 2200 | 5400 | 4300 | 7700 | 4200 | 10500 | 7100 | 17000 | 10500 | | | | | | | The standard bearing corresponds to a reinforced bearing | | | | | | | | | |
| 100 | 3750 | 2500 | 5400 | 4500 | 7700 | 4900 | 12500 | 8300 | 17000 | 12500 | | | | | | | | | The standard bearing corresponds to a reinforced bearing | | | | | | | |
| 63 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | | | | | | | | The standard bearing corresponds to a reinforced bearing | | | | | |
| 40 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | | | | | | | | | | The standard bearing corresponds to a reinforced bearing | | | |
| 25 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | | | | | | | | | | | | The standard bearing corresponds to a reinforced bearing | |
| < 16 | 3750 | 2500 | 5400 | 4500 | 7700 | 5700 | 13000 | 9000 | 17000 | 14000 | | | | | | | | | | | | | | | | |
| F _{r max.} | 3750 | – | 5400 | – | 7700 | – | 13000 | – | 17000 | – | The standard bearing corresponds to a reinforced bearing | | | | | | | | | | | | | | | |



Technical data

Gearboxes

Permissible radial and axial forces – helical bevel gearboxes

– Permissible radial force

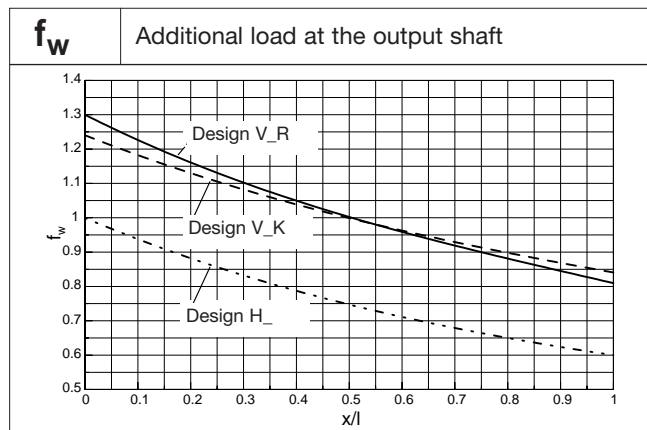
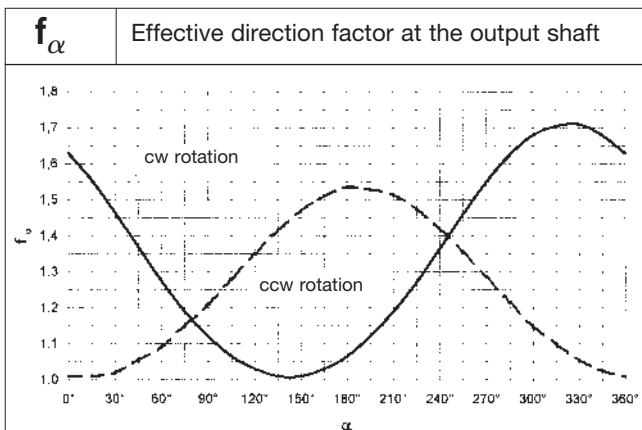
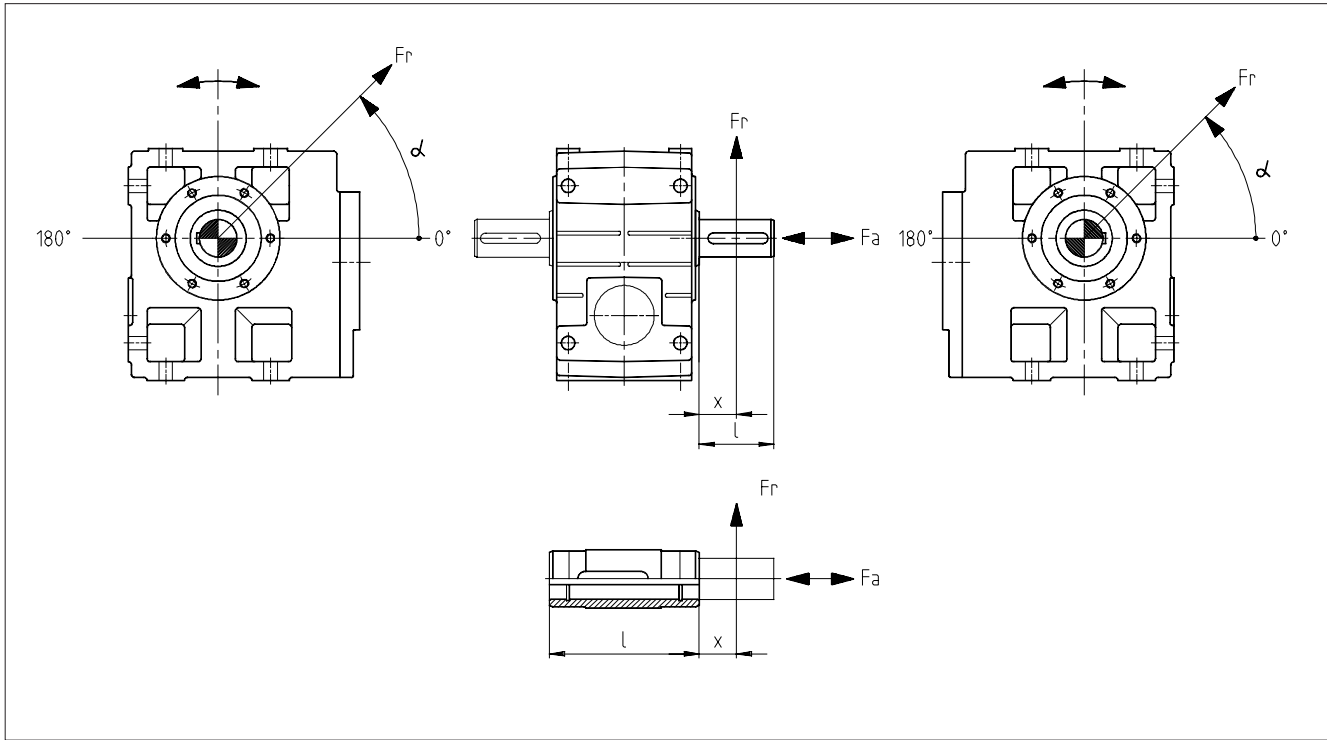
$$F_{r \text{ perm}} = f_w \cdot f_\alpha \cdot F_{r \text{ Tab}} \leq f_w \cdot F_{r \text{ max}}$$

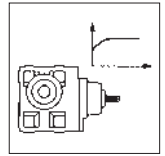
– Permissible axial force

$$F_{a \text{ perm}} = F_{a \text{ Tab}} \quad \text{with } F_r = 0$$

Please contact Lenze if F_r and $F_a < 0$

3





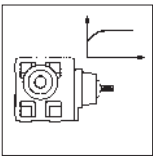
Permissible radial and axial forces – helical-bevel gearboxes

| VAK | Solid shaft with flange F_r acts on the middle of the shaft ($x = l/2$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | | | | | | | |
|-------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09 | | GKS 11 | | GKS 14 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 | - |

| V□R | Solid shaft without shaft F_r acts on the middle of the shaft ($x = l/2$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | | | | | | | |
|-------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09 | | GKS 11 | | GKS 14 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 F_r acts on the middle of the shaft ($x = 0$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | | | | | | | |
|-------------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GKS 04 | | GKS 05 | | GKS 06 | | GKS 07 | | GKS 09 | | GKS 11 | | GKS 14 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 | - |

For hollow shaft with shrink disc (S□□), radial and axial forces are not permissible.



Technical data

Gearboxes

Permissible radial and axial forces – helical worm gearboxes

– Permissible radial force

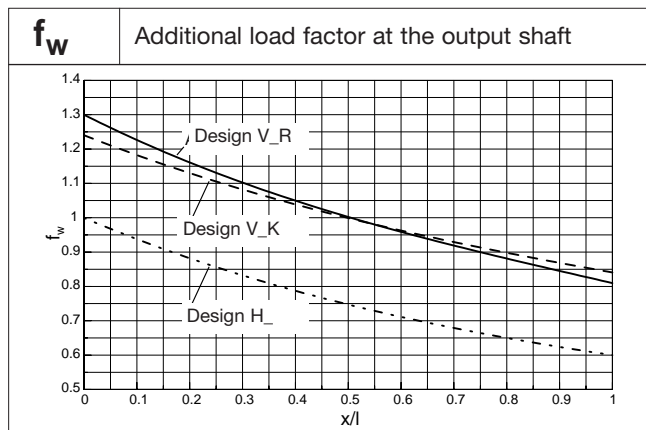
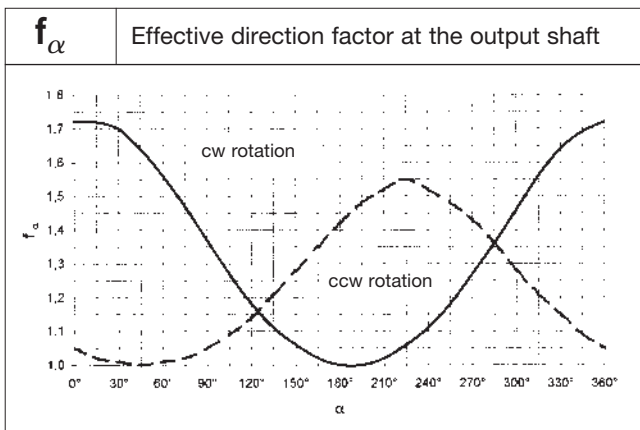
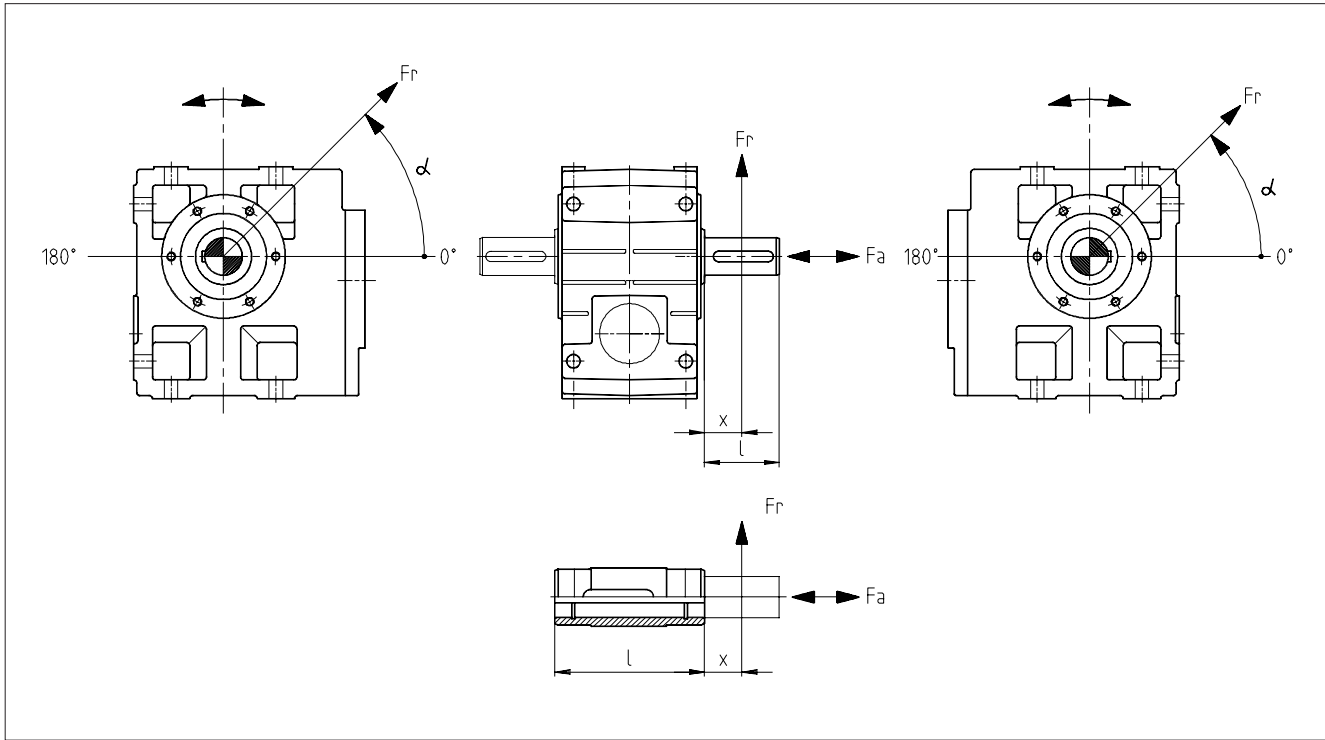
$$F_{r \text{ perm}} = f_w \cdot f_\alpha \cdot F_{r \text{ Tab}} \leq f_w \cdot F_{r \text{ max}}$$

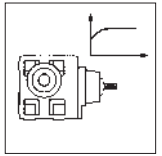
– Permissible axial force

$$F_{a \text{ perm}} = F_{a \text{ Tab}} \quad \text{with } F_r = 0$$

Please contact Lenze if F_r and F_a (0

3





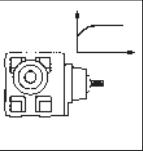
Permissible radial and axial forces – helical-worm gearboxes

| VAK | Solid shaft with flange F_r : acts on the middle of the shaft ($x = l/2$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | |
|-------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 |
| 1 6 | 4700 | 4200 | 4900 | 5500 | 9400 | 8800 | 14000 | 10000 |
| $F_{r max}$ | 4700 | – | 4900 | – | 9400 | – | 14000 | – |

| V□R | Solid shaft without flange F_r acts on the middle of the shaft ($x = l/2$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | |
|-------------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 |
| 1 6 | 4200 | 5500 | 4300 | 6000 | 8500 | 9000 | 12000 | 12500 |
| $F_{r max}$ | 4200 | – | 4300 | – | 8500 | – | 12000 | – |

| H□□ | Hollow shaft F_r acts on the middle of the shaft ($x = 0$) $F_{a Tab}$ only valid for $F_r = 0$ | | | | | | | |
|-------------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | GSS 04 | | GSS 05 | | GSS 06 | | GSS 07 | |
| n_2 [min ⁻¹] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [N] | $F_{r Tab}$ [N] | $F_{a Tab}$ [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 |
| 1 6 | 6000 | 5500 | 7500 | 6000 | 11500 | 9000 | 16000 | 12500 |
| $F_{r max}$ | 6000 | – | 7500 | – | 11500 | – | 16000 | – |

For hollow shaft with shrink disc (S□□), radial and axial forces are not permissible.



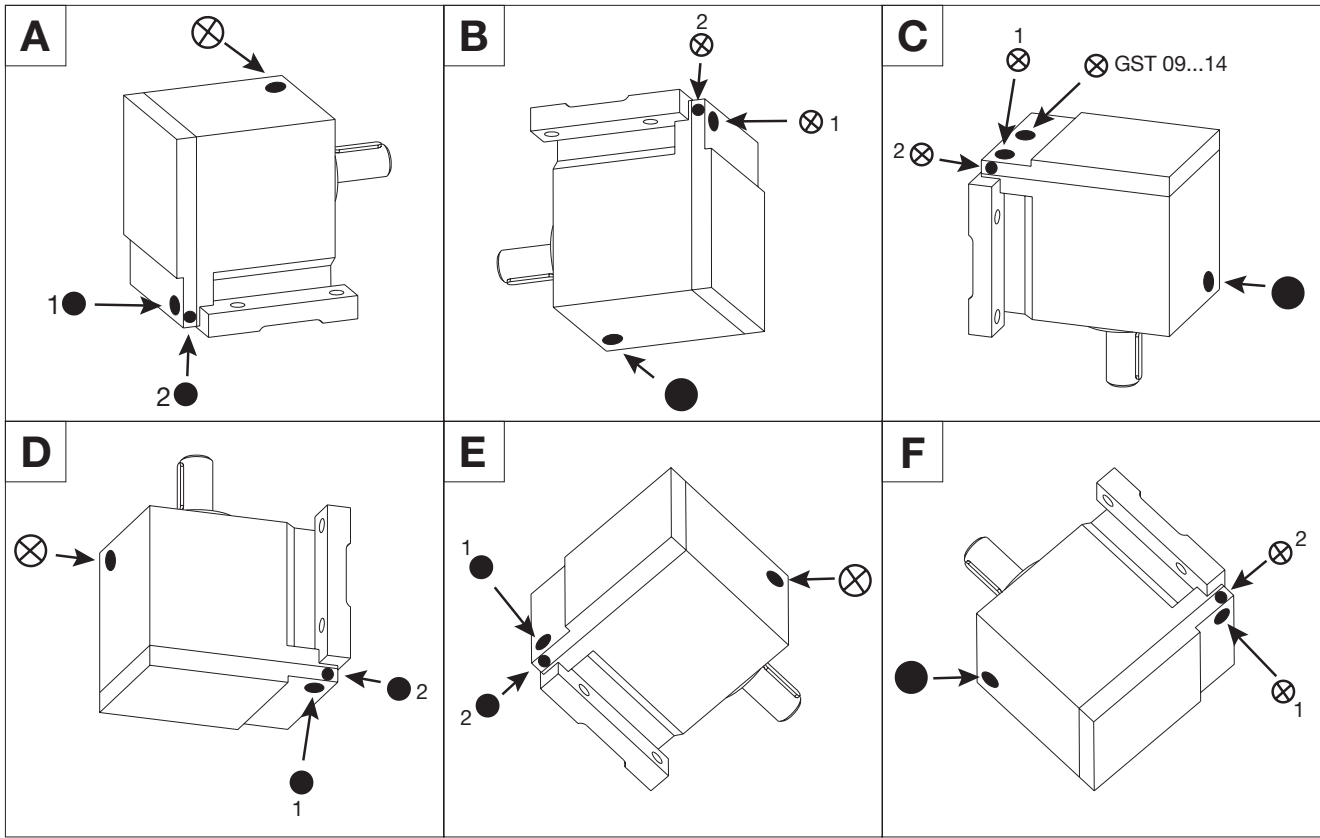
Technical data

Gearboxes

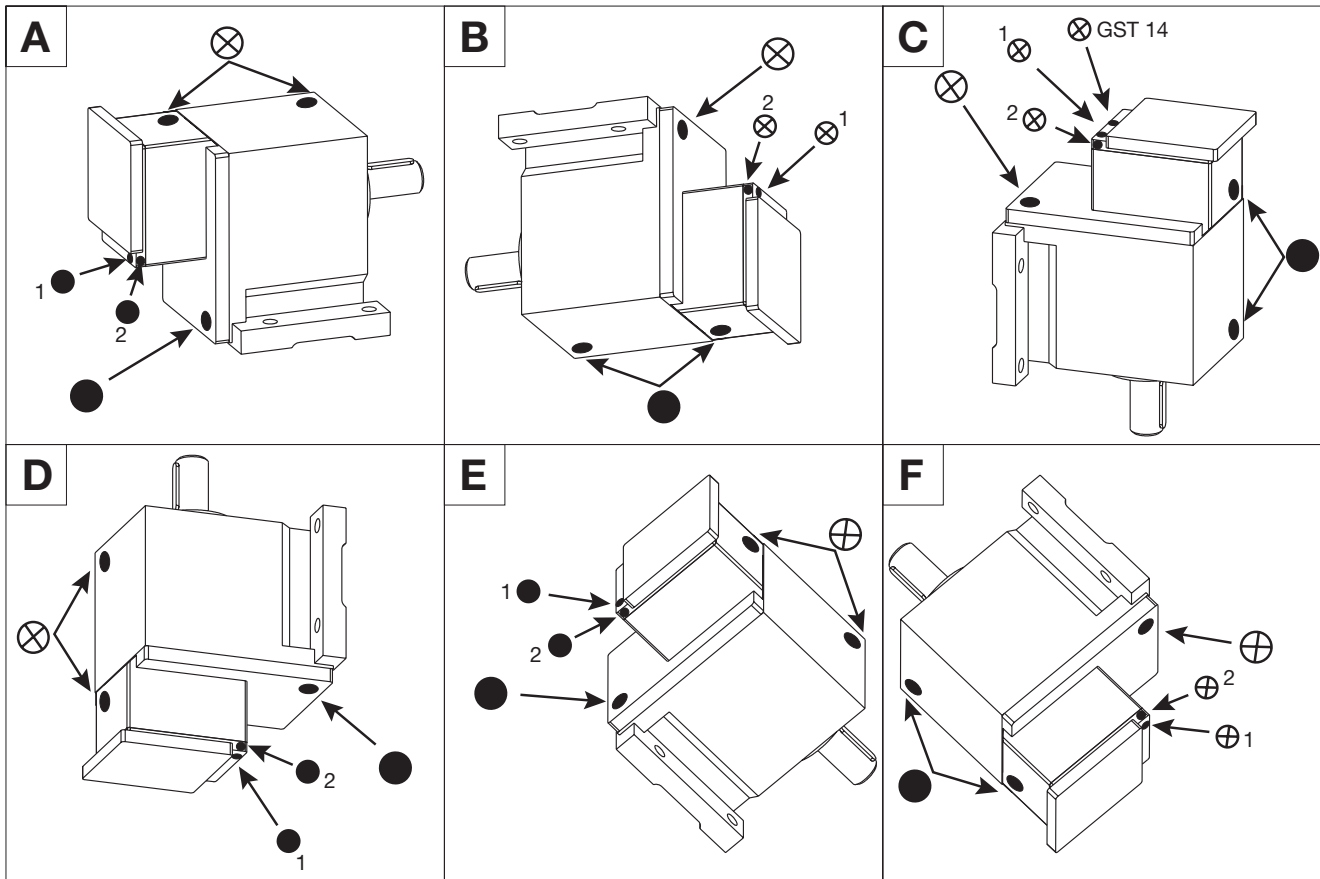
Position of breather, oil filler plug and oil drain plug

Helical gearboxes GST 05...14 - 2

3



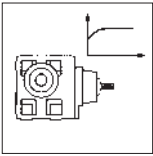
Helical gearboxes GST 05...14 - 3



Mounting position (A...F)

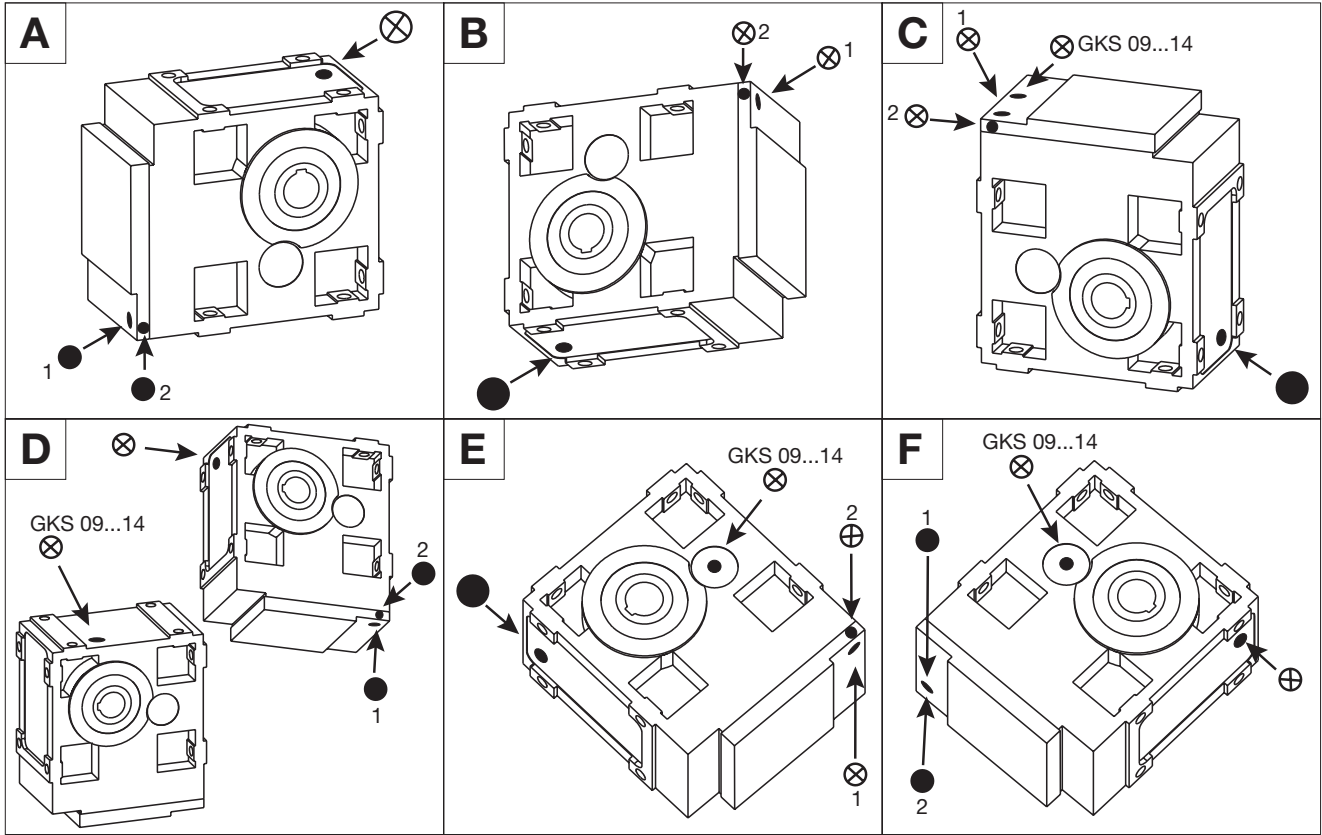
⊗ Breather/oil filler plug

● Oil drain plug



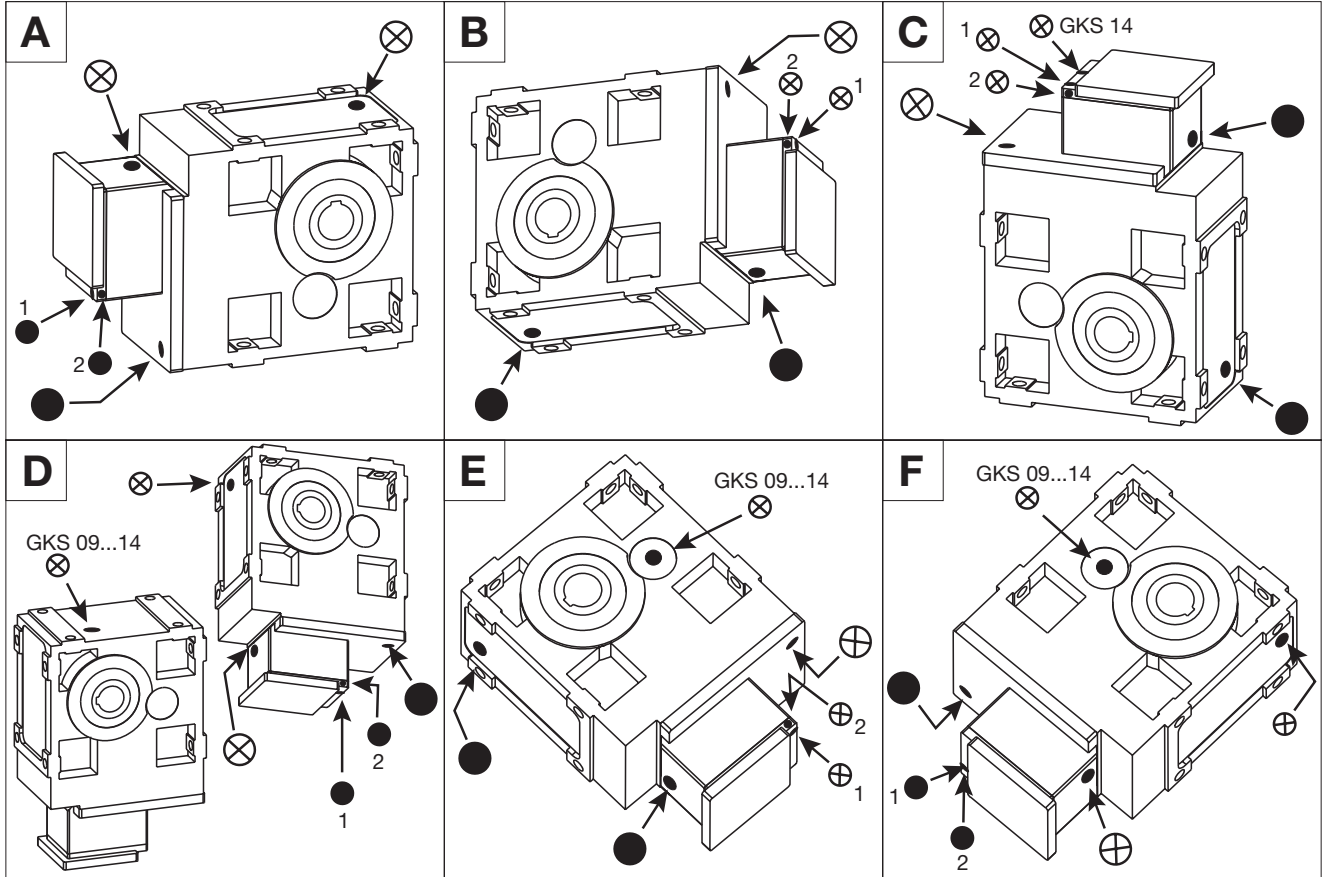
Position of breather, oil filler plug and oil drain plug

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



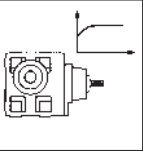
3

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



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

Pos. 1 or 2 depending on the type of gearbox used (see table on page 23)



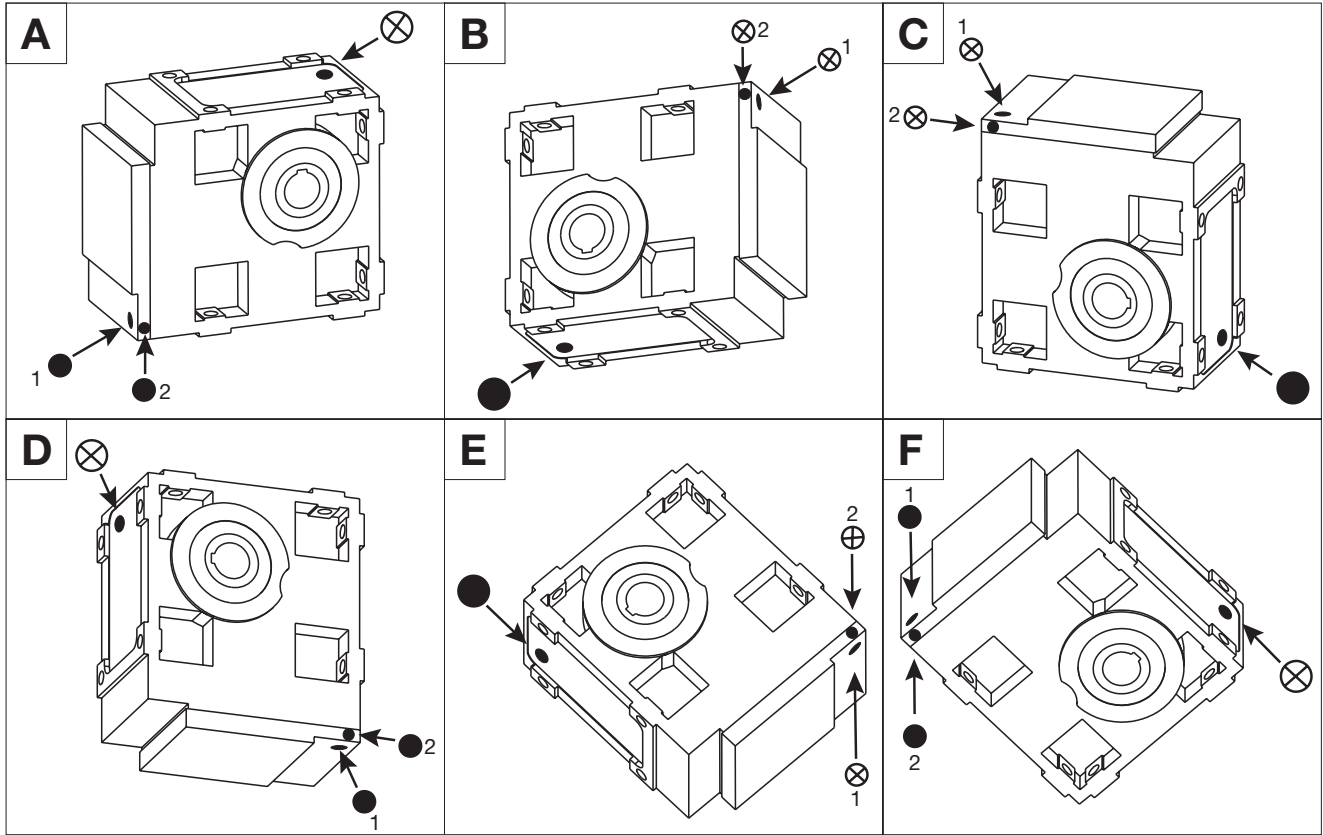
Technical data

Gearboxes

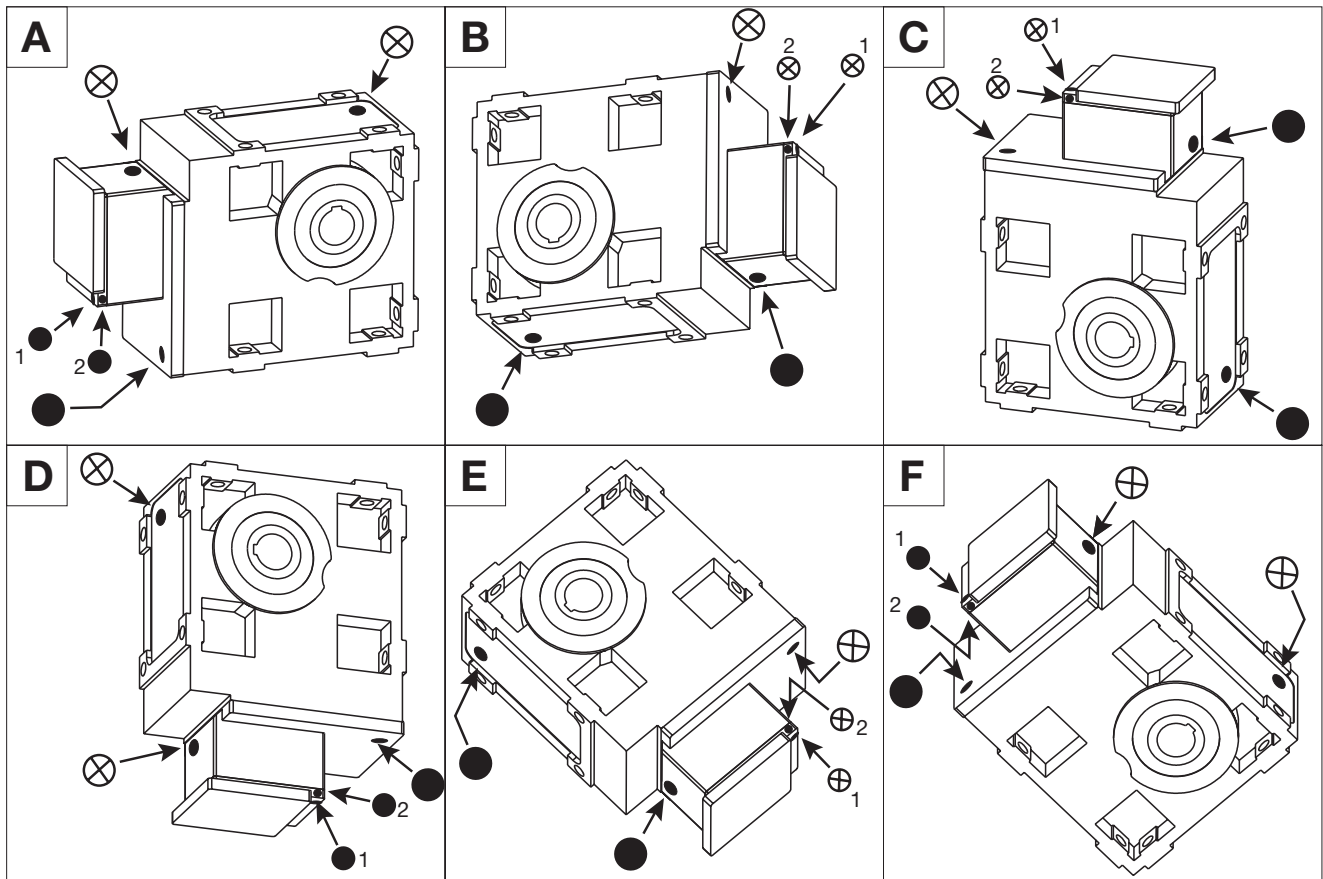
Position of breather, oil filler plug and oil drain plug

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

3



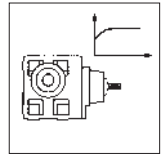
Helical-worm gearboxes GSS 05...07 - 3



Mounting position (A...F)

⊗ Breather/oil filler plug

● Oil drain plug



With the gearbox **types listed in the tables**, the breather, oil filler plug and oil drain plug are **in position 2** at the side of the cover. Position 1 is valid for **all other gearbox types**.

Helical gearboxes

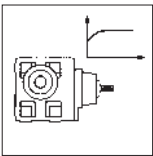
| | | | | | |
|-----|----|----|---|-----|--|
| GST | 05 | -1 | D | □□□ | 080-□□ 04D 090-□□ 05E |
| | | -2 | D | □□□ | 080-□□ 04D 090-□□ 05E |
| | 07 | -1 | D | □□□ | 132-12 18H 132-22 08H |
| | | -2 | D | □□□ | 132-12 18H 132-22 08H |
| | | -3 | D | □□□ | 080-□□ 04D 090-□□ 05E |
| | 09 | -3 | K | □□□ | 112-□□ 20F 132-□□ 25F 160-22 25F |

Helical-bevel gearboxes

| | | | | | |
|-----|----|----|---|-----|--------------------------|
| GKS | 05 | -3 | D | □□□ | 080-□□ 04D 090-□□ 05E |
| | 06 | -3 | K | □□□ | 132-□□ 26F 160-22 26F |
| | 07 | -3 | D | □□□ | 132-12 18H 132-22 08H |
| | | -4 | D | □□□ | 080-□□ 04D |
| | 09 | -4 | K | □□□ | 132-□□ 26F 160-22 26F |

Helical-worm gearboxes

| | | | | | |
|-----|----|----|---|-----|--|
| GSS | 05 | -2 | D | □□□ | 080-□□ 04D 090-□□ 05E |
| | 06 | -2 | K | □□□ | 112-LL 25F 132-□□ 26F 160-22 26F |



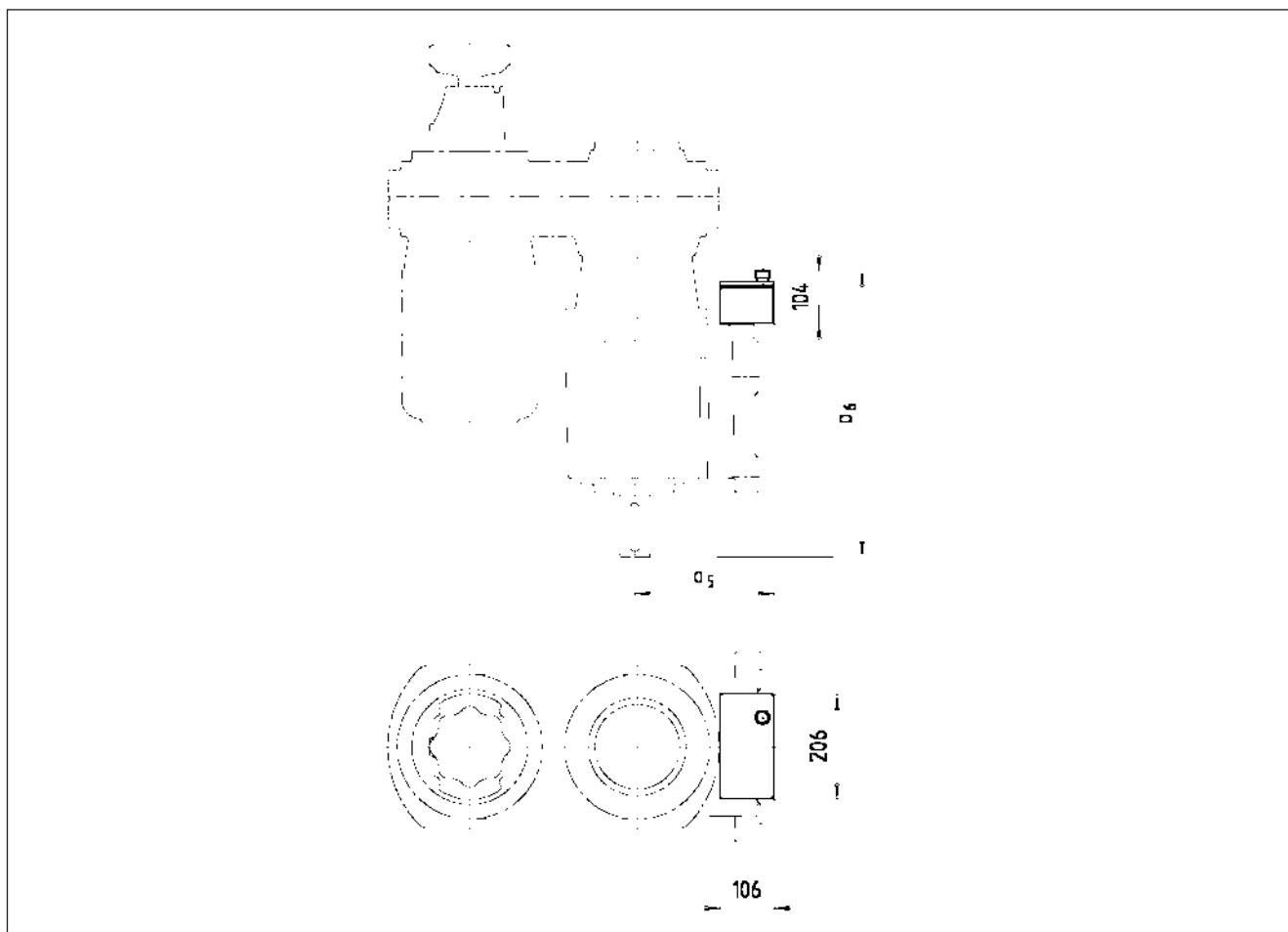
Technical data

Gearboxes

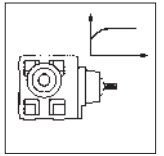
Gearboxes with compensator

Helical gearboxes GST

3

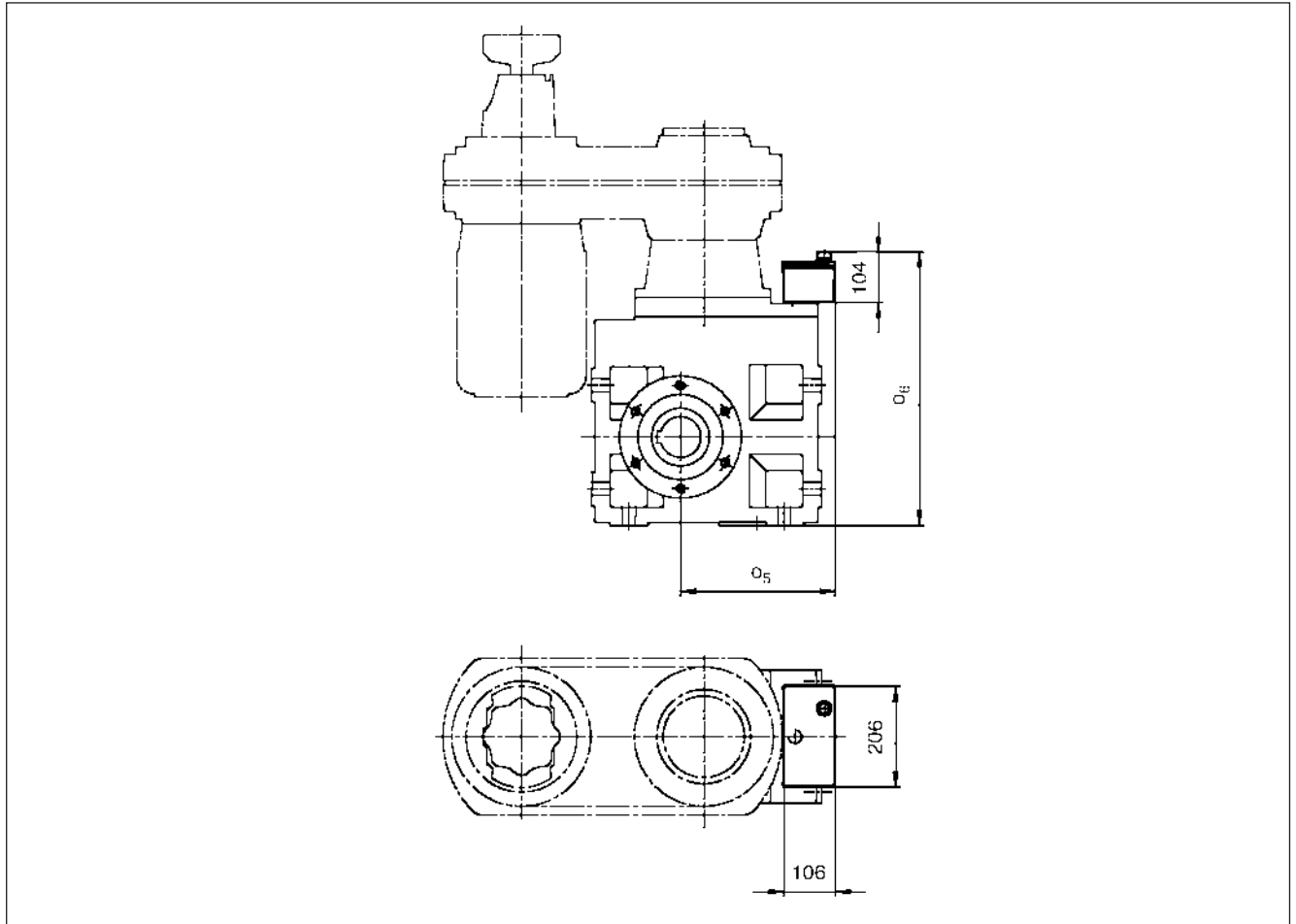


| Helical gearboxes | | DISCO / compact unit size | | | |
|---------------------|----------------------|---------------------------|------------------|--------------------------------|------------------|
| GST □□ - 2 D | | 04D / 05E | | 06G / 07G 08H / 18H | |
| GST □□ - 2 K | | 20E | 25F / 31G | | 31H / 40H |
| 09 | o₅ | 208 | 230 | 251 | 266 |
| | o₆ | 473 | 473 | 473 | 473 |
| 11 | o₅ | 210 | 232 | 256 | 270 |
| | o₆ | 532 | 536 | 536 | 536 |
| 14 | o₅ | | 254 | 284 | 284 |
| | o₆ | | 636 | 636 | 636 |

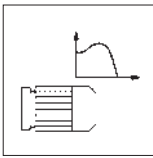


Gearboxes with compensator

Helical-bevel gearboxes GKS



| Helical-bevel gearboxes | | DISCO / compact unit size | | | |
|-------------------------|-------|---------------------------|--------------------------|--------------------------------|------------|
| GKS □□ - 3 D | | 04D / 05E | | 06G / 07G 08H / 18H | |
| GKS □□ - 3 K | | 20E / 21E | 25F / 26F 31G | | 40H |
| 09 | o_5 | 245 | 267 | 288 | 303 |
| | o_6 | 529 | 529 | 529 | 529 |
| 11 | o_5 | 260 | 282 | 306 | 320 |
| | o_6 | 622 | 626 | 626 | 626 |
| 14 | o_5 | | 315 | 345 | 345 |
| | o_6 | | 735 | 735 | 735 |



Technical data

AC motors

General data

| | |
|---------------------------------|--|
| Standards | The motors comply with the corresponding DIN and IEC standards CE conformity to Low-Voltage Directive |
| Duty | Designed for duty type S1 (Continuous operation with constant load at rated power) |
| Enclosure | IP55 (self ventilated) |
| Thermal class (VDE 0530) | Insulation to thermal class F (utilisation to thermal class B) |
| Insulation resistance | max. voltage amplitude $\hat{V} = 1.5 \text{ kV}$ max. voltage rise time $dv/dt = 5 \text{ kV}/\mu\text{s}$ |
| Temperature monitoring | Temperature sensor (normally closed contact) |
| Temperature range | -20 to +40 °C without power derating |
| Installation height | up to 1000 m amsl without power derating |
| Terminal box | Motor connection at terminal board, brake rectifier can be integrated into terminal box |
| Bearing | Deep-groove ball bearings with 2 side plates |

Power derating

Influence of the installation height

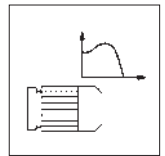
| Influence of the installation height amsl on rated power | | | | |
|--|--------|------|------|------|
| H [m] | ≤ 1000 | 2000 | 3000 | 4000 |
| $\frac{P_h}{P_r}$ | 1 | 0.95 | 0.90 | 0.85 |

Influence of ambient operating temperature

| Influence of ambient operating temperature T_{amb} on rated power | | | | | |
|---|------|------|------|------|------|
| T_{amb} [°C] | ≤ 40 | 45 | 50 | 55 | 60 |
| $\frac{P_{\hat{\theta}}}{P_r}$ | 1 | 0.95 | 0.90 | 0.85 | 0.80 |

Calculation of power derating

$$P_{red} = \frac{P_h}{P_r} \cdot \frac{P_{\hat{\theta}}}{P_r} \cdot P_r$$



Influence of operating frequency on rated data

| Frequency f in Hz | Voltage $\frac{V}{V_r}$ in % | Power $\frac{P}{P_r}$ in % | Speed $\frac{n}{n_r}$ in % | Torque $\frac{M}{M_r}$ in % | Starting torque $\frac{M_A}{M_{Ar}}$ in % |
|----------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------------|--|
| 50 | 100 | 100 | 100 | 100 | 100 |
| 60 | 100 | 100 | 120 | 83 | 70 |
| 60 | 120 | 120 | 120 | 100 | 100 |

Voltages / frequencies

| Connection | Rated motor power | |
|------------|--|--|
| | 0.25...3 kW | 4...45 kW |
| Δ | 220-240 V / 50 Hz 220-266 V / 60 Hz | 380-415 V / 50 Hz 380-460 V / 60 Hz |
| Y | 380-415 V / 50 Hz 380-460 V / 60 Hz | |

The limits of the voltage range are subject to a ±5% tolerance, see DIN EN 60034.

Influence of duty type on rated data

The duty type is very important for motor selection. For instance, a motor generates less heat in short-time duty than continuous duty. It is therefore possible to select a smaller motor for this type of duty. VDE 0530 distinguishes between duty types S1 to S8.

With increased power it is possible to operate the motor with a duty type other than S1. The increased power values P_{perm} for duty type S2, S3, S6 are listed in the following table.

Continuous duty S1

Operation at rated load of sufficient duration for thermal equilibrium to be reached. The motor is continuously driven with rated load.

Short-time duty S2

Compared with the following rest and de-energised period, operation is not long enough to reach the thermal equilibrium. The motor cools down to its initial temperature in the following longer rest period.

Intermittent periodic duty S3, S4, S5

A sequence of identical duty cycles. In general, the duty time is 10 minutes. The machine cools down during the rest period.

- S3: Duty without influence of the running up period
- S4: Duty with influence of the running up period
- S5: Duty with influence of the running up period and electrical braking

Continuous operation periodic duty S6

The motor cannot cool down to its initial temperature during the rest period

Continuous operation periodic duty with starting and electrical braking S7

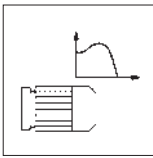
There is no rest and no de-energising period.

Continuous operation S8 with pole changes

Continuous operation under constant load with frequent speed changes.

Power increase for duty types S2, S3 and S6

| Duty type S2 | | Duty type S3 | | Duty type S6 | |
|-----------------|------------------------|---------------|------------------------|---------------|------------------------|
| Duty time [min] | $\frac{P_{perm}}{P_r}$ | Duty time [%] | $\frac{P_{perm}}{P_r}$ | Duty time [%] | $\frac{P_{perm}}{P_r}$ |
| 10 | 1.4 to 1.5 | 15 | 1.4 to 1.5 | 15 | 1.5 to 1.6 |
| 30 | 1.15 to 1.2 | 25 | 1.3 to 1.4 | 25 | 1.4 to 1.5 |
| 60 | 1.07 to 1.1 | 40 | 1.15 to 1.2 | 40 | 1.3 to 1.4 |
| 90 | 1.0 to 1.05 | 60 | 1.05 to 1.1 | 60 | 1.15 to 1.2 |



Technical data

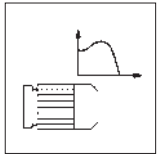
AC motors

Standard motors for DISCO variable speed drives

| DISCO size | 02 | 03 | 04 | 05 | 06 | 07 | 18 / 08 |
|--------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Motor frame size | 71 | 71 | 80 | 90 | 100 | 112 | 132 |
| Self ventilation | ● | ● | ● | ● | ● | ● | ● |
| Motor mounting position | IM B14 | IM B14 | IM B5 | IM B5 | IM B5 | IM B5 | IM B5 |
| Flange diameter | C105 | C105 | A200 | A200 | A250 | A250 | A300 |
| Motor shaft d x l | 14 x 30 | 14 x 30 | 19 x 40 | 24 x 50 | 28 x 60 | 28 x 60 | 38 x 80 |
| Oil-proof | ● | ● | ● | ● | ● | ● | ● |
| Connection type Terminal box | ● | ● | ● | ● | ● | ● | ● |
| Attachments Spring-operated brake | ● | ● | ● | ● | ● | ● | ● |

Standard motors for compact units

| Compact unit size | 10 | 13 | 16 | 20 | 25 | 31 | 40 |
|--------------------------------------|---------|--------------------|--------------------|---------|---------------------|----------------------|----------------------------------|
| Motor frame size | 71 | 80 90 | 90 100 | 112 | 132 160 | 160 180 | 180 200 225 |
| Self ventilation | ● | ● | ● | ● | ● | ● | ● |
| Motor mounting position | IM B14 | IM B14 | IM B14 | IM B14 | IM B5 | IM B5 | IM B5 |
| Flange diameter | C105 | C160 | C160 | C160 | A300 | A350 | A350 A400 A450 |
| Motor shaft d x l | 14 x 30 | 19 x 40 24 x 50 | 24 x 50 28 x 60 | 28 x 60 | 38 x 80 42 x 110 | 42 x 110 48 x 110 | 48 x 110 55 x 110 60 x 140 |
| Connection type Terminal box | ● | ● | ● | ● | ● | ● | ● |
| Attachments Spring-operated brake | ● | ● | ● | ● | ● | ● | ● |



Rated data 50 Hz

No. of pole pairs 2 (4-pole)

| Motor frame size | P_r [kW] | n_r [min ⁻¹] | $I_r^{1)}$ [A] | I_A / I_r [A] | V^* [V] Y / Δ | f_r [Hz] | $\cos \varphi$ | η [%] | M_r [Nm] | M_{stall} [Nm] | M_A [Nm] | J [10 ⁻³ kgm ²] | m [kg] |
|--------------------------------|---------------|-------------------------------|-------------------|--------------------|--------------------|---------------|----------------|---------------|---------------|---------------------|---------------|---|-----------|
| 071-12 | 0.25 | 1400 | 0.82 | 3.9 | 400 / 230 | 50 | 0.70 | 65 | 1.72 | 4.4 | 4.6 | 0.77 | 5.8 |
| 071-32 | 0.37 | 1400 | 1.2 | 3.9 | 400 / 230 | 50 | 0.71 | 72 | 2.54 | 5.3 | 5.8 | 0.94 | 6.4 |
| 080-12 | 0.55 | 1400 | 1.6 | 4.3 | 400 / 230 | 50 | 0.72 | 73 | 3.75 | 10.2 | 9.5 | 1.12 | 7.3 |
| 080-32 | 0.75 | 1380 | 2.0 | 4.7 | 400 / 230 | 50 | 0.76 | 77 | 5.14 | 13.2 | 13.3 | 1.50 | 8.3 |
| 090-12 | 1.1 | 1410 | 2.6 | 5.1 | 400 / 230 | 50 | 0.80 | 80 | 7.45 | 18.5 | 16.7 | 2.5 | 13 |
| 090-32 | 1.5 | 1420 | 3.5 | 6.0 | 400 / 230 | 50 | 0.80 | 83 | 10.1 | 31.0 | 29.1 | 3.5 | 16 |
| 100-12 | 2.2 | 1400 | 5.6 | 6.2 | 400 / 230 | 50 | 0.78 | 83 | 15.0 | 54.0 | 46.5 | 4.75 | 20 |
| 100-32 | 3 | 1400 | 7.3 | 6.2 | 400 / 230 | 50 | 0.81 | 83 | 20.2 | 64.6 | 62.6 | 5.88 | 24 |
| 112-22 | 4 | 1430 | 8.5 | 7.4 | 400 / 230 | 50 | 0.85 | 86 | 26.5 | 84.8 | 71.6 | 20.1 | 35 |
| 112-32 132-12 ²⁾ | 5.5 | 1440 | 12.5 | 8.0 | - / 400 | 50 | 0.78 | 89 | 36.5 | 138.7 | 105.9 | 22.8 | 41 |
| 132-22 | 7.5 | 1460 | 16.8 | 7.7 | - / 400 | 50 | 0.77 | 87 | 50.0 | 170.0 | 135 | 52.9 | 63 |
| 132-32 | 9.2 | 1450 | 19.5 | 6.7 | - / 400 | 50 | 0.85 | 90 | 63.7 | 232.5 | 146.5 | 52.9 | 63 |
| 160-22 | 11 | 1460 | 23.0 | 6.9 | - / 400 | 50 | 0.85 | 88 | 72.0 | 194.4 | 172.8 | 62.0 | 86 |
| 160-32 | 15 | 1460 | 30.0 | 6.6 | - / 400 | 50 | 0.86 | 89 | 96.0 | 259.2 | 249.6 | 83.0 | 104 |
| 180-22 | 18.5 | 1440 | 36.4 | 5.5 | - / 400 | 50 | 0.87 | 92 | 133.0 | 412.3 | 332.5 | 127.0 | 160 |
| 180-32 | 22 | 1465 | 44.1 | 5.5 | - / 400 | 50 | 0.85 | 91 | 143.0 | 443.3 | 343.2 | 153.0 | 187 |
| 200-32 | 30 | 1455 | 60.0 | 6.3 | - / 400 | 50 | 0.85 | 93 | 197.0 | 591.0 | 492.5 | 249.0 | 245 |
| 225-12 | 37 | 1460 | 72.0 | 6.4 | - / 400 | 50 | 0.86 | 92 | 242.0 | 701.8 | 653.4 | 392.0 | 290 |
| 225-22 | 45 | 1475 | 85.5 | 6.9 | - / 400 | 50 | 0.84 | 93 | 291.0 | 843.9 | 814.8 | 474.0 | 360 |

No. of pole pairs 1 (2-pole)

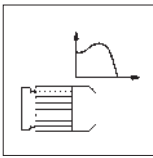
| Motor frame size | P_r [kW] | n_r [min ⁻¹] | $I_r^{1)}$ [A] | I_A / I_r [A] | V^* [V] Y / Δ | f_r [Hz] | $\cos \varphi$ | η [%] | M_r [Nm] | M_{stall} [Nm] | M_A [Nm] | J [10 ⁻³ kgm ²] | m [kg] |
|----------------------|---------------|-------------------------------|-------------------|--------------------|--------------------|---------------|----------------|---------------|---------------|---------------------|---------------|---|-----------|
| 071-11 ²⁾ | 0.37 | 2840 | 1.2 | 5.6 | 400 / 230 | 50 | 0.78 | 72 | 1.25 | 3.7 | 3.6 | 0.47 | 6.2 |
| 071-31 ²⁾ | 0.55 | 2840 | 1.5 | 6.1 | 400 / 230 | 50 | 0.82 | 82 | 1.86 | 5.0 | 5.1 | 0.59 | 6.5 |
| 080-11 ²⁾ | 0.75 | 2850 | 1.9 | 6.1 | 400 / 230 | 50 | 0.80 | 80 | 2.52 | 7.8 | 8.8 | 0.68 | 9.2 |
| 080-31 ²⁾ | 1.1 | 2810 | 2.8 | 6.9 | 400 / 230 | 50 | 0.82 | 79 | 3.70 | 13.1 | 12.2 | 1.01 | 9.6 |
| 090-11 ²⁾ | 1.5 | 2840 | 3.2 | 5.9 | 400 / 230 | 50 | 0.85 | 82 | 5.10 | 13.6 | 11.9 | 1.72 | 14 |
| 090-31 ²⁾ | 2.2 | 2840 | 4.8 | 6.9 | 400 / 230 | 50 | 0.86 | 82 | 7.40 | 21.5 | 20.9 | 2.54 | 17 |

¹⁾ at 400 V mains voltage

²⁾ only for DISCO variable speed drive

Values are guide values

*Motors can be driven at rated torque within a voltage range to the table "Voltages / Frequencies" on page 3-27.



Technical data

AC motors

Spring-operated brakes

Brake motors are equipped with Lenze spring-operated brakes. The rectifier required for mains operation is located in the terminal box and is part of the delivery package. The brake is shown on page 3-31.

The brakes are active after the supply voltage has been switched off (fail-safe brake).

The brake torques indicated apply to quasi-static selection when the brake is operated as low-wear holding brake. The air gap is factory set and can be readjusted in the event of wear.

General data

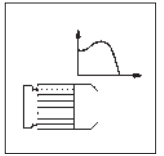
| | |
|----------------------------|---|
| Design | Single-disc spring-operated brake |
| Operating principle | Brake torque when no voltage is applied |
| Type of protection | IP 54 |
| Thermal class | F |
| Friction lining | asbestos free |
| Option | Hand release |

Rated data

| Size | P _{20°} [W] | M _B [Nm] | J _B [10 ⁻³ kgm ²] | m [kg] | Connection voltage | Assigned brake voltage |
|------|-------------------------|------------------------|--|-----------|---|---------------------------------|
| 06 | 20 | 4 | 0.015 | 0.9 | 24 V DC t 220...240 V AC t 380...420 V AC t | 24 V DC 205 V DC 180 V DC |
| 08 | 25 | 8 | 0.061 | 1.5 | | |
| 10 | 30 | 16 | 0.20 | 2.6 | | |
| 12 | 40 | 32 | 0.45 | 4.2 | | |
| 14 | 50 | 60 | 0.63 | 5.8 | | |
| 16 | 55 | 80 | 1.5 | 8.7 | | |
| 18 | 85 | 150 | 2.9 | 12.6 | | |
| 20 | 100 | 260 | 7.3 | 19.5 | | |
| 25 | 110 | 400 | 20.0 | 31.0 | | |

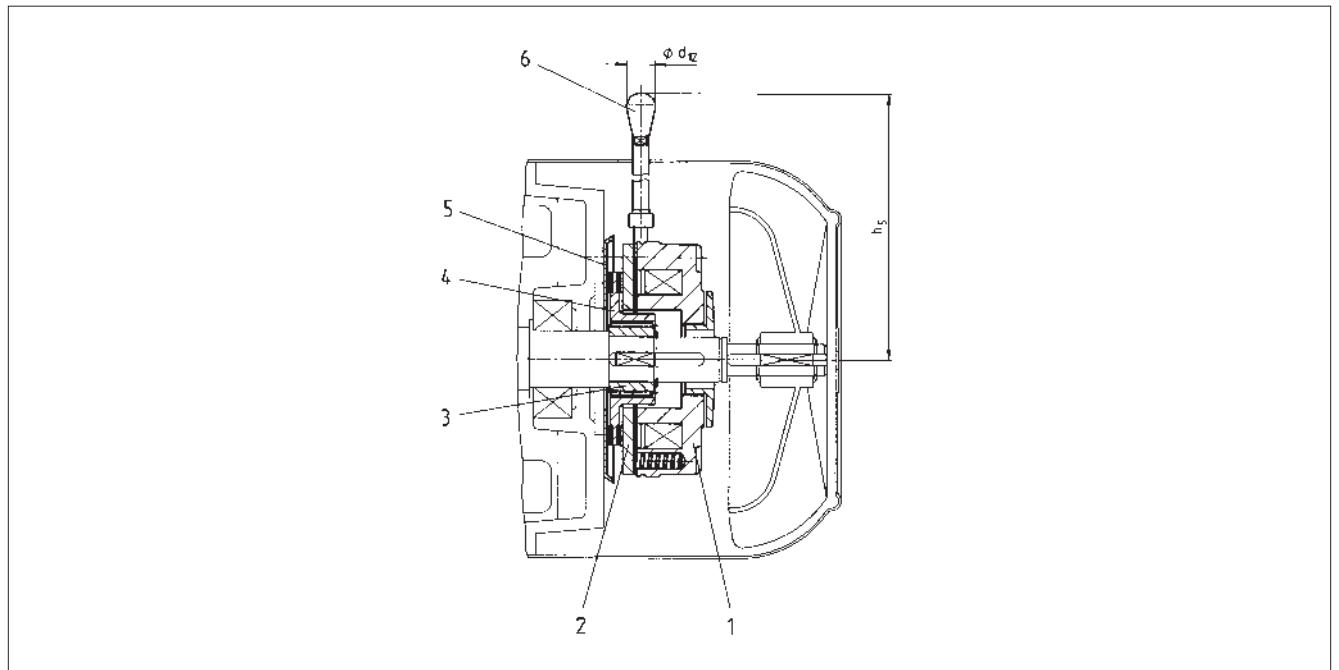
Possible combinations

| Size | Brake | | | | | | | | |
|-------------------------|-------|----|----|----|----|----|----|----|----|
| | 06 | 08 | 10 | 12 | 14 | 16 | 18 | 20 | 25 |
| Motor frame size | | | | | | | | | |
| 071 | ● | | | | | | | | |
| 080 | | ● | | | | | | | |
| 090 | | ● | ● | ● | | | | | |
| 100 | | | ● | ● | ● | | | | |
| 112 | | | | ● | ● | ● | | | |
| 132 | | | | | ● | ● | ● | | |
| 160 | | | | | | ● | ● | ● | |
| 180 | | | | | | | ● | ● | |
| 200 | | | | | | | | ● | ● |
| 225 | | | | | | | | | ● |

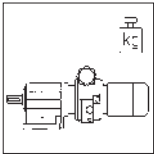


Spring-operated brake

| Position | Name |
|----------|-----------------------|
| 1 | Stator |
| 2 | Armature |
| 3 | Hub |
| 4 | Rotor |
| 5 | Friction plate |
| 6 | Hand release (option) |



| Spring-operated brake size | d12 | h5 |
|----------------------------|-----|-----|
| 06 | 13 | 107 |
| 08 | 13 | 116 |
| 10 | 13 | 132 |
| 12 | 13 | 161 |
| 14 | 24 | 195 |
| 16 | 24 | 240 |
| 18 | 24 | 279 |
| 20 | 24 | 319 |
| 25 | 24 | 445 |



Technical data

Weights

DISCO variable speed drives with helical gearboxes

GST □□ - 1D

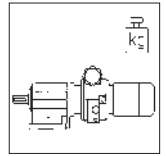
| Gearbox size | DISCO variable speed drive GST □□ - 1D VBR with drive size | | | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GST 04 | 15 | 23 | 32 | 33 | | | | | | |
| GST 05 | 18 | 27 | 36 | 37 | 51 | 54 | | | | |
| GST 06 | | | 41 | 42 | 56 | 58 | | | | |
| GST 07 | | | | | 65 | 67 | 104 | 114 | 177 | 184 |
| GST 09 | | | | | | | 119 | 129 | 192 | 199 |

| Gearbox size | DISCO variable speed drive GST □□ - 1D VCR with drive size | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 |
| GST 04 | 14 | 23 | 32 | 33 | | |
| GST 05 | 17 | 26 | 35 | 36 | 50 | 53 |
| GST 06 | | | 39 | 40 | 54 | 56 |
| GST 07 | | | | | 62 | 64 |

GST □□ - 2D

| Gearbox size | DISCO variable speed drive GST □□ - 2D VBR with drive size | | | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GST 04 | 17 | 25 | 34 | 35 | | | | | | |
| GST 05 | 22 | 30 | 40 | 41 | 55 | 57 | | | | |
| GST 06 | 29 | 37 | 47 | 48 | 62 | 64 | | | | |
| GST 07 | | | 62 | 63 | 77 | 79 | 116 | 126 | 189 | 196 |
| GST 09 | | | 89 | 90 | 104 | 107 | 143 | 154 | 216 | 223 |
| GST 11 | | | | | 150 | 153 | 188 | 198 | 261 | 268 |
| GST 14 | | | | | | | 277 | 288 | 350 | 357 |

| Gearbox size | DISCO variable speed drive GST □□ - 2D VCR with drive size | | | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GST 04 | 16 | 25 | 34 | 35 | | | | | | |
| GST 05 | 20 | 29 | 38 | 39 | 53 | 56 | | | | |
| GST 06 | 26 | 35 | 44 | 45 | 59 | 62 | | | | |
| GST 07 | | | 58 | 59 | 73 | 75 | 111 | 122 | 184 | 191 |
| GST 09 | | | 81 | 82 | 96 | 98 | 135 | 145 | 208 | 215 |
| GST 11 | | | | | 135 | 138 | 173 | 183 | 246 | 253 |
| GST 14 | | | | | | | 249 | 260 | 322 | 329 |



DISCO variable speed drives with helical gearboxes

GST □□ - 3D

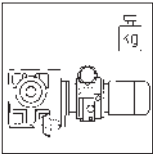
| Gearbox size | DISCO variable speed drive GST □□ - 3D VBR with drive size | | | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GST 05 | 23 | 31 | | | | | | | | |
| GST 06 | 33 | 41 | 50 | 51 | | | | | | |
| GST 07 | 52 | 60 | 70 | 71 | 85 | 87 | | | | |
| GST 09 | 84 | 92 | 102 | 103 | 117 | 120 | | | | |
| GST 11 | | | 156 | 157 | 171 | 174 | 210 | 221 | | |
| GST 14 | | | 263 | 264 | 277 | 280 | 317 | 327 | 390 | 397 |

| Gearbox size | DISCO variable speed drive GST □□ - 3D VCR with drive size | | | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-1□ 04 | 080-3□ 04 | 090-1□ 05 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GST 05 | 21 | 30 | | | | | | | | |
| GST 06 | 30 | 39 | 48 | 49 | | | | | | |
| GST 07 | 48 | 56 | 65 | 66 | 80 | 83 | | | | |
| GST 09 | 75 | 84 | 94 | 95 | 109 | 111 | | | | |
| GST 11 | | | 141 | 142 | 156 | 159 | 195 | 206 | | |
| GST 14 | | | 235 | 236 | 249 | 252 | 289 | 299 | 362 | 369 |

Additional weight

| Gearbox size | Flange VCK/VAK |
|--------------|-------------------|
| GST 04 | 1.0 |
| GST 05 | 1.5 |
| GST 06 | 3.0 |
| GST 07 | 4.0 |
| GST 09 | 7.0 |
| GST 11 | 10.5 |
| GST 14 | 15.5 |

Weights in [kg] with oil filling for mounting position A, all values are approximate values.



Technical data

Weights

DISCO variable speed drives with helical-bevel gearboxes

GKS □□ - 3D

| Gearbox size | DISCO variable speed drive GKS □□ - 3D H□R with drive size | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GKS 04 | 23 | 31 | 41 | | | | | |
| GKS 05 | 32 | 41 | 51 | 67 | | | | |
| GKS 06 | 46 | 55 | 65 | 82 | | | | |
| GKS 07 | 72 | 81 | 91 | 107 | 144 | 154 | 217 | 224 |
| GKS 09 | | | 140 | 156 | 193 | 203 | 266 | 273 |
| GKS 11 | | | | 255 | 290 | 301 | 364 | 371 |
| GKS 14 | | | | | 459 | 470 | 532 | 539 |

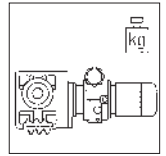
GKS □□ - 4D

| Gearbox size | DISCO variable speed drive GKS □□ - 4D H□R with drive size | | | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 071-1□02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 |
| GKS 05 | 33 | | | | | | | |
| GKS 06 | 50 | 59 | 69 | | | | | |
| GKS 07 | 80 | 89 | 99 | | | | | |
| GKS 09 | 133 | 142 | 153 | 169 | | | | |
| GKS 11 | 241 | 250 | 260 | 277 | 313 | 323 | | |
| GKS 14 | | | 446 | 462 | 499 | 509 | 572 | 579 |

Additional weights

| Getriebe- größe | Solid shaft | 2nd input shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------------|-------------|------------------------|----------------------------------|--------|-----------------|-----------------|
| | V□□ | V□□ | S□□ | □□K | Housing foot | Pitch circle |
| GKS 04 | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| GKS 05 | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| GKS 06 | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| GKS 07 | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |
| GKS 09 | 8 | 2.7 | 3 | 16 | 13.2 | |
| GKS 11 | 16 | 6.3 | 5 | 24 | 22.5 | |
| GKS 14 | 33 | 12.3 | 11 | 33 | 44 | |

Weights in [kg] with oil filling for mounting position A, all values are approximate values



DISCO variable speed drives with helical-worm gearboxes

GSS □□ - 2D

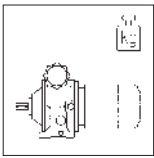
| Gearbox size | DISCO variable speed drive GSS □□ - 2D H□R with drive size | | | | | |
|--------------|---|-----------|-----------|-----------|-----------|-----------|
| | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 |
| GSS 04 | 23 | 31 | 41 | | | |
| GSS 05 | 32 | 40 | 51 | 67 | | |
| GSS 06 | 44 | 52 | 63 | 80 | | |
| GSS 07 | | | 88 | 104 | 141 | 151 |

3

Additional weights

| Gearbox size | Solid shaft | 2nd input shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------|-------------|---------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □□K | Housing foot | Pitch circle |
| GSS 04 | 0.6 | 0.2 | 0.6 | 2.5 | 1.3 | 0.9 |
| GSS 05 | 1 | 0.3 | 0.8 | 4 | 2.2 | 1.3 |
| GSS 06 | 2.5 | 0.8 | 1 | 7 | 3.7 | 2.1 |
| GSS 07 | 5 | 1.5 | 1.5 | 11 | 6.6 | 3.7 |
| GSS 09 | 8 | 2.7 | 3 | 16 | 13.2 | |
| GSS 11 | 16 | 6.3 | 5 | 24 | 22.5 | |
| GSS 14 | 33 | 12.3 | 11 | 33 | 44 | |

Weights in [kg] with oil filling for mounting position A, all values are approximate values



Technical data

Weights

DISCO variable speed drives without gearboxes

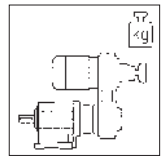
11.710.□□.00

| Gearbox size | DISCO variable speed drive with motor frame size | | | | | | | | | | | |
|--------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | |
| | -1□ | -3□ | -1□ | -3□ | -1□ | -3□ | -1□ | -3□ | -22 | -12 | -22 | |
| 11.710.02 | 10 | | | | | | | | | | | |
| 11.710.03 | | 19 | | | | | | | | | | |
| 11.710.04 | | | 27 | 28 | | | | | | | | |
| 11.710.05 | | | | | 42 | 45 | | | | | | |
| 11.710.06 | | | | | | | 74 | 78 | | | | |
| 11.710.07 | | | | | | | | | 89 | | | |
| 11.710.18 | | | | | | | | | | 151 | | |
| 11.710.08 | | | | | | | | | | | | 158 |

11.700.□□.00

| | |
|-----------|----|
| 11.700.02 | 5 |
| 11.700.03 | 13 |
| 11.700.04 | 21 |
| 11.700.05 | 35 |
| 11.700.06 | 58 |
| 11.700.07 | 58 |
| 11.700.18 | 88 |
| 11.700.08 | 88 |

Weights in [kg] with oil filling for mounting position A.
All values are approximate values



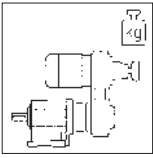
Compact units with helical gearboxes

GST □□-1K

| Gearbox size | Compact unit GST□□-1K VBR with drive size | | | | | | | | | | | | | | | |
|--------------|--|------------|------------|------------|-----|-----|------------|-----|-----|-----|------------|-----|-----|------------|-----|------------|
| | 071 | | 080 | | 090 | | | | | | | | 100 | | | |
| | -12 10B | -32 10B | -12 13C | -32 13C | 13C | 13D | -12 16D | 16E | 13C | 13D | -32 16D | 16E | 16D | -12 16E | 16D | -32 16E |
| 04 | 14 | 15 | 21 | 22 | 27 | | | | 29 | | | | | | | |
| 05 | 18 | 18 | 24 | 25 | 30 | 32 | 35 | | 32 | 35 | 38 | | 42 | | 46 | |
| 06 | | | | | | | 40 | 43 | | | 42 | 45 | 47 | 50 | 50 | 53 |
| 07 | | | | | | | 49 | | | | 51 | | 56 | 59 | 58 | 63 |
| GST□□-1K VCR | | | | | | | | | | | | | | | | |
| 04 | 14 | 14 | 20 | 21 | 27 | | | | 29 | | | | | | | |
| 05 | 17 | 17 | 23 | 24 | 29 | 19 | 34 | | 31 | 34 | 37 | | 41 | | 45 | |
| 06 | | | | | | | 38 | 41 | | | 40 | 43 | 45 | 48 | 49 | 52 |
| 07 | | | | | | | 46 | | | | 48 | | 53 | 56 | 56 | 60 |

| Gearbox size | Compact unit GST□□-1K VBR with drive size | | | | | | | | | | | |
|--------------|--|------------|-----|------------|-----|------------|-----|------------|------------|------------|------------|--|
| | 112 | | 132 | | | | 160 | | 180 | | | |
| | 20E | -22 20F | 20E | -32 20F | 25F | -22 25G | 25F | -32 25G | -22 25F | -32 31G | -22 31G | |
| 06 | 70 | | 75 | | | | | | | | | |
| 07 | 79 | 87 | 84 | 93 | 129 | | 136 | | 171 | | | |
| 09 | 93 | | 98 | | 143 | 149 | 150 | 156 | 185 | 243 | 256 | |
| GST□□-1K VCR | | | | | | | | | | | | |
| 06 | 68 | | 73 | | | | | | | | | |
| 07 | 76 | 84 | 81 | 90 | 118 | | 125 | | 160 | | | |
| 09 | 88 | | 94 | | 126 | 131 | 133 | 138 | 168 | 225 | 265 | |

Weights in [kg] with oil filling for mounting position A.
All values are approximate values



Technical data

Weights

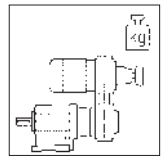
Compact units with helical gearboxes

GST □□-2K

| Gearbox size | Compact unit GST□□-2K VBR with drive size | | | | | | | | | | | |
|--------------|--|------------|------------|------------|-----|------------|-----|-----|------------|-----|------------|------------|
| | 071 | | 080 | | 090 | | | | 100 | | | |
| | -12 10B | -32 10B | -12 13C | -32 13C | 13C | -12 13D | 16D | 13C | -32 13D | 16D | -12 16D | -32 16D |
| 04 | 16 | 17 | 23 | 24 | 29 | | | 32 | | | | |
| 05 | 21 | 22 | 28 | 29 | 33 | 36 | 39 | 36 | 38 | 41 | 46 | 49 |
| 06 | | | | | 40 | | 46 | 43 | | 48 | 53 | 57 |
| 07 | | | | | | | 61 | | | 63 | 68 | 72 |
| GST□□-2K VCR | | | | | | | | | | | | |
| 04 | 16 | 16 | 22 | 23 | 28 | | | 30 | | | | |
| 05 | 20 | 20 | 26 | 27 | 32 | 34 | 37 | 34 | 37 | 40 | 44 | 48 |
| 06 | | | | | 38 | | 43 | 40 | | 46 | 50 | 54 |
| 07 | | | | | | | 57 | | | 59 | 64 | 67 |

| Gearbox size | Compact unit GST□□-2K VBR with drive size | | | | | | | | | | | |
|--------------|--|------------|------------|------------|------------|------------|------------|------------|------------|-------------------|------------|------------|
| | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | |
| | -22 20E | -32 20E | -22 25F | -32 25F | -22 25F | -32 31G | -22 31G | 180 31H | -32 40H | 200 -32 40H | -12 40H | -32 40H |
| 06 | 76 | 82 | | | | | | | | | | |
| 07 | 91 | 96 | 141 | 148 | 183 | | | | | | | |
| 09 | 117 | 123 | 167 | 174 | 209 | 267 | 307 | | | | | |
| 11 | | | 213 | 220 | 255 | 312 | 347 | 367 | 519 | 579 | 659 | 674 |
| 14 | | | | | | 401 | 441 | | 608 | 668 | 748 | 763 |
| GST□□-2K VCR | | | | | | | | | | | | |
| 06 | 73 | 79 | | | | | | | | | | |
| 07 | 87 | 92 | 137 | 144 | 179 | | | | | | | |
| 09 | 109 | 114 | 159 | 166 | 201 | 259 | 299 | | | | | |
| 11 | | | 198 | 205 | 240 | 297 | 337 | 352 | 504 | 564 | 644 | 659 |
| 14 | | | | | | 373 | 413 | | 580 | 640 | 720 | 735 |

Weights in [kg] with oil filling for mounting position A.
All values are approximate values



Compact units with helical gearboxes

GST □□-3K

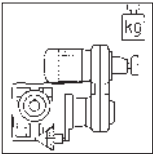
| Gearbox size | Compact unit GST□□-3K VBR with drive size | | | | | | | | | | | | | | | |
|--------------|--|------------|------------|------------|-----|-----|------------|-----|-----|-----|------------|-----|-----|------------|-----|------------|
| | 071 | | 080 | | 090 | | | | | | | | 100 | | | |
| | -12 10B | -32 10B | -12 13C | -32 13C | 13C | 13D | -12 16D | 16E | 13C | 13D | -32 16D | 16E | 16D | -12 16E | 16D | -32 16E |
| 05 | 22 | 23 | 29 | 30 | | | | | | | | | | | | |
| 06 | 32 | 33 | 39 | 40 | 45 | | | 47 | | | | | | | | |
| 07 | 51 | 52 | 58 | 59 | 64 | 66 | 69 | 66 | 68 | 71 | | | 76 | | 79 | |
| 09 | | | 90 | 91 | 96 | 98 | 101 | 98 | 101 | 104 | | | 108 | | 112 | |
| 11 | | | | | | 152 | 155 | | | 55 | 158 | | 162 | | 166 | |
| 14 | | | | | | | | 264 | | | | 266 | | 271 | | 274 |
| | GST□□-3K VCR | | | | | | | | | | | | | | | |
| 06 | 21 | 22 | 27 | 28 | | | | | | | | | | | | |
| 06 | 30 | 30 | 36 | 37 | 42 | | | 44 | | | | | | | | |
| 07 | 47 | 48 | 53 | 54 | 59 | 61 | 64 | 62 | 64 | 67 | | | 71 | | 75 | |
| 09 | | | 81 | 82 | 87 | 90 | 93 | 90 | 92 | 95 | | | 100 | | 103 | |
| 11 | | | | | | 137 | 140 | | | 140 | 143 | | 147 | | 151 | |
| 14 | | | | | | | | 236 | | | | 238 | | 243 | | 245 |

| Gearbox size | Compact unit GST□□-3K VBR with drive size | | | | | | | | | | | |
|--------------|--|------------|-----|------------|------------|------------|------------|------------|------------|------------|-------------------|--|
| | 112 | | 132 | | 160 | | 180 | | 200 | | | |
| | 20E | -22 20F | 20E | -32 20F | -22 25F | -32 25F | -22 25F | -32 31G | -22 31G | -32 40H | 200 -32 40H | |
| 09 | 131 | 140 | 137 | 145 | 181 | 188 | 223 | | | | | |
| 11 | 185 | | 191 | | 235 | 242 | 277 | 337 | 374 | | | |
| 14 | 291 | | 296 | | 341 | 348 | 383 | 441 | 481 | 648 | 708 | |
| | GST□□-3K VCR | | | | | | | | | | | |
| 09 | 123 | 131 | 128 | 137 | 173 | 180 | 215 | | | | | |
| 11 | 170 | | 176 | | 220 | 227 | 262 | 319 | 359 | | | |
| 14 | 263 | | 268 | | 313 | 320 | 355 | 413 | 453 | 620 | 680 | |

Additional weights

| Gearbox size | Flange VCK/VAL |
|--------------|-------------------|
| 04 | 1 |
| 05 | 1.5 |
| 06 | 3 |
| 07 | 4 |
| 09 | 7 |
| 11 | 10.5 |
| 14 | 15.5 |

Weights in [kg] with oil filling for mounting position A.
All values are approximate values



Technical data

Weights

Compact units with helical-bevel gearboxes

GKS □□-3K

| Gearbox size | Compact unit GKS□□-3K H□R with drive size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|------------|-----|------------|------------|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|-------------------|-------------------|-------------------|--|--|
| | 071 | | | 080 | | | | 090 | | | | 100 | | | | 112 | | | | 132 | | | 160 | | 180 | | 200 | | 225 | | | | | | |
| | -12 10B | -32 10B | 13C | -12 13C | -32 14D | 14D | -12 14D | -32 16D | 14D | 16D | -12 16D | -32 20E | 16D | 20E | -22 21E | -32 25F | 21E | 25F | -22 26F | -32 31G | 26F | 31G | -22 26F | -32 31G | 26F | 31G | -22 31G | -32 40H | 31G | 40H | 200 -32 40H | 225 -12 40H | 225 -22 40H | | |
| 04 | 22 | 23 | 28 | 28 | 29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | | | 37 | 38 | 40 | 39 | 41 | 46 | | 49 | | 56 | | 60 | | | | | | | | | | | | | | | | | | | | | |
| 06 | | | 51 | 52 | | 53 | | 61 | 63 | 63 | 66 | 70 | | 74 | | 108 | | 113 | | 144 | | 151 | | 186 | | | | | | | | | | | |
| 07 | | | | | 80 | | 81 | 86 | | 89 | | 96 | 105 | 100 | 108 | 133 | | 139 | | 169 | | 176 | | 211 | 268 | 308 | | | | | | | | | |
| 09 | | | | | | | | | | | | | 153 | | 156 | 181 | 188 | 186 | 194 | 217 | | 224 | | 259 | 317 | 357 | 524 | 584 | 664 | 679 | | | | | |
| 11 | | | | | | | | | | | | | | | | 287 | | 293 | 316 | 348 | 323 | 355 | 358 | 415 | 455 | 622 | 682 | 762 | 777 | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | 516 | | 523 | | 583 | 623 | 790 | 850 | 930 | 945 | | | | | |

Compact units with helical-bevel gearboxes

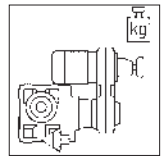
GKS □□-4K

| Gearbox size | Compact unit GKS□□-3K H□R with drive size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|------------|-----|------------|------------|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|------------|------------|-----|-----|-------------------|-------------------|-------------------|--|--|--|
| | 071 | | | 080 | | | | 090 | | | | 100 | | | | 112 | | | | 132 | | | 160 | | 180 | | 200 | | 225 | | | | | | | |
| | -12 10B | -32 10B | 13C | -12 13C | -32 14D | 14D | -12 14D | -32 16D | 14D | 16D | -12 16D | -32 20E | 16D | 20E | -22 21E | -32 25F | 21E | 25F | -22 26F | -32 31G | 26F | 31G | -22 26F | -32 31G | 26F | 31G | -22 31G | -32 40H | 31G | 40H | 200 -32 40H | 225 -12 40H | 225 -22 40H | | | |
| 05 | 33 | 33 | | 39 | | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | | | 55 | 56 | | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | | | 85 | | 88 | | 89 | 94 | 97 | 97 | 99 | 104 | | 108 | | | | | | | | | | | | | | | | | | | | | | |
| 09 | | | | | | | | | | 151 | | 153 | 158 | 166 | 161 | 170 | 195 | | 200 | | 231 | 238 | 273 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | 274 | | 278 | 274 | 310 | 308 | 315 | 338 | 345 | 380 | 437 | 477 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | 494 | | 500 | 523 | 530 | 565 | 623 | 663 | 830 | 890 | 970 | 985 | | | | | | | | |

Additional weights

| Gearbox size | Solid shaft | 2nd output shaft end | Hollow shaft with shrink disc | Flange | Torque plate | Torque plate |
|--------------|-------------|----------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □□K | Housing foot | Pitch circle |
| 04 | 0.6 | 0.2 | 0.3 | 2.5 | 1.3 | 0.9 |
| 05 | 1 | 0.3 | 0.6 | 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 filling for mounting position
A. All values are approximate values.



Compact units with helical-worm gearboxes

GSS □□-2K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | GSS□□-2K H□R with drive size | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 071 | | | 080 | | | | 090 | | | | 100 | | | | 112 | | | 132 | | 160 | | 180 | | | |
| | -12 | -32 | | -12 | -32 | | -12 | -32 | | -12 | -32 | | -12 | -32 | | -22 | -32 | | -22 | -32 | | -22 | -32 | -22 | -32 | -22 |
| | 10B | 10B | 13C | 13C | 14D | 13C | 14D | 14D | 16D | 14D | 16D | 16D | 20E | 16D | 20E | 21E | 25F | 21E | 25F | 26F | 26F | 26F | 26F | 26F | 31G | 31G |
| 04 | 22 | 23 | 28 | 28 | | 29 | | | | | | | | | | | | | | | | | | | | |
| 05 | | | 37 | 38 | 40 | 39 | 41 | 46 | | 48 | | 56 | | 59 | | | | | | | | | | | | |
| 06 | | | 49 | 50 | | 51 | | 58 | 61 | 61 | 64 | 68 | | 72 | | 105 | 113 | 111 | 118 | 141 | 148 | 183 | | | | |
| 07 | | | | | 77 | | 78 | 83 | | 86 | | 93 | 102 | 96 | 105 | 130 | 137 | 136 | 143 | 166 | 173 | 208 | 265 | 305 | | |

3

Compact units with helical-worm gearboxes

GSS □□-3K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | | | | | |
|--------------|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | GSS□□-3K H□R with drive size | | | | | | | | | | | | | | | | | | | |
| | 071 | | | 080 | | | | 090 | | | 100 | | | | | | | | | |
| | -12 | | -32 | | -12 | | -32 | | -12 | | -32 | | -12 | -32 | | -12 | -32 | | -12 | -32 |
| | 10B | 10B | 13C | 13C | 14D | 13C | 14D | 14D | 14D | 14D | 14D | 14D | 14D | 14D | 14D | 16D | 16D | 16D | 16D | 16D |
| 05 | 32 | | 33 | | | 39 | | | | 40 | | | | | | | | | | |
| 06 | | | | 53 | | 54 | | | | 55 | | | | | | | | | | |
| 07 | | | | 82 | | | 85 | | | | | 86 | | 91 | | 93 | | | 98 | 102 |

Additional weights

| Gearbox size | Solid shaft | 2nd output shaft end | Hollow shaft with shrink disk | Flange | Torque plate | Torque plate |
|--------------|-------------|----------------------|-------------------------------|--------|--------------|--------------|
| | V□□ | V□□ | S□□ | □□K | Housing foot | Pitch circle |
| 04 | 0.6 | 0.2 | 0.3 | 2.5 | 1.3 | 0.9 |
| 05 | 1 | 0.3 | 0.6 | 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 filling for mounting position A.
All values are approximate values.



Disco variable speed drives

With helical gearboxes

| | |
|----------------------------------|------|
| Selection tables | 4-2 |
| Dimensions | |
| GST □□ - 1 | 4-18 |
| GST □□ - 2 | 4-21 |
| GST □□ - 3 | 4-24 |
| Additional dimensions GST | |
| Output design VAR | 4-27 |
| Output design VAL | 4-27 |

With helical-bevel gearboxes

| | |
|---|------|
| Selection tables | 4-28 |
| Dimensions | |
| GKS □□ - 3 | 4-40 |
| GKS □□ - 4 | 4-44 |
| Additional dimensions GKS | |
| Torque plate at housing foot | 4-48 |
| Torque plate at pitch circle | 4-49 |
| Hollow shaft with shrink disc | 4-50 |
| Hollow shaft protection – jet-proof | 4-51 |
| with 2nd output shaft end | 4-52 |
| Mounting kit – hollow shaft retention | 4-53 |
| Design proposal for auxiliary tools | 4-53 |

With helical-worm gearboxes

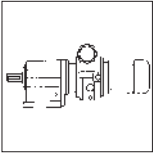
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| Mounting kit – hollow shaft retention | 4-69 |
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Without gearboxes

| | |
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| with motor | 4-72 |
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Disco variable speed drives

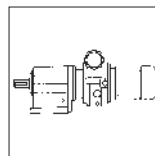
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|-----------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.25 kW | | | | GST □□ - 1D | 4-18 | |
| | 581 - 97 | 3.2 - 6.3 | 1.600 | GST04 - 1D □□□ 071-12 02C | | |
| | 454 - 76 | 4 - 8.1 | 2.048 | GST04 - 1D □□□ 071-12 02C | | |
| | 415 - 69 | 4.4 - 8.8 | 2.240 | GST04 - 1D □□□ 071-12 02C | | |
| | 326 - 54 | 5.6 - 11 | 2.857 | GST04 - 1D □□□ 071-12 02C | | |
| | 266 - 44 | 6.9 - 14 | 3.500 | GST04 - 1D □□□ 071-12 02C | | |
| | 211 - 35 | 8.7 - 17 | 4.400 | GST04 - 1D □□□ 071-12 02C | | |
| | 164 - 27 | 11 - 22 | 5.667 | GST04 - 1D □□□ 071-12 02C | | |
| | 127 - 21 | 14 - 29 | 7.333 | GST05 - 1D □□□ 071-12 02C | | |
| | 104 - 17 | 18 - 35 | 8.900 | GST05 - 1D □□□ 071-12 02C | | |
| | | | | GST □□ - 2D | | 4-21 |
| | 315 - 52 | 5.7 - 11 | 2.956 | GST04 - 2D □□□ 071-12 02C | | |
| | 229 - 38 | 7.9 - 16 | 4.053 | GST04 - 2D □□□ 071-12 02C | | |
| | 179 - 30 | 10 - 20 | 5.187 | GST04 - 2D □□□ 071-12 02C | | |
| | 145 - 24 | 12 - 25 | 6.400 | GST04 - 2D □□□ 071-12 02C | | |
| | 116 - 19 | 16 - 31 | 8.000 | GST04 - 2D □□□ 071-12 02C | | |
| | 94 - 16 | 19 - 38 | 9.856 | GST04 - 2D □□□ 071-12 02C | | |
| | 74 - 12 | 24 - 49 | 12.571 | GST04 - 2D □□□ 071-12 02C | | |
| | 60 - 10 | 30 - 60 | 15.400 | GST04 - 2D □□□ 071-12 02C | | |
| | 48 - 8 | 38 - 70 | 19.360 | GST04 - 2D □□□ 071-12 02C | | |
| | 37 - 6.2 | 48 - 71 | 24.933 | GST04 - 2D □□□ 071-12 02C | | |
| | 29 - 4.8 | 63 - 125 | 32.267 | GST05 - 2D □□□ 071-12 02C | | |
| | 24 - 4 | 76 - 152 | 39.160 | GST05 - 2D □□□ 071-12 02C | | |
| | 21 - 3.5 | 86 - 149 | 44.500 | GST05 - 2D □□□ 071-12 02C | | |
| | 19 - 3.1 | 96 - 192 | 49.500 | GST06 - 2D □□□ 071-12 02C | | |
| | 17 - 2.8 | 109 - 218 | 56.250 | GST06 - 2D □□□ 071-12 02C | | |
| | | | | GST □□ - 3D | 4-24 | |
| | 16 - 2.7 | 108 - 155 | 56.667 | GST05 - 3D □□□ 071-12 02C | | |
| | 17 - 2.9 | 103 - 206 | 53.900 | GST06 - 3D □□□ 071-12 02C | | |
| | 15 - 2.4 | 121 - 146 | 63.467 | GST05 - 3D □□□ 071-12 02C | | |
| | 14 - 2.3 | 130 - 259 | 67.760 | GST06 - 3D □□□ 071-12 02C | | |
| | 13 - 2.2 | 136 - 167 | 71.238 | GST05 - 3D □□□ 071-12 02C | | |
| | 13 - 2.2 | 134 - 268 | 70.156 | GST06 - 3D □□□ 071-12 02C | | |
| | 11 - 1.9 | 147 - 147 | 80.952 | GST05 - 3D □□□ 071-12 02C | | |
| | 11 - 1.9 | 155 - 309 | 80.952 | GST06 - 3D □□□ 071-12 02C | | |
| | 10 - 1.7 | 170 - 170 | 91.746 | GST05 - 3D □□□ 071-12 02C | | |
| | 11 - 1.8 | 167 - 334 | 87.267 | GST06 - 3D □□□ 071-12 02C | | |
| | 9.4 - 1.6 | 148 - 148 | 99.167 | GST05 - 3D □□□ 071-12 02C | | |
| | 9.4 - 1.6 | 190 - 335 | 99.167 | GST06 - 3D □□□ 071-12 02C | | |
| | 8.5 - 1.4 | 210 - 375 | 109.707 | GST06 - 3D □□□ 071-12 02C | | |
| | 7.5 - 1.2 | 149 - 149 | 124.667 | GST05 - 3D □□□ 071-12 02C | | |
| | 7.5 - 1.2 | 238 - 339 | 124.667 | GST06 - 3D □□□ 071-12 02C | | |
| 6.6 - 1.1 | 270 - 375 | 141.289 | GST06 - 3D □□□ 071-12 02C | | | |
| 5.8 - 1 | 307 - 342 | 160.556 | GST06 - 3D □□□ 071-12 02C | | | |
| 5.2 - 0.9 | 344 - 689 | 180.156 | GST07 - 3D □□□ 071-12 02C | | | |
| 4.5 - 0.8 | 391 - 710 | 204.722 | GST07 - 3D □□□ 071-12 02C | | | |

Thermal limit not considered (see note on page 3-12)

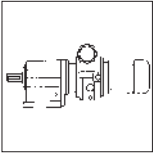
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|-----------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.25 kW | | | | GST □□ - 3D | 4-24 | |
| | 3.9 - 0.7 | 452 - 706 | 236.622 | GST07 - 3D □□□ 071-12 02C | | |
| | 3.7 - 0.6 | 475 - 710 | 248.458 | GST07 - 3D □□□ 071-12 02C | | |
| | 3.5 - 0.6 | 514 - 710 | 268.889 | GST07 - 3D □□□ 071-12 02C | | |
| | 2.9 - 0.5 | 624 - 710 | 326.333 | GST07 - 3D □□□ 071-12 02C | | |
| | 2.6 - 0.4 | 694 - 1388 | 363.000 | GST09 - 3D □□□ 071-12 02C | | |
| 2.3 - 0.4 | 788 - 1577 | 412.500 | GST09 - 3D □□□ 071-12 02C | | | |
| 0.37 kW | | | | GST □□ - 1D | 4-18 | |
| | 1163 - 194 | 2.5 - 5 | 1.600 | GST04 - 1D □□□ 071-11 02C | | |
| | 908 - 151 | 3.2 - 6.5 | 2.048 | GST04 - 1D □□□ 071-11 02C | | |
| | 830 - 138 | 3.5 - 7.1 | 2.240 | GST04 - 1D □□□ 071-11 02C | | |
| | 651 - 109 | 4.5 - 9 | 2.857 | GST04 - 1D □□□ 071-11 02C | | |
| | 531 - 89 | 5.5 - 11 | 3.500 | GST04 - 1D □□□ 071-11 02C | | |
| | 423 - 70 | 6.9 - 14 | 4.400 | GST04 - 1D □□□ 071-11 02C | | |
| | 328 - 55 | 8.9 - 18 | 5.667 | GST04 - 1D □□□ 071-11 02C | | |
| | 254 - 42 | 12 - 23 | 7.333 | GST05 - 1D □□□ 071-11 02C | | |
| | 209 - 35 | 14 - 28 | 8.900 | GST05 - 1D □□□ 071-11 02C | | |
| | | | | GST □□ - 2D | | 4-21 |
| | 629 - 105 | 4.6 - 9.2 | 2.956 | GST04 - 2D □□□ 071-11 02C | | |
| | 459 - 76 | 6.3 - 13 | 4.053 | GST04 - 2D □□□ 071-11 02C | | |
| | 359 - 60 | 8.1 - 16 | 5.187 | GST04 - 2D □□□ 071-11 02C | | |
| | 291 - 48 | 9.9 - 20 | 6.400 | GST04 - 2D □□□ 071-11 02C | | |
| | 233 - 39 | 12 - 25 | 8.000 | GST04 - 2D □□□ 071-11 02C | | |
| | 189 - 31 | 15 - 31 | 9.856 | GST04 - 2D □□□ 071-11 02C | | |
| | 148 - 25 | 20 - 39 | 12.571 | GST04 - 2D □□□ 071-11 02C | | |
| | 121 - 20 | 24 - 48 | 15.400 | GST04 - 2D □□□ 071-11 02C | | |
| | 96 - 16 | 30 - 60 | 19.360 | GST04 - 2D □□□ 071-11 02C | | |
| | 75 - 12 | 39 - 71 | 24.933 | GST04 - 2D □□□ 071-11 02C | | |
| | 58 - 9.6 | 50 - 100 | 32.267 | GST05 - 2D □□□ 071-11 02C | | |
| | 48 - 7.9 | 61 - 122 | 39.160 | GST05 - 2D □□□ 071-11 02C | | |
| | 42 - 7 | 69 - 138 | 44.500 | GST05 - 2D □□□ 071-11 02C | | |
| | 38 - 6.3 | 77 - 154 | 49.500 | GST06 - 2D □□□ 071-11 02C | | |
| | 33 - 5.5 | 87 - 175 | 56.250 | GST06 - 2D □□□ 071-11 02C | | |
| | | | | GST □□ - 3D | 4-24 | |
| | 33 - 5.5 | 87 - 155 | 56.667 | GST05 - 3D □□□ 071-11 02C | | |
| | 35 - 5.8 | 82 - 165 | 53.900 | GST06 - 3D □□□ 071-11 02C | | |
| | 29 - 4.9 | 97 - 146 | 63.467 | GST05 - 3D □□□ 071-11 02C | | |
| | 27 - 4.6 | 104 - 207 | 67.760 | GST06 - 3D □□□ 071-11 02C | | |
| | 26 - 4.4 | 109 - 167 | 71.238 | GST05 - 3D □□□ 071-11 02C | | |
| | 27 - 4.4 | 107 - 215 | 70.156 | GST06 - 3D □□□ 071-11 02C | | |
| | 23 - 3.8 | 124 - 147 | 80.952 | GST05 - 3D □□□ 071-11 02C | | |
| | 23 - 3.8 | 124 - 248 | 80.952 | GST06 - 3D □□□ 071-11 02C | | |
| | 20 - 3.4 | 140 - 170 | 91.746 | GST05 - 3D □□□ 071-11 02C | | |
| 21 - 3.6 | 133 - 267 | 87.267 | GST06 - 3D □□□ 071-11 02C | | | |
| 19 - 3.1 | 138 - 148 | 99.167 | GST05 - 3D □□□ 071-11 02C | | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

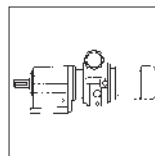
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.37 kW | 19 - 3.1 | 152 - 303 | 99.167 | GST □□ - 3D | 4-24 |
| | 17 - 2.8 | 168 - 336 | 109.707 | GST06 - 3D □□□ 071-11 02C | |
| | 15 - 2.5 | 139 - 149 | 124.667 | GST05 - 3D □□□ 071-11 02C | |
| | 15 - 2.5 | 191 - 339 | 124.667 | GST06 - 3D □□□ 071-11 02C | |
| | 13 - 2.2 | 216 - 375 | 141.289 | GST06 - 3D □□□ 071-11 02C | |
| | 12 - 1.9 | 246 - 342 | 160.556 | GST06 - 3D □□□ 071-11 02C | |
| | | | | | |
| 0.55 kW | 1200 - 209 | 3.5 - 6.9 | 1.600 | GST □□ - 1D | 4-18 |
| | 938 - 164 | 4.4 - 8.9 | 2.048 | GST04 - 1D □□□ 071-31 03C | |
| | 938 - 164 | 4.4 - 8.9 | 2.048 | GST04 - 1D □□□ 071-31 03C | |
| | | | | GST05 - 1D □□□ 071-31 03C | |
| | 857 - 150 | 4.9 - 9.7 | 2.240 | GST04 - 1D □□□ 071-31 03C | |
| | 857 - 150 | 4.9 - 9.7 | 2.240 | GST05 - 1D □□□ 071-31 03C | |
| | 672 - 117 | 6.2 - 12 | 2.857 | GST04 - 1D □□□ 071-31 03C | |
| | 672 - 117 | 6.2 - 12 | 2.857 | GST05 - 1D □□□ 071-31 03C | |
| | 549 - 96 | 7.6 - 15 | 3.500 | GST04 - 1D □□□ 071-31 03C | |
| | 549 - 96 | 7.6 - 15 | 3.500 | GST05 - 1D □□□ 071-31 03C | |
| | 436 - 76 | 9.5 - 19 | 4.400 | GST04 - 1D □□□ 071-31 03C | |
| | 421 - 74 | 9.9 - 20 | 4.556 | GST05 - 1D □□□ 071-31 03C | |
| | 339 - 59 | 12 - 25 | 5.667 | GST04 - 1D □□□ 071-31 03C | |
| | 339 - 59 | 12 - 25 | 5.667 | GST05 - 1D □□□ 071-31 03C | |
| | 262 - 46 | 16 - 32 | 7.333 | GST05 - 1D □□□ 071-31 03C | |
| | 216 - 38 | 19 - 39 | 8.900 | GST05 - 1D □□□ 071-31 03C | |
| | | | | GST □□ - 2D | 4-21 |
| | 650 - 113 | 6.3 - 13 | 2.956 | GST04 - 2D □□□ 071-31 03C | |
| | 474 - 83 | 8.7 - 17 | 4.053 | GST04 - 2D □□□ 071-31 03C | |
| | 370 - 65 | 11 - 22 | 5.187 | GST04 - 2D □□□ 071-31 03C | |
| | 370 - 65 | 11 - 22 | 5.187 | GST05 - 2D □□□ 071-31 03C | |
| | 300 - 52 | 14 - 27 | 6.400 | GST04 - 2D □□□ 071-31 03C | |
| | 300 - 52 | 14 - 27 | 6.400 | GST05 - 2D □□□ 071-31 03C | |
| | 240 - 42 | 17 - 34 | 8.000 | GST04 - 2D □□□ 071-31 03C | |
| | 235 - 41 | 17 - 35 | 8.163 | GST05 - 2D □□□ 071-31 03C | |
| | 195 - 34 | 21 - 42 | 9.856 | GST04 - 2D □□□ 071-31 03C | |
| | 192 - 34 | 21 - 43 | 10.000 | GST05 - 2D □□□ 071-31 03C | |
| | 153 - 27 | 27 - 54 | 12.571 | GST04 - 2D □□□ 071-31 03C | |
| | 148 - 26 | 28 - 56 | 13.016 | GST05 - 2D □□□ 071-31 03C | |
| | 125 - 22 | 33 - 66 | 15.400 | GST04 - 2D □□□ 071-31 03C | |
| | 119 - 21 | 35 - 69 | 16.191 | GST05 - 2D □□□ 071-31 03C | |
| | 99 - 17 | 41 - 70 | 19.360 | GST04 - 2D □□□ 071-31 03C | |
| | 96 - 17 | 43 - 86 | 20.044 | GST05 - 2D □□□ 071-31 03C | |
| 77 - 13 | 53 - 71 | 24.933 | GST04 - 2D □□□ 071-31 03C | | |
| 77 - 13 | 53 - 106 | 24.933 | GST05 - 2D □□□ 071-31 03C | | |
| 60 - 10 | 69 - 138 | 32.267 | GST05 - 2D □□□ 071-31 03C | | |
| 49 - 8.6 | 84 - 165 | 39.160 | GST05 - 2D □□□ 071-31 03C | | |
| 39 - 6.8 | 106 - 211 | 49.500 | GST06 - 2D □□□ 071-31 03C | | |
| 34 - 6 | 120 - 240 | 56.250 | GST06 - 2D □□□ 071-31 03C | | |

Thermal limit not considered (see note on page 3-12)

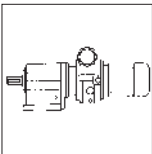
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.55 kW | | | | GST □□ - 3D | 4-24 |
| | 34 - 5.9 | 119 - 155 | 56.667 | GST05 - 3D □□□ 071-31 03C | |
| | 36 - 6.2 | 113 - 227 | 53.900 | GST06 - 3D □□□ 071-31 03C | |
| | 30 - 5.3 | 133 - 146 | 63.467 | GST05 - 3D □□□ 071-31 03C | |
| | 28 - 4.9 | 142 - 285 | 67.760 | GST06 - 3D □□□ 071-31 03C | |
| | 27 - 4.7 | 150 - 167 | 71.238 | GST05 - 3D □□□ 071-31 03C | |
| | 27 - 4.8 | 148 - 295 | 70.156 | GST06 - 3D □□□ 071-31 03C | |
| | 24 - 4.1 | 135 - 147 | 80.952 | GST05 - 3D □□□ 071-31 03C | |
| | 24 - 4.1 | 170 - 332 | 80.952 | GST06 - 3D □□□ 071-31 03C | |
| | 21 - 3.7 | 157 - 170 | 91.746 | GST05 - 3D □□□ 071-31 03C | |
| | 22 - 3.8 | 183 - 367 | 87.267 | GST06 - 3D □□□ 071-31 03C | |
| | 19 - 3.4 | 136 - 148 | 99.167 | GST05 - 3D □□□ 071-31 03C | |
| | 19 - 3.4 | 209 - 335 | 99.167 | GST06 - 3D □□□ 071-31 03C | |
| | 18 - 3.1 | 231 - 375 | 109.707 | GST06 - 3D □□□ 071-31 03C | |
| | 15 - 2.7 | 262 - 339 | 124.667 | GST06 - 3D □□□ 071-31 03C | |
| | 15 - 2.6 | 267 - 535 | 127.176 | GST07 - 3D □□□ 071-31 03C | |
| | 14 - 2.4 | 297 - 375 | 141.289 | GST06 - 3D □□□ 071-31 03C | |
| | 14 - 2.4 | 293 - 585 | 139.211 | GST07 - 3D □□□ 071-31 03C | |
| | 12 - 2.1 | 315 - 342 | 160.556 | GST06 - 3D □□□ 071-31 03C | |
| | 12 - 2.1 | 333 - 665 | 158.194 | GST07 - 3D □□□ 071-31 03C | |
| | 11 - 1.9 | 379 - 706 | 180.156 | GST07 - 3D □□□ 071-31 03C | |
| | 9.4 - 1.6 | 430 - 710 | 204.722 | GST07 - 3D □□□ 071-31 03C | |
| | 8.1 - 1.4 | 497 - 706 | 236.622 | GST07 - 3D □□□ 071-31 03C | |
| | 8.1 - 1.4 | 497 - 995 | 236.622 | GST09 - 3D □□□ 071-31 03C | |
| | 7.7 - 1.3 | 522 - 710 | 248.458 | GST07 - 3D □□□ 071-31 03C | |
| | 7.6 - 1.3 | 530 - 1060 | 252.167 | GST09 - 3D □□□ 071-31 03C | |
| | 7.1 - 1.2 | 565 - 710 | 268.889 | GST07 - 3D □□□ 071-31 03C | |
| | 7.1 - 1.2 | 565 - 1131 | 268.889 | GST09 - 3D □□□ 071-31 03C | |
| | 5.9 - 1 | 654 - 710 | 326.333 | GST07 - 3D □□□ 071-31 03C | |
| | 5.9 - 1 | 686 - 1372 | 326.333 | GST09 - 3D □□□ 071-31 03C | |
| 5.3 - 0.9 | 763 - 1526 | 363.000 | GST09 - 3D □□□ 071-31 03C | | |
| 4.7 - 0.8 | 867 - 1623 | 412.500 | GST09 - 3D □□□ 071-31 03C | | |
| 0.75 kW | | | | GST □□ - 1D | 4-18 |
| | 594 - 103 | 9.5 - 19 | 1.600 | GST04 - 1D □□□ 080-32 04D | |
| | 594 - 103 | 9.5 - 19 | 1.600 | GST05 - 1D □□□ 080-32 04D | |
| | 464 - 81 | 12 - 23 | 2.048 | GST04 - 1D □□□ 080-32 04D | |
| | 464 - 81 | 12 - 24 | 2.048 | GST05 - 1D □□□ 080-32 04D | |
| | 464 - 81 | 12 - 24 | 2.048 | GST06 - 1D □□□ 080-32 04D | |
| | 424 - 74 | 13 - 25 | 2.240 | GST04 - 1D □□□ 080-32 04D | |
| | 424 - 74 | 13 - 26 | 2.240 | GST05 - 1D □□□ 080-32 04D | |
| | 424 - 74 | 13 - 26 | 2.240 | GST06 - 1D □□□ 080-32 04D | |
| | 333 - 58 | 17 - 25 | 2.857 | GST04 - 1D □□□ 080-32 04D | |
| | 333 - 58 | 17 - 34 | 2.857 | GST05 - 1D □□□ 080-32 04D | |
| | 333 - 58 | 17 - 34 | 2.857 | GST06 - 1D □□□ 080-32 04D | |
| | 271 - 47 | 21 - 25 | 3.500 | GST04 - 1D □□□ 080-32 04D | |
| | 271 - 47 | 21 - 41 | 3.500 | GST05 - 1D □□□ 080-32 04D | |
| | 271 - 47 | 21 - 41 | 3.500 | GST06 - 1D □□□ 080-32 04D | |
| | 209 - 36 | 27 - 54 | 4.556 | GST05 - 1D □□□ 080-32 04D | |
| | 209 - 36 | 27 - 54 | 4.556 | GST06 - 1D □□□ 080-32 04D | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

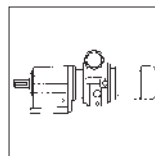
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|--------|--|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.75 kW | 168 - 29 | 33 - 54 | 5.667 | GST □□ - 1D | 4-18 |
| | 168 - 29 | 33 - 67 | 5.667 | GST05 - 1D □□□ 080-32 04D GST06 - 1D □□□ 080-32 04D | |
| | 130 - 23 | 43 - 87 | 7.333 | GST06 - 1D □□□ 080-32 04D | |
| | 107 - 19 | 53 - 85 | 8.900 | GST06 - 1D □□□ 080-32 04D | |
| | | | | GST □□ - 2D | 4-21 |
| | 321 - 56 | 17 - 34 | 2.956 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 321 - 56 | 17 - 34 | 2.956 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 234 - 41 | 24 - 45 | 4.053 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 234 - 41 | 24 - 47 | 4.053 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 183 - 32 | 30 - 50 | 5.187 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 183 - 32 | 30 - 60 | 5.187 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 148 - 26 | 37 - 55 | 6.400 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 148 - 26 | 37 - 75 | 6.400 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 119 - 21 | 47 - 59 | 8.000 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 116 - 20 | 48 - 95 | 8.163 | GST05 - 2D □□□ 080-32 04D GST06 - 2D □□□ 080-32 04D | |
| | 116 - 20 | 48 - 95 | 8.163 | GST06 - 2D □□□ 080-32 04D | |
| | 96 - 17 | 57 - 65 | 9.856 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 95 - 17 | 58 - 116 | 10.000 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 76 - 13 | 69 - 69 | 12.571 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 73 - 13 | 76 - 137 | 13.016 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 62 - 11 | 70 - 70 | 15.400 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 59 - 10 | 94 - 148 | 16.191 | GST04 - 2D □□□ 080-32 04D GST05 - 2D □□□ 080-32 04D | |
| | 47 - 8.2 | 117 - 159 | 20.044 | GST05 - 2D □□□ 080-32 04D GST06 - 2D □□□ 080-32 04D | |
| | 47 - 8.2 | 117 - 233 | 20.044 | GST05 - 2D □□□ 080-32 04D GST06 - 2D □□□ 080-32 04D | |
| | 38 - 6.6 | 145 - 162 | 24.933 | GST05 - 2D □□□ 080-32 04D GST06 - 2D □□□ 080-32 04D | |
| | 38 - 6.6 | 145 - 290 | 24.933 | GST05 - 2D □□□ 080-32 04D GST06 - 2D □□□ 080-32 04D | |
| | 29 - 5.1 | 188 - 363 | 32.267 | GST06 - 2D □□□ 080-32 04D | |
| | 24 - 4.2 | 228 - 368 | 39.160 | GST06 - 2D □□□ 080-32 04D | |
| | 24 - 4.2 | 228 - 456 | 39.160 | GST07 - 2D □□□ 080-32 04D | |
| | 21 - 3.7 | 259 - 325 | 44.500 | GST06 - 2D □□□ 080-32 04D GST07 - 2D □□□ 080-32 04D | |
| | 21 - 3.7 | 259 - 518 | 44.500 | GST06 - 2D □□□ 080-32 04D GST07 - 2D □□□ 080-32 04D | |
| | 19 - 3.3 | 288 - 492 | 49.500 | GST07 - 2D □□□ 080-32 04D GST09 - 2D □□□ 080-32 04D | |
| | 19 - 3.3 | 288 - 576 | 49.500 | GST07 - 2D □□□ 080-32 04D GST09 - 2D □□□ 080-32 04D | |
| | 17 - 2.9 | 327 - 559 | 56.250 | GST07 - 2D □□□ 080-32 04D GST09 - 2D □□□ 080-32 04D | |
| | 17 - 2.9 | 327 - 655 | 56.250 | GST07 - 2D □□□ 080-32 04D GST09 - 2D □□□ 080-32 04D | |
| | | | | GST □□ - 3D | 4-24 |
| | 18 - 3.1 | 309 - 349 | 53.900 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 18 - 3.1 | 309 - 618 | 53.900 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 15 - 2.5 | 373 - 707 | 65.079 | GST07 - 3D □□□ 080-32 04D | |
| | 14 - 2.4 | 359 - 359 | 70.156 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 14 - 2.4 | 402 - 706 | 70.156 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 12 - 2 | 332 - 332 | 80.952 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 12 - 2.1 | 457 - 710 | 79.762 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 11 - 1.9 | 370 - 370 | 87.267 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 11 - 1.9 | 493 - 706 | 85.983 | GST06 - 3D □□□ 080-32 04D GST07 - 3D □□□ 080-32 04D | |
| | 9.7 - 1.7 | 560 - 710 | 97.708 | GST07 - 3D □□□ 080-32 04D | |

Thermal limit not considered (see note on page 3-12)

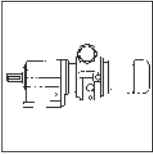
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|----------|---|-----------|---|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.75 kW | 9.6 - 1.7 | 569 - 1137 | 99.167 | GST □□ - 3D GST09 - 3D □□□ 080-32 04D | 4-24 | |
| | 8.5 - 1.5 | 642 - 706 | 111.915 | GST07 - 3D □□□ 080-32 04D | | |
| | 8.4 - 1.5 | 651 - 1303 | 113.585 | GST09 - 3D □□□ 080-32 04D | | |
| | 7.5 - 1.3 | 710 - 710 | 127.176 | GST07 - 3D □□□ 080-32 04D | | |
| | 7.4 - 1.3 | 740 - 1480 | 129.074 | GST09 - 3D □□□ 080-32 04D | | |
| | 6.8 - 1.2 | 706 - 706 | 139.211 | GST07 - 3D □□□ 080-32 04D | | |
| | 6.7 - 1.2 | 810 - 1613 | 141.289 | GST09 - 3D □□□ 080-32 04D | | |
| | 6 - 1 | 710 - 710 | 158.194 | GST07 - 3D □□□ 080-32 04D | | |
| | 5.9 - 1 | 921 - 1623 | 160.556 | GST09 - 3D □□□ 080-32 04D | | |
| | 5.2 - 0.9 | 1048 - 1613 | 182.845 | GST09 - 3D □□□ 080-32 04D | | |
| | 5.3 - 0.9 | 1033 - 2066 | 180.156 | GST11 - 3D □□□ 080-32 04D | | |
| | 4.6 - 0.8 | 1191 - 1623 | 207.778 | GST09 - 3D □□□ 080-32 04D | | |
| | 4.6 - 0.8 | 1191 - 2383 | 207.778 | GST11 - 3D □□□ 080-32 04D | | |
| | 4 - 0.7 | 1357 - 1613 | 236.622 | GST09 - 3D □□□ 080-32 04D | | |
| | 4 - 0.7 | 1357 - 2695 | 236.622 | GST11 - 3D □□□ 080-32 04D | | |
| | 3.8 - 0.7 | 1446 - 1623 | 252.167 | GST09 - 3D □□□ 080-32 04D | | |
| | 3.8 - 0.7 | 1446 - 2810 | 252.167 | GST11 - 3D □□□ 080-32 04D | | |
| | 3.5 - 0.6 | 1542 - 1623 | 268.889 | GST09 - 3D □□□ 080-32 04D | | |
| | 3.5 - 0.6 | 1542 - 2848 | 268.889 | GST11 - 3D □□□ 080-32 04D | | |
| | 2.9 - 0.5 | 1623 - 1623 | 326.333 | GST09 - 3D □□□ 080-32 04D | | |
| | 2.9 - 0.5 | 1871 - 2848 | 326.333 | GST11 - 3D □□□ 080-32 04D | | |
| | 2.6 - 0.5 | 2081 - 2695 | 363.000 | GST11 - 3D □□□ 080-32 04D | | |
| | 2.6 - 0.5 | 2081 - 4163 | 363.000 | GST14 - 3D □□□ 080-32 04D | | |
| | 2.3 - 0.4 | 2365 - 2848 | 412.500 | GST11 - 3D □□□ 080-32 04D | | |
| | 2.3 - 0.4 | 2365 - 4731 | 412.500 | GST14 - 3D □□□ 080-32 04D | | |
| | 1.1 kW | 1200 - 209 | 7.1 - 14 | 1.600 | | GST □□ - 1D GST04 - 1D □□□ 080-31 04D |
| 1200 - 209 | | 7.1 - 14 | 1.600 | GST05 - 1D □□□ 080-31 04D | | |
| 938 - 164 | | 9.1 - 18 | 2.048 | GST04 - 1D □□□ 080-31 04D | | |
| 938 - 164 | | 9.1 - 18 | 2.048 | GST05 - 1D □□□ 080-31 04D | | |
| 938 - 164 | | 9.1 - 18 | 2.048 | GST06 - 1D □□□ 080-31 04D | | |
| 857 - 150 | | 9.9 - 20 | 2.240 | GST04 - 1D □□□ 080-31 04D | | |
| 857 - 150 | | 9.9 - 20 | 2.240 | GST05 - 1D □□□ 080-31 04D | | |
| 857 - 150 | | 9.9 - 20 | 2.240 | GST06 - 1D □□□ 080-31 04D | | |
| 672 - 117 | | 13 - 25 | 2.857 | GST04 - 1D □□□ 080-31 04D | | |
| 672 - 117 | | 13 - 25 | 2.857 | GST05 - 1D □□□ 080-31 04D | | |
| 672 - 117 | | 13 - 25 | 2.857 | GST06 - 1D □□□ 080-31 04D | | |
| 549 - 96 | | 16 - 25 | 3.500 | GST04 - 1D □□□ 080-31 04D | | |
| 549 - 96 | | 16 - 31 | 3.500 | GST05 - 1D □□□ 080-31 04D | | |
| 549 - 96 | | 16 - 31 | 3.500 | GST06 - 1D □□□ 080-31 04D | | |
| 421 - 74 | | 20 - 40 | 4.556 | GST05 - 1D □□□ 080-31 04D | | |
| 421 - 74 | | 20 - 40 | 4.556 | GST06 - 1D □□□ 080-31 04D | | |
| 339 - 59 | | 25 - 50 | 5.667 | GST05 - 1D □□□ 080-31 04D | | |
| 339 - 59 | | 25 - 50 | 5.667 | GST06 - 1D □□□ 080-31 04D | | |
| 262 - 46 | | 33 - 65 | 7.333 | GST06 - 1D □□□ 080-31 04D | | |
| 216 - 38 | | 39 - 79 | 8.900 | GST06 - 1D □□□ 080-31 04D | | |
| 650 - 113 | | 13 - 26 | 2.956 | GST □□ - 2D GST04 - 2D □□□ 080-31 04D | 4-21 | |
| 650 - 113 | | 13 - 26 | 2.956 | GST05 - 2D □□□ 080-31 04D | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

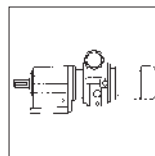
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------|--|--|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 1.1 kW | 474 - 83 | 18 - 35 | 4.053 | GST □□ - 2D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST04 - 2D □□□ 080-31 04D GST05 - 2D □□□ 080-31 04D GST06 - 2D □□□ 080-31 04D GST06 - 2D □□□ 080-31 04D GST07 - 2D □□□ 080-31 04D GST07 - 2D □□□ 080-31 04D | 4-21 | |
| | 474 - 83 | 18 - 35 | 4.053 | | | |
| | 370 - 65 | 23 - 45 | 5.187 | | | |
| | 370 - 65 | 23 - 45 | 5.187 | | | |
| | 300 - 52 | 28 - 55 | 6.400 | | | |
| | 300 - 52 | 28 - 56 | 6.400 | | | |
| | 240 - 42 | 35 - 59 | 8.000 | | | |
| | 235 - 41 | 36 - 71 | 8.163 | | | |
| | 195 - 34 | 43 - 65 | 9.856 | | | |
| | 192 - 34 | 44 - 87 | 10.000 | | | |
| | 153 - 27 | 55 - 69 | 12.571 | | | |
| | 148 - 26 | 57 - 114 | 13.016 | | | |
| | 125 - 22 | 64 - 70 | 15.400 | | | |
| | 119 - 21 | 71 - 141 | 16.191 | | | |
| | 96 - 17 | 88 - 159 | 20.044 | | | |
| | 96 - 17 | 88 - 175 | 20.044 | | | |
| | 77 - 13 | 109 - 162 | 24.933 | | | |
| | 77 - 13 | 109 - 218 | 24.933 | | | |
| | 60 - 10 | 141 - 282 | 32.267 | | | |
| | 49 - 8.6 | 171 - 342 | 39.160 | | | |
| | 39 - 6.8 | 216 - 432 | 49.500 | | | |
| | 34 - 6 | 246 - 491 | 56.250 | | | |
| | 36 - 6.2 | 232 - 349 | 53.900 | | GST □□ - 3D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST06 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST07 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST11 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST11 - 3D □□□ 080-31 04D GST09 - 3D □□□ 080-31 04D GST11 - 3D □□□ 080-31 04D | 4-24 |
| | 36 - 6.2 | 232 - 464 | 53.900 | | | |
| | 30 - 5.1 | 280 - 560 | 65.079 | | | |
| | 27 - 4.8 | 302 - 359 | 70.156 | | | |
| | 27 - 4.8 | 302 - 603 | 70.156 | | | |
| | 24 - 4.1 | 306 - 332 | 80.952 | | | |
| | 24 - 4.2 | 343 - 686 | 79.762 | | | |
| | 22 - 3.8 | 340 - 370 | 87.267 | | | |
| | 22 - 3.9 | 370 - 706 | 85.983 | | | |
| | 19 - 3.4 | 309 - 335 | 99.167 | | | |
| | 20 - 3.4 | 420 - 710 | 97.708 | | | |
| | 17 - 3 | 481 - 706 | 111.915 | | | |
| | 17 - 2.9 | 488 - 977 | 113.585 | | | |
| | 15 - 2.6 | 547 - 710 | 127.176 | | | |
| | 15 - 2.6 | 555 - 1110 | 129.074 | | | |
| | 14 - 2.4 | 599 - 706 | 139.211 | | | |
| | 14 - 2.4 | 608 - 1215 | 141.289 | | | |
| | 12 - 2.1 | 654 - 710 | 158.194 | | | |
| | 12 - 2.1 | 690 - 1381 | 160.556 | | | |
| | 11 - 1.8 | 786 - 1573 | 182.845 | | | |
| | 11 - 1.9 | 775 - 1550 | 180.156 | | | |
| | 9.2 - 1.6 | 894 - 1623 | 207.778 | | | |
| | 9.2 - 1.6 | 894 - 1787 | 207.778 | | | |
| | 8.1 - 1.4 | 1018 - 1613 | 236.622 | | | |
| | 8.1 - 1.4 | 1018 - 2035 | 236.622 | | | |

Thermal limit not considered (see note on page 3-12)

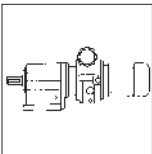
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | | |
|----------------|--|------------------------|---------|-----------------------------|-----------|---------------------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | | |
| 1.1 kW | | | | GST □□ - 3D | 4-24 | | |
| | 7.6 - 1.3 | 1084 - 1623 | 252.167 | GST09 - 3D □□□ 080-31 04D | | | |
| | 7.6 - 1.3 | 1084 - 2169 | 252.167 | GST11 - 3D □□□ 080-31 04D | | | |
| | 7.1 - 1.2 | 1156 - 1623 | 268.889 | GST09 - 3D □□□ 080-31 04D | | | |
| | 7.1 - 1.2 | 1156 - 2313 | 268.889 | GST11 - 3D □□□ 080-31 04D | | | |
| | 5.9 - 1 | 1403 - 1623 | 326.333 | GST09 - 3D □□□ 080-31 04D | | | |
| | 5.9 - 1 | 1403 - 2807 | 326.333 | GST11 - 3D □□□ 080-31 04D | | | |
| | 5.3 - 0.9 | 1561 - 2695 | 363.000 | GST11 - 3D □□□ 080-31 04D | | | |
| | 5.3 - 0.9 | 1561 - 3122 | 363.000 | GST14 - 3D □□□ 080-31 04D | | | |
| | 4.7 - 0.8 | 1774 - 2848 | 412.500 | GST11 - 3D □□□ 080-31 04D | | | |
| | 4.7 - 0.8 | 1774 - 3548 | 412.500 | GST14 - 3D □□□ 080-31 04D | | | |
| | 1.5 kW | | | | | GST □□ - 1D | 4-18 |
| | | 594 - 103 | 19 - 38 | 1.600 | | GST05 - 1D □□□ 090-32 05E | |
| | | 594 - 103 | 19 - 38 | 1.600 | | GST06 - 1D □□□ 090-32 05E | |
| 464 - 81 | | 24 - 48 | 2.048 | GST05 - 1D □□□ 090-32 05E | | | |
| 464 - 81 | | 24 - 48 | 2.048 | GST06 - 1D □□□ 090-32 05E | | | |
| 475 - 83 | | 24 - 47 | 2.000 | GST07 - 1D □□□ 090-32 05E | | | |
| 424 - 74 | | 26 - 53 | 2.240 | GST05 - 1D □□□ 090-32 05E | | | |
| 424 - 74 | | 26 - 53 | 2.240 | GST06 - 1D □□□ 090-32 05E | | | |
| 424 - 74 | | 26 - 53 | 2.240 | GST07 - 1D □□□ 090-32 05E | | | |
| 333 - 58 | | 34 - 53 | 2.857 | GST05 - 1D □□□ 090-32 05E | | | |
| 333 - 58 | | 34 - 68 | 2.857 | GST06 - 1D □□□ 090-32 05E | | | |
| 333 - 58 | | 34 - 68 | 2.857 | GST07 - 1D □□□ 090-32 05E | | | |
| 271 - 47 | | 41 - 54 | 3.500 | GST05 - 1D □□□ 090-32 05E | | | |
| 271 - 47 | | 41 - 83 | 3.500 | GST06 - 1D □□□ 090-32 05E | | | |
| 209 - 36 | | 54 - 105 | 4.556 | GST06 - 1D □□□ 090-32 05E | | | |
| 209 - 36 | | 54 - 108 | 4.556 | GST07 - 1D □□□ 090-32 05E | | | |
| 168 - 29 | | 67 - 105 | 5.667 | GST06 - 1D □□□ 090-32 05E | | | |
| 170 - 30 | | 66 - 132 | 5.583 | GST07 - 1D □□□ 090-32 05E | | | |
| 130 - 23 | | 87 - 173 | 7.333 | GST07 - 1D □□□ 090-32 05E | | | |
| 107 - 19 | | 105 - 183 | 8.900 | GST07 - 1D □□□ 090-32 05E | | | |
| | | | | GST □□ - 2D | 4-21 | | |
| 321 - 56 | | 34 - 63 | 2.956 | GST05 - 2D □□□ 090-32 05E | | | |
| 313 - 54 | | 35 - 71 | 3.033 | GST06 - 2D □□□ 090-32 05E | | | |
| 234 - 41 | | 47 - 81 | 4.053 | GST05 - 2D □□□ 090-32 05E | | | |
| 228 - 40 | | 48 - 97 | 4.160 | GST06 - 2D □□□ 090-32 05E | | | |
| 183 - 32 | | 60 - 90 | 5.187 | GST05 - 2D □□□ 090-32 05E | | | |
| 178 - 31 | | 62 - 124 | 5.324 | GST06 - 2D □□□ 090-32 05E | | | |
| 148 - 26 | | 75 - 105 | 6.400 | GST05 - 2D □□□ 090-32 05E | | | |
| 148 - 26 | | 75 - 149 | 6.400 | GST06 - 2D □□□ 090-32 05E | | | |
| 116 - 20 | | 95 - 115 | 8.163 | GST05 - 2D □□□ 090-32 05E | | | |
| 116 - 20 | | 95 - 190 | 8.163 | GST06 - 2D □□□ 090-32 05E | | | |
| 95 - 17 | | 116 - 124 | 10.000 | GST05 - 2D □□□ 090-32 05E | | | |
| 95 - 17 | | 116 - 233 | 10.000 | GST06 - 2D □□□ 090-32 05E | | | |
| 76 - 13 | | 146 - 293 | 12.571 | GST06 - 2D □□□ 090-32 05E | | | |
| 62 - 11 | | 179 - 318 | 15.400 | GST06 - 2D □□□ 090-32 05E | | | |
| 47 - 8.2 | | 233 - 350 | 20.044 | GST06 - 2D □□□ 090-32 05E | | | |
| 47 - 8.2 | | 233 - 467 | 20.044 | GST07 - 2D □□□ 090-32 05E | | | |
| 38 - 6.6 | | 290 - 360 | 24.933 | GST06 - 2D □□□ 090-32 05E | | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

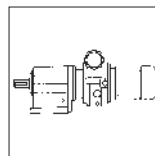
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|---|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 1.5 kW | 39 - 6.7 | 286 - 572 | 24.567 | GST □□ - 2D GST07 - 2D □□□ 090-32 05E | 4-21 | |
| | 29 - 5.1 | 376 - 706 | 32.267 | GST07 - 2D □□□ 090-32 05E | | |
| | 24 - 4.2 | 456 - 706 | 39.160 | GST07 - 2D □□□ 090-32 05E | | |
| | 24 - 4.2 | 456 - 912 | 39.160 | GST09 - 2D □□□ 090-32 05E | | |
| | 21 - 3.7 | 518 - 707 | 44.500 | GST07 - 2D □□□ 090-32 05E | | |
| | 21 - 3.7 | 518 - 1036 | 44.500 | GST09 - 2D □□□ 090-32 05E | | |
| | 19 - 3.3 | 576 - 1002 | 49.500 | GST09 - 2D □□□ 090-32 05E | | |
| | 19 - 3.3 | 576 - 1153 | 49.500 | GST11 - 2D □□□ 090-32 05E | | |
| | 17 - 2.9 | 655 - 1138 | 56.250 | GST09 - 2D □□□ 090-32 05E | | |
| | 17 - 2.9 | 655 - 1310 | 56.250 | GST11 - 2D □□□ 090-32 05E | | |
| | 18 - 3.1 | 618 - 706 | 53.900 | GST □□ - 3D GST07 - 3D □□□ 090-32 05E | | 4-24 |
| | 18 - 3.1 | 608 - 1217 | 53.044 | GST09 - 3D □□□ 090-32 05E | | |
| | 16 - 2.8 | 665 - 1330 | 57.968 | GST11 - 3D □□□ 090-32 05E | | |
| | 16 - 2.7 | 691 - 1383 | 60.278 | GST09 - 3D □□□ 090-32 05E | | |
| | 16 - 2.7 | 702 - 1405 | 61.250 | GST11 - 3D □□□ 090-32 05E | | |
| | 14 - 2.4 | 706 - 706 | 70.156 | GST07 - 3D □□□ 090-32 05E | | |
| | 13 - 2.3 | 824 - 1477 | 71.867 | GST09 - 3D □□□ 090-32 05E | | |
| | 13 - 2.3 | 814 - 1629 | 71.011 | GST11 - 3D □□□ 090-32 05E | | |
| | 12 - 2.1 | 710 - 710 | 79.762 | GST07 - 3D □□□ 090-32 05E | | |
| | 12 - 2 | 937 - 1584 | 81.667 | GST09 - 3D □□□ 090-32 05E | | |
| | 12 - 2 | 925 - 1851 | 80.694 | GST11 - 3D □□□ 090-32 05E | | |
| | 11 - 1.9 | 706 - 706 | 85.983 | GST07 - 3D □□□ 090-32 05E | | |
| | 10 - 1.8 | 1073 - 1613 | 93.541 | GST09 - 3D □□□ 090-32 05E | | |
| | 11 - 1.9 | 1001 - 2002 | 87.267 | GST11 - 3D □□□ 090-32 05E | | |
| | 9.7 - 1.7 | 710 - 710 | 97.708 | GST07 - 3D □□□ 090-32 05E | | |
| | 9.6 - 1.7 | 1137 - 1596 | 99.167 | GST09 - 3D □□□ 090-32 05E | | |
| | 9.6 - 1.7 | 1137 - 2275 | 99.167 | GST11 - 3D □□□ 090-32 05E | | |
| | 8.4 - 1.5 | 1303 - 1613 | 113.585 | GST09 - 3D □□□ 090-32 05E | | |
| | 8.4 - 1.5 | 1295 - 2590 | 112.933 | GST11 - 3D □□□ 090-32 05E | | |
| | 7.4 - 1.3 | 1480 - 1612 | 129.074 | GST09 - 3D □□□ 090-32 05E | | |
| | 7.4 - 1.3 | 1480 - 2810 | 129.074 | GST11 - 3D □□□ 090-32 05E | | |
| | 6.7 - 1.2 | 1613 - 1613 | 141.289 | GST09 - 3D □□□ 090-32 05E | | |
| | 6.5 - 1.1 | 1686 - 2695 | 146.993 | GST11 - 3D □□□ 090-32 05E | | |
| | 6.8 - 1.2 | 1596 - 3193 | 139.211 | GST14 - 3D □□□ 090-32 05E | | |
| | 5.9 - 1 | 1623 - 1623 | 160.556 | GST09 - 3D □□□ 090-32 05E | | |
| | 6 - 1 | 1814 - 2810 | 158.194 | GST11 - 3D □□□ 090-32 05E | | |
| | 6 - 1 | 1814 - 3628 | 158.194 | GST14 - 3D □□□ 090-32 05E | | |
| | 5.3 - 0.9 | 2066 - 2695 | 180.156 | GST11 - 3D □□□ 090-32 05E | | |
| | 5.6 - 1 | 1962 - 3925 | 171.111 | GST14 - 3D □□□ 090-32 05E | | |
| | 4.6 - 0.8 | 2383 - 2810 | 207.778 | GST11 - 3D □□□ 090-32 05E | | |
| | 4.6 - 0.8 | 2348 - 4696 | 204.722 | GST14 - 3D □□□ 090-32 05E | | |
| | 4 - 0.7 | 2695 - 2695 | 236.622 | GST11 - 3D □□□ 090-32 05E | | |
| 4 - 0.7 | 2714 - 5427 | 236.622 | GST14 - 3D □□□ 090-32 05E | | | |
| 3.8 - 0.7 | 2810 - 2810 | 252.167 | GST11 - 3D □□□ 090-32 05E | | | |
| 3.8 - 0.7 | 2849 - 5699 | 248.458 | GST14 - 3D □□□ 090-32 05E | | | |
| 3.5 - 0.6 | 2848 - 2848 | 268.889 | GST11 - 3D □□□ 090-32 05E | | | |
| 3.5 - 0.6 | 3084 - 5920 | 268.889 | GST14 - 3D □□□ 090-32 05E | | | |
| 2.9 - 0.5 | 2848 - 2848 | 326.333 | GST11 - 3D □□□ 090-32 05E | | | |
| 2.9 - 0.5 | 3742 - 5920 | 326.333 | GST14 - 3D □□□ 090-32 05E | | | |

Thermal limit not considered (see note on page 3-12)

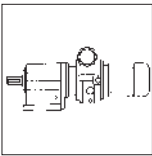
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------|-----------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 1.5 kW | | | | GST □□ - 3D | 4-24 | |
| | 2.6 - 0.5 | 4163 - 5779 | 363.000 | GST14 - 3D □□□ 090-32 05E | | |
| | 2.3 - 0.4 | 4731 - 5920 | 412.500 | GST14 - 3D □□□ 090-32 05E | | |
| 2.2 kW | | | | GST □□ - 1D | 4-18 | |
| | 1200 - 209 | 14 - 28 | 1.600 | GST05 - 1D □□□ 090-31 05E | | |
| | 1200 - 209 | 14 - 28 | 1.600 | GST06 - 1D □□□ 090-31 05E | | |
| | 938 - 164 | 18 - 36 | 2.048 | GST05 - 1D □□□ 090-31 05E | | |
| | 938 - 164 | 18 - 36 | 2.048 | GST06 - 1D □□□ 090-31 05E | | |
| | 960 - 168 | 18 - 35 | 2.000 | GST07 - 1D □□□ 090-31 05E | | |
| | 857 - 150 | 20 - 40 | 2.240 | GST05 - 1D □□□ 090-31 05E | | |
| | 857 - 150 | 20 - 40 | 2.240 | GST06 - 1D □□□ 090-31 05E | | |
| | 857 - 150 | 20 - 40 | 2.240 | GST07 - 1D □□□ 090-31 05E | | |
| | 672 - 117 | 25 - 51 | 2.857 | GST05 - 1D □□□ 090-31 05E | | |
| | 672 - 117 | 25 - 51 | 2.857 | GST06 - 1D □□□ 090-31 05E | | |
| | 672 - 117 | 25 - 51 | 2.857 | GST07 - 1D □□□ 090-31 05E | | |
| | 549 - 96 | 31 - 54 | 3.500 | GST05 - 1D □□□ 090-31 05E | | |
| | 549 - 96 | 31 - 62 | 3.500 | GST06 - 1D □□□ 090-31 05E | | |
| | 549 - 96 | 31 - 62 | 3.500 | GST07 - 1D □□□ 090-31 05E | | |
| | 421 - 74 | 40 - 81 | 4.556 | GST06 - 1D □□□ 090-31 05E | | |
| | 421 - 74 | 40 - 81 | 4.556 | GST07 - 1D □□□ 090-31 05E | | |
| | 339 - 59 | 50 - 100 | 5.667 | GST06 - 1D □□□ 090-31 05E | | |
| | 344 - 60 | 50 - 99 | 5.583 | GST07 - 1D □□□ 090-31 05E | | |
| | 262 - 46 | 65 - 130 | 7.333 | GST07 - 1D □□□ 090-31 05E | | |
| | 216 - 38 | 79 - 158 | 8.900 | GST07 - 1D □□□ 090-31 05E | | |
| | | | | GST □□ - 2D | | 4-21 |
| | 650 - 113 | 26 - 52 | 2.956 | GST05 - 2D □□□ 090-31 05E | | |
| | 633 - 110 | 26 - 53 | 3.033 | GST06 - 2D □□□ 090-31 05E | | |
| | 474 - 83 | 35 - 71 | 4.053 | GST05 - 2D □□□ 090-31 05E | | |
| | 462 - 81 | 36 - 73 | 4.160 | GST06 - 2D □□□ 090-31 05E | | |
| | 370 - 65 | 45 - 90 | 5.187 | GST05 - 2D □□□ 090-31 05E | | |
| | 361 - 63 | 46 - 93 | 5.324 | GST06 - 2D □□□ 090-31 05E | | |
| | 300 - 52 | 56 - 105 | 6.400 | GST05 - 2D □□□ 090-31 05E | | |
| | 300 - 52 | 56 - 112 | 6.400 | GST06 - 2D □□□ 090-31 05E | | |
| | 235 - 41 | 71 - 115 | 8.163 | GST05 - 2D □□□ 090-31 05E | | |
| | 235 - 41 | 71 - 143 | 8.163 | GST06 - 2D □□□ 090-31 05E | | |
| | 192 - 34 | 87 - 124 | 10.000 | GST05 - 2D □□□ 090-31 05E | | |
| | 192 - 34 | 87 - 175 | 10.000 | GST06 - 2D □□□ 090-31 05E | | |
| | 153 - 27 | 110 - 220 | 12.571 | GST06 - 2D □□□ 090-31 05E | | |
| | 125 - 22 | 134 - 269 | 15.400 | GST06 - 2D □□□ 090-31 05E | | |
| | 96 - 17 | 175 - 350 | 20.044 | GST06 - 2D □□□ 090-31 05E | | |
| | 96 - 17 | 175 - 350 | 20.044 | GST07 - 2D □□□ 090-31 05E | | |
| | 77 - 13 | 218 - 360 | 24.933 | GST06 - 2D □□□ 090-31 05E | | |
| | 78 - 14 | 215 - 429 | 24.567 | GST07 - 2D □□□ 090-31 05E | | |
| | 60 - 10 | 282 - 564 | 32.267 | GST07 - 2D □□□ 090-31 05E | | |
| | 49 - 8.6 | 342 - 684 | 39.160 | GST07 - 2D □□□ 090-31 05E | | |
| | 39 - 6.8 | 432 - 864 | 49.500 | GST09 - 2D □□□ 090-31 05E | | |
| | 34 - 6 | 491 - 982 | 56.250 | GST09 - 2D □□□ 090-31 05E | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

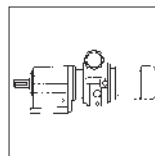
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|-----------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 2.2 kW | | | | GST □□ - 3D | 4-24 | |
| | 36 - 6.2 | 464 - 706 | 53.900 | GST07 - 3D □□□ 090-31 05E | | |
| | 36 - 6.3 | 456 - 912 | 53.044 | GST09 - 3D □□□ 090-31 05E | | |
| | 32 - 5.6 | 518 - 1037 | 60.278 | GST09 - 3D □□□ 090-31 05E | | |
| | 27 - 4.8 | 603 - 706 | 70.156 | GST07 - 3D □□□ 090-31 05E | | |
| | 27 - 4.7 | 618 - 1236 | 71.867 | GST09 - 3D □□□ 090-31 05E | | |
| | 24 - 4.2 | 654 - 710 | 79.762 | GST07 - 3D □□□ 090-31 05E | | |
| | 24 - 4.1 | 702 - 1405 | 81.667 | GST09 - 3D □□□ 090-31 05E | | |
| | 22 - 3.9 | 650 - 706 | 85.983 | GST07 - 3D □□□ 090-31 05E | | |
| | 21 - 3.6 | 805 - 1609 | 93.541 | GST09 - 3D □□□ 090-31 05E | | |
| | 20 - 3.4 | 654 - 710 | 97.708 | GST07 - 3D □□□ 090-31 05E | | |
| | 19 - 3.4 | 853 - 1596 | 99.167 | GST09 - 3D □□□ 090-31 05E | | |
| | 17 - 2.9 | 977 - 1613 | 113.585 | GST09 - 3D □□□ 090-31 05E | | |
| | 17 - 3 | 971 - 1943 | 112.933 | GST11 - 3D □□□ 090-31 05E | | |
| | 15 - 2.6 | 1110 - 1612 | 129.074 | GST09 - 3D □□□ 090-31 05E | | |
| | 15 - 2.6 | 1110 - 2220 | 129.074 | GST11 - 3D □□□ 090-31 05E | | |
| | 14 - 2.4 | 1215 - 1613 | 141.289 | GST09 - 3D □□□ 090-31 05E | | |
| | 13 - 2.3 | 1264 - 2529 | 146.993 | GST11 - 3D □□□ 090-31 05E | | |
| | 12 - 2.1 | 1381 - 1623 | 160.556 | GST09 - 3D □□□ 090-31 05E | | |
| | 12 - 2.1 | 1361 - 2721 | 158.194 | GST11 - 3D □□□ 090-31 05E | | |
| | 11 - 1.9 | 1550 - 2695 | 180.156 | GST11 - 3D □□□ 090-31 05E | | |
| | 11 - 2 | 1472 - 2943 | 171.111 | GST14 - 3D □□□ 090-31 05E | | |
| | 9.2 - 1.6 | 1787 - 2810 | 207.778 | GST11 - 3D □□□ 090-31 05E | | |
| | 9.4 - 1.6 | 1761 - 3522 | 204.722 | GST14 - 3D □□□ 090-31 05E | | |
| | 8.1 - 1.4 | 2035 - 2695 | 236.622 | GST11 - 3D □□□ 090-31 05E | | |
| | 8.1 - 1.4 | 2035 - 4070 | 236.622 | GST14 - 3D □□□ 090-31 05E | | |
| | 7.6 - 1.3 | 2169 - 2810 | 252.167 | GST11 - 3D □□□ 090-31 05E | | |
| | 7.7 - 1.3 | 2137 - 4274 | 248.458 | GST14 - 3D □□□ 090-31 05E | | |
| | 7.1 - 1.2 | 2313 - 2848 | 268.889 | GST11 - 3D □□□ 090-31 05E | | |
| | 7.1 - 1.2 | 2313 - 4625 | 268.889 | GST14 - 3D □□□ 090-31 05E | | |
| 5.9 - 1 | 2623 - 2848 | 326.333 | GST11 - 3D □□□ 090-31 05E | | | |
| 5.9 - 1 | 2807 - 5614 | 326.333 | GST14 - 3D □□□ 090-31 05E | | | |
| 5.3 - 0.9 | 3122 - 5779 | 363.000 | GST14 - 3D □□□ 090-31 05E | | | |
| 4.7 - 0.8 | 3548 - 5920 | 412.500 | GST14 - 3D □□□ 090-31 05E | | | |
| 3 kW | | | | GST □□ - 1D | 4-18 | |
| | 615 - 108 | 35 - 70 | 1.625 | GST07 - 1D □□□ 100-32 06G | | |
| | 500 - 88 | 43 - 87 | 2.000 | GST07 - 1D □□□ 100-32 06G | | |
| | 446 - 78 | 49 - 97 | 2.240 | GST07 - 1D □□□ 100-32 06G | | |
| | 350 - 61 | 62 - 124 | 2.857 | GST07 - 1D □□□ 100-32 06G | | |
| | 286 - 50 | 76 - 152 | 3.500 | GST07 - 1D □□□ 100-32 06G | | |
| | 214 - 38 | 101 - 202 | 4.667 | GST09 - 1D □□□ 100-32 06G | | |
| | 176 - 31 | 123 - 246 | 5.667 | GST09 - 1D □□□ 100-32 06G | | |
| | | | | GST □□ - 2D | | 4-21 |
| | 328 - 57 | 65 - 130 | 3.048 | GST07 - 2D □□□ 100-32 06G | | |
| | 237 - 41 | 90 - 180 | 4.225 | GST07 - 2D □□□ 100-32 06G | | |
| | 192 - 34 | 111 - 222 | 5.200 | GST07 - 2D □□□ 100-32 06G | | |
| | 156 - 27 | 137 - 273 | 6.400 | GST07 - 2D □□□ 100-32 06G | | |

Thermal limit not considered (see note on page 3-12)

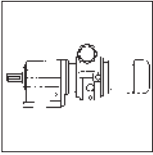
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|----------|---|---|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 3 kW | 123 - 22 | 173 - 347 | 8.125 | GST □□ - 2D GST07 - 2D □□□ 100-32 06G | 4-21 | |
| | 101 - 18 | 210 - 421 | 9.856 | GST07 - 2D □□□ 100-32 06G | | |
| | 80 - 14 | 268 - 537 | 12.571 | GST07 - 2D □□□ 100-32 06G | | |
| | 65 - 11 | 329 - 644 | 15.400 | GST07 - 2D □□□ 100-32 06G | | |
| | 49 - 8.5 | 438 - 877 | 20.533 | GST09 - 2D □□□ 100-32 06G | | |
| | 40 - 7 | 532 - 1064 | 24.933 | GST09 - 2D □□□ 100-32 06G | | |
| | 31 - 5.4 | 689 - 1377 | 32.267 | GST11 - 2D □□□ 100-32 06G | | |
| | 26 - 4.5 | 836 - 1672 | 39.160 | GST11 - 2D □□□ 100-32 06G | | |
| | 22 - 3.9 | 950 - 1900 | 44.500 | GST11 - 2D □□□ 100-32 06G | | |
| | 20 - 3.5 | 1057 - 2113 | 49.500 | GST14 - 2D □□□ 100-32 06G | | |
| | 18 - 3.1 | 1201 - 2401 | 56.250 | GST14 - 2D □□□ 100-32 06G | | |
| | 17 - 3 | 1219 - 2438 | 57.968 | GST □□ - 3D GST11 - 3D □□□ 100-32 06G | | 4-24 |
| | 16 - 2.9 | 1288 - 2576 | 61.250 | GST11 - 3D □□□ 100-32 06G | | |
| | 14 - 2.5 | 1493 - 2637 | 71.011 | GST11 - 3D □□□ 100-32 06G | | |
| | 12 - 2.2 | 1697 - 2787 | 80.694 | GST11 - 3D □□□ 100-32 06G | | |
| | 11 - 2 | 1835 - 2656 | 87.267 | GST11 - 3D □□□ 100-32 06G | | |
| | 11 - 1.9 | 1967 - 3933 | 93.541 | GST14 - 3D □□□ 100-32 06G | | |
| | 10 - 1.8 | 2085 - 2810 | 99.167 | GST11 - 3D □□□ 100-32 06G | | |
| | 10 - 1.8 | 2022 - 4043 | 96.157 | GST14 - 3D □□□ 100-32 06G | | |
| | 8.9 - 1.6 | 2374 - 2695 | 112.933 | GST11 - 3D □□□ 100-32 06G | | |
| | 9.4 - 1.6 | 2235 - 4470 | 106.296 | GST14 - 3D □□□ 100-32 06G | | |
| | 7.7 - 1.3 | 2739 - 5478 | 130.278 | GST14 - 3D □□□ 100-32 06G | | |
| | 7.2 - 1.3 | 2927 - 5736 | 139.211 | GST14 - 3D □□□ 100-32 06G | | |
| | 6.3 - 1.1 | 3326 - 5920 | 158.194 | GST14 - 3D □□□ 100-32 06G | | |
| | 5.8 - 1 | 3598 - 5920 | 171.111 | GST14 - 3D □□□ 100-32 06G | | |
| | 4 kW | 615 - 108 | 51 - 102 | 1.625 | GST □□ - 1D GST07 - 1D □□□ 112-22 07G | 4-18 |
| | | 500 - 88 | 63 - 124 | 2.000 | GST07 - 1D □□□ 112-22 07G | |
| 446 - 78 | | 71 - 135 | 2.240 | GST07 - 1D □□□ 112-22 07G | | |
| 350 - 61 | | 90 - 159 | 2.857 | GST07 - 1D □□□ 112-22 07G | | |
| 286 - 50 | | 110 - 172 | 3.500 | GST07 - 1D □□□ 112-22 07G | | |
| 214 - 38 | | 147 - 294 | 4.667 | GST09 - 1D □□□ 112-22 07G | | |
| 176 - 31 | | 179 - 357 | 5.667 | GST09 - 1D □□□ 112-22 07G | | |
| 328 - 57 | | 95 - 189 | 3.048 | GST □□ - 2D GST07 - 2D □□□ 112-22 07G | 4-21 | |
| 237 - 41 | | 131 - 262 | 4.225 | GST07 - 2D □□□ 112-22 07G | | |
| 192 - 34 | | 161 - 323 | 5.200 | GST07 - 2D □□□ 112-22 07G | | |
| 156 - 27 | | 199 - 397 | 6.400 | GST07 - 2D □□□ 112-22 07G | | |
| 123 - 22 | | 252 - 505 | 8.125 | GST07 - 2D □□□ 112-22 07G | | |
| 101 - 18 | | 306 - 549 | 9.856 | GST07 - 2D □□□ 112-22 07G | | |
| 80 - 14 | | 390 - 600 | 12.571 | GST07 - 2D □□□ 112-22 07G | | |
| 65 - 11 | | 478 - 644 | 15.400 | GST07 - 2D □□□ 112-22 07G | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

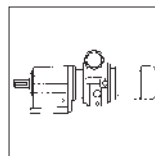
Selection tables with helical gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|----------|---|---|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 4 kW | 66 - 12 | 471 - 941 | 15.156 | GST □□ - 2D GST09 - 2D □□□ 112-22 07G | 4-21 | |
| | 49 - 8.5 | 638 - 1275 | 20.533 | GST09 - 2D □□□ 112-22 07G | | |
| | 40 - 7 | 774 - 1548 | 24.933 | GST09 - 2D □□□ 112-22 07G | | |
| | 31 - 5.4 | 1002 - 2004 | 32.267 | GST11 - 2D □□□ 112-22 07G | | |
| | 26 - 4.5 | 1216 - 2352 | 39.160 | GST11 - 2D □□□ 112-22 07G | | |
| | 20 - 3.5 | 1537 - 2888 | 49.500 | GST14 - 2D □□□ 112-22 07G | | |
| | 18 - 3.1 | 1746 - 3282 | 56.250 | GST14 - 2D □□□ 112-22 07G | | |
| | 17 - 3 | 1773 - 2577 | 57.968 | GST □□ - 3D GST11 - 3D □□□ 112-22 07G | | 4-24 |
| | 19 - 3.3 | 1625 - 3251 | 53.148 | GST14 - 3D □□□ 112-22 07G | | |
| | 16 - 2.9 | 1873 - 2725 | 61.250 | GST11 - 3D □□□ 112-22 07G | | |
| | 17 - 3 | 1814 - 3628 | 59.321 | GST14 - 3D □□□ 112-22 07G | | |
| | 14 - 2.5 | 2172 - 2637 | 71.011 | GST11 - 3D □□□ 112-22 07G | | |
| | 14 - 2.5 | 2111 - 4223 | 69.042 | GST14 - 3D □□□ 112-22 07G | | |
| | 12 - 2.2 | 2468 - 2787 | 80.694 | GST11 - 3D □□□ 112-22 07G | | |
| | 13 - 2.2 | 2399 - 4799 | 78.457 | GST14 - 3D □□□ 112-22 07G | | |
| | 11 - 2 | 2656 - 2656 | 87.267 | GST11 - 3D □□□ 112-22 07G | | |
| | 11 - 1.9 | 2861 - 5524 | 93.541 | GST14 - 3D □□□ 112-22 07G | | |
| | 10 - 1.8 | 2810 - 2810 | 99.167 | GST11 - 3D □□□ 112-22 07G | | |
| | 10 - 1.8 | 2941 - 5881 | 96.157 | GST14 - 3D □□□ 112-22 07G | | |
| | 8.9 - 1.6 | 2695 - 2695 | 112.933 | GST11 - 3D □□□ 112-22 07G | | |
| | 9.4 - 1.6 | 3251 - 5920 | 106.296 | GST14 - 3D □□□ 112-22 07G | | |
| | 7.7 - 1.3 | 3984 - 5920 | 130.278 | GST14 - 3D □□□ 112-22 07G | | |
| | 7.2 - 1.3 | 4257 - 5736 | 139.211 | GST14 - 3D □□□ 112-22 07G | | |
| | 6.3 - 1.1 | 4838 - 5920 | 158.194 | GST14 - 3D □□□ 112-22 07G | | |
| | 5.8 - 1 | 5233 - 5920 | 171.111 | GST14 - 3D □□□ 112-22 07G | | |
| | 5.5 kW | 615 - 123 | 72 - 106 | 1.625 | GST □□ - 1D GST07 - 1D □□□ 132-12 18H | |
| | | 641 - 128 | 69 - 138 | 1.560 | GST09 - 1D □□□ 132-12 18H | |
| | | 500 - 100 | 89 - 124 | 2.000 | GST07 - 1D □□□ 132-12 18H | |
| | | 488 - 98 | 91 - 182 | 2.048 | GST09 - 1D □□□ 132-12 18H | |
| | | 446 - 89 | 99 - 135 | 2.240 | GST07 - 1D □□□ 132-12 18H | |
| 429 - 86 | | 103 - 207 | 2.333 | GST09 - 1D □□□ 132-12 18H | | |
| 356 - 71 | | 125 - 249 | 2.810 | GST09 - 1D □□□ 132-12 18H | | |
| 290 - 58 | | 153 - 305 | 3.444 | GST09 - 1D □□□ 132-12 18H | | |
| 328 - 66 | | 133 - 266 | 3.048 | GST □□ - 2D GST07 - 2D □□□ 132-12 18H | 4-21 | |
| 299 - 60 | | 146 - 293 | 3.350 | GST07 - 2D □□□ 132-12 18H | | |
| 237 - 47 | | 184 - 369 | 4.225 | GST07 - 2D □□□ 132-12 18H | | |
| 247 - 49 | | 177 - 354 | 4.056 | GST09 - 2D □□□ 132-12 18H | | |
| 192 - 38 | | 227 - 427 | 5.200 | GST07 - 2D □□□ 132-12 18H | | |
| 188 - 38 | | 232 - 465 | 5.324 | GST09 - 2D □□□ 132-12 18H | | |
| 156 - 31 | | 279 - 463 | 6.400 | GST07 - 2D □□□ 132-12 18H | | |
| 150 - 30 | | 291 - 582 | 6.667 | GST09 - 2D □□□ 132-12 18H | | |
| 123 - 25 | | 355 - 539 | 8.125 | GST07 - 2D □□□ 132-12 18H | | |

Thermal limit not considered (see note on page 3-12)

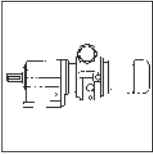
Disco variable speed drives

Selection tables with helical gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|---|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 5.5 kW | 125 - 25 | 350 - 701 | 8.027 | GST □□ - 2D GST09 - 2D □□□ 132-12 18H | 4-21 | |
| | 101 - 20 | 430 - 549 | 9.856 | GST07 - 2D □□□ 132-12 18H | | |
| | 97 - 19 | 448 - 896 | 10.267 | GST09 - 2D □□□ 132-12 18H | | |
| | 81 - 16 | 540 - 1079 | 12.362 | GST09 - 2D □□□ 132-12 18H | | |
| | 66 - 13 | 662 - 1323 | 15.156 | GST09 - 2D □□□ 132-12 18H | | |
| | 49 - 9.9 | 886 - 1772 | 20.289 | GST11 - 2D □□□ 132-12 18H | | |
| | 40 - 8 | 1089 - 2177 | 24.933 | GST11 - 2D □□□ 132-12 18H | | |
| | 31 - 6.2 | 1409 - 2818 | 32.267 | GST14 - 2D □□□ 132-12 18H | | |
| | 26 - 5.1 | 1710 - 3419 | 39.160 | GST14 - 2D □□□ 132-12 18H | | |
| | 23 - 4.7 | 1831 - 3662 | 42.580 | GST14 - 3D □□□ 132-12 18H | | |
| | 21 - 4.1 | 2081 - 4162 | 48.386 | GST14 - 3D □□□ 132-12 18H | | |
| | 19 - 3.8 | 2286 - 4571 | 53.148 | GST14 - 3D □□□ 132-12 18H | | |
| | 17 - 3.4 | 2551 - 5102 | 59.321 | GST14 - 3D □□□ 132-12 18H | | |
| | 14 - 2.9 | 2969 - 4917 | 69.042 | GST14 - 3D □□□ 132-12 18H | | |
| | 13 - 2.5 | 3374 - 5587 | 78.457 | GST14 - 3D □□□ 132-12 18H | | |
| | 10 - 2.1 | 4135 - 5882 | 96.157 | GST14 - 3D □□□ 132-12 18H | | |
| 7.5 kW | 615 - 123 | 93 - 106 | 1.625 | GST □□ - 1D GST07 - 1D □□□ 132-22 08H | 4-18 | |
| | 641 - 128 | 89 - 178 | 1.560 | GST09 - 1D □□□ 132-22 08H | | |
| | 500 - 100 | 114 - 124 | 2.000 | GST07 - 1D □□□ 132-22 08H | | |
| | 488 - 98 | 117 - 234 | 2.048 | GST09 - 1D □□□ 132-22 08H | | |
| | 446 - 89 | 128 - 135 | 2.240 | GST07 - 1D □□□ 132-22 08H | | |
| | 429 - 86 | 133 - 267 | 2.333 | GST09 - 1D □□□ 132-22 08H | | |
| | 356 - 71 | 161 - 321 | 2.810 | GST09 - 1D □□□ 132-22 08H | | |
| | 290 - 58 | 197 - 394 | 3.444 | GST09 - 1D □□□ 132-22 08H | | |
| | 328 - 66 | 172 - 343 | 3.048 | GST □□ - 2D GST07 - 2D □□□ 132-22 08H | | 4-21 |
| | 237 - 47 | 238 - 398 | 4.225 | GST07 - 2D □□□ 132-22 08H | | |
| | 247 - 49 | 228 - 456 | 4.056 | GST09 - 2D □□□ 132-22 08H | | |
| | 192 - 38 | 293 - 427 | 5.200 | GST07 - 2D □□□ 132-22 08H | | |
| | 188 - 38 | 300 - 599 | 5.324 | GST09 - 2D □□□ 132-22 08H | | |
| | 156 - 31 | 360 - 463 | 6.400 | GST07 - 2D □□□ 132-22 08H | | |
| | 150 - 30 | 375 - 750 | 6.667 | GST09 - 2D □□□ 132-22 08H | | |
| | 123 - 25 | 457 - 539 | 8.125 | GST07 - 2D □□□ 132-22 08H | | |
| | 125 - 25 | 452 - 903 | 8.027 | GST09 - 2D □□□ 132-22 08H | | |
| | 101 - 20 | 549 - 549 | 9.856 | GST07 - 2D □□□ 132-22 08H | | |
| | 97 - 19 | 578 - 1155 | 10.267 | GST09 - 2D □□□ 132-22 08H | | |
| | 81 - 16 | 696 - 1253 | 12.362 | GST09 - 2D □□□ 132-22 08H | | |
| | 80 - 16 | 707 - 1415 | 12.571 | GST11 - 2D □□□ 132-22 08H | | |
| | 66 - 13 | 853 - 1340 | 15.156 | GST09 - 2D □□□ 132-22 08H | | |
| | 65 - 13 | 867 - 1733 | 15.400 | GST11 - 2D □□□ 132-22 08H | | |
| | 49 - 9.9 | 1142 - 2283 | 20.289 | GST11 - 2D □□□ 132-22 08H | | |
| 40 - 8 | 1403 - 2777 | 24.933 | GST11 - 2D □□□ 132-22 08H | | | |
| 41 - 8.1 | 1382 - 2765 | 24.567 | GST14 - 2D □□□ 132-22 08H | | | |
| 31 - 6.2 | 1816 - 3631 | 32.267 | GST14 - 2D □□□ 132-22 08H | | | |

Thermal limit not considered (see note on page 3-12)

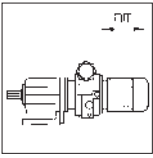


Disco variable speed drives

Selection tables with helical gearboxes

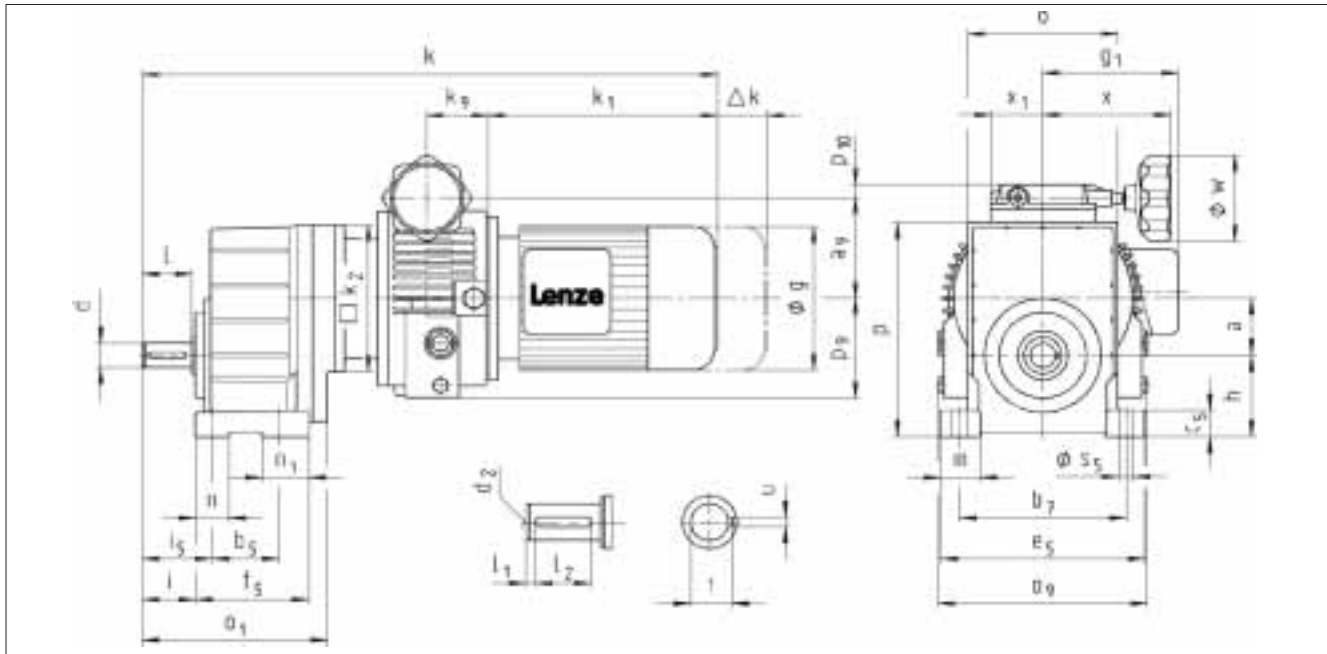
| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|--------|---|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 7.5 kW | 26 - 5.1 | 2204 - 4407 | 39.160 | GST □□ - 1D GST14 - 2D □□□ 132-22 08H GST14 - 2D □□□ 132-22 08H | 4-21 |
| | 22 - 4.5 | 2504 - 5008 | 44.500 | | |
| | 21 - 4.1 | 2682 - 4843 | 48.386 | GST □□ - 3D GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H GST14 - 3D □□□ 132-22 08H | 4-24 |
| | 19 - 3.8 | 2946 - 4779 | 53.148 | | |
| | 17 - 3.4 | 3288 - 5267 | 59.321 | | |
| | 14 - 2.9 | 3827 - 4917 | 69.042 | | |
| | 13 - 2.5 | 4349 - 5587 | 78.457 | | |
| | 10 - 2.1 | 5330 - 5882 | 96.157 | | |

Thermal limit not considered (see note on page 3-12)



DISCO variable speed drives

Dimensions with helical gearboxes



4

| DISCO variable speed drives | | Drive size | | | | | | | | | | | | |
|-----------------------------|--------------------------------------|----------------------|-----------|------------------------|------------------------|--------------|-----------|-----------|-----------|-----|-----|-----|-----|-----|
| GST □□ - 1 D VBR | | 071-1□ 02 | 071-3□ 03 | 080-11 04 080-3□ 04 | 090-11 05 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | |
| | o* | o₁ | p* | h** | a | k | | | | | | | | |
| GST 04 | 100 | 134 | 138 | 50 | 36 | 508 | 521 | 581 | 714 | | | | | |
| GST 05 | 115 | 165 | 168 | 63 | 45 | 529 | 542 | 602 | 737 | | | | | |
| GST 06 | 145 | 191 | 211 | 80 | 56 | | | 625 | 737 | | | | | |
| GST 07 | 180 | 223 | 264 | 100 | 70 | | | | | 766 | 763 | 826 | 933 | 933 |
| GST 09 | 222 | 271 | 329 | 125 | 89 | | | | | 806 | 806 | 869 | 976 | 976 |

| Gearbox size | Solid shaft | | | | | | | Foot | | | | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 |
| GST 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 47.5 | 40 | 57 | 18 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 50.5 | 45 | 56 | 18 |

Dimensions in [mm]

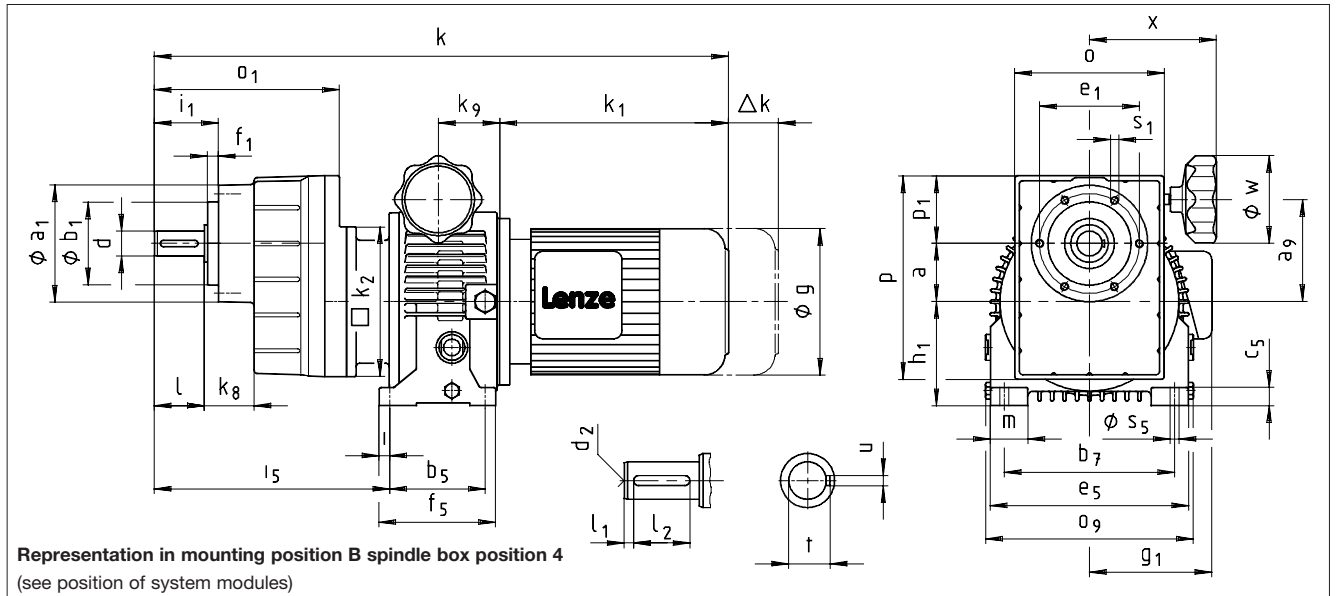
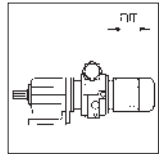
1) Plus 80 mm handle

* Observe dimension k₂

** Observe dimension p₉

DISCO variable speed drives

Dimensions with helical gearboxes



Representation in mounting position B spindle box position 4
(see position of system modules)

| DISCO variable speed drives GST □□ - 1 D VCR | | Drive size | | | | | | | | | |
|---|--------------------------------|----------------|-----------|------------------------|------------------------|----------------|--------------|-----|-----|--|-----|
| | | 071-1□ 02 | 071-3□ 03 | 080-11 04 080-3□ 04 | 090-11 05 090-3□ 05 | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 147 | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | | | | | | |
| | k ₁ | 237 | 237 | 267 | 350 | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | | | | | | |
| DISCO | a ₉ | 83 | 86 | 103 | 123 | | | | | | |
| | k ₂ | 145 | 145 | 180 | 180 | | | | | | |
| | k ₉ | 42 | 50 | 58 | 74 | | | | | | |
| | o ₉ | 150 | 175 | 215 | 253 | | | | | | |
| | w | 70 | 70 | 105 | 105 | | | | | | |
| | x | 105 | 105 | 152 | 152 | | | | | | |
| Fuß | b ₅ | 90 | 90 | 100 | 115 | | | | | | |
| | b ₇ | 110 | 120 | 150 | 205 | | | | | | |
| | c ₅ | 3.5 | 14 | 17 | 22 | | | | | | |
| | e ₅ | 140 | 160 | 200 | 238 | | | | | | |
| | f ₅ | 110 | 125 | 134 | 140 | | | | | | |
| | m | 25 | 32 | 40 | 45 | | | | | | |
| | s ₅ | 10 | 10 | 11 | 11 | | | | | | |
| | h ₁ | 67 2) | 80 | 102 | 125 | | | | | | |
| | i | 10 | 17.5 | 17.5 | 12.5 | | | | | | |
| | i ₅ GST 04 | 183 | 189 | 206 | | | | | | | |
| | GST 05 | | 210 | 227 | 232 | | | | | | |
| | GST 06 | | | 250 | 255 | | | | | | |
| | GST 07 | | | | 284 | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | |
| | o* | o ₁ | p* | p ₁ | a | k ₈ | k | | | | |
| GST 04 | 100 | 134 | 129 | 41 | 36 | 35 | 508 | 521 | 581 | | |
| GST 05 | 115 | 165 | 156 | 51 | 45 | 43 | | 542 | 602 | | 714 |
| GST 06 | 145 | 191 | 194 | 63 | 56 | 48 | | | 625 | | 737 |
| GST 07 | 180 | 223 | 245 | 82 | 70 | 60 | | | | | 766 |

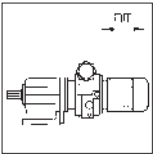
| Gearbox size | Solid shaft | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|---|------|----------------|----------------------|----------------|----------------|----------------|---------------------------|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 |

Dimensions in [mm]

1) Plus 80 mm handle

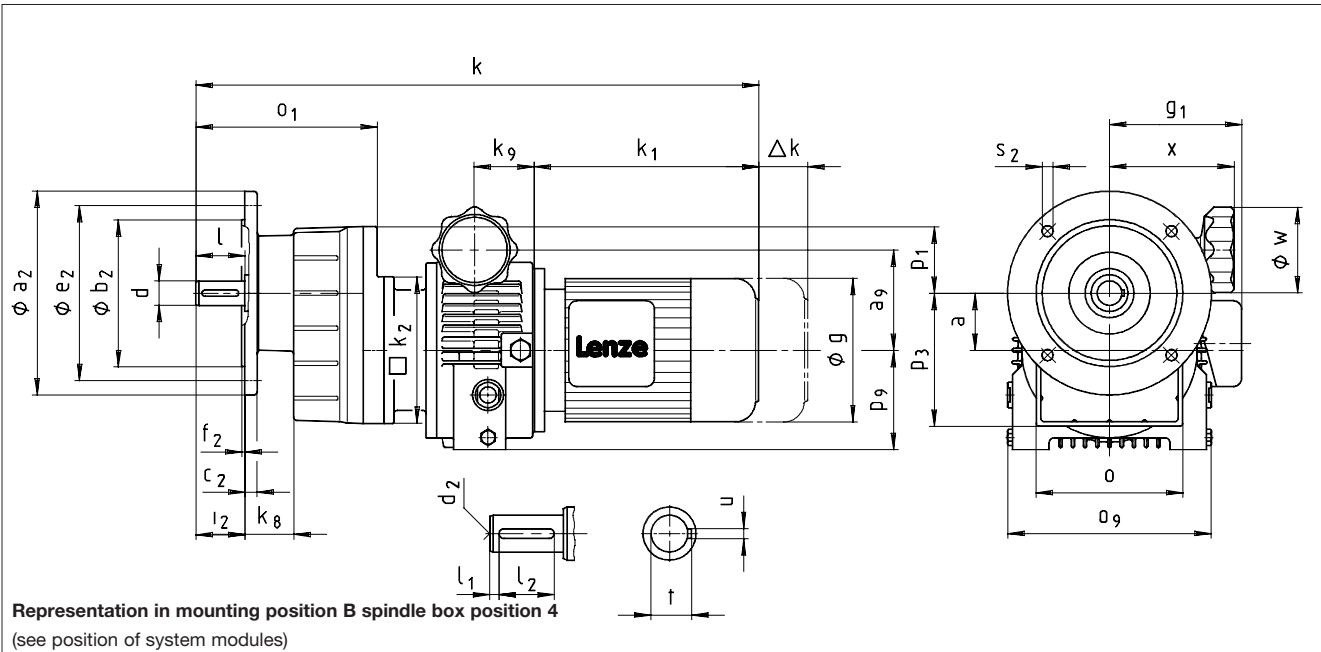
* Observe dimension k₂

2) h₁ < g/2 < k₂/2



DISCO variable speed drives

Dimensions with helical gearboxes



Representation in mounting position B spindle box position 4
(see position of system modules)

4

| DISCO variable speed drives | | Drive size | | | | | | | | | | | | | |
|-----------------------------|--------------------------------------|----------------------|----------------------|------------------------|------------------------|----------------------|---------------------|-----------|-----------|-----|-----|-----|-----|-----|-----|
| GST □□ - 1 D VCK | | 071-1□ 02 | 071-3□ 03 | 080-11 04 080-3□ 04 | 090-11 05 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | |
| | o* | o₁ | p₁ | p₃* | a | k₈ | k | | | | | | | | |
| GST 04 | 100 | 134 | 41 | 88 | 36 | 35 | 508 | 521 | 581 | | | | | | |
| GST 05 | 115 | 165 | 51 | 105 | 45 | 43 | 529 | 542 | 602 | 714 | | | | | |
| GST 06 | 145 | 191 | 63 | 131 | 56 | 48 | | | 625 | 737 | | | | | |
| GST 07 | 180 | 223 | 82 | 164 | 70 | 60 | | | | | 766 | 763 | 826 | 933 | 933 |
| GST 09 | 222 | 271 | 101 | 204 | 89 | 74 | | | | | 806 | 806 | 869 | 976 | 976 |

| Gearbox size | Solid shaft | | | | | | | Output 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 4x90° |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| | | | | | | | | 200 | 130 | | 12 | 165 | | 3.5 |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 160 | 110 | 12 | 130 | 3.5 | 50 | 9 |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 |
| | | | | | | | | 250 | 180 | | 15 | 215 | | 4 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 250 | 180 | 16 | 215 | 4 | 80 | 13.5 |
| | | | | | | | | 300 | 230 | | 18 | 265 | | |

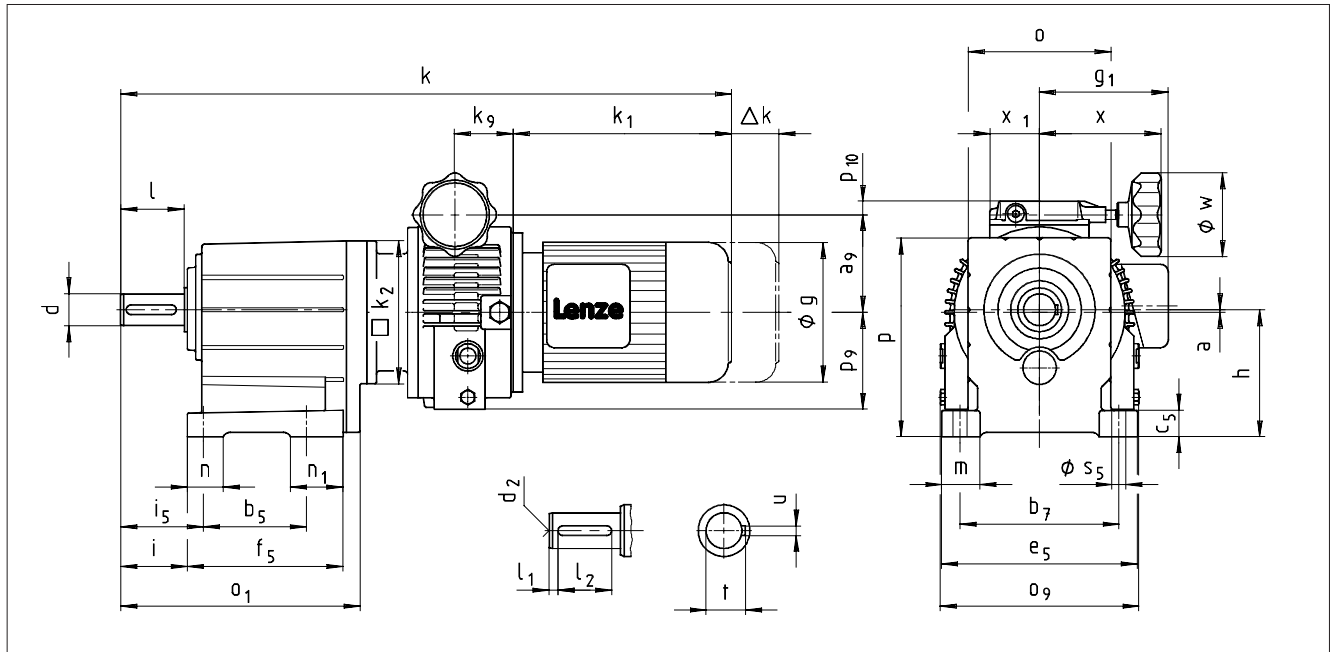
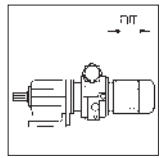
Dimensions in [mm]

1) Plus 80 mm handle

* Observe dimension k₂

DISCO variable speed drives

Dimensions with helical gearboxes

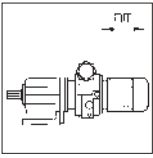


4

| DISCO variable speed drives | | Drive size | | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------|----------------------|-----------|------------|-----------|--------------|-----------|-----------|-----------|------|------|------|------|--|--|--|--|--|
| GST □□ - 2 D VBR | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | |
| | o* | o₁ | p* | h** | a | k | | | | | | | | | | | | |
| GST 04 | 100 | 174 | 132 | 80 | 0 | 548 | 561 | 621 | | | | | | | | | | |
| GST 05 | 115 | 214 | 159 | 100 | 1 | 578 | 591 | 651 | 763 | | | | | | | | | |
| GST 06 | 145 | 243 | 198 | 125 | 2 | 604 | 617 | 677 | 789 | | | | | | | | | |
| GST 07 | 180 | 302 | 251 | 160 | 3 | | | 733 | 845 | 842 | 905 | 1012 | 1012 | | | | | |
| GST 09 | 222 | 370 | 311 | 200 | 4 | | | 796 | 908 | 905 | 968 | 1075 | 1075 | | | | | |
| GST 11 | 270 | 433 | 385 | 250 | 4 | | | | 965 | 962 | 1025 | 1132 | 1132 | | | | | |
| GST 14 | 328 | 533 | 479 | 315 | 6 | | | | | 1052 | 1115 | 1222 | 1222 | | | | | |

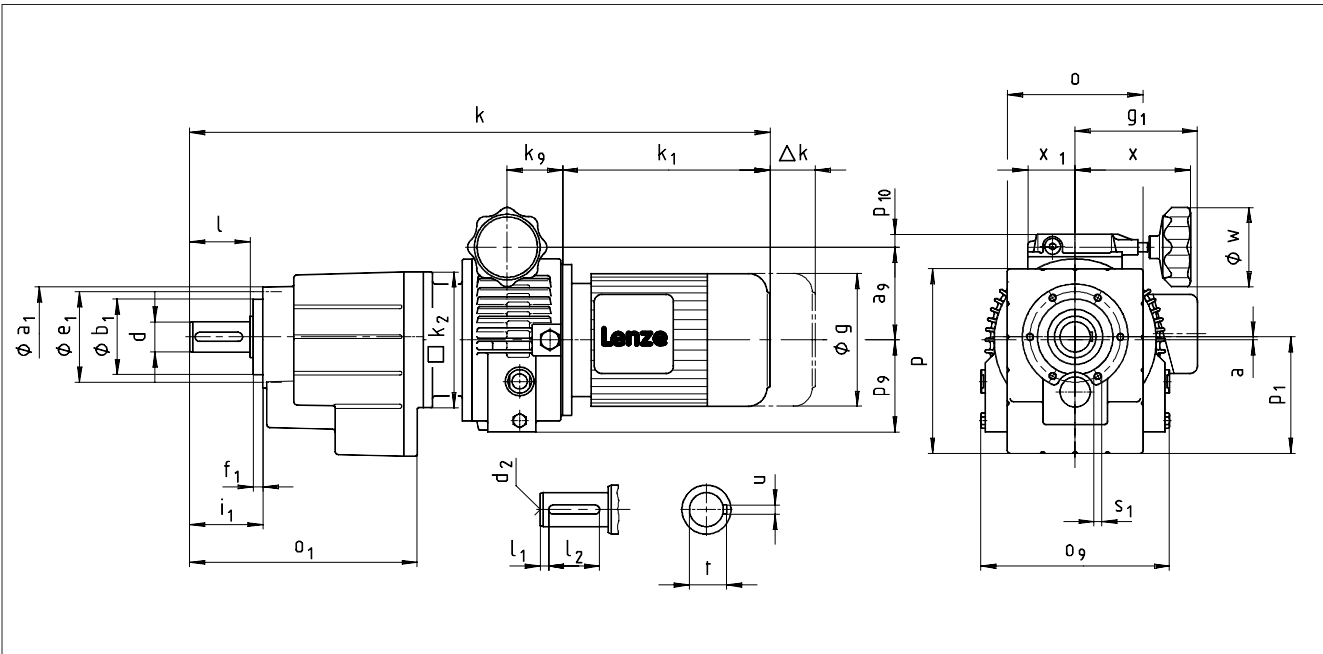
| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 25 | 20 | 36 | 9 |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 33 | 26 | 49 | 11 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 49 | 45 | 66 | 18 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| GST 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 * Observe dimension k₂ 1) Plus 80 mm handle
d > 50 mm: m6 ** Observe dimension p₉



DISCO variable speed drives

Dimensions with helical gearboxes



4

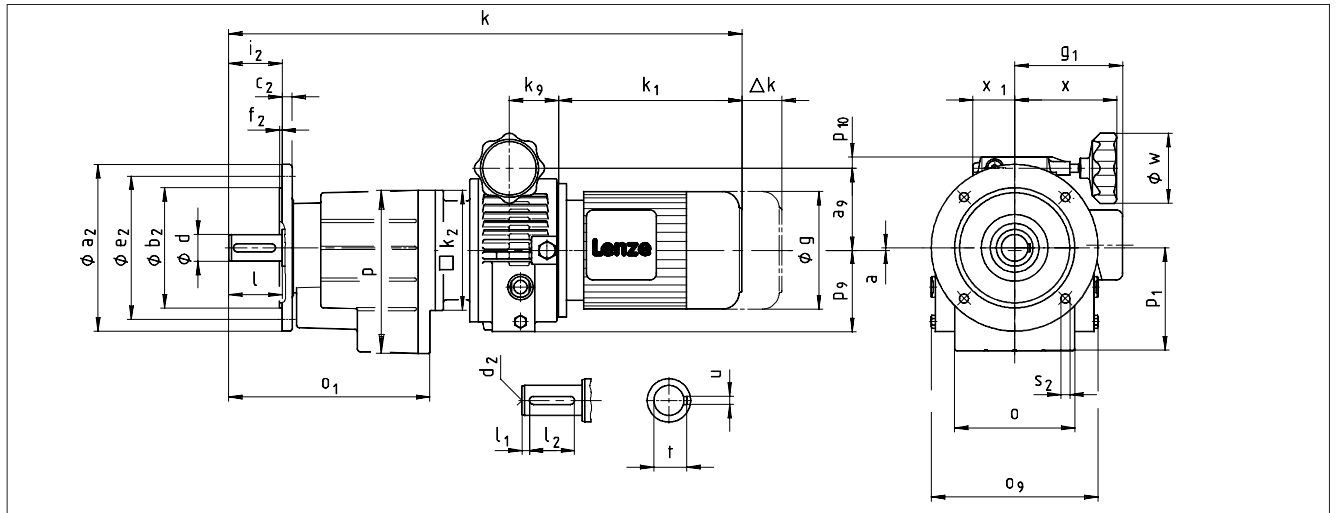
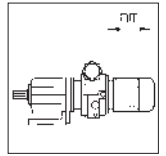
| DISCO variable speed drives GST □□ - 2 D VCR | | Drive size | | | | | | | | | | | | |
|---|-----------------|-----------------|-----------|----------------|-----------|--------------|-----------|-----------|-----------|------|------|------|------|--|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | |
| | g ₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | |
| | k ₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | |
| DISCO | a ₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | |
| | k ₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | |
| | k ₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | |
| | o ₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | |
| | p ₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | |
| | p ₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | |
| x ₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | k | | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 548 | 561 | 621 | | | | | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 578 | 591 | 651 | 763 | | | | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | 604 | 617 | 677 | 789 | | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | 733 | 845 | 842 | 905 | 1012 | 1012 | |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | 796 | 908 | 905 | 968 | 1075 | 1075 | |
| GST 11 | 270 | 433 | 378 | 243 | 4 | | | | 965 | 962 | 1025 | 1132 | 1132 | |
| GST 14 | 328 | 533 | 470 | 306 | 6 | | | | | 1052 | 1115 | 1222 | 1222 | |

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

Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm handle

DISCO variable speed drives

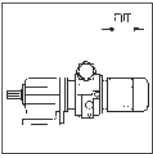
Dimensions with helical gearboxes



| DISCO variable speed drives | | Drive size | | | | | | | | | | | |
|-----------------------------|-----------------------|----------------------|-----------|----------------------|-----------|-----------|---------------------|-----------|-----------|------|------|------|------|
| GST □□ - 2 D VCK | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | |
| | Gearbox size | Gearbox | | | | | Total length | | | | | | |
| o* | | o₁ | p* | p₁ | a | k | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 548 | 561 | 621 | | | | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 578 | 591 | 651 | 763 | | | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | 604 | 617 | 677 | 789 | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | 733 | 845 | 842 | 905 | 1012 | 1012 |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | 796 | 908 | 905 | 968 | 1075 | 1075 |
| GST 11 | 270 | 433 | 378 | 243 | 4 | | | 965 | | 962 | 1025 | 1132 | 1132 |
| GST 14 | 328 | 533 | 470 | 306 | 6 | | | | | 1052 | 1115 | 1222 | 1222 |

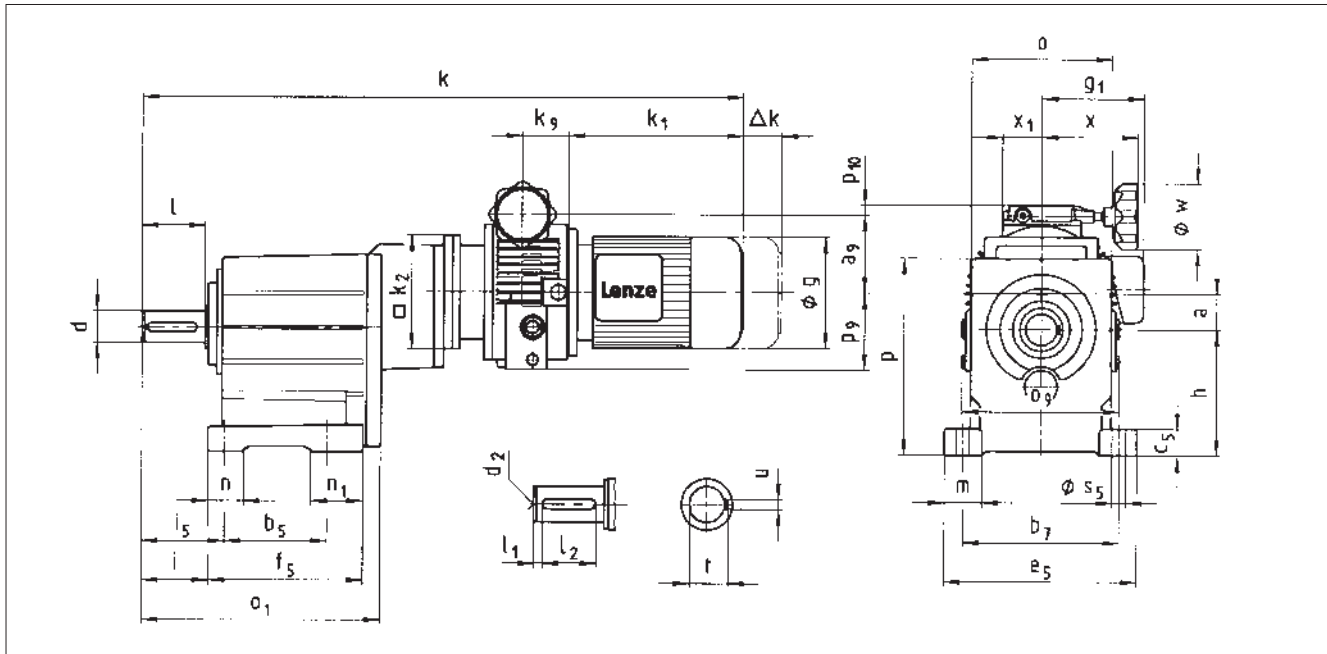
| Gearbox size | d | l | l ₁ | Solid shaft | | | | Output flange | | | | | | |
|--------------|----|-----|----------------|----------------|----------------|----|------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------------|
| | | | | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4x90° |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 50 | 7 |
| | | | | | | | | 140 | 95 | | 110 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 |
| | | | | | | | | 250 | 180 | | 215 | 4 | | 14 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 |
| | | | | | | | | 300 | 230 | | 265 | 4 | | 14 |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 |
| | | | | | | | | 350 | 250 | | 300 | 5 | | 18 |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 |
| | | | | | | | | 400 | 300 | | 350 | 5 | | 18 |

Dimensions in [mm] d ≤ 50 mm: k6
 d > 50 mm: m6 * Observe dimension k₂
 1) Plus 80 mm handle



DISCO variable speed drives

Dimensions with helical gearboxes



4

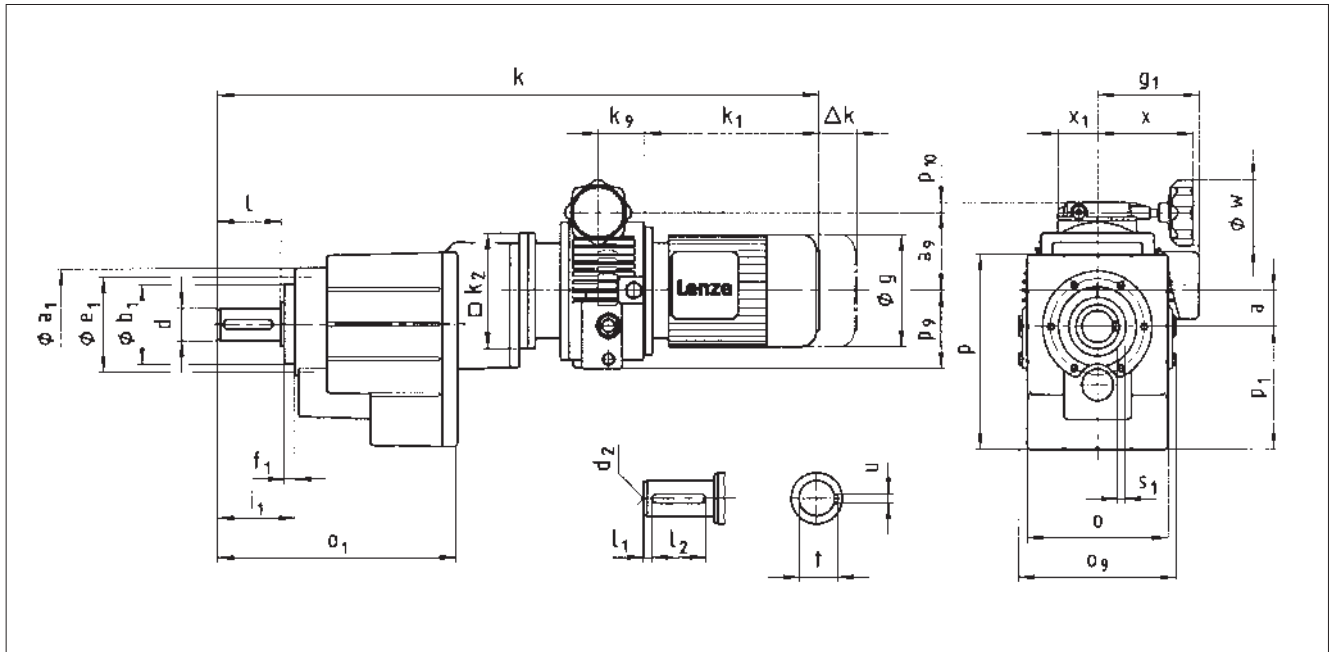
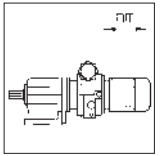
| DISCO variable speed drives | | Drive size | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------------------------|----------------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|------|------|------|------|--|--|--|--|--|
| GST □□ - 3 D VBR | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | |
| x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | |
| | o* | o₁ | p* | h | a | k | | | | | | | | | | | | |
| GST 05 | 115 | 208 | 159 | 100 | 35 | 654 | 668 | | | | | | | | | | | |
| GST 06 | 145 | 240 | 198 | 125 | 34 | 697 | 711 | 771 | | | | | | | | | | |
| GST 07 | 180 | 302 | 251 | 160 | 42 | 764 | 778 | 838 | 950 | | | | | | | | | |
| GST 09 | 222 | 370 | 311 | 200 | 52 | 845 | 859 | 919 | 1031 | | | | | | | | | |
| GST 11 | 270 | 433 | 385 | 250 | 66 | | | 995 | 1107 | 1104 | 1167 | | | | | | | |
| GST 14 | 328 | 533 | 479 | 315 | 83 | | | 1119 | 1231 | 1228 | 1291 | 1398 | 1398 | | | | | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 |
| GST 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 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm handle

DISCO variable speed drives

Dimensions with helical gearboxes

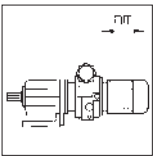


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| DISCO variable speed drives | | Drive size | | | | | | | | | | |
|-----------------------------|-----------------------|-----------------|-----------|----------------|-----------|--------------|-----------|-----------|-----------|------|------|-----------|
| GST □□ - 3 D VCR | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | |
| DISCO | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | |
| | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | |
| x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | |
| x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | |
| | o* | o ₁ | p* | p ₁ | a | k | | | | | | |
| GST 05 | 115 | 208 | 156 | 98 | 35 | 654 | 668 | | | | | |
| GST 06 | 145 | 240 | 194 | 121 | 34 | 697 | 711 | 771 | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 42 | 764 | 778 | 838 | 950 | | | |
| GST 09 | 222 | 370 | 304 | 194 | 52 | 845 | 859 | 919 | 1031 | | | |
| GST 11 | 270 | 433 | 378 | 243 | 66 | | | 995 | 1107 | 1104 | 1167 | |
| GST 14 | 328 | 533 | 470 | 306 | 83 | | | 1119 | 1231 | 1228 | 1291 | 1398 1398 |

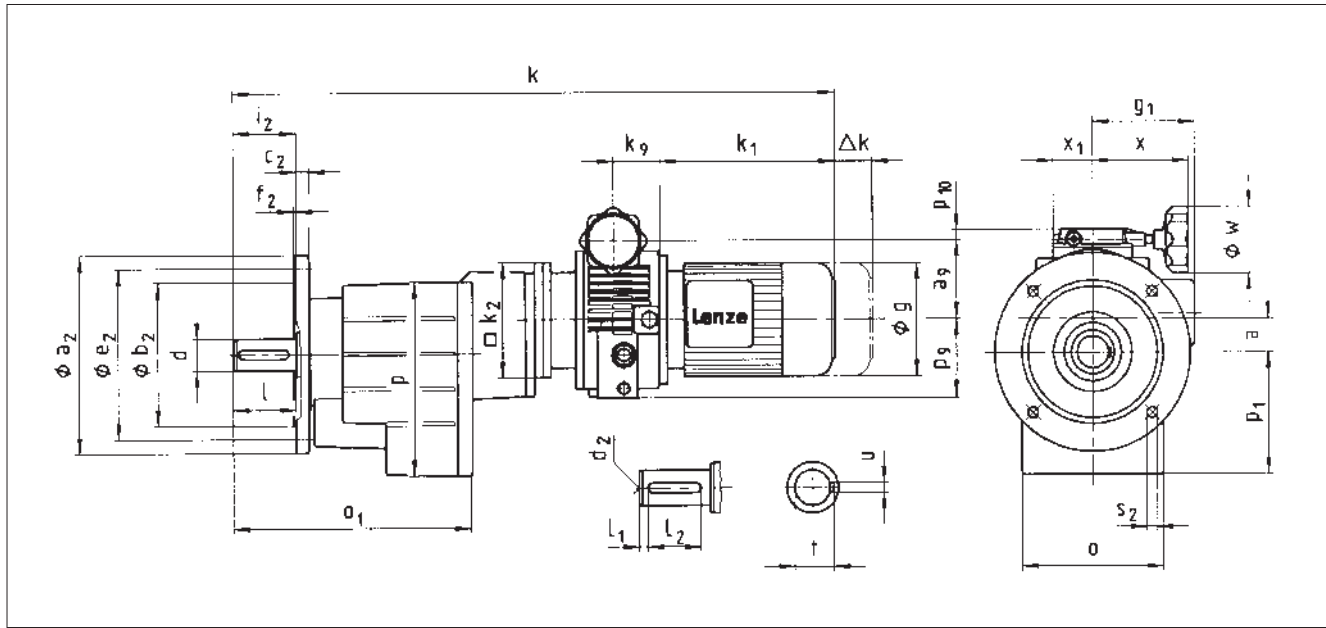
| Gearbox size | Solid shaft | | | | | | | Pitch circle | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|---------------------------|--|
| | d | l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

Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm handle



DISCO variable speed drives

Dimensions with helical gearboxes

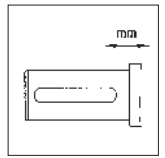


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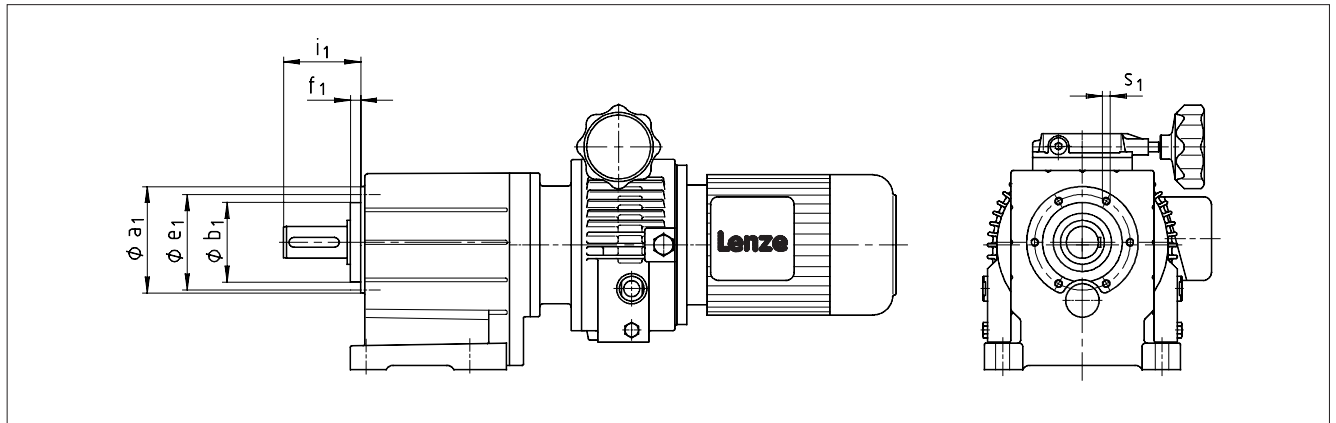
| DISCO variable speed drives | | Drive size | | | | | | | | | | | | |
|-----------------------------|-----------------------|----------------------|-----------|----------------------|-----------|---------------------|-----------|-----------|-----------|------|------|------|------|--|
| GST □□ - 3 D VCK | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | |
| | o* | o₁ | p* | p₁ | a | k | | | | | | | | |
| GST 05 | 115 | 208 | 156 | 98 | 35 | 654 | 668 | | | | | | | |
| GST 06 | 145 | 240 | 194 | 121 | 34 | 697 | 711 | 771 | | | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 42 | 764 | 778 | 838 | 950 | | | | | |
| GST 09 | 222 | 370 | 304 | 194 | 52 | 845 | 859 | 919 | 1031 | | | | | |
| GST 11 | 270 | 433 | 378 | 243 | 66 | | | 995 | 1107 | 1104 | 1167 | | | |
| GST 14 | 328 | 533 | 470 | 306 | 83 | | | 1119 | 1231 | 1228 | 1291 | 1398 | 1398 | |

| Gearbox size | d | l | l ₁ | Solid shaft | | | | Output flange | | | | | | |
|--------------|----|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|
| | | | | l ₂ | d ₂ | u | t | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4x90° |
| GST 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 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 14 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |
| | | | | | | | | | | | | | | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 |
| GST 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 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm handle



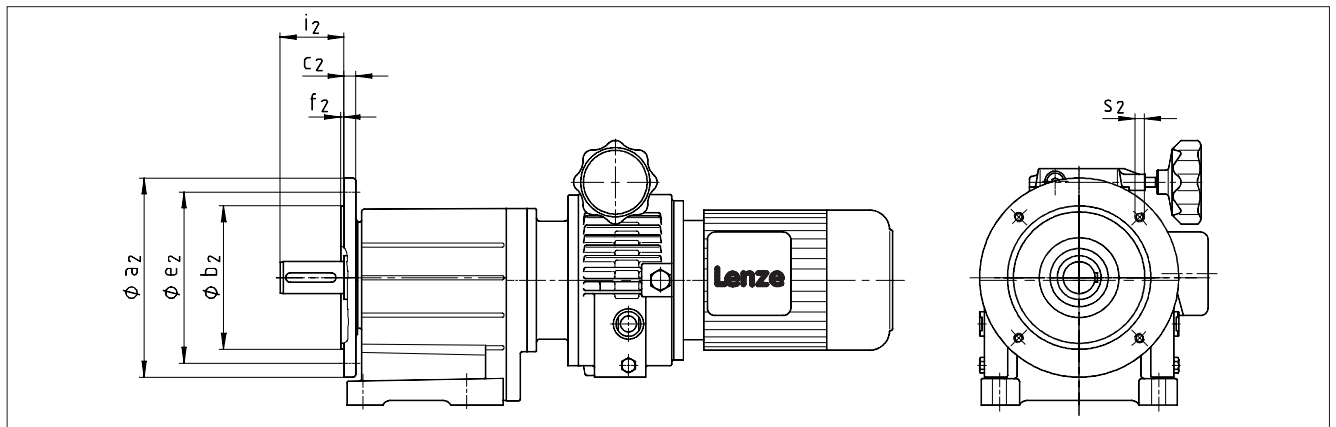
Output design VAR



| Gearbox size | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° |
|--------------|----------------|----------------------|----------------|----------------|----------------|---------------------------|
| GST 04 | 72 | 48 | 61 | 8 | 51 | M5x10 |
| GST 05 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| GST 06 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| GST 07 | 140 | 100 | 120 | 13 | 97 | M10x8 |
| GST 09 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| GST 11 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| GST 14 | 265 | 195 | 230 | 22 | 187 | M20x34 |

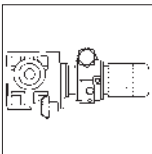
4

Output design VAL



| Gearbox size | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4 x 90° |
|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|
| GST 04 | 120 | 80 | 10 | 100 | 3 | 40 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| GST 05 | 120 | 80 | 10 | 100 | 3 | 50 | M6 |
| | 140 | 95 | | 115 | 3 | | M8 |
| | 160 | 110 | | 130 | 3.5 | | M8 |
| GST 06 | 160 | 110 | 12 | 130 | 3.5 | 60 | M8 |
| | 200 | 130 | | 165 | | | M10 |
| GST 07 | 200 | 130 | 14 | 165 | 3.5 | 80 | M10 |
| | 250 | 180 | 15 | 215 | 4 | | M12 |
| GST 09 | 250 | 180 | 16 | 215 | 4 | 100 | M12 |
| | 300 | 230 | 18 | 265 | | | |
| GST 11 | 300 | 230 | 18 | 265 | 4 | 120 | M12 |
| | 350 | 250 | 20 | 300 | 5 | | M16 |
| GST 14 | 350 | 250 | 22 | 300 | 5 | 160 | M16 |
| | 400 | 300 | 24 | 350 | | | |

Dimensions in [mm]



Disco variable speed drives

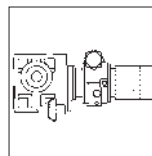
Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|---|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.25 kW | 182 - 30 | 9.7 - 20 | 5.123 | GKS □□ - 3D GKS04 - 3D □□□ 071-12 02C | 4-40 | |
| | 132 - 22 | 13 - 27 | 7.025 | GKS04 - 3D □□□ 071-12 02C | | |
| | 114 - 19 | 16 - 31 | 8.167 | GKS04 - 3D □□□ 071-12 02C | | |
| | 95 - 16 | 19 - 37 | 9.836 | GKS04 - 3D □□□ 071-12 02C | | |
| | 71 - 12 | 25 - 50 | 13.067 | GKS04 - 3D □□□ 071-12 02C | | |
| | 58 - 9.6 | 31 - 61 | 16.087 | GKS04 - 3D □□□ 071-12 02C | | |
| | 45 - 7.5 | 39 - 78 | 20.588 | GKS04 - 3D □□□ 071-12 02C | | |
| | 37 - 6.2 | 48 - 95 | 25.088 | GKS04 - 3D □□□ 071-12 02C | | |
| | 29 - 4.8 | 61 - 122 | 32.000 | GKS04 - 3D □□□ 071-12 02C | | |
| | 24 - 4.0 | 75 - 149 | 39.200 | GKS04 - 3D □□□ 071-12 02C | | |
| | 18 - 3.0 | 97 - 182 | 50.943 | GKS04 - 3D □□□ 071-12 02C | | |
| | 14 - 2.4 | 123 - 183 | 64.978 | GKS04 - 3D □□□ 071-12 02C | | |
| | 14 - 2.3 | 127 - 253 | 66.592 | GKS05 - 3D □□□ 071-12 02C | | |
| | 12 - 2.0 | 151 - 183 | 79.598 | GKS04 - 3D □□□ 071-12 02C | | |
| | 11 - 1.9 | 157 - 315 | 82.833 | GKS05 - 3D □□□ 071-12 02C | | |
| | 9.3 - 1.6 | 185 - 185 | 100.067 | GKS04 - 3D □□□ 071-12 02C | | |
| | 8.7 - 1.5 | 204 - 331 | 107.196 | GKS05 - 3D □□□ 071-12 02C | | |
| | 8.9 - 1.5 | 199 - 399 | 104.967 | GKS06 - 3D □□□ 071-12 02C | | |
| | 7.2 - 1.2 | 247 - 331 | 130.097 | GKS05 - 3D □□□ 071-12 02C | | |
| | 7.3 - 1.2 | 242 - 484 | 127.392 | GKS06 - 3D □□□ 071-12 02C | | |
| | 5.8 - 1.0 | 306 - 612 | 161.029 | GKS06 - 3D □□□ 071-12 02C | | |
| | 4.3 - 0.7 | 407 - 635 | 214.133 | GKS06 - 3D □□□ 071-12 02C | | |
| | 4.5 - 0.8 | 395 - 790 | 208.000 | GKS07 - 3D □□□ 071-12 02C | | |
| | 3.6 - 0.6 | 494 - 635 | 259.880 | GKS06 - 3D □□□ 071-12 02C | | |
| | 3.7 - 0.6 | 480 - 959 | 252.436 | GKS07 - 3D □□□ 071-12 02C | | |
| | 2.8 - 0.5 | 624 - 635 | 328.500 | GKS06 - 3D □□□ 071-12 02C | | |
| | 2.9 - 0.5 | 606 - 1212 | 319.091 | GKS07 - 3D □□□ 071-12 02C | | |
| | 2.3 - 0.4 | 746 - 1320 | 399.353 | GKS07 - 4D □□□ 071-12 02C | | |
| | 2.3 - 0.4 | 751 - 1502 | 402.234 | GKS09 - 4D □□□ 071-12 02C | | |
| | 1.8 - 0.3 | 965 - 1320 | 516.810 | GKS07 - 4D □□□ 071-12 02C | | |
| | 1.8 - 0.3 | 972 - 1944 | 520.538 | GKS09 - 4D □□□ 071-12 02C | | |
| | | | | GKS □□ - 4D | | 4-44 |
| | 1.5 - 0.2 | 1189 - 1330 | 636.581 | GKS07 - 4D □□□ 071-12 02C | | |
| 1.5 - 0.3 | 1180 - 2360 | 631.744 | GKS09 - 4D □□□ 071-12 02C | | | |
| 1.1 - 0.2 | 1527 - 3031 | 817.551 | GKS09 - 4D □□□ 071-12 02C | | | |
| 0.9 - 0.2 | 1853 - 3031 | 992.209 | GKS09 - 4D □□□ 071-12 02C | | | |
| 0.9 - 0.2 | 1850 - 3701 | 990.879 | GKS11 - 4D □□□ 071-12 02C | | | |
| 0.7 - 0.1 | 2342 - 3031 | 1254.197 | GKS09 - 4D □□□ 071-12 02C | | | |
| 0.7 - 0.1 | 2339 - 4678 | 1252.516 | GKS11 - 4D □□□ 071-12 02C | | | |
| 0.7 - 0.1 | 2640 - 3080 | 1413.461 | GKS09 - 4D □□□ 071-12 02C | | | |
| 0.7 - 0.1 | 2636 - 5271 | 1411.286 | GKS11 - 4D □□□ 071-12 02C | | | |
| 0.37 kW | 363 - 61 | 7.8 - 16 | 5.123 | GKS □□ - 3D GKS04 - 3D □□□ 071-11 02C | 4-40 | |
| | 265 - 44 | 11 - 21 | 7.025 | GKS04 - 3D □□□ 071-11 02C | | |
| | 228 - 38 | 12 - 25 | 8.167 | GKS04 - 3D □□□ 071-11 02C | | |

Thermal limit not considered (see note on page 3-12)

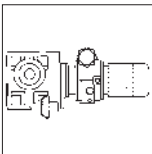
Disco variable speed drives

Selection tables with helical-bevel gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.37 kW | | | | GKS □□ - 3D | 4-40 |
| | 189 - 32 | 15 - 30 | 9.836 | GKS04 - 3D □□□ 071-11 02C | |
| | 142 - 24 | 20 - 40 | 13.067 | GKS04 - 3D □□□ 071-11 02C | |
| | 116 - 19 | 24 - 49 | 16.087 | GKS04 - 3D □□□ 071-11 02C | |
| | 90 - 15 | 31 - 63 | 20.588 | GKS04 - 3D □□□ 071-11 02C | |
| | 74 - 12 | 38 - 76 | 25.088 | GKS04 - 3D □□□ 071-11 02C | |
| | 58 - 9.7 | 49 - 97 | 32.000 | GKS04 - 3D □□□ 071-11 02C | |
| | 47 - 7.9 | 60 - 119 | 39.200 | GKS04 - 3D □□□ 071-11 02C | |
| | 37 - 6.1 | 77 - 155 | 50.943 | GKS04 - 3D □□□ 071-11 02C | |
| | 29 - 4.8 | 99 - 183 | 64.978 | GKS04 - 3D □□□ 071-11 02C | |
| | 23 - 3.9 | 121 - 183 | 79.598 | GKS04 - 3D □□□ 071-11 02C | |
| | 23 - 3.7 | 126 - 252 | 82.833 | GKS05 - 3D □□□ 071-11 02C | |
| | 19 - 3.1 | 152 - 185 | 100.067 | GKS04 - 3D □□□ 071-11 02C | |
| | 17 - 2.9 | 163 - 326 | 107.196 | GKS05 - 3D □□□ 071-11 02C | |
| | 14 - 2.4 | 198 - 331 | 130.097 | GKS05 - 3D □□□ 071-11 02C | |
| | 15 - 2.4 | 194 - 387 | 127.392 | GKS06 - 3D □□□ 071-11 02C | |
| | 12 - 1.9 | 245 - 490 | 161.029 | GKS06 - 3D □□□ 071-11 02C | |
| | 8.7 - 1.5 | 325 - 635 | 214.133 | GKS06 - 3D □□□ 071-11 02C | |
| | 7.2 - 1.2 | 395 - 635 | 259.880 | GKS06 - 3D □□□ 071-11 02C | |
| | 7.4 - 1.2 | 384 - 767 | 252.436 | GKS07 - 3D □□□ 071-11 02C | |
| | 5.7 - 0.9 | 499 - 635 | 328.500 | GKS06 - 3D □□□ 071-11 02C | |
| | 5.8 - 1.0 | 485 - 970 | 319.091 | GKS07 - 3D □□□ 071-11 02C | |
| | | | | GKS □□ - 4D | 4-44 |
| | 4.6 - 0.8 | 610 - 702 | 408.000 | GKS06 - 4D □□□ 071-11 02C | |
| | 4.7 - 0.8 | 597 - 1193 | 399.353 | GKS07 - 4D □□□ 071-11 02C | |
| | 3.6 - 0.6 | 772 - 1320 | 516.810 | GKS07 - 4D □□□ 071-11 02C | |
| | 3.6 - 0.6 | 778 - 1555 | 520.538 | GKS09 - 4D □□□ 071-11 02C | |
| | 2.9 - 0.5 | 951 - 1330 | 636.581 | GKS07 - 4D □□□ 071-11 02C | |
| | 2.9 - 0.5 | 944 - 1888 | 631.744 | GKS09 - 4D □□□ 071-11 02C | |
| | 2.3 - 0.4 | 1231 - 1330 | 823.810 | GKS07 - 4D □□□ 071-11 02C | |
| | 2.3 - 0.4 | 1221 - 2443 | 817.551 | GKS09 - 4D □□□ 071-11 02C | |
| | 1.9 - 0.3 | 1482 - 2965 | 992.209 | GKS09 - 4D □□□ 071-11 02C | |
| 1.5 - 0.3 | 1874 - 3031 | 1254.197 | GKS09 - 4D □□□ 071-11 02C | | |
| 1.5 - 0.3 | 1871 - 3742 | 1252.516 | GKS11 - 4D □□□ 071-11 02C | | |
| 1.3 - 0.2 | 2112 - 3080 | 1413.461 | GKS09 - 4D □□□ 071-11 02C | | |
| 1.3 - 0.2 | 2108 - 4217 | 1411.286 | GKS11 - 4D □□□ 071-11 02C | | |
| 0.55 kW | | | | GKS □□ - 3D | 4-40 |
| | 375 - 65 | 11 - 21 | 5.123 | GKS04 - 3D □□□ 071-31 03C | |
| | 273 - 48 | 15 - 29 | 7.025 | GKS04 - 3D □□□ 071-31 03C | |
| | 235 - 41 | 17 - 34 | 8.167 | GKS04 - 3D □□□ 071-31 03C | |
| | 195 - 34 | 21 - 41 | 9.836 | GKS04 - 3D □□□ 071-31 03C | |
| | 147 - 26 | 27 - 55 | 13.067 | GKS04 - 3D □□□ 071-31 03C | |
| | 119 - 21 | 34 - 67 | 16.087 | GKS04 - 3D □□□ 071-31 03C | |
| | 93 - 16 | 43 - 86 | 20.588 | GKS04 - 3D □□□ 071-31 03C | |
| | 77 - 13 | 52 - 105 | 25.088 | GKS04 - 3D □□□ 071-31 03C | |
| | 60 - 11 | 67 - 134 | 32.000 | GKS04 - 3D □□□ 071-31 03C | |
| | 49 - 8.6 | 82 - 164 | 39.200 | GKS04 - 3D □□□ 071-31 03C | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

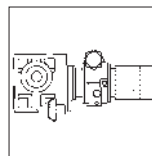
Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.55 kW | | | | GKS □□ - 3D | 4-40 |
| | 38 - 6.6 | 107 - 182 | 50.943 | GKS04 - 3D □□□ 071-31 03C | |
| | 30 - 5.2 | 136 - 183 | 64.978 | GKS04 - 3D □□□ 071-31 03C | |
| | 29 - 5.0 | 139 - 278 | 66.592 | GKS05 - 3D □□□ 071-31 03C | |
| | 24 - 4.2 | 166 - 183 | 79.598 | GKS04 - 3D □□□ 071-31 03C | |
| | 23 - 4.0 | 173 - 331 | 82.833 | GKS05 - 3D □□□ 071-31 03C | |
| | 18 - 3.1 | 224 - 331 | 107.196 | GKS05 - 3D □□□ 071-31 03C | |
| | 18 - 3.2 | 219 - 439 | 104.967 | GKS06 - 3D □□□ 071-31 03C | |
| | 15 - 2.6 | 272 - 331 | 130.097 | GKS05 - 3D □□□ 071-31 03C | |
| | 15 - 2.6 | 266 - 532 | 127.392 | GKS06 - 3D □□□ 071-31 03C | |
| | 12 - 2.1 | 337 - 635 | 161.029 | GKS06 - 3D □□□ 071-31 03C | |
| | 9.0 - 1.6 | 448 - 635 | 214.133 | GKS06 - 3D □□□ 071-31 03C | |
| | 9.2 - 1.6 | 435 - 869 | 208.000 | GKS07 - 3D □□□ 071-31 03C | |
| | 7.4 - 1.3 | 543 - 635 | 259.880 | GKS06 - 3D □□□ 071-31 03C | |
| | 7.6 - 1.3 | 528 - 1055 | 252.436 | GKS07 - 3D □□□ 071-31 03C | |
| | 6.0 - 1.1 | 667 - 1215 | 319.091 | GKS07 - 3D □□□ 071-31 03C | |
| | | | | GKS □□ - 4D | 4-44 |
| | 4.8 - 0.8 | 820 - 1320 | 399.353 | GKS07 - 4D □□□ 071-31 03C | |
| | 4.8 - 0.8 | 826 - 1653 | 402.234 | GKS09 - 4D □□□ 071-31 03C | |
| | 3.7 - 0.7 | 1062 - 1320 | 516.810 | GKS07 - 4D □□□ 071-31 03C | |
| | 3.7 - 0.6 | 1069 - 2139 | 520.538 | GKS09 - 4D □□□ 071-31 03C | |
| | 3.0 - 0.5 | 1298 - 2595 | 631.744 | GKS09 - 4D □□□ 071-31 03C | |
| | 2.4 - 0.4 | 1679 - 3031 | 817.551 | GKS09 - 4D □□□ 071-31 03C | |
| | 2.4 - 0.4 | 1677 - 3354 | 816.455 | GKS11 - 4D □□□ 071-31 03C | |
| | 1.9 - 0.3 | 2038 - 3031 | 992.209 | GKS09 - 4D □□□ 071-31 03C | |
| | 1.9 - 0.3 | 2035 - 4071 | 990.879 | GKS11 - 4D □□□ 071-31 03C | |
| | 1.5 - 0.3 | 2576 - 3031 | 1254.197 | GKS09 - 4D □□□ 071-31 03C | |
| | 1.5 - 0.3 | 2573 - 5146 | 1252.516 | GKS11 - 4D □□□ 071-31 03C | |
| 1.4 - 0.2 | 2837 - 3080 | 1413.461 | GKS09 - 4D □□□ 071-31 03C | | |
| 1.4 - 0.2 | 2899 - 5798 | 1411.286 | GKS11 - 4D □□□ 071-31 03C | | |
| 0.75 kW | | | | GKS □□ - 3D | 4-40 |
| | 185 - 32 | 29 - 58 | 5.123 | GKS04 - 3D □□□ 080-32 04D | |
| | 135 - 24 | 40 - 80 | 7.025 | GKS04 - 3D □□□ 080-32 04D | |
| | 116 - 20 | 47 - 93 | 8.167 | GKS04 - 3D □□□ 080-32 04D | |
| | 97 - 17 | 56 - 106 | 9.836 | GKS04 - 3D □□□ 080-32 04D | |
| | 90 - 16 | 60 - 121 | 10.569 | GKS05 - 3D □□□ 080-32 04D | |
| | 73 - 13 | 75 - 149 | 13.067 | GKS04 - 3D □□□ 080-32 04D | |
| | 59 - 10 | 92 - 181 | 16.087 | GKS04 - 3D □□□ 080-32 04D | |
| | 46 - 8.0 | 117 - 182 | 20.588 | GKS04 - 3D □□□ 080-32 04D | |
| | 49 - 8.6 | 110 - 219 | 19.216 | GKS05 - 3D □□□ 080-32 04D | |
| | 36 - 6.3 | 150 - 298 | 26.353 | GKS05 - 3D □□□ 080-32 04D | |

Thermal limit not considered (see note on page 3-12)

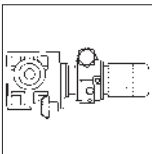
Disco variable speed drives

Selection tables with helical-bevel gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------------------------|--|--------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.75 kW | 29 - 5.0 | 187 - 331 | 32.744 | GKS □□ - 3D GKS05 - 3D □□□ 080-32 04D GKS06 - 3D □□□ 080-32 04D | 4-40 | |
| | 30 - 5.2 | 183 - 366 | 32.063 | | | |
| | 23 - 4.0 | 238 - 331 | 41.765 | GKS05 - 3D □□□ 080-32 04D | | |
| | 19 - 3.2 | 292 - 331 | 51.162 | GKS05 - 3D □□□ 080-32 04D | | |
| | 18 - 3.1 | 303 - 605 | 53.074 | GKS06 - 3D □□□ 080-32 04D | | |
| | 15 - 2.5 | 372 - 624 | 65.207 | GKS06 - 3D □□□ 080-32 04D | | |
| | 15 - 2.6 | 369 - 739 | 64.790 | GKS07 - 3D □□□ 080-32 04D | | |
| | 12 - 2.0 | 462 - 630 | 81.111 | GKS06 - 3D □□□ 080-32 04D | | |
| | 12 - 2.1 | 453 - 905 | 79.407 | GKS07 - 3D □□□ 080-32 04D | | |
| | 9.1 - 1.6 | 598 - 635 | 104.967 | GKS06 - 3D □□□ 080-32 04D | | |
| | 9.1 - 1.6 | 594 - 1189 | 104.296 | GKS07 - 3D □□□ 080-32 04D | | |
| | 7.5 - 1.3 | 721 - 1215 | 126.578 | GKS07 - 3D □□□ 080-32 04D | | |
| | 7.6 - 1.3 | 716 - 1432 | 125.641 | GKS09 - 3D □□□ 080-32 04D | | |
| | 6.0 - 1.0 | 903 - 1215 | 158.364 | GKS07 - 3D □□□ 080-32 04D | | |
| | 6.0 - 1.0 | 905 - 1810 | 158.816 | GKS09 - 3D □□□ 080-32 04D | | |
| | 4.6 - 0.8 | 1185 - 1215 | 208.000 | GKS07 - 3D □□□ 080-32 04D | | |
| | 4.6 - 0.8 | 1169 - 2338 | 205.111 | GKS09 - 3D □□□ 080-32 04D | | |
| | 3.8 - 0.7 | 1419 - 2837 | 248.930 | GKS09 - 3D □□□ 080-32 04D | | |
| | 3.4 - 0.6 | 1591 - 3031 | 279.205 | GKS09 - 3D □□□ 080-32 04D | | |
| | 3.0 - 0.5 | 1793 - 3080 | 314.659 | GKS09 - 3D □□□ 080-32 04D | | |
| | | | | GKS □□ - 4D | | 4-44 |
| | 2.4 - 0.4 | 2253 - 3031 | 402.234 | GKS09 - 4D □□□ 080-32 04D | | |
| | 2.4 - 0.4 | 2217 - 4435 | 395.787 | GKS11 - 4D □□□ 080-32 04D | | |
| | 1.8 - 0.3 | 2916 - 3031 | 520.538 | GKS09 - 4D □□□ 080-32 04D | | |
| | 1.9 - 0.3 | 2870 - 5739 | 512.195 | GKS11 - 4D □□□ 080-32 04D | | |
| | 1.5 - 0.3 | 3483 - 5975 | 621.619 | GKS11 - 4D □□□ 080-32 04D | | |
| 1.2 - 0.2 | 4574 - 5975 | 816.455 | GKS11 - 4D □□□ 080-32 04D | | | |
| 1.2 - 0.2 | 4515 - 9030 | 805.901 | GKS14 - 4D □□□ 080-32 04D | | | |
| 1.0 - 0.2 | 5551 - 5975 | 990.879 | GKS11 - 4D □□□ 080-32 04D | | | |
| 1.0 - 0.2 | 5479 - 10959 | 978.071 | GKS14 - 4D □□□ 080-32 04D | | | |
| 0.8 - 0.1 | 6926 - 11488 | 1236.326 | GKS14 - 4D □□□ 080-32 04D | | | |
| 0.7 - 0.1 | 7804 - 11639 | 1393.043 | GKS14 - 4D □□□ 080-32 04D | | | |
| 1.1 kW | 375 - 65 | 22 - 44 | 5.123 | GKS □□ - 3D GKS04 - 3D □□□ 080-31 04D | 4-40 | |
| | 273 - 48 | 30 - 60 | 7.025 | | | |
| | 235 - 41 | 35 - 70 | 8.167 | | | |
| | 195 - 34 | 42 - 84 | 9.836 | | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

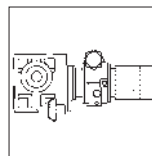
Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.1 kW | | | | GKS □□ - 3D | 4-40 |
| | 147 - 26 | 56 - 112 | 13.067 | GKS04 - 3D □□□ 080-31 04D | |
| | 119 - 21 | 69 - 138 | 16.087 | GKS04 - 3D □□□ 080-31 04D | |
| | 93 - 16 | 88 - 176 | 20.588 | GKS04 - 3D □□□ 080-31 04D | |
| | 73 - 13 | 113 - 225 | 26.353 | GKS05 - 3D □□□ 080-31 04D | |
| | 60 - 11 | 137 - 167 | 32.000 | GKS04 - 3D □□□ 080-31 04D | |
| | 59 - 10 | 140 - 280 | 32.744 | GKS05 - 3D □□□ 080-31 04D | |
| | 46 - 8.0 | 179 - 331 | 41.765 | GKS05 - 3D □□□ 080-31 04D | |
| | 38 - 6.6 | 219 - 331 | 51.162 | GKS05 - 3D □□□ 080-31 04D | |
| | 36 - 6.3 | 227 - 454 | 53.074 | GKS06 - 3D □□□ 080-31 04D | |
| | 29 - 5.0 | 285 - 331 | 66.592 | GKS05 - 3D □□□ 080-31 04D | |
| | 29 - 5.1 | 279 - 557 | 65.207 | GKS06 - 3D □□□ 080-31 04D | |
| | 24 - 4.1 | 347 - 630 | 81.111 | GKS06 - 3D □□□ 080-31 04D | |
| | 18 - 3.2 | 449 - 635 | 104.967 | GKS06 - 3D □□□ 080-31 04D | |
| | 18 - 3.2 | 446 - 892 | 104.296 | GKS07 - 3D □□□ 080-31 04D | |
| | 15 - 2.6 | 545 - 635 | 127.392 | GKS06 - 3D □□□ 080-31 04D | |
| | 15 - 2.7 | 541 - 1082 | 126.578 | GKS07 - 3D □□□ 080-31 04D | |
| | 12 - 2.1 | 677 - 1215 | 158.364 | GKS07 - 3D □□□ 080-31 04D | |
| | 12 - 2.1 | 679 - 1358 | 158.816 | GKS09 - 3D □□□ 080-31 04D | |
| | 9.2 - 1.6 | 889 - 1215 | 208.000 | GKS07 - 3D □□□ 080-31 04D | |
| | 9.4 - 1.6 | 877 - 1753 | 205.111 | GKS09 - 3D □□□ 080-31 04D | |
| | 7.6 - 1.3 | 1079 - 1215 | 252.436 | GKS07 - 3D □□□ 080-31 04D | |
| | 7.7 - 1.4 | 1064 - 2128 | 248.930 | GKS09 - 3D □□□ 080-31 04D | |
| | 6.9 - 1.2 | 1193 - 2387 | 279.205 | GKS09 - 3D □□□ 080-31 04D | |
| | 6.1 - 1.1 | 1345 - 2690 | 314.659 | GKS09 - 3D □□□ 080-31 04D | |
| | | | | GKS □□ - 4D | 4-44 |
| | 4.8 - 0.8 | 1690 - 3031 | 402.234 | GKS09 - 4D □□□ 080-31 04D | |
| | 4.9 - 0.9 | 1663 - 3326 | 395.787 | GKS11 - 4D □□□ 080-31 04D | |
| | 3.7 - 0.6 | 2187 - 3031 | 520.538 | GKS09 - 4D □□□ 080-31 04D | |
| | 3.8 - 0.7 | 2152 - 4304 | 512.195 | GKS11 - 4D □□□ 080-31 04D | |
| | 3.0 - 0.5 | 2654 - 3031 | 631.744 | GKS09 - 4D □□□ 080-31 04D | |
| | 3.1 - 0.5 | 2612 - 5224 | 621.619 | GKS11 - 4D □□□ 080-31 04D | |
| 2.4 - 0.4 | 3431 - 5975 | 816.455 | GKS11 - 4D □□□ 080-31 04D | | |
| 2.4 - 0.4 | 3386 - 6772 | 805.901 | GKS14 - 4D □□□ 080-31 04D | | |
| 1.9 - 0.3 | 4163 - 5975 | 990.879 | GKS11 - 4D □□□ 080-31 04D | | |
| 2.0 - 0.3 | 4110 - 8219 | 978.071 | GKS14 - 4D □□□ 080-31 04D | | |
| 1.5 - 0.3 | 5263 - 5975 | 1252.516 | GKS11 - 4D □□□ 080-31 04D | | |
| 1.6 - 0.3 | 5195 - 10389 | 1236.326 | GKS14 - 4D □□□ 080-31 04D | | |
| 1.4 - 0.2 | 5853 - 11639 | 1393.043 | GKS14 - 4D □□□ 080-31 04D | | |

Thermal limit not considered (see note on page 3-12)

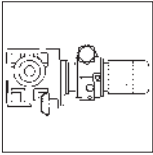
Disco variable speed drives

Selection tables with helical-bevel gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.5 kW | | | | GKS □□ - 3D | 4-40 |
| | 147 - 25 | 74 - 148 | 6.485 | GKS06 - 3D □□□ 090-32 05E | |
| | 138 - 24 | 78 - 147 | 6.863 | GKS05 - 3D □□□ 090-32 05E | |
| | 101 - 18 | 107 - 165 | 9.412 | GKS05 - 3D □□□ 090-32 05E | |
| | 103 - 18 | 105 - 210 | 9.196 | GKS06 - 3D □□□ 090-32 05E | |
| | 90 - 16 | 121 - 227 | 10.569 | GKS05 - 3D □□□ 090-32 05E | |
| | 72 - 13 | 150 - 165 | 13.176 | GKS05 - 3D □□□ 090-32 05E | |
| | 75 - 13 | 144 - 288 | 12.612 | GKS06 - 3D □□□ 090-32 05E | |
| | 59 - 10 | 182 - 280 | 16.000 | GKS05 - 3D □□□ 090-32 05E | |
| | 57 - 9.9 | 190 - 381 | 16.699 | GKS06 - 3D □□□ 090-32 05E | |
| | 49 - 8.6 | 219 - 297 | 19.216 | GKS05 - 3D □□□ 090-32 05E | |
| | 47 - 8.1 | 232 - 463 | 20.329 | GKS06 - 3D □□□ 090-32 05E | |
| | 36 - 6.3 | 298 - 298 | 26.353 | GKS05 - 3D □□□ 090-32 05E | |
| | 37 - 6.3 | 297 - 593 | 26.017 | GKS06 - 3D □□□ 090-32 05E | |
| | 30 - 5.2 | 366 - 610 | 32.063 | GKS06 - 3D □□□ 090-32 05E | |
| | 30 - 5.2 | 363 - 726 | 31.858 | GKS07 - 3D □□□ 090-32 05E | |
| | 23 - 4.0 | 473 - 689 | 41.472 | GKS06 - 3D □□□ 090-32 05E | |
| | 24 - 4.2 | 452 - 904 | 39.662 | GKS09 - 3D □□□ 090-32 05E | |
| | 18 - 3.1 | 605 - 695 | 53.074 | GKS06 - 3D □□□ 090-32 05E | |
| | 19 - 3.3 | 574 - 1148 | 50.345 | GKS07 - 3D □□□ 090-32 05E | |
| | 15 - 2.6 | 739 - 1195 | 64.790 | GKS07 - 3D □□□ 090-32 05E | |
| | 14 - 2.5 | 751 - 1502 | 65.879 | GKS09 - 3D □□□ 090-32 05E | |
| | 12 - 2.1 | 905 - 1205 | 79.407 | GKS07 - 3D □□□ 090-32 05E | |
| | 12 - 2.1 | 912 - 1824 | 79.996 | GKS09 - 3D □□□ 090-32 05E | |
| | 9.1 - 1.6 | 1189 - 1215 | 104.296 | GKS07 - 3D □□□ 090-32 05E | |
| | 9.2 - 1.6 | 1180 - 2360 | 103.524 | GKS09 - 3D □□□ 090-32 05E | |
| | 7.6 - 1.3 | 1432 - 2864 | 125.641 | GKS09 - 3D □□□ 090-32 05E | |
| | 6.0 - 1.0 | 1810 - 3080 | 158.816 | GKS09 - 3D □□□ 090-32 05E | |
| | 6.0 - 1.0 | 1808 - 3615 | 158.571 | GKS11 - 3D □□□ 090-32 05E | |
| | 4.6 - 0.8 | 2338 - 3080 | 205.111 | GKS09 - 3D □□□ 090-32 05E | |
| | 4.5 - 0.8 | 2396 - 4792 | 210.222 | GKS11 - 3D □□□ 090-32 05E | |
| | 3.8 - 0.7 | 2837 - 3080 | 248.930 | GKS09 - 3D □□□ 090-32 05E | |
| 3.7 - 0.7 | 2908 - 5816 | 255.133 | GKS11 - 3D □□□ 090-32 05E | | |
| 3.4 - 0.6 | 3031 - 3031 | 279.205 | GKS09 - 3D □□□ 090-32 05E | | |
| 3.3 - 0.6 | 3262 - 5975 | 286.219 | GKS11 - 3D □□□ 090-32 05E | | |
| 3.0 - 0.5 | 3676 - 5892 | 322.500 | GKS11 - 3D □□□ 090-32 05E | | |
| | | | GKS □□ - 4D | 4-44 | |
| 2.4 - 0.4 | 4435 - 5973 | 395.787 | GKS11 - 4D □□□ 090-32 05E | | |
| 2.4 - 0.4 | 4377 - 8755 | 390.672 | GKS14 - 4D □□□ 090-32 05E | | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

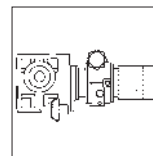
Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.5 kW | | | | GKS □□ - 4D | 4-44 |
| | 1.9 - 0.3 | 5739 - 5975 | 512.195 | GKS11 - 4D □□□ 090-32 05E | |
| | 1.9 - 0.3 | 5749 - 11488 | 513.121 | GKS14 - 4D □□□ 090-32 05E | |
| | 1.5 - 0.3 | 6978 - 11488 | 622.742 | GKS14 - 4D □□□ 090-32 05E | |
| | 1.2 - 0.2 | 9030 - 11488 | 805.901 | GKS14 - 4D □□□ 090-32 05E | |
| | 1.1 - 0.2 | 10174 - 11639 | 908.058 | GKS14 - 4D □□□ 090-32 05E | |
| | 1.0 - 0.2 | 10959 - 11488 | 978.071 | GKS14 - 4D □□□ 090-32 05E | |
| 2.2 kW | | | | GKS □□ - 3D | 4-40 |
| | 296 - 52 | 55 - 111 | 6.485 | GKS06 - 3D □□□ 090-31 05E | |
| | 280 - 49 | 59 - 117 | 6.863 | GKS05 - 3D □□□ 090-31 05E | |
| | 204 - 36 | 81 - 161 | 9.412 | GKS05 - 3D □□□ 090-31 05E | |
| | 182 - 32 | 90 - 181 | 10.569 | GKS05 - 3D □□□ 090-31 05E | |
| | 146 - 25 | 113 - 165 | 13.176 | GKS05 - 3D □□□ 090-31 05E | |
| | 152 - 27 | 108 - 216 | 12.612 | GKS06 - 3D □□□ 090-31 05E | |
| | 120 - 21 | 137 - 274 | 16.000 | GKS05 - 3D □□□ 090-31 05E | |
| | 115 - 20 | 143 - 286 | 16.699 | GKS06 - 3D □□□ 090-31 05E | |
| | 100 - 17 | 164 - 297 | 19.216 | GKS05 - 3D □□□ 090-31 05E | |
| | 94 - 17 | 174 - 348 | 20.329 | GKS06 - 3D □□□ 090-31 05E | |
| | 73 - 13 | 225 - 298 | 26.353 | GKS05 - 3D □□□ 090-31 05E | |
| | 74 - 13 | 222 - 445 | 26.017 | GKS06 - 3D □□□ 090-31 05E | |
| | 59 - 10 | 280 - 331 | 32.744 | GKS05 - 3D □□□ 090-31 05E | |
| | 60 - 10 | 274 - 548 | 32.063 | GKS06 - 3D □□□ 090-31 05E | |
| | 46 - 8.1 | 355 - 689 | 41.472 | GKS06 - 3D □□□ 090-31 05E | |
| | 36 - 6.3 | 454 - 695 | 53.074 | GKS06 - 3D □□□ 090-31 05E | |
| | 38 - 6.7 | 430 - 861 | 50.345 | GKS07 - 3D □□□ 090-31 05E | |
| | 29 - 5.1 | 557 - 624 | 65.207 | GKS06 - 3D □□□ 090-31 05E | |
| | 30 - 5.2 | 554 - 1108 | 64.790 | GKS07 - 3D □□□ 090-31 05E | |
| | 24 - 4.2 | 679 - 1205 | 79.407 | GKS07 - 3D □□□ 090-31 05E | |
| | 24 - 4.2 | 684 - 1368 | 79.996 | GKS09 - 3D □□□ 090-31 05E | |
| | 18 - 3.2 | 892 - 1215 | 104.296 | GKS07 - 3D □□□ 090-31 05E | |
| | 19 - 3.2 | 885 - 1770 | 103.524 | GKS09 - 3D □□□ 090-31 05E | |
| | 15 - 2.7 | 1082 - 1215 | 126.578 | GKS07 - 3D □□□ 090-31 05E | |
| | 15 - 2.7 | 1074 - 2148 | 125.641 | GKS09 - 3D □□□ 090-31 05E | |
| | 12 - 2.1 | 1358 - 2715 | 158.816 | GKS09 - 3D □□□ 090-31 05E | |
| | 9.4 - 1.6 | 1753 - 3080 | 205.111 | GKS09 - 3D □□□ 090-31 05E | |
| | 9.1 - 1.6 | 1797 - 3594 | 210.222 | GKS11 - 3D □□□ 090-31 05E | |
| | 7.7 - 1.4 | 2128 - 3080 | 248.930 | GKS09 - 3D □□□ 090-31 05E | |
| | 7.5 - 1.3 | 2181 - 4362 | 255.133 | GKS11 - 3D □□□ 090-31 05E | |

Thermal limit not considered (see note on page 3-12)

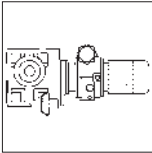
Disco variable speed drives

Selection tables with helical-bevel gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 2.2 kW | | | | GKS □□ - 3D | 4-40 |
| | 6.9 - 1.2 | 2387 - 3031 | 279.205 | GKS09 - 3D □□□ 090-31 05E | |
| | 6.7 - 1.2 | 2447 - 4894 | 286.219 | GKS11 - 3D □□□ 090-31 05E | |
| | | | | | |
| | 6.1 - 1.1 | 2690 - 3080 | 314.659 | GKS09 - 3D □□□ 090-31 05E | 4-44 |
| | 6.0 - 1.0 | 2757 - 5514 | 322.500 | GKS11 - 3D □□□ 090-31 05E | |
| | | | | GKS □□ - 4D | |
| | 4.9 - 0.9 | 3326 - 5973 | 395.787 | GKS11 - 4D □□□ 090-31 05E | |
| | 4.9 - 0.9 | 3283 - 6566 | 390.672 | GKS14 - 4D □□□ 090-31 05E | |
| | 3.8 - 0.7 | 4304 - 5975 | 512.195 | GKS11 - 4D □□□ 090-31 05E | |
| | 3.7 - 0.7 | 4312 - 8624 | 513.121 | GKS14 - 4D □□□ 090-31 05E | |
| | 3.1 - 0.5 | 5224 - 5975 | 621.619 | GKS11 - 4D □□□ 090-31 05E | |
| | 3.1 - 0.5 | 5233 - 10466 | 622.742 | GKS14 - 4D □□□ 090-31 05E | |
| | 2.4 - 0.4 | 6772 - 11488 | 805.901 | GKS14 - 4D □□□ 090-31 05E | |
| 2.0 - 0.3 | 8219 - 11488 | 978.071 | GKS14 - 4D □□□ 090-31 05E | | |
| 1.6 - 0.3 | 10389 - 11488 | 1236.326 | GKS14 - 4D □□□ 090-31 05E | | |
| 3 kW | | | | GKS □□ - 3D | 4-40 |
| | 168 - 29 | 124 - 249 | 5.955 | GKS07 - 3D □□□ 100-32 06G | |
| | 121 - 21 | 173 - 345 | 8.254 | GKS07 - 3D □□□ 100-32 06G | |
| | 99 - 17 | 212 - 423 | 10.124 | GKS07 - 3D □□□ 100-32 06G | |
| | 79 - 14 | 266 - 531 | 12.711 | GKS07 - 3D □□□ 100-32 06G | |
| | 60 - 11 | 348 - 697 | 16.674 | GKS07 - 3D □□□ 100-32 06G | |
| | 49 - 8.5 | 429 - 857 | 20.511 | GKS07 - 3D □□□ 100-32 06G | |
| | 40 - 6.9 | 528 - 1055 | 25.244 | GKS07 - 3D □□□ 100-32 06G | |
| | 31 - 5.5 | 666 - 1172 | 31.858 | GKS07 - 3D □□□ 100-32 06G | |
| | 30 - 5.3 | 688 - 1377 | 32.940 | GKS09 - 3D □□□ 100-32 06G | |
| | 24 - 4.3 | 855 - 1290 | 40.906 | GKS07 - 3D □□□ 100-32 06G | |
| | 25 - 4.4 | 829 - 1658 | 39.662 | GKS09 - 3D □□□ 100-32 06G | |
| | 20 - 3.5 | 1052 - 1300 | 50.345 | GKS07 - 3D □□□ 100-32 06G | |
| | 21 - 3.6 | 1016 - 2032 | 48.625 | GKS09 - 3D □□□ 100-32 06G | |
| | 15 - 2.7 | 1377 - 2753 | 65.879 | GKS09 - 3D □□□ 100-32 06G | |
| | 13 - 2.2 | 1672 - 3071 | 79.996 | GKS09 - 3D □□□ 100-32 06G | |
| | 13 - 2.2 | 1669 - 3338 | 79.873 | GKS11 - 3D □□□ 100-32 06G | |
| | 9.7 - 1.7 | 2160 - 4320 | 103.365 | GKS11 - 3D □□□ 100-32 06G | |
| | 8.0 - 1.4 | 2622 - 5243 | 125.448 | GKS11 - 3D □□□ 100-32 06G | |
| | 6.4 - 1.1 | 3271 - 6542 | 156.522 | GKS14 - 3D □□□ 100-32 06G | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

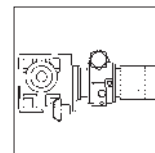
Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------|--|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 3 kW | 4.8 - 0.8 | 4393 - 5892 | 210.222 | GKS □□ - 3D | 4-40 | |
| | 4.8 - 0.8 | 4393 - 8786 | 210.222 | GKS11 - 3D □□□ 100-32 06G GKS14 - 3D □□□ 100-32 06G | | |
| | 3.9 - 0.7 | 5332 - 5892 | 255.133 | GKS11 - 3D □□□ 100-32 06G | | |
| | 3.9 - 0.7 | 5332 - 10663 | 255.133 | GKS14 - 3D □□□ 100-32 06G | | |
| | 3.5 - 0.6 | 5981 - 11609 | 286.219 | GKS14 - 3D □□□ 100-32 06G | | |
| | 3.1 - 0.5 | 6739 - 11555 | 322.500 | GKS14 - 3D □□□ 100-32 06G | | |
| | 2.6 - 0.5 | 8025 - 11454 | 390.672 | GKS □□ - 4D | | 4-44 |
| | 2.0 - 0.3 | 10540 - 11488 | 513.121 | GKS14 - 4D □□□ 100-32 06G | | |
| | 1.7 - 0.3 | 11639 - 11639 | 578.164 | GKS14 - 4D □□□ 100-32 06G | | |
| | | | | | | |
| 4 kW | 168 - 29 | 181 - 362 | 5.955 | GKS □□ - 3D | 4-40 | |
| | 121 - 21 | 251 - 502 | 8.254 | GKS07 - 3D □□□ 112-22 07G | | |
| | 99 - 17 | 308 - 615 | 10.124 | GKS07 - 3D □□□ 112-22 07G | | |
| | 79 - 14 | 386 - 773 | 12.711 | GKS07 - 3D □□□ 112-22 07G | | |
| | 60 - 11 | 507 - 1014 | 16.674 | GKS07 - 3D □□□ 112-22 07G | | |
| | 49 - 8.5 | 623 - 1110 | 20.511 | GKS07 - 3D □□□ 112-22 07G | | |
| | 40 - 6.9 | 767 - 1177 | 25.244 | GKS07 - 3D □□□ 112-22 07G | | |
| | 39 - 6.8 | 780 - 1559 | 25.649 | GKS09 - 3D □□□ 112-22 07G | | |
| | 31 - 5.5 | 968 - 1172 | 31.858 | GKS07 - 3D □□□ 112-22 07G | | |
| | 30 - 5.3 | 1001 - 2002 | 32.940 | GKS09 - 3D □□□ 112-22 07G | | |
| | 24 - 4.3 | 1243 - 1290 | 40.906 | GKS07 - 3D □□□ 112-22 07G | | |
| | 25 - 4.4 | 1206 - 2411 | 39.662 | GKS09 - 3D □□□ 112-22 07G | | |
| | 21 - 3.6 | 1478 - 2956 | 48.625 | GKS09 - 3D □□□ 112-22 07G | | |
| | 15 - 2.7 | 2002 - 3048 | 65.879 | GKS09 - 3D □□□ 112-22 07G | | |
| | 15 - 2.7 | 1976 - 3951 | 64.995 | GKS11 - 3D □□□ 112-22 07G | | |
| | 13 - 2.2 | 2432 - 3071 | 79.996 | GKS09 - 3D □□□ 112-22 07G | | |
| | 13 - 2.2 | 2428 - 4856 | 79.873 | GKS11 - 3D □□□ 112-22 07G | | |
| | 9.7 - 1.7 | 3142 - 6072 | 103.365 | GKS11 - 3D □□□ 112-22 07G | | |
| | 9.8 - 1.7 | 3101 - 6203 | 102.029 | GKS14 - 3D □□□ 112-22 07G | | |
| | 8.0 - 1.4 | 3813 - 6072 | 125.448 | GKS11 - 3D □□□ 112-22 07G | | |
| | 8.1 - 1.4 | 3764 - 7528 | 123.826 | GKS14 - 3D □□□ 112-22 07G | | |
| | 6.4 - 1.1 | 4758 - 8940 | 156.522 | GKS14 - 3D □□□ 112-22 07G | | |
| | 4.8 - 0.8 | 6390 - 11555 | 210.222 | GKS14 - 3D □□□ 112-22 07G | | |
| | 3.9 - 0.7 | 7755 - 11555 | 255.133 | GKS14 - 3D □□□ 112-22 07G | | |

Thermal limit not considered (see note on page 3-12)

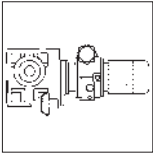
Disco variable speed drives

Selection tables with helical-bevel gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 4 kW | 3.5 - 0.6 | 8700 - 11609 | 286.219 | GKS □□ - 3D GKS14 - 3D □□□ 112-22 07G | 4-40 |
| | 3.1 - 0.5 | 9803 - 11555 | 322.500 | GKS14 - 3D □□□ 112-22 07G | 4-44 |
| | 2.6 - 0.5 | 11454 - 11454 | 390.672 | GKS □□ - 4D GKS14 - 4D □□□ 112-22 07G | |
| 5.5 kW | 168 - 34 | 255 - 471 | 5.955 | GKS □□ - 3D GKS07 - 3D □□□ 132-12 18H | 4-40 |
| | 121 - 24 | 353 - 541 | 8.254 | GKS07 - 3D □□□ 132-12 18H | |
| | 99 - 20 | 433 - 800 | 10.124 | GKS07 - 3D □□□ 132-12 18H | |
| | 79 - 16 | 543 - 832 | 12.711 | GKS07 - 3D □□□ 132-12 18H | |
| | 81 - 16 | 525 - 1050 | 12.283 | GKS09 - 3D □□□ 132-12 18H | |
| | 60 - 12 | 713 - 1071 | 16.674 | GKS07 - 3D □□□ 132-12 18H | |
| | 62 - 12 | 689 - 1378 | 16.122 | GKS09 - 3D □□□ 132-12 18H | |
| | 49 - 9.8 | 877 - 1110 | 20.511 | GKS07 - 3D □□□ 132-12 18H | |
| | 51 - 10 | 835 - 1671 | 19.541 | GKS09 - 3D □□□ 132-12 18H | |
| | 40 - 7.9 | 1079 - 1177 | 25.244 | GKS07 - 3D □□□ 132-12 18H | |
| | 39 - 7.8 | 1096 - 2193 | 25.649 | GKS09 - 3D □□□ 132-12 18H | |
| | 25 - 5.0 | 1695 - 3002 | 39.662 | GKS09 - 3D □□□ 132-12 18H | |
| | 25 - 5.0 | 1721 - 3443 | 40.272 | GKS11 - 3D □□□ 132-12 18H | |
| | 21 - 4.1 | 2078 - 3017 | 48.625 | GKS09 - 3D □□□ 132-12 18H | |
| | 20 - 4.1 | 2109 - 4217 | 49.333 | GKS11 - 3D □□□ 132-12 18H | |
| | 15 - 3.1 | 2778 - 5556 | 64.995 | GKS11 - 3D □□□ 132-12 18H | |
| | 13 - 2.5 | 3414 - 6032 | 79.873 | GKS11 - 3D □□□ 132-12 18H | |
| | 13 - 2.6 | 3320 - 6641 | 77.681 | GKS14 - 3D □□□ 132-12 18H | |
| | 9.8 - 2.0 | 4361 - 8722 | 102.029 | GKS14 - 3D □□□ 132-12 18H | |
| | 8.1 - 1.6 | 5293 - 10586 | 123.826 | GKS14 - 3D □□□ 132-12 18H | |
| 4.8 - 1.0 | 8986 - 11555 | 210.222 | GKS14 - 3D □□□ 132-12 18H | | |
| 3.9 - 0.8 | 10905 - 11555 | 255.133 | GKS14 - 3D □□□ 132-12 18H | | |
| 3.7 - 0.8 | 11243 - 11520 | 267.568 | GKS □□ - 4D GKS14 - 4D □□□ 132-12 18H | 4-44 | |
| 7.5 kW | 168 - 34 | 328 - 471 | 5.955 | GKS □□ - 3D GKS07 - 3D □□□ 132-22 08H | 4-40 |
| | 121 - 24 | 455 - 541 | 8.254 | GKS07 - 3D □□□ 132-22 08H | |
| | 99 - 20 | 558 - 800 | 10.124 | GKS07 - 3D □□□ 132-22 08H | |
| | 79 - 16 | 700 - 832 | 12.711 | GKS07 - 3D □□□ 132-22 08H | |
| | 81 - 16 | 677 - 1353 | 12.283 | GKS09 - 3D □□□ 132-22 08H | |

Thermal limit not considered (see note on page 3-12)

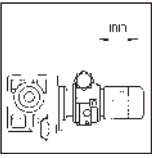


Disco variable speed drives

Selection tables with helical-bevel gearboxes

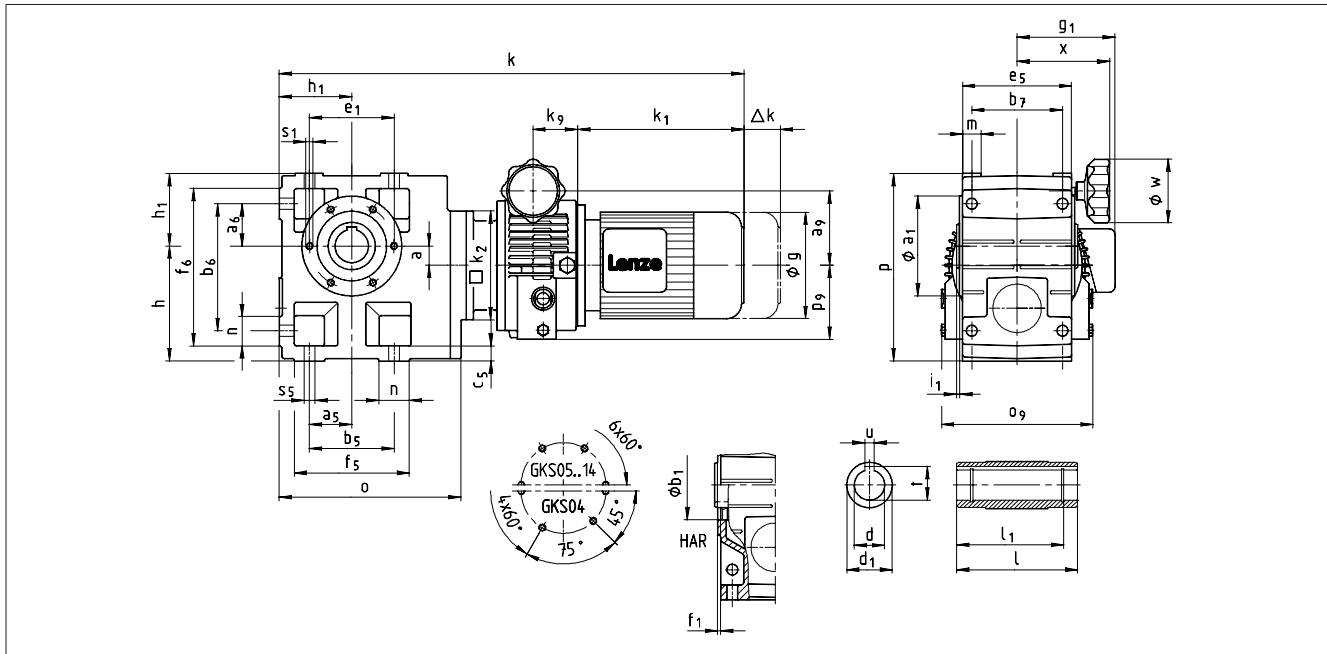
| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page | |
|----------------|--|------------------------|---------|--|--------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 7.5 kW | 60 - 12 | 919 - 1071 | 16.674 | GKS □□ - 3D GKS07 - 3D □□□ 132-22 08H GKS09 - 3D □□□ 132-22 08H | 4-40 | |
| | 62 - 12 | 888 - 1776 | 16.122 | | | |
| | 49 - 9.8 | 1110 - 1110 | 20.511 | GKS07 - 3D □□□ 132-22 08H GKS09 - 3D □□□ 132-22 08H | | |
| | 51 - 10 | 1077 - 2153 | 19.541 | | | |
| | 39 - 7.8 | 1413 - 2826 | 25.649 | GKS09 - 3D □□□ 132-22 08H | | |
| | 30 - 6.1 | 1815 - 2984 | 32.940 | GKS09 - 3D □□□ 132-22 08H GKS11 - 3D □□□ 132-22 08H | | |
| | 32 - 6.3 | 1739 - 3479 | 31.573 | | | |
| | 25 - 5.0 | 2185 - 3002 | 39.662 | GKS09 - 3D □□□ 132-22 08H GKS11 - 3D □□□ 132-22 08H | | |
| | 25 - 5.0 | 2219 - 4437 | 40.272 | | | |
| | 21 - 4.1 | 2679 - 3017 | 48.625 | GKS09 - 3D □□□ 132-22 08H GKS11 - 3D □□□ 132-22 08H | | |
| | 20 - 4.1 | 2718 - 5436 | 49.333 | | | |
| | 15 - 3.1 | 3581 - 5992 | 64.995 | GKS11 - 3D □□□ 132-22 08H GKS14 - 3D □□□ 132-22 08H | | |
| | 16 - 3.2 | 3492 - 6984 | 63.382 | | | |
| | 13 - 2.5 | 4400 - 6032 | 79.873 | GKS11 - 3D □□□ 132-22 08H GKS14 - 3D □□□ 132-22 08H | | |
| | 13 - 2.6 | 4280 - 8559 | 77.681 | | | |
| | 9.8 - 2.0 | 5621 - 11242 | 102.029 | GKS14 - 3D □□□ 132-22 08H | | |
| | 8.1 - 1.6 | 6822 - 11639 | 123.826 | GKS14 - 3D □□□ 132-22 08H | | |
| | 4.8 - 1.0 | 11555 - 11555 | 210.222 | GKS14 - 3D □□□ 132-22 08H | | |
| | 4.6 - 0.9 | 11477 - 11477 | 218.315 | GKS □□ - 4D GKS14 - 4D □□□ 132-22 08H | | 4-44 |

Thermal limit not considered (see note on page 3-12)



DISCO variable speed drives

Dimensions with helical-bevel gearboxes



4

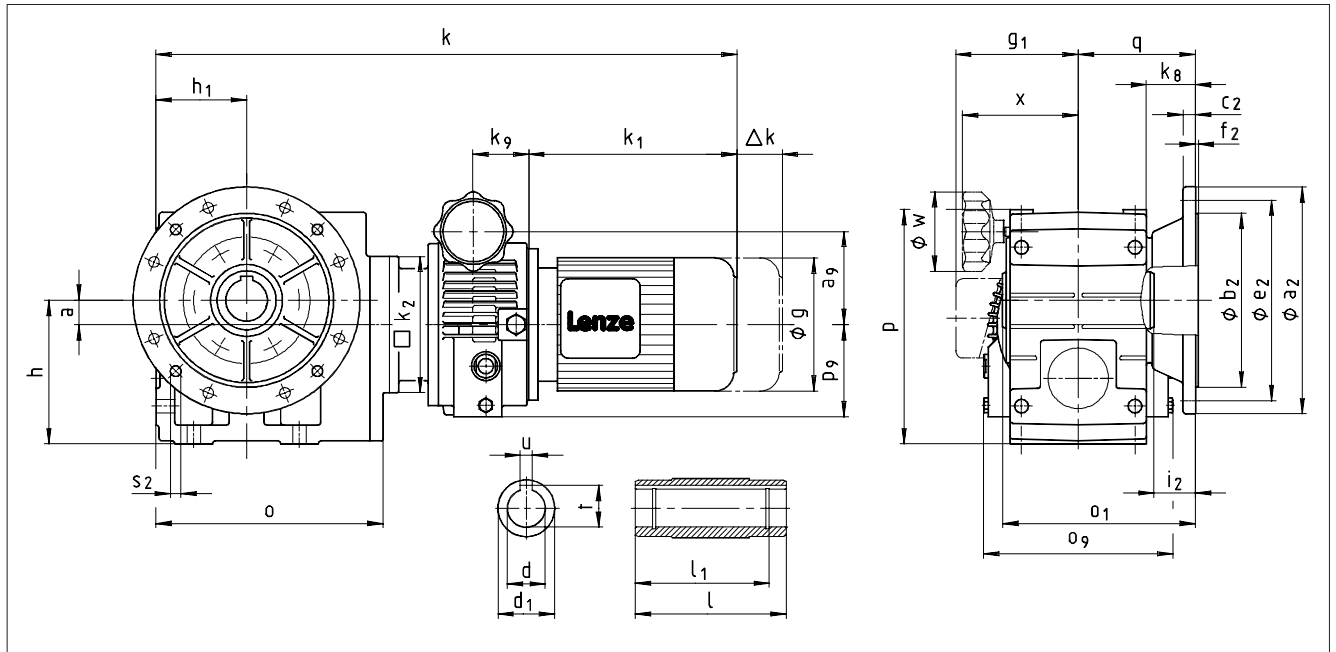
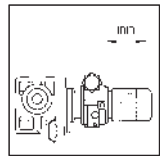
| Disco variable speed drives GKS □□ - 3 D H □ R | | Drive size | | | | | | | | | | | | |
|--|--------------------------------------|------------|-----------|------------|----------------------|-----------|---------------------|-----------|-----------|------|------|------|------|------|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | |
| | o | l* | p* | h** | h₁ | a | k | | | | | | | |
| GKS 04 | 203 | 115 | 171 | 100 | 71 | 20 | 576 | 589 | 649 | | | | | |
| GKS 05 | 232 | 140 | 205 | 125 | 80 | 23 | 596 | 609 | 669 | 781 | | | | |
| GKS 06 | 291 | 160 | 250 | 150 | 100 | 28 | 652 | 665 | 725 | 837 | | | | |
| GKS 07 | 354 | 200 | 310 | 190 | 120 | 34 | 708 | 721 | 781 | 893 | 890 | 953 | 1060 | 1060 |
| GKS 09 | 429 | 240 | 386 | 236 | 150 | 41 | 852 | | 964 | 961 | 1024 | 1131 | 1131 | |
| GKS 11 | 527 | 290 | 485 | 300 | 185 | 54 | 1055 | | | 1052 | 1115 | 1222 | 1222 | |
| GKS 14 | 636 | 350 | 605 | 375 | 230 | 67 | | | | | 1151 | 1214 | 1321 | 1321 |

| 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 | m | s ₅ |
| GKS 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 | 21 | 9 |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 52 | 33 |

Dimensions in [mm] * Observe dimension k₂ ** Observe dimension p₉ 1) Plus 80 mm for handle

Disco variable speed drives

Dimensions with helical-bevel gearboxes

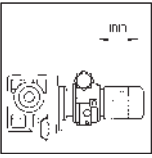


4

| Disco variable speed drives GKS □□ - 3 D HAK | | Drive size | | | | | | | | | | | | | | | | |
|--|--------------------------------------|------------------|-----------|-----------|----------------|-----------|----------------|-----------|--------------|-----|------|------|------|------|------|------|--|--|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | | |
| GKS 04 | 203 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 576 | 589 | 649 | | | | | | | |
| GKS 05 | 232 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | 596 | 609 | 669 | 781 | | | | | | |
| GKS 06 | 291 | 201 | 250 | 150 | 100 | 28 | 49 | 121 | 652 | 665 | 725 | 837 | | | | | | |
| GKS 07 | 354 | 255 | 310 | 190 | 120 | 34 | 65 | 155 | 708 | 721 | 781 | 893 | 890 | 953 | 1060 | 1060 | | |
| GKS 09 | 429 | 300 | 386 | 236 | 150 | 41 | 69 | 180 | | | 852 | 964 | 961 | 1024 | 1131 | 1131 | | |
| GKS 11 | 527 | 350 | 485 | 300 | 185 | 54 | 70 | 205 | | | 1055 | 1052 | 1115 | 1222 | 1222 | 1222 | | |
| GKS 14 | 636 | 410 | 605 | 375 | 230 | 67 | 71 | 235 | | | | 1151 | 1214 | 1321 | 1321 | 1321 | | |

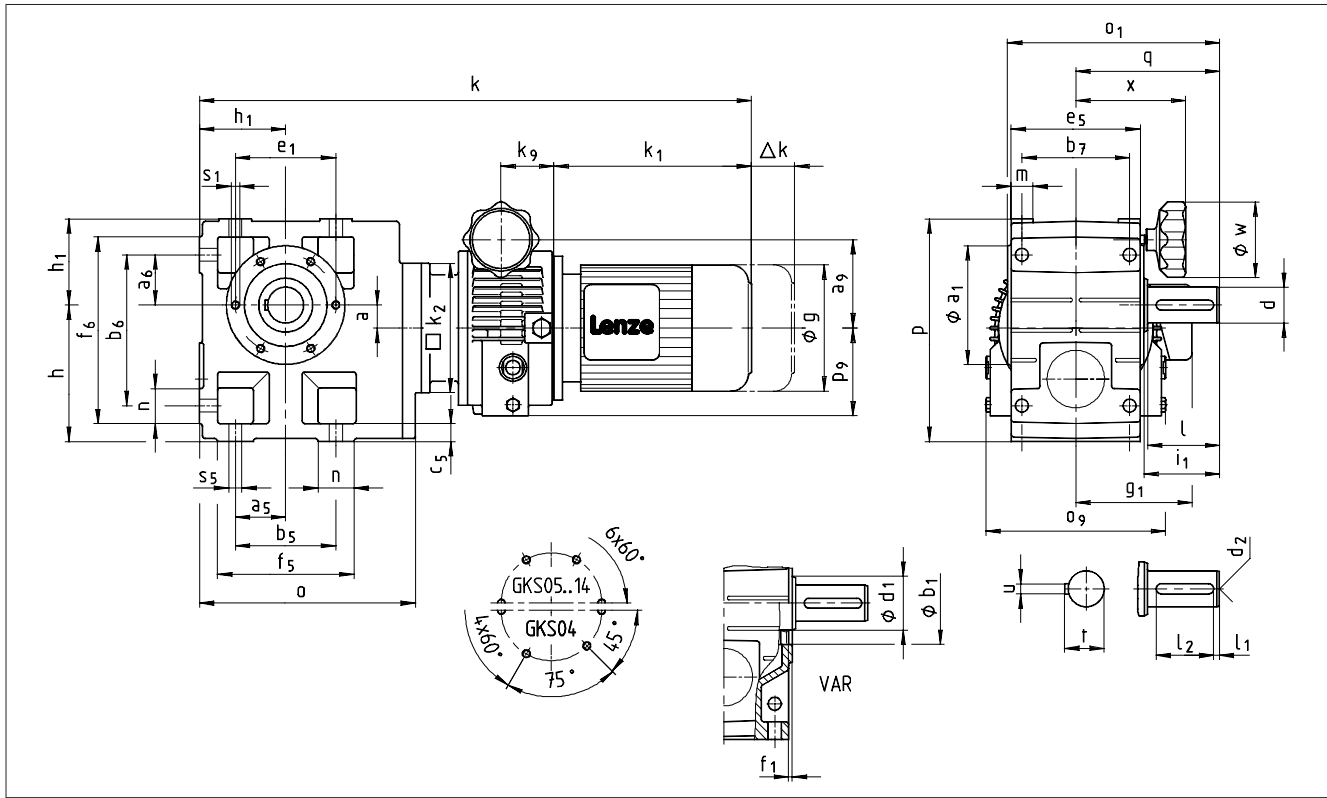
| Gearbox size | Hollow shaft | | Output flange | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|
| | 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 |
| GKS 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| GKS 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 |
| GKS 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 |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 |
| GKS 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 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 |

Dimensions in [mm] * Observe dimension k₂ ** Observe dimension p₉ 1) Plus 80 mm for handle



Disco variable speed drives

Dimensions with helical-bevel gearboxes



4

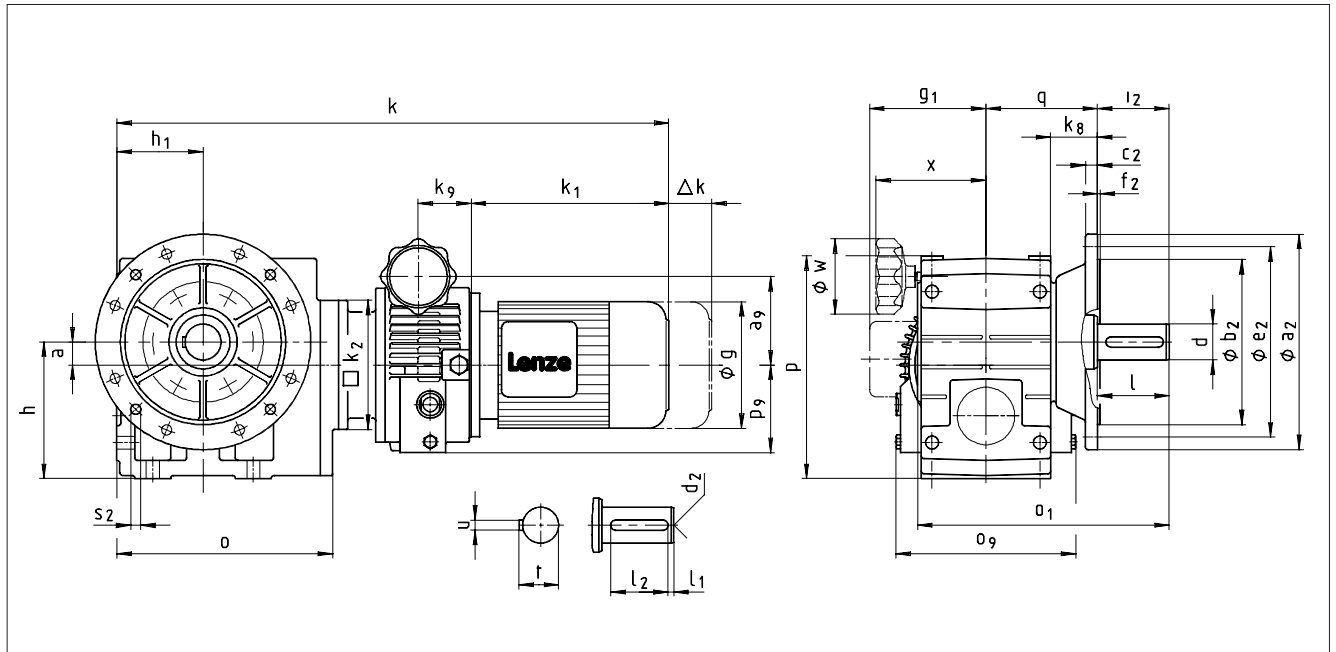
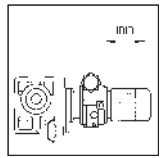
| Disco variable speed drives | | Drive size | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------------------------|------------------|-----------|-----------|----------------|-----------|-----------|--------------|-----------|-----|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|
| GKS □□ - 3 D V □ R | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | | | | | | | | | | | |
| | o | o ₁ * | p* | h** | h ₁ | a | q | k | | | | | | | | | | | | | | | | | |
| GKS 04 | 203 | 163 | 171 | 100 | 71 | 20 | 1075 | 576 | 589 | 649 | | | | | | | | | | | | | | | |
| GKS 05 | 232 | 197 | 205 | 125 | 80 | 23 | 130 | 596 | 609 | 669 | 781 | | | | | | | | | | | | | | |
| GKS 06 | 291 | 236 | 250 | 150 | 100 | 28 | 160 | 652 | 665 | 725 | 837 | | | | | | | | | | | | | | |
| GKS 07 | 354 | 296 | 310 | 190 | 120 | 34 | 200 | 708 | 721 | 781 | 893 | 890 | 953 | 1060 | 1060 | | | | | | | | | | |
| GKS 09 | 429 | 356 | 386 | 236 | 150 | 41 | 240 | | | 852 | 964 | 961 | 1024 | 1131 | 1131 | | | | | | | | | | |
| GKS 11 | 527 | 445 | 485 | 300 | 185 | 54 | 305 | | | | 1055 | 1052 | 1115 | 1222 | 1222 | | | | | | | | | | |
| GKS 14 | 636 | 544 | 605 | 375 | 230 | 67 | 375 | | | | | 1151 | 1214 | 1321 | 1321 | | | | | | | | | | |

| 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 | m | s ₅ |
| GKS 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 | 21 | 9 |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 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 | 52 | 33 |

Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂ 1) Plus 80 mm for handle
d > 50 mm: m6 ** Observe dimension p₉

Disco variable speed drives

Dimensions with helical-bevel gearboxes

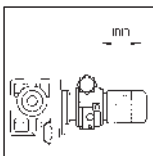


4

| Disco variable speed drives GKS □□ - 3 D VAK | | Drive size | | | | | | | | | | | | | | | |
|--|--------------------------------|------------------|-----------|-----------|----------------|-----------|----------------|-----------|--------------|-----|------|------|------|------|------|------|--|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | |
| | g ₁ Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | |
| | k ₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | |
| Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | |
| DISCO | a ₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | |
| | k ₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | |
| | k ₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | |
| | o ₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | |
| | p ₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | |
| x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | |
| | o | o ₁ * | p* | h** | h ₁ | a | k ₈ | q | k | | | | | | | | |
| GKS 04 | 203 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 576 | 589 | 649 | | | | | | |
| GKS 05 | 232 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | 596 | 609 | 669 | 781 | | | | | |
| GKS 06 | 291 | 277 | 250 | 150 | 100 | 28 | 49 | 121 | 652 | 665 | 725 | 837 | | | | | |
| GKS 07 | 354 | 351 | 310 | 190 | 120 | 34 | 65 | 155 | 708 | 721 | 781 | 893 | 890 | 953 | 1060 | 1060 | |
| GKS 09 | 429 | 416 | 386 | 236 | 150 | 41 | 69 | 180 | | | 852 | 964 | 961 | 1024 | 1131 | 1131 | |
| GKS 11 | 527 | 505 | 485 | 300 | 185 | 54 | 70 | 205 | | | 1055 | 1052 | 1115 | 1222 | 1222 | 1222 | |
| GKS 14 | 636 | 604 | 605 | 375 | 230 | 67 | 71 | 235 | | | | 1151 | 1214 | 1321 | 1321 | 1321 | |

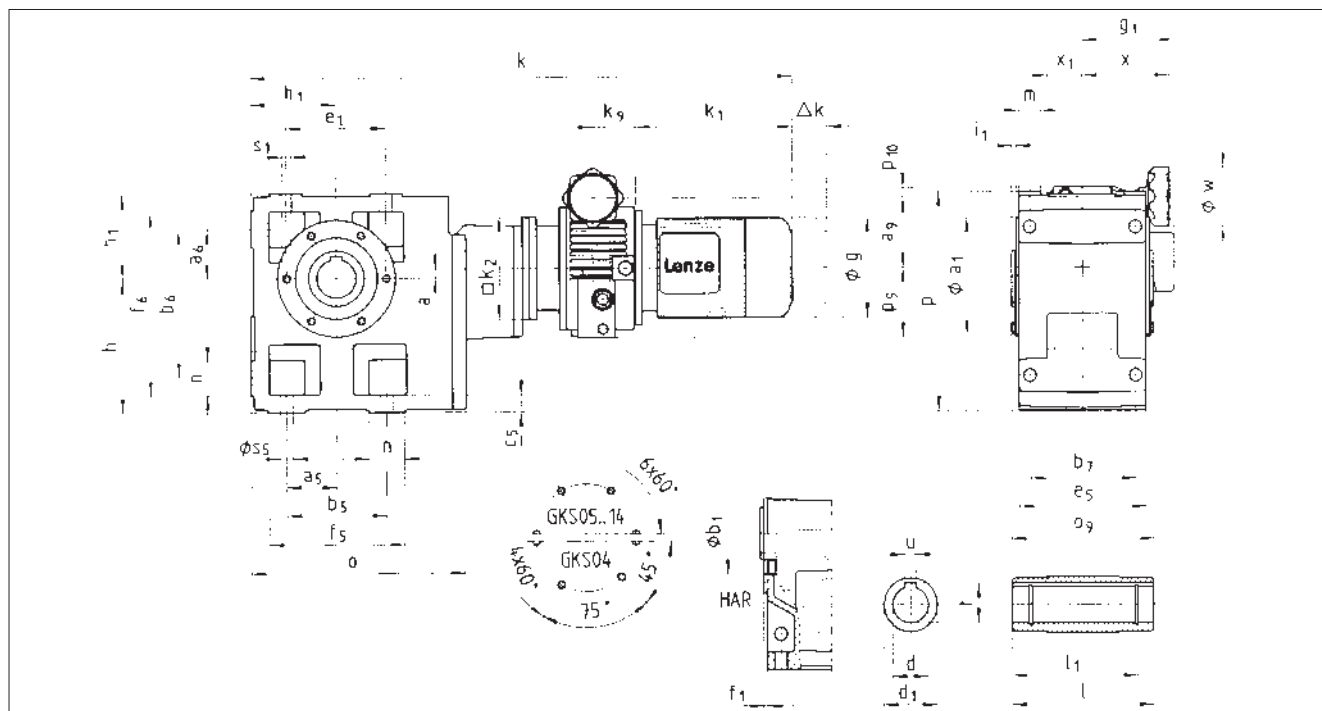
| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | 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 | |
| GKS 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| GKS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GKS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GKS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| GKS 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| GKS 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 | |
| GKS 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 * Observe dimension k₂ 1) Plus 80 mm for handle
d > 50 mm: m6 ** Observe dimension p₉



Disco variable speed drives

Dimensions with helical-bevel gearboxes



4

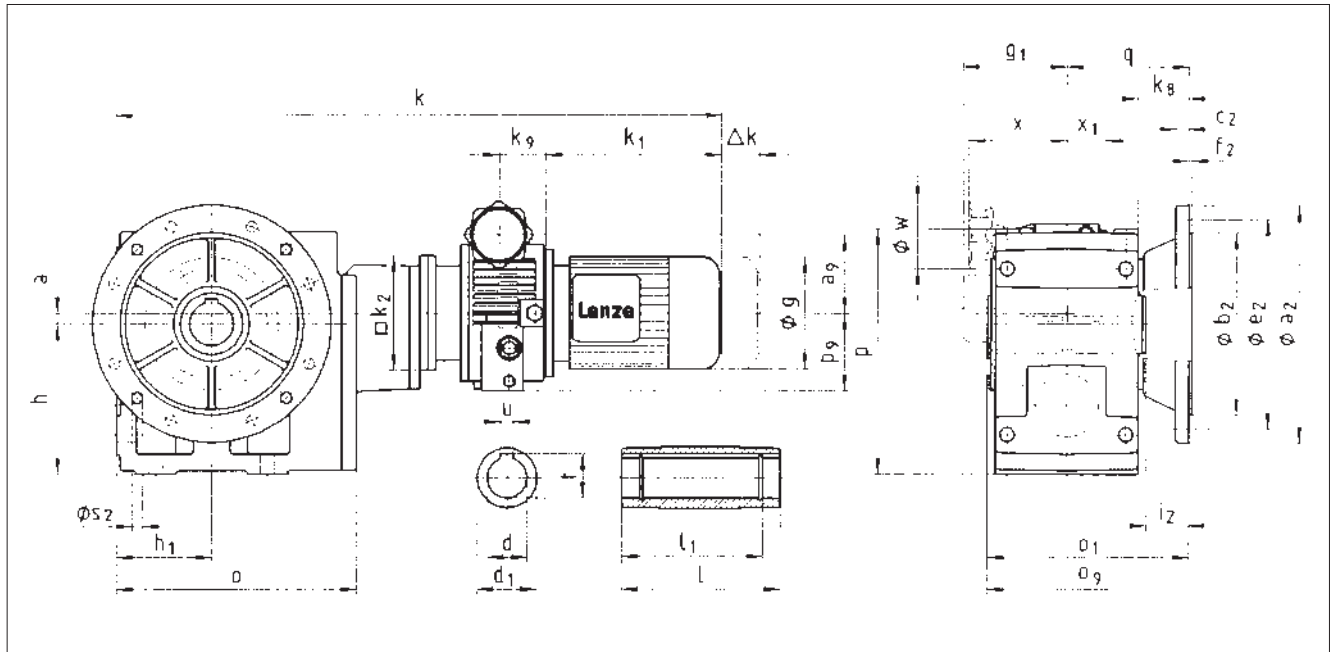
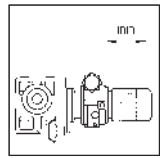
| Disco variable speed drives | | Drive size | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--------------------------------------|------------|-----------|-----------|----------------------|-----------|--------------|-----------|-----------|------|------|------|------|------|--|--|--|--|--|--|--|
| GKS □□ - 4 D H □ R | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 17 | | 26 | | | | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | | | | | | |
| | o | l* | p* | h | h₁ | a | k | | | | | | | | | | | | | | |
| GKS 05 | 226 | 140 | 205 | 125 | 80 | 13 | 672 | | | | | | | | | | | | | | |
| GKS 06 | 288 | 160 | 250 | 150 | 100 | 8 | 745 | 759 | 819 | | | | | | | | | | | | |
| GKS 07 | 351 | 200 | 310 | 190 | 120 | 11 | 812 | 826 | 886 | | | | | | | | | | | | |
| GKS 09 | 426 | 240 | 386 | 236 | 150 | 15 | 901 | 915 | 975 | 1087 | | | | | | | | | | | |
| GKS 11 | 523 | 290 | 485 | 300 | 185 | 16 | 995 | 1025 | 1085 | 1197 | 1194 | 1257 | | | | | | | | | |
| GKS 14 | 632 | 350 | 605 | 375 | 230 | 22 | | | 1218 | 1330 | 1327 | 1390 | 1497 | 1497 | | | | | | | |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|-----------------|------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d H7 | l | d₁ | l₁ | u JS9 | t +0.2 | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ 6x60° | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 52 | 33 |

Dimensions in [mm] * Observe dimension k₂ 1) Plus 80 mm for handle

Disco variable speed drives

Dimensions with helical-bevel gearboxes

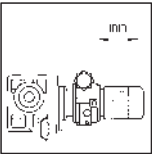


4

| Disco variable speed drives GKS □□ - 4 D HAK | | Drive size | | | | | | | | | | | | | | | | | |
|--|----------------|------------------|-----------|-----------|----------------|-----------|----------------|-----------|--------------|------|------|------|------|------|------|------|--|--|--|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | |
| | g ₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | |
| | k ₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | |
| Δk | Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | |
| DISCO | a ₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | | |
| | k ₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | | |
| | k ₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | | |
| | o ₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | | |
| | p ₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | | |
| x ₁ | 43 | 43 | 63 | 63 | 63 | | 111 | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₉ | q | k | | | | | | | | | | |
| GKS 05 | 226 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 672 | | | | | | | | | | |
| GKS 06 | 288 | 201 | 250 | 150 | 100 | 8 | 49 | 121 | 745 | 759 | 819 | | | | | | | | |
| GKS 07 | 351 | 255 | 310 | 190 | 120 | 11 | 65 | 155 | 812 | 826 | 886 | | | | | | | | |
| GKS 09 | 426 | 300 | 386 | 236 | 150 | 15 | 69 | 180 | 901 | 915 | 975 | 1087 | | | | | | | |
| GKS 11 | 523 | 350 | 485 | 300 | 185 | 16 | 70 | 205 | 995 | 1025 | 1085 | 1197 | 1194 | 1257 | | | | | |
| GKS 14 | 632 | 410 | 605 | 375 | 230 | 22 | 71 | 235 | | | 1218 | 1330 | 1327 | 1390 | 1497 | 1497 | | | |

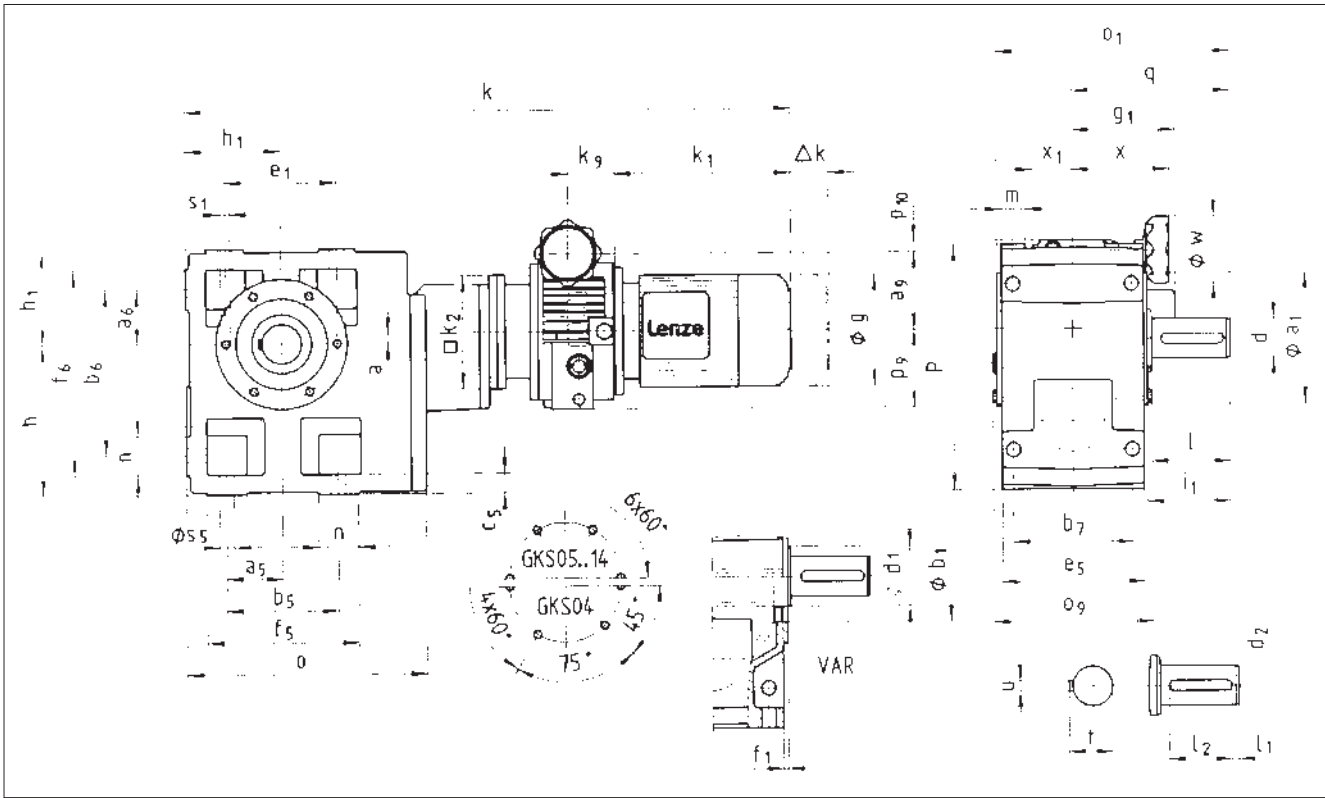
| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | 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 | |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| GKS 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 | |
| GKS 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 | |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| GKS 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 | |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 | |

Dimensions in [mm] * Observe dimension k₂ 1) Plus 80 mm for handle



Disco variable speed drives

Dimensions with helical-bevel gearboxes



4

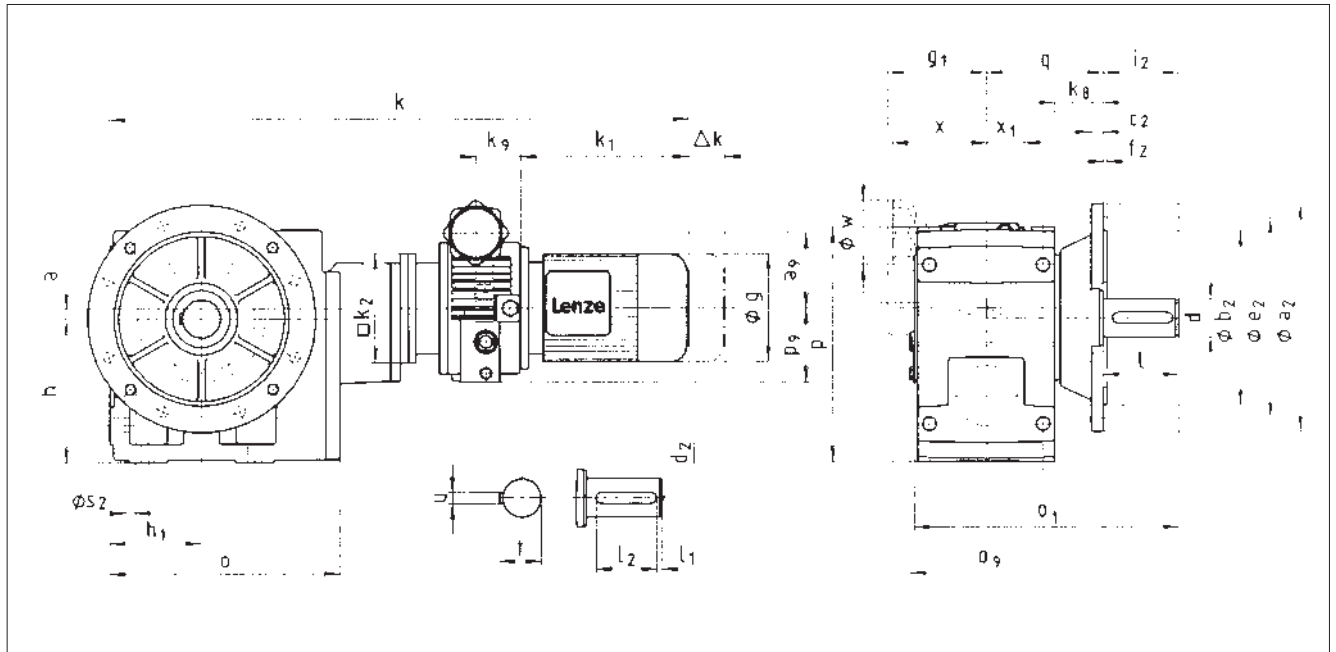
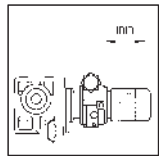
| Disco variable speed drives | | Drive size | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-----------------------|------------------|-----------|-----------|----------------|-----------|-----------|--------------|-----------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|
| GKS □□ - 4 D V □ R | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | | | | | | |
| Δk | Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | 190 | | | | | | | | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | 300 | | | | | | | | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | 104 | | | | | | | | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | 379 | | | | | | | | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | 176 | | | | | | | | | | | | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | 12 | 26 | | | | | | | | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | 160 | | | | | | | | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | 195 1) | | | | | | | | | | | | | | | | | |
| x₁ | 43 | 43 | 63 | 63 | 63 | 111 | | | | | | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | q | k | | | | | | | | | | | | | | | | |
| GKS 05 | 226 | 197 | 205 | 125 | 80 | 13 | 130 | 672 | | | | | | | | | | | | | | | | |
| GKS 06 | 288 | 236 | 250 | 150 | 100 | 8 | 160 | 745 | 759 | 819 | | | | | | | | | | | | | | |
| GKS 07 | 351 | 296 | 310 | 190 | 120 | 11 | 200 | 812 | 826 | 886 | | | | | | | | | | | | | | |
| GKS 09 | 426 | 356 | 386 | 236 | 150 | 15 | 240 | 901 | 915 | 975 | 1087 | | | | | | | | | | | | | |
| GKS 11 | 523 | 445 | 485 | 300 | 185 | 16 | 305 | 995 | 1025 | 1085 | 1197 | 1194 | 1257 | | | | | | | | | | | |
| GKS 14 | 632 | 544 | 605 | 375 | 230 | 22 | 375 | | | 1218 | 1330 | 1327 | 1390 | 1497 | 1497 | | | | | | | | | |

| 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 | m | s ₅ |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 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 | 52 | 33 |

Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm for handle

Disco variable speed drives

Dimensions with helical-bevel gearboxes

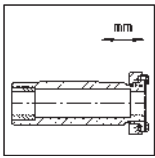


4

| Disco variable speed drives GKS □□ - 4 D VAK | | Drive size | | | | | | | | | | | | | | | | |
|--|--------------------------------------|------------------|-----------|-----------|----------------|-----------|----------------|-----------|--------------|------|------|------|------|------|------|------|--|--|
| | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | 132-12 18 | 132-22 08 | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | 190 | | | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | 300 | | | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | 104 | | | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | 379 | | | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | 176 | | | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | 160 | | | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | 195 1) | | | | | | | | | | |
| | x₁ | 43 | 43 | 63 | 63 | 63 | 63 | 111 | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | | |
| GKS 05 | 226 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 672 | | | | | | | | | |
| GKS 06 | 288 | 277 | 250 | 150 | 100 | 8 | 49 | 121 | 745 | 759 | 819 | | | | | | | |
| GKS 07 | 351 | 351 | 310 | 190 | 120 | 11 | 65 | 155 | 812 | 826 | 886 | | | | | | | |
| GKS 09 | 426 | 416 | 386 | 236 | 150 | 15 | 69 | 180 | 901 | 915 | 975 | 1087 | | | | | | |
| GKS 11 | 523 | 505 | 485 | 300 | 185 | 16 | 70 | 205 | 995 | 1025 | 1085 | 1197 | 1194 | 1257 | | | | |
| GKS 14 | 632 | 604 | 605 | 375 | 230 | 22 | 71 | 235 | | | 1218 | 1330 | 1327 | 1390 | 1497 | 1497 | | |

| 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 | |
| GKS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GKS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GKS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| GKS 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| GKS 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 | |
| GKS 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

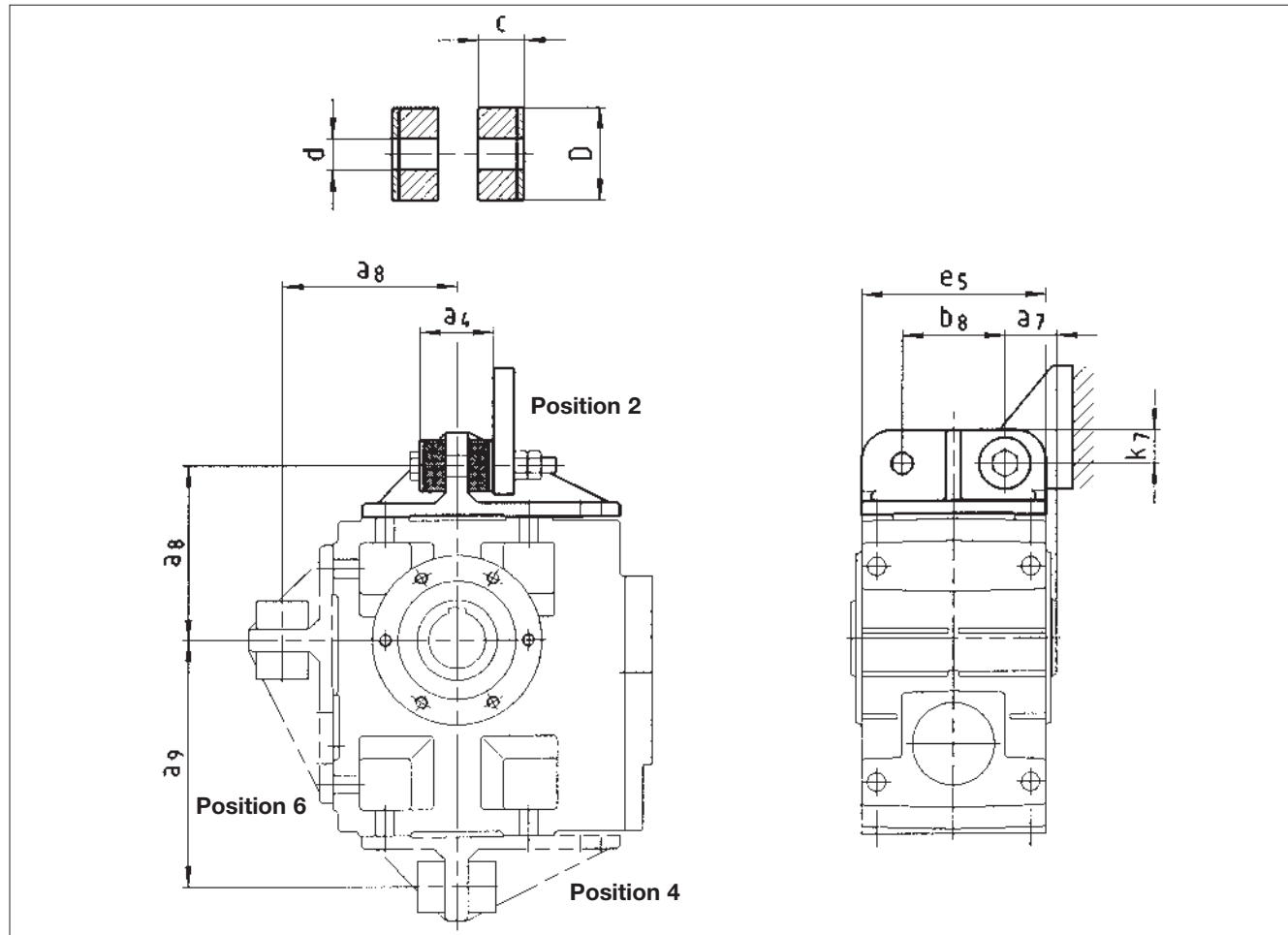
Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂
d > 50 mm: m6 1) Plus 80 mm for handle



Disco variable speed drives

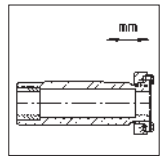
Additional dimensions GKS □ □

Torque plate at housing foot

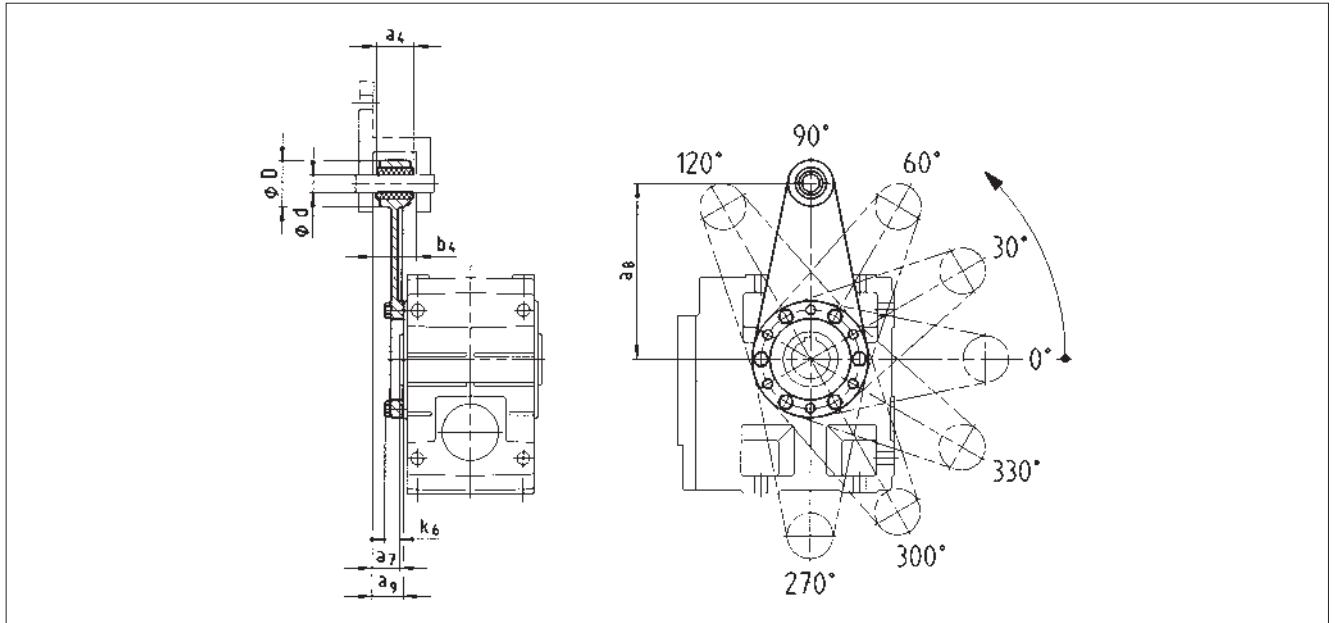


| Gearbox size | a_4 | a_7 | a_8 | a_9 | b_8 | c | d | D | e_5 | k_7 |
|--------------|-------|-------|-------|-------|-------|------|-----|-----|-------|-------|
| GKS 04 | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| GKS 05 | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| GKS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

Dimensions in [mm]

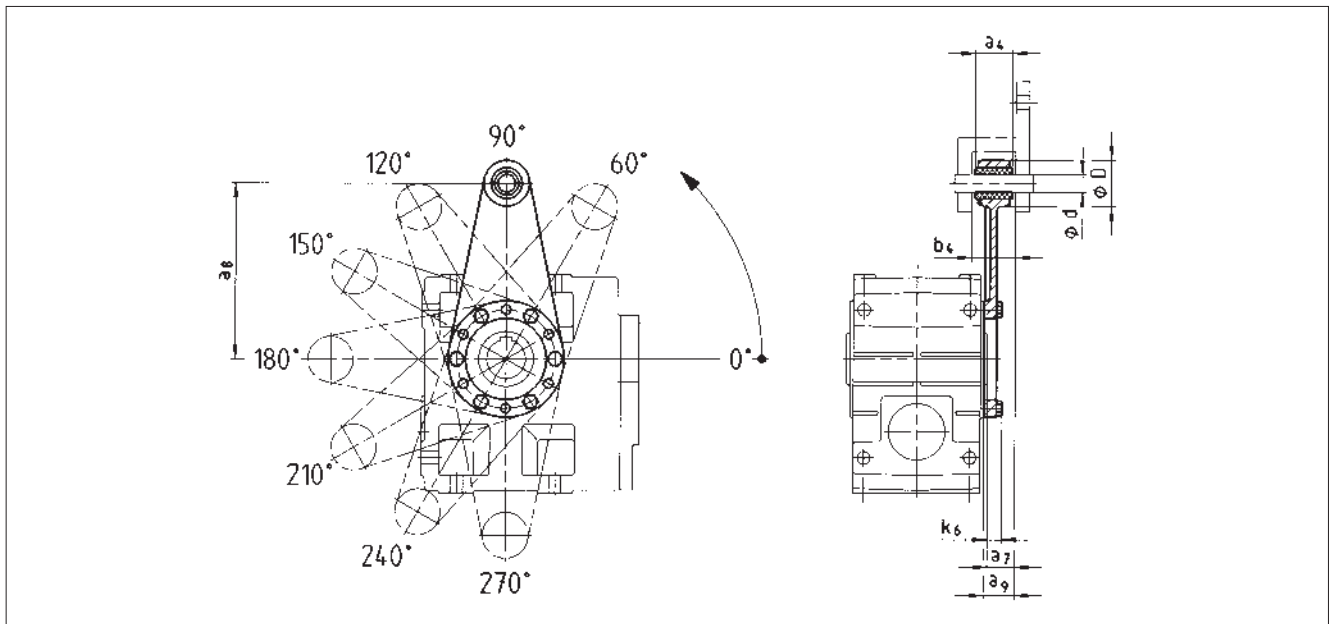


Torque plate at pitch circle in position 3



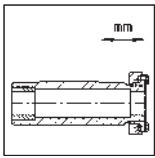
4

Torque plate at pitch circle in position 5



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

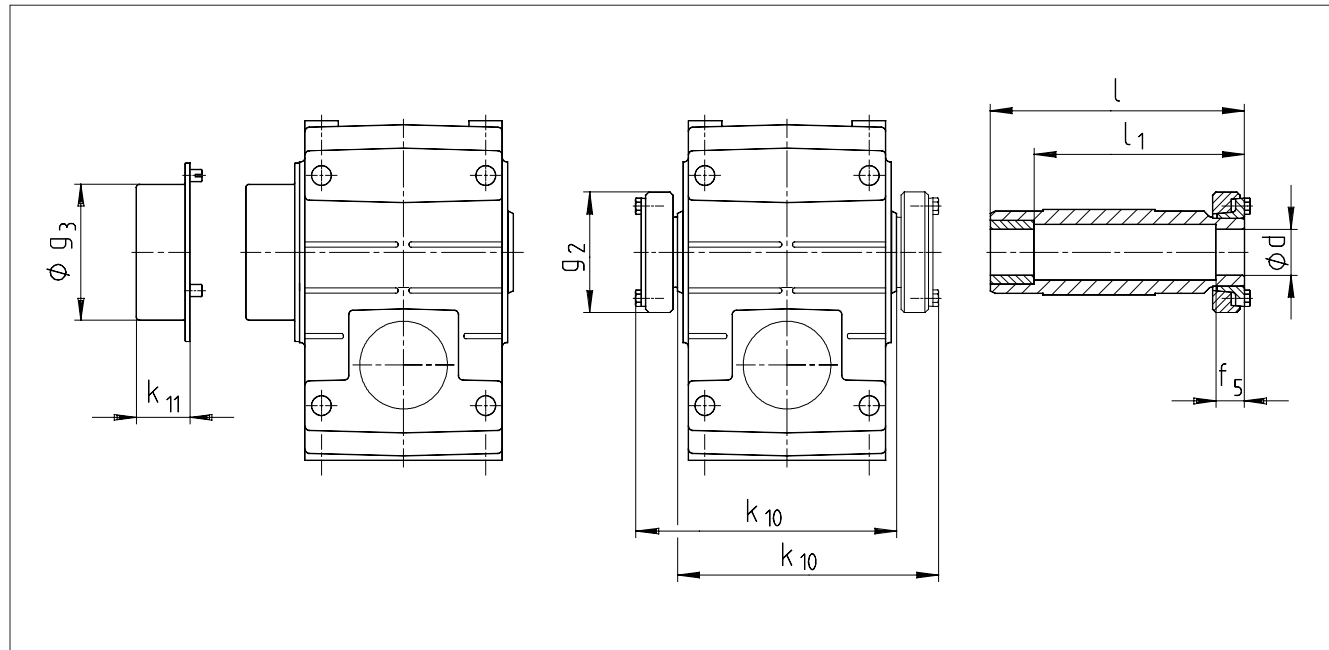
Dimensions in [mm]



Disco variable speed drives

Additional dimensions GKS □ □

Hollow shaft with shrink disc



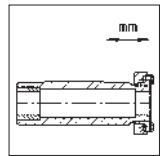
4

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

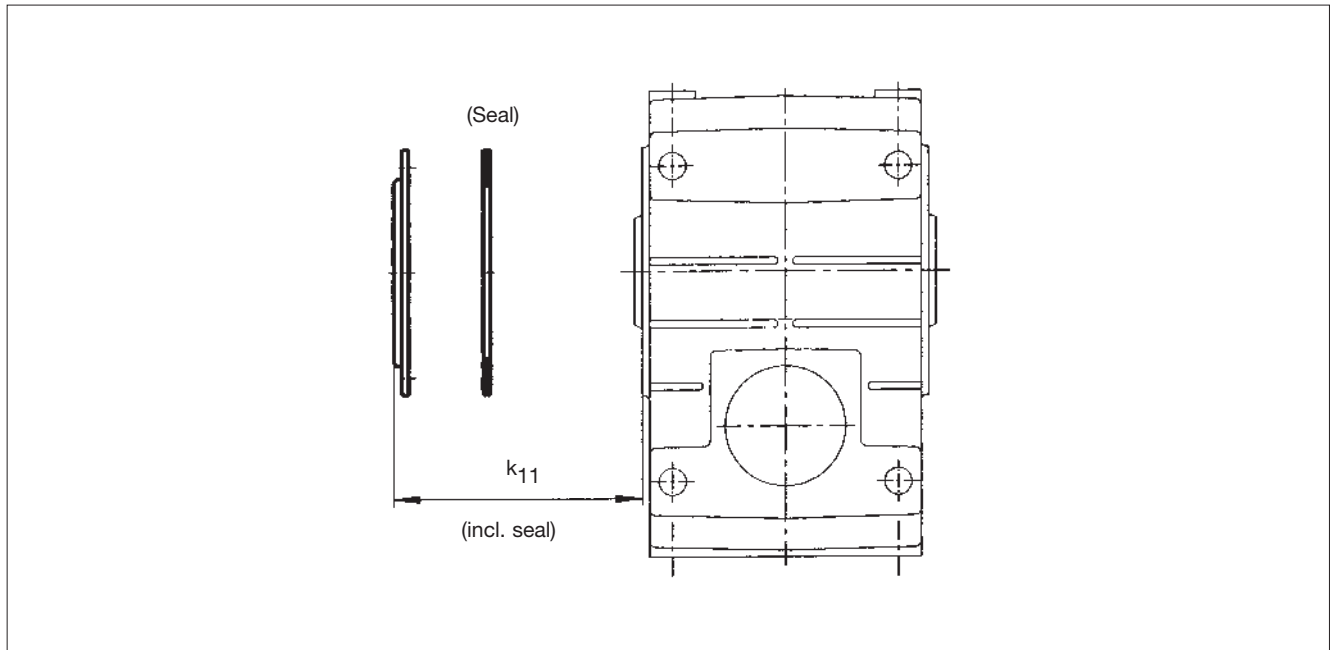
* Ensure sufficient strength of shaft material for shrink disc designs. When using customary steel (e.g. C45, 42CrMo4), the torques indicated in the selection tables can be transferred without any reservation. When using materials of a lower strength, please contact Lenze.

The average peak-to-valley height R_z should not exceed 15 μm . (Turning operation is sufficient).

Dimensions in [mm]

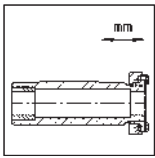


Hollow shaft cover – jet-proof



| Gearbox size | Cover k ₁₁ |
|--------------|--------------------------|
| GKS 04 | 9 |
| GKS 05 | 10 |
| GKS 06 | 11 |
| GKS 07 | 11 |
| GKS 09 | 54 |
| GKS 11 | 67 |
| GKS 14 | 80 |

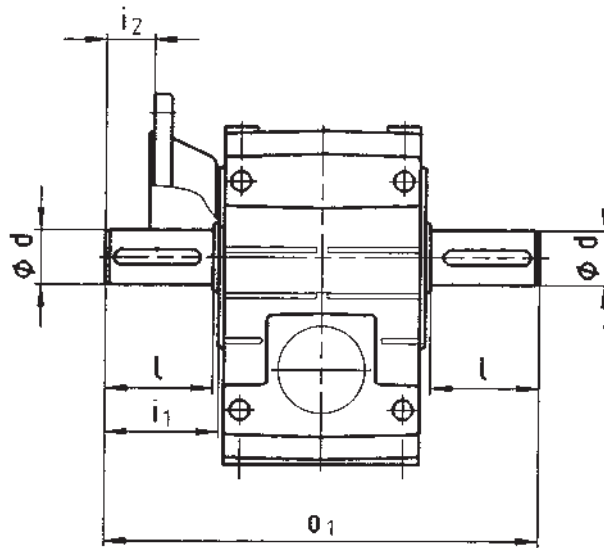
Dimensions in [mm]



Disco variable speed drives

Additional dimensions GKS □ □

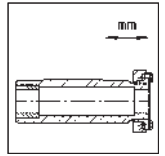
Gearboxes with 2nd output shaft end



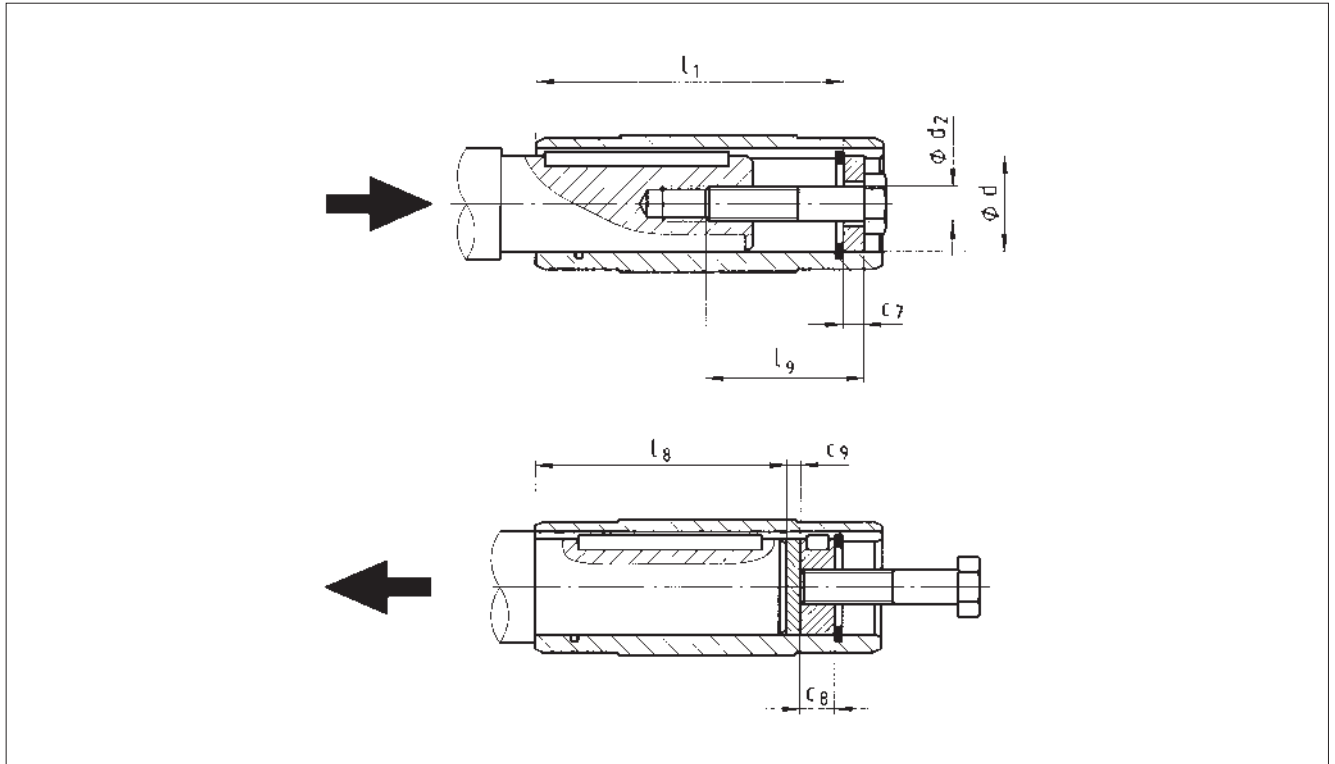
4

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

Dimensions in [mm]



Mounting kit – hollow shaft retention · Design proposal auxiliary tools



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

Dimensions in [mm]



Disco variable speed drives

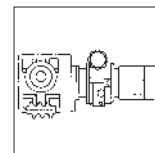
Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|----------|---|---|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.25 kW | 165 - 28 | 9.3 - 19 | 5.639 | GSS □□ - 2D GSS04 - 2D □□□ 071-12 02C | 4-60 |
| | 120 - 20 | 13 - 26 | 7.733 | GSS04 - 2D □□□ 071-12 02C | |
| | 94 - 16 | 17 - 33 | 9.897 | GSS04 - 2D □□□ 071-12 02C | |
| | 75 - 13 | 20 - 40 | 12.400 | GSS04 - 2D □□□ 071-12 02C | |
| | 59 - 9.8 | 26 - 51 | 15.869 | GSS04 - 2D □□□ 071-12 02C | |
| | 46 - 7.6 | 31 - 60 | 20.417 | GSS04 - 2D □□□ 071-12 02C | |
| | 38 - 6.3 | 39 - 73 | 24.800 | GSS04 - 2D □□□ 071-12 02C | |
| | 29 - 4.9 | 51 - 91 | 31.738 | GSS04 - 2D □□□ 071-12 02C | |
| | 24 - 4.0 | 62 - 108 | 39.200 | GSS04 - 2D □□□ 071-12 02C | |
| | 19 - 3.1 | 79 - 133 | 50.000 | GSS04 - 2D □□□ 071-12 02C | |
| | 15 - 2.5 | 96 - 158 | 61.250 | GSS04 - 2D □□□ 071-12 02C | |
| | 12 - 2.0 | 120 - 180 | 77.000 | GSS04 - 2D □□□ 071-12 02C | |
| | 12 - 1.9 | 125 - 206 | 79.722 | GSS05 - 2D □□□ 071-12 02C | |
| | 9.4 - 1.6 | 152 - 180 | 99.167 | GSS04 - 2D □□□ 071-12 02C | |
| | 9.4 - 1.6 | 155 - 249 | 99.167 | GSS05 - 2D □□□ 071-12 02C | |
| | 7.3 - 1.2 | 197 - 318 | 128.333 | GSS05 - 2D □□□ 071-12 02C | |
| | 6.0 - 1.0 | 235 - 360 | 155.750 | GSS05 - 2D □□□ 071-12 02C | |
| | 6.0 - 1.0 | 240 - 401 | 155.750 | GSS06 - 2D □□□ 071-12 02C | |
| | 4.7 - 0.8 | 298 - 507 | 196.875 | GSS06 - 2D □□□ 071-12 02C | |
| | 0.37 kW | 330 - 55 | 7.1 - 16 | 5.639 | |
| 241 - 40 | | 9.8 - 21 | 7.733 | GSS04 - 2D □□□ 071-11 02C | |
| 188 - 31 | | 13 - 27 | 9.897 | GSS04 - 2D □□□ 071-11 02C | |
| 150 - 25 | | 16 - 33 | 12.400 | GSS04 - 2D □□□ 071-11 02C | |
| 117 - 20 | | 21 - 42 | 15.869 | GSS04 - 2D □□□ 071-11 02C | |
| 91 - 15 | | 24 - 50 | 20.417 | GSS04 - 2D □□□ 071-11 02C | |
| 75 - 13 | | 31 - 61 | 24.800 | GSS04 - 2D □□□ 071-11 02C | |
| 59 - 9.8 | | 40 - 78 | 31.738 | GSS04 - 2D □□□ 071-11 02C | |
| 47 - 7.9 | | 49 - 93 | 39.200 | GSS04 - 2D □□□ 071-11 02C | |
| 37 - 6.2 | | 63 - 117 | 50.000 | GSS04 - 2D □□□ 071-11 02C | |
| 30 - 5.1 | | 78 - 140 | 61.250 | GSS04 - 2D □□□ 071-11 02C | |
| 24 - 4.0 | | 98 - 171 | 77.000 | GSS04 - 2D □□□ 071-11 02C | |
| 19 - 3.1 | | 126 - 180 | 99.167 | GSS04 - 2D □□□ 071-11 02C | |
| 19 - 3.1 | | 127 - 220 | 99.167 | GSS05 - 2D □□□ 071-11 02C | |
| 15 - 2.4 | | 164 - 275 | 128.333 | GSS05 - 2D □□□ 071-11 02C | |
| 12 - 2.0 | | 198 - 325 | 155.750 | GSS05 - 2D □□□ 071-11 02C | |
| 9.5 - 1.6 | | 251 - 418 | 196.875 | GSS06 - 2D □□□ 071-11 02C | |
| 0.55 kW | | 341 - 59 | 10 - 22 | 5.639 | GSS □□ - 2D GSS04 - 2D □□□ 071-31 03C |
| | 248 - 43 | 14 - 30 | 7.733 | GSS04 - 2D □□□ 071-31 03C | |

Thermal limit not considered (see note on page 3-12)

Disco variable speed drives

Selection tables with helical-worm gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------|-----------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.55 kW | | | | GSS □□ - 2D | 4-60 |
| | 194 - 34 | 18 - 38 | 9.897 | GSS04 - 2D □□□ 071-31 03C | |
| | 155 - 27 | 22 - 46 | 12.400 | GSS04 - 2D □□□ 071-31 03C | |
| | 121 - 21 | 29 - 59 | 15.869 | GSS04 - 2D □□□ 071-31 03C | |
| | 94 - 16 | 34 - 70 | 20.417 | GSS04 - 2D □□□ 071-31 03C | |
| | 77 - 14 | 43 - 86 | 24.800 | GSS04 - 2D □□□ 071-31 03C | |
| | 61 - 11 | 56 - 109 | 31.738 | GSS04 - 2D □□□ 071-31 03C | |
| | 49 - 8.6 | 68 - 131 | 39.200 | GSS04 - 2D □□□ 071-31 03C | |
| | 38 - 6.7 | 87 - 163 | 50.000 | GSS04 - 2D □□□ 071-31 03C | |
| | 31 - 5.5 | 108 - 180 | 61.250 | GSS04 - 2D □□□ 071-31 03C | |
| | 31 - 5.5 | 108 - 201 | 61.250 | GSS05 - 2D □□□ 071-31 03C | |
| | 25 - 4.4 | 136 - 180 | 77.000 | GSS04 - 2D □□□ 071-31 03C | |
| | 24 - 4.2 | 141 - 254 | 79.722 | GSS05 - 2D □□□ 071-31 03C | |
| | 19 - 3.4 | 174 - 180 | 99.167 | GSS04 - 2D □□□ 071-31 03C | |
| | 19 - 3.4 | 176 - 308 | 99.167 | GSS05 - 2D □□□ 071-31 03C | |
| | 15 - 2.6 | 227 - 360 | 128.333 | GSS05 - 2D □□□ 071-31 03C | |
| | 15 - 2.6 | 228 - 401 | 128.333 | GSS06 - 2D □□□ 071-31 03C | |
| | 12 - 2.2 | 274 - 360 | 155.750 | GSS05 - 2D □□□ 071-31 03C | |
| | 12 - 2.2 | 277 - 477 | 155.750 | GSS06 - 2D □□□ 071-31 03C | |
| | 9.8 - 1.7 | 349 - 585 | 196.875 | GSS06 - 2D □□□ 071-31 03C | |
| 0.75 kW | | | | GSS □□ - 2D | 4-60 |
| | 169 - 29 | 30 - 60 | 5.639 | GSS04 - 2D □□□ 080-32 04D | |
| | 123 - 21 | 41 - 81 | 7.733 | GSS04 - 2D □□□ 080-32 04D | |
| | 96 - 17 | 53 - 103 | 9.897 | GSS04 - 2D □□□ 080-32 04D | |
| | 77 - 13 | 65 - 125 | 12.400 | GSS04 - 2D □□□ 080-32 04D | |
| | 60 - 10 | 83 - 157 | 15.869 | GSS04 - 2D □□□ 080-32 04D | |
| | 47 - 8.1 | 98 - 180 | 20.417 | GSS04 - 2D □□□ 080-32 04D | |
| | 38 - 6.7 | 122 - 180 | 24.800 | GSS04 - 2D □□□ 080-32 04D | |
| | 38 - 6.7 | 122 - 230 | 24.800 | GSS05 - 2D □□□ 080-32 04D | |
| | 30 - 5.2 | 156 - 180 | 31.738 | GSS04 - 2D □□□ 080-32 04D | |
| | 30 - 5.2 | 156 - 287 | 31.738 | GSS05 - 2D □□□ 080-32 04D | |
| | 24 - 4.2 | 180 - 180 | 39.200 | GSS04 - 2D □□□ 080-32 04D | |
| | 24 - 4.2 | 191 - 342 | 39.200 | GSS05 - 2D □□□ 080-32 04D | |
| | 19 - 3.3 | 244 - 355 | 50.000 | GSS05 - 2D □□□ 080-32 04D | |
| | 19 - 3.3 | 245 - 442 | 50.000 | GSS06 - 2D □□□ 080-32 04D | |
| | 16 - 2.7 | 298 - 354 | 61.250 | GSS05 - 2D □□□ 080-32 04D | |
| | 16 - 2.7 | 300 - 528 | 61.250 | GSS06 - 2D □□□ 080-32 04D | |
| | 12 - 2.1 | 390 - 667 | 79.722 | GSS06 - 2D □□□ 080-32 04D | |
| | 9.6 - 1.7 | 483 - 720 | 99.167 | GSS06 - 2D □□□ 080-32 04D | |
| | 9.7 - 1.7 | 484 - 843 | 97.708 | GSS07 - 2D □□□ 080-32 04D | |
| | 7.4 - 1.3 | 616 - 720 | 128.333 | GSS06 - 2D □□□ 080-32 04D | |
| | 7.4 - 1.3 | 632 - 1076 | 128.333 | GSS07 - 2D □□□ 080-32 04D | |
| | 6.1 - 1.1 | 720 - 720 | 155.750 | GSS06 - 2D □□□ 080-32 04D | |
| | 6.1 - 1.1 | 762 - 1250 | 155.750 | GSS07 - 2D □□□ 080-32 04D | |
| | 4.8 - 0.8 | 951 - 1250 | 196.875 | GSS07 - 2D □□□ 080-32 04D | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

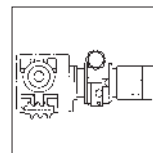
Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------------------------|-----------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.1 kW | | | | GSS □□ - 2D | 4-60 |
| | 341 - 59 | 22 - 45 | 5.639 | GSS04 - 2D □□□ 080-31 04D | |
| | 248 - 43 | 30 - 62 | 7.733 | GSS04 - 2D □□□ 080-31 04D | |
| | 194 - 34 | 39 - 79 | 9.897 | GSS04 - 2D □□□ 080-31 04D | |
| | 155 - 27 | 48 - 96 | 12.400 | GSS04 - 2D □□□ 080-31 04D | |
| | 121 - 21 | 62 - 123 | 15.869 | GSS04 - 2D □□□ 080-31 04D | |
| | 94 - 16 | 71 - 145 | 20.417 | GSS04 - 2D □□□ 080-31 04D | |
| | 77 - 14 | 90 - 178 | 24.800 | GSS04 - 2D □□□ 080-31 04D | |
| | 61 - 11 | 116 - 180 | 31.738 | GSS04 - 2D □□□ 080-31 04D | |
| | 61 - 11 | 116 - 229 | 31.738 | GSS05 - 2D □□□ 080-31 04D | |
| | 49 - 8.6 | 141 - 180 | 39.200 | GSS04 - 2D □□□ 080-31 04D | |
| | 49 - 8.6 | 142 - 276 | 39.200 | GSS05 - 2D □□□ 080-31 04D | |
| | 38 - 6.7 | 180 - 180 | 50.000 | GSS04 - 2D □□□ 080-31 04D | |
| | 38 - 6.7 | 183 - 345 | 50.000 | GSS05 - 2D □□□ 080-31 04D | |
| | 31 - 5.5 | 225 - 360 | 61.250 | GSS05 - 2D □□□ 080-31 04D | |
| | 31 - 5.5 | 225 - 429 | 61.250 | GSS06 - 2D □□□ 080-31 04D | |
| | 24 - 4.2 | 294 - 360 | 79.722 | GSS05 - 2D □□□ 080-31 04D | |
| | 24 - 4.2 | 295 - 544 | 79.722 | GSS06 - 2D □□□ 080-31 04D | |
| | 19 - 3.4 | 360 - 360 | 99.167 | GSS05 - 2D □□□ 080-31 04D | |
| | 19 - 3.4 | 368 - 664 | 99.167 | GSS06 - 2D □□□ 080-31 04D | |
| | 15 - 2.6 | 476 - 720 | 128.333 | GSS06 - 2D □□□ 080-31 04D | |
| | 15 - 2.6 | 481 - 874 | 128.333 | GSS07 - 2D □□□ 080-31 04D | |
| | 12 - 2.2 | 576 - 720 | 155.750 | GSS06 - 2D □□□ 080-31 04D | |
| 12 - 2.2 | 585 - 1042 | 155.750 | GSS07 - 2D □□□ 080-31 04D | | |
| 9.8 - 1.7 | 738 - 1250 | 196.875 | GSS07 - 2D □□□ 080-31 04D | | |
| 1.5 kW | | | | GSS □□ - 2D | 4-60 |
| | 169 - 29 | 60 - 121 | 5.639 | GSS05 - 2D □□□ 090-32 05E | |
| | 123 - 21 | 83 - 165 | 7.733 | GSS05 - 2D □□□ 090-32 05E | |
| | 96 - 17 | 107 - 209 | 9.897 | GSS05 - 2D □□□ 090-32 05E | |
| | 77 - 13 | 131 - 254 | 12.400 | GSS05 - 2D □□□ 090-32 05E | |
| | 60 - 10 | 168 - 321 | 15.869 | GSS05 - 2D □□□ 090-32 05E | |
| | 47 - 8.1 | 200 - 359 | 20.417 | GSS05 - 2D □□□ 090-32 05E | |
| | 47 - 8.1 | 200 - 392 | 20.417 | GSS06 - 2D □□□ 090-32 05E | |
| | 38 - 6.7 | 247 - 357 | 24.800 | GSS05 - 2D □□□ 090-32 05E | |
| | 38 - 6.7 | 245 - 470 | 24.800 | GSS06 - 2D □□□ 090-32 05E | |
| | 30 - 5.2 | 317 - 355 | 31.738 | GSS05 - 2D □□□ 090-32 05E | |
| | 30 - 5.2 | 314 - 590 | 31.738 | GSS06 - 2D □□□ 090-32 05E | |
| | 24 - 4.2 | 390 - 718 | 39.200 | GSS06 - 2D □□□ 090-32 05E | |
| | 19 - 3.3 | 498 - 720 | 50.000 | GSS06 - 2D □□□ 090-32 05E | |
| | 19 - 3.3 | 503 - 935 | 50.000 | GSS07 - 2D □□□ 090-32 05E | |
| | 16 - 2.7 | 609 - 720 | 61.250 | GSS06 - 2D □□□ 090-32 05E | |
| | 16 - 2.7 | 618 - 1122 | 61.250 | GSS07 - 2D □□□ 090-32 05E | |
| | 12 - 2.1 | 720 - 720 | 79.722 | GSS06 - 2D □□□ 090-32 05E | |
| | 12 - 2.1 | 804 - 1250 | 79.722 | GSS07 - 2D □□□ 090-32 05E | |
| | 9.7 - 1.7 | 983 - 1250 | 97.708 | GSS07 - 2D □□□ 090-32 05E | |
| | 7.4 - 1.3 | 1250 - 1250 | 128.333 | GSS07 - 2D □□□ 090-32 05E | |

Thermal limit not considered (see note on page 3-12)

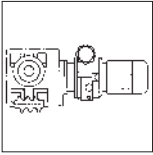
Disco variable speed drives

Selection tables with helical-worm gearboxes



| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|---------|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.5 kW | 6.9 - 1.2 | 1250 - 1250 | 137.950 | GSS □□ - 2D GSS07 - 2D □□□ 090-32 05E | 4-60 |
| 2.2 kW | 341 - 59 | 44 - 92 | 5.639 | GSS □□ - 2D GSS05 - 2D □□□ 090-31 05E | 4-60 |
| | 248 - 43 | 61 - 125 | 7.733 | GSS05 - 2D □□□ 090-31 05E | |
| | 194 - 34 | 79 - 160 | 9.897 | GSS05 - 2D □□□ 090-31 05E | |
| | 155 - 27 | 97 - 195 | 12.400 | GSS05 - 2D □□□ 090-31 05E | |
| | 121 - 21 | 125 - 249 | 15.869 | GSS05 - 2D □□□ 090-31 05E | |
| | 94 - 16 | 147 - 298 | 20.417 | GSS05 - 2D □□□ 090-31 05E | |
| | 77 - 14 | 183 - 360 | 24.800 | GSS05 - 2D □□□ 090-31 05E | |
| | 61 - 11 | 236 - 360 | 31.738 | GSS05 - 2D □□□ 090-31 05E | |
| | 61 - 11 | 233 - 464 | 31.738 | GSS06 - 2D □□□ 090-31 05E | |
| | 49 - 8.6 | 289 - 360 | 39.200 | GSS05 - 2D □□□ 090-31 05E | |
| | 49 - 8.6 | 290 - 570 | 39.200 | GSS06 - 2D □□□ 090-31 05E | |
| | 38 - 6.7 | 360 - 360 | 50.000 | GSS05 - 2D □□□ 090-31 05E | |
| | 38 - 6.7 | 373 - 716 | 50.000 | GSS06 - 2D □□□ 090-31 05E | |
| | 31 - 5.5 | 459 - 720 | 61.250 | GSS06 - 2D □□□ 090-31 05E | |
| | 31 - 5.5 | 462 - 897 | 61.250 | GSS07 - 2D □□□ 090-31 05E | |
| | 24 - 4.2 | 599 - 720 | 79.722 | GSS06 - 2D □□□ 090-31 05E | |
| | 24 - 4.2 | 605 - 1145 | 79.722 | GSS07 - 2D □□□ 090-31 05E | |
| | 19 - 3.4 | 720 - 720 | 99.167 | GSS06 - 2D □□□ 090-31 05E | |
| | 20 - 3.4 | 744 - 1250 | 97.708 | GSS07 - 2D □□□ 090-31 05E | |
| | 15 - 2.6 | 978 - 1250 | 128.333 | GSS07 - 2D □□□ 090-31 05E | |
| | 12 - 2.2 | 1185 - 1250 | 155.750 | GSS07 - 2D □□□ 090-31 05E | |
| 3 kW | 171 - 30 | 113 - 232 | 5.862 | GSS □□ - 2D GSS07 - 2D □□□ 100-32 06G | 4-60 |
| | 123 - 22 | 158 - 321 | 8.125 | GSS07 - 2D □□□ 100-32 06G | |
| | 100 - 18 | 196 - 395 | 10.000 | GSS07 - 2D □□□ 100-32 06G | |
| | 79 - 14 | 243 - 486 | 12.594 | GSS07 - 2D □□□ 100-32 06G | |
| | 65 - 11 | 300 - 596 | 15.500 | GSS07 - 2D □□□ 100-32 06G | |
| | 49 - 8.5 | 378 - 750 | 20.517 | GSS07 - 2D □□□ 100-32 06G | |
| | 40 - 7.0 | 466 - 913 | 25.188 | GSS07 - 2D □□□ 100-32 06G | |
| | 32 - 5.7 | 576 - 1112 | 31.000 | GSS07 - 2D □□□ 100-32 06G | |
| | 26 - 4.5 | 731 - 1250 | 39.200 | GSS07 - 2D □□□ 100-32 06G | |
| | 20 - 3.5 | 935 - 1250 | 50.000 | GSS07 - 2D □□□ 100-32 06G | |
| | 16 - 2.9 | 1146 - 1250 | 61.250 | GSS07 - 2D □□□ 100-32 06G | |
| 4 kW | 171 - 30 | 168 - 342 | 5.862 | GSS □□ - 2D GSS07 - 2D □□□ 112-22 07G | 4-60 |
| | 123 - 22 | 235 - 472 | 8.125 | GSS07 - 2D □□□ 112-22 07G | |
| | 100 - 18 | 290 - 580 | 10.000 | GSS07 - 2D □□□ 112-22 07G | |
| | 79 - 14 | 359 - 713 | 12.594 | GSS07 - 2D □□□ 112-22 07G | |
| | 65 - 11 | 442 - 874 | 15.500 | GSS07 - 2D □□□ 112-22 07G | |

Thermal limit not considered (see note on page 3-12)

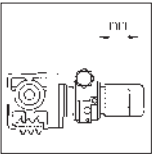


Disco variable speed drives

Selection tables with helical-worm gearboxes

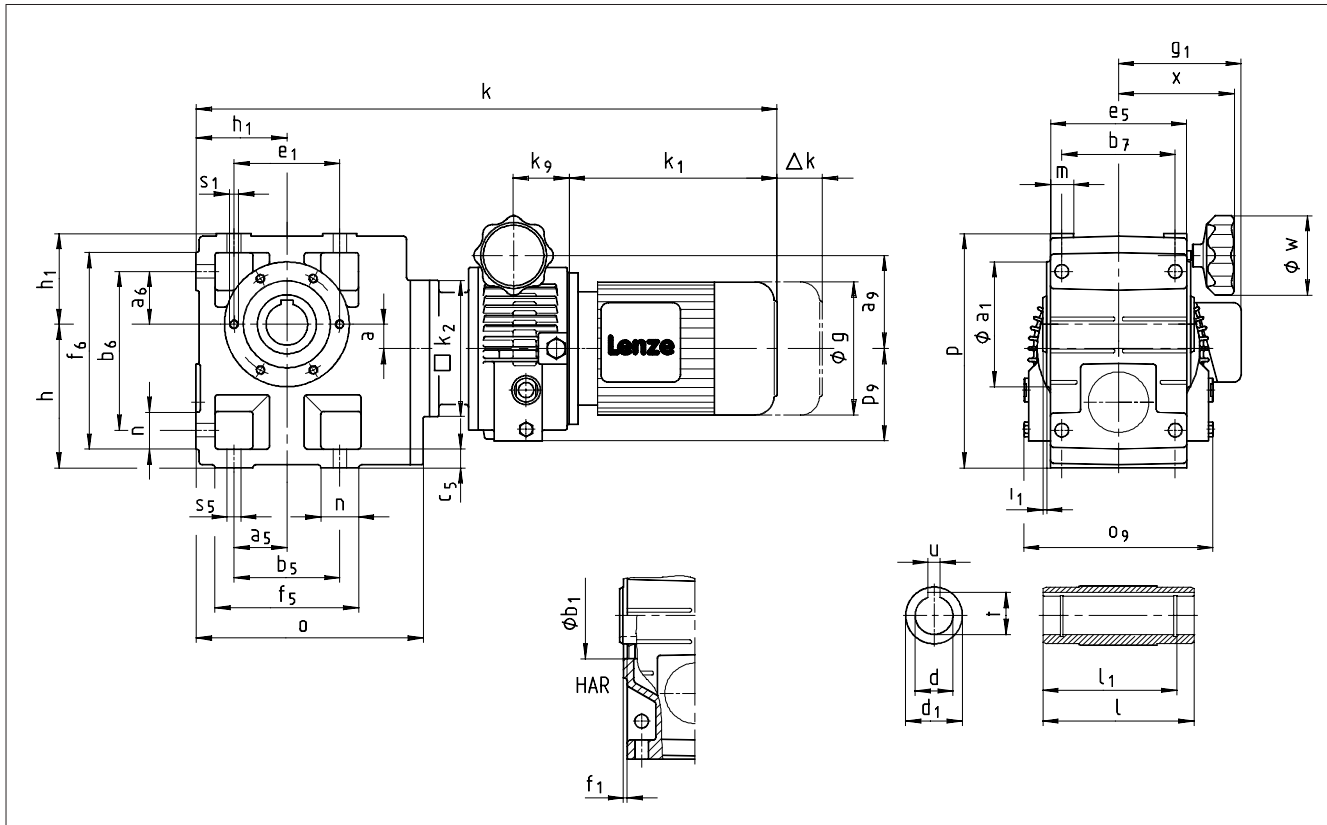
| P ₁ | 50 Hz | | i | Disco variable speed drives | Dim. Page |
|----------------|--|------------------------|--------|---|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 4 kW | 49 - 8.5 | 555 - 1097 | 20.517 | GSS □□ - 2D GSS07 - 2D □□□ 112-22 07G | 4-60 |
| | 40 - 7.0 | 683 - 1250 | 25.188 | GSS07 - 2D □□□ 112-22 07G | |
| | 32 - 5.7 | 844 - 1250 | 31.000 | GSS07 - 2D □□□ 112-22 07G | |
| | 26 - 4.5 | 1070 - 1250 | 39.200 | GSS07 - 2D □□□ 112-22 07G | |

Thermal limit not considered (see note on page 3-12)



Disco variable speed drives

Dimensions with helical-worm gearboxes



4

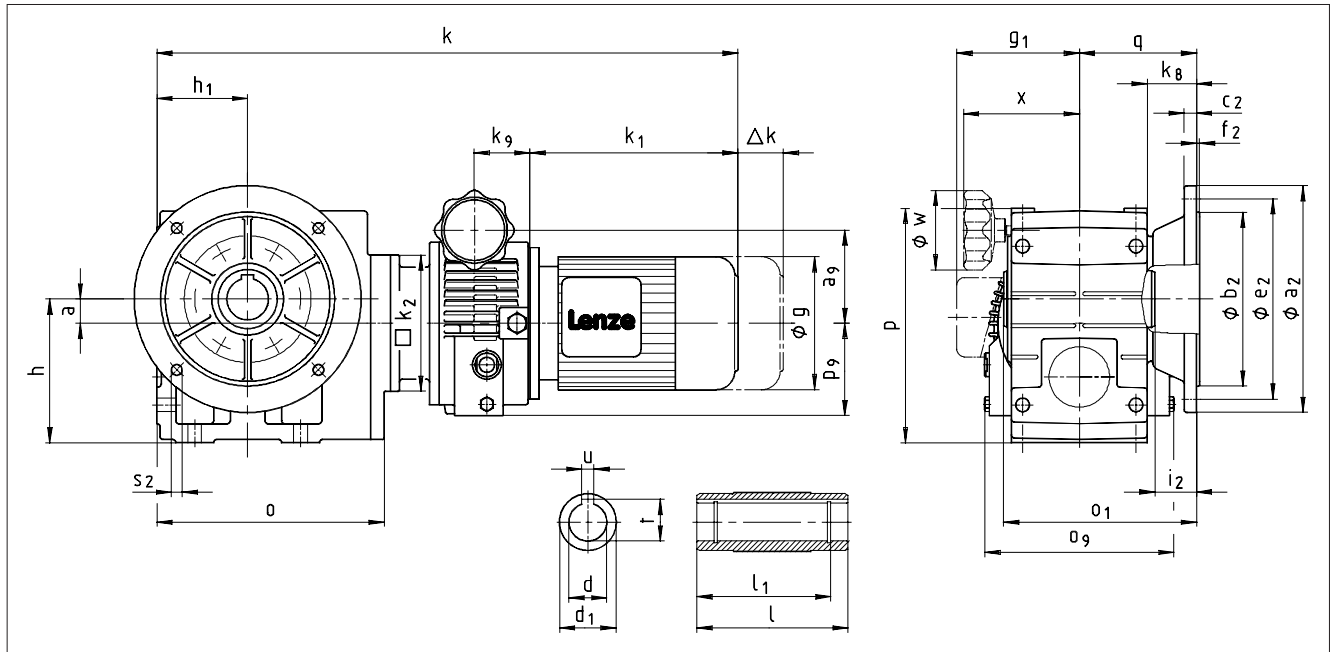
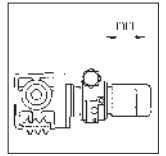
| Disco variable speed drives | | Drive size | | | | | | | | | | | |
|-----------------------------|-----------------------|------------------|------------------|------------------|----------------------|------------------|---------------------|-----|-----|-----|-----|-----|--|
| GSS □□ - 2 D H □ R | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | | 149 | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | | 265 | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | | 82 | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | | 305 | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | | 145 | | | | | | |
| | p₁₀ | 14 | 14 | 17 | 17 | | 17 | | | | | | |
| | w | 70 | 70 | 105 | 105 | | 105 | | | | | | |
| | x | 105 | 105 | 152 | 152 | | 152 | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | |
| | o | l* | p* | h** | h₁ | a | k | | | | | | |
| GSS 04 | 181 | 115 | 171 | 100 | 71 | 20 | 554 | 568 | 628 | | | | |
| GSS 05 | 212 | 140 | 205 | 125 | 80 | 23 | 576 | 589 | 649 | 761 | | | |
| GSS 06 | 255 | 160 | 250 | 150 | 100 | 26 | 616 | 629 | 689 | 801 | | | |
| GSS 07 | 305 | 200 | 310 | 190 | 120 | 33 | | | 732 | 844 | 841 | 904 | |

| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|---------------------|----------------|----------|----------------------|----------------------|-----------------|------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d H7 | l | d₁ | l₁ | u JS9 | t +0.2 | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ 6x60° | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GSS 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 | 20 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ ** Observe dimension p₉ 1) Plus 80 mm for handle

Disco variable speed drives

Dimensions with helical-worm gearboxes

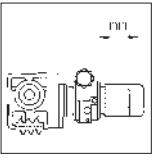


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| Disco variable speed drives | | Drive size | | | | | | | | | | | | |
|-----------------------------|----------------------|-----------------------|-----------|------------|----------------------|-----------|----------------------|--------------|----------|-----|-----|-----|-----|-----|
| GSS □□ - 2 D HAK | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | | | | | | | |
| Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | | | | | | | |
| x | 105 | 105 | 152 | 152 | 152 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | |
| | o | o₁* | p* | h** | h₁ | a | k₈ | q | k | | | | | |
| GSS 04 | 181 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 554 | 568 | 628 | | | |
| GSS 05 | 212 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | 576 | 589 | 649 | 761 | | |
| GSS 06 | 255 | 201 | 250 | 150 | 100 | 26 | 49 | 121 | 616 | 629 | 689 | 801 | | |
| GSS 07 | 305 | 255 | 310 | 190 | 120 | 33 | 65 | 155 | | | 732 | 844 | 841 | 904 |

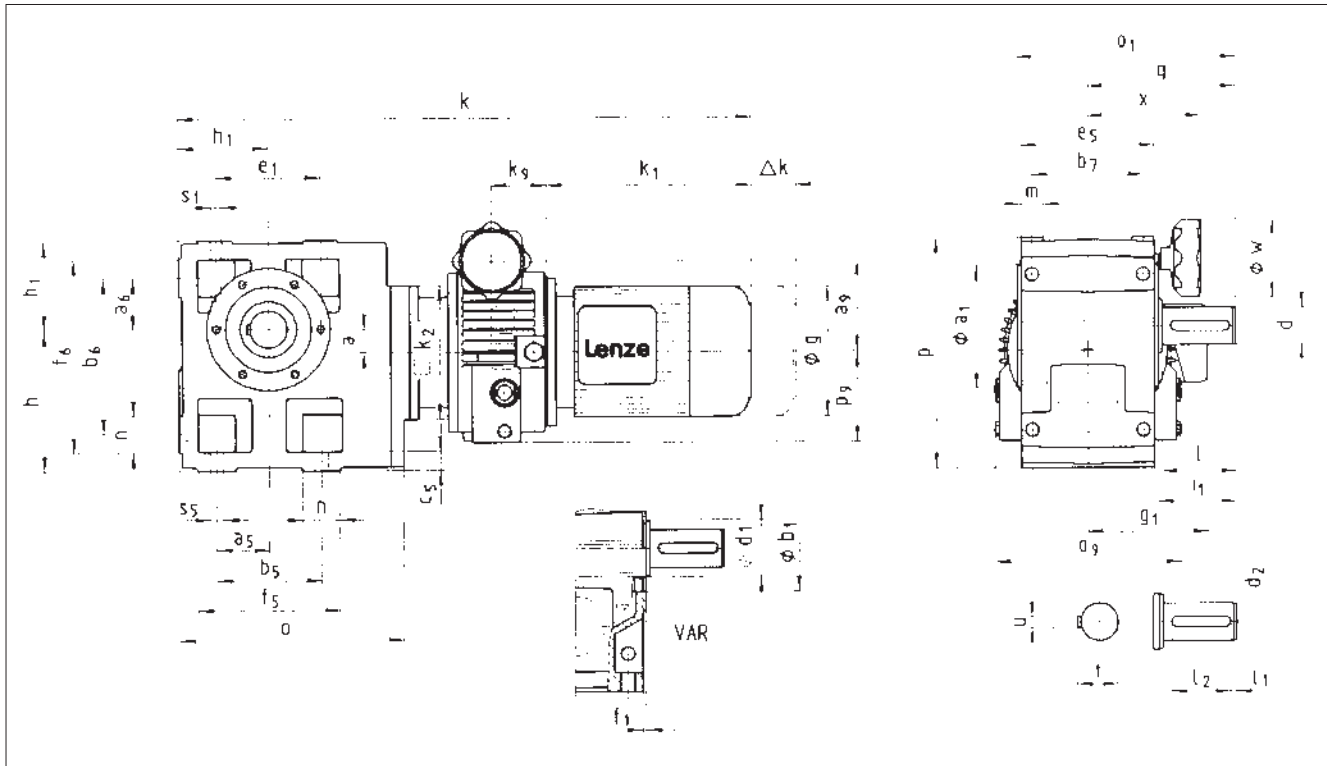
| Gearbox size | d H7 | l | Hollow shaft | | | | Output flange | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|-----------------|------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----|
| | | | d₁ | l₁ | u JS9 | t +0.2 | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ | |
| GSS 04 | 25 | 115 | 45 | 100 | 8 | 28.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 | |
| | 30 | | | | 8 | 33.3 | | | | | | | | |
| GSS 05 | 30 | 140 | 50 | 124 | 8 | 33.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| | 35 | | | | 10 | 38.3 | | | | | | | | |
| GSS 06 | 40 | 160 | 65 | 140 | 12 | 43.3 | 200 | 130 | 12 | 165 | 3.5 | 42 | 4 x 11 | |
| | 45 | | | | 14 | 48.8 | | | | | | | | 250 |
| GSS 07 | 50 | 200 | 75 | 175 | 14 | 53.8 | 250 | 180 | 14.5 | 215 | 4 | 55 | 4 x 14 | |
| | 55 | | | | 16 | 59.3 | | | | | | | | 300 |

Dimensions in [mm] * Observe dimension k_2 ** Observe dimension p_9 1) Plus 80 mm for handle



Disco variable speed drives

Dimensions with helical-worm gearboxes



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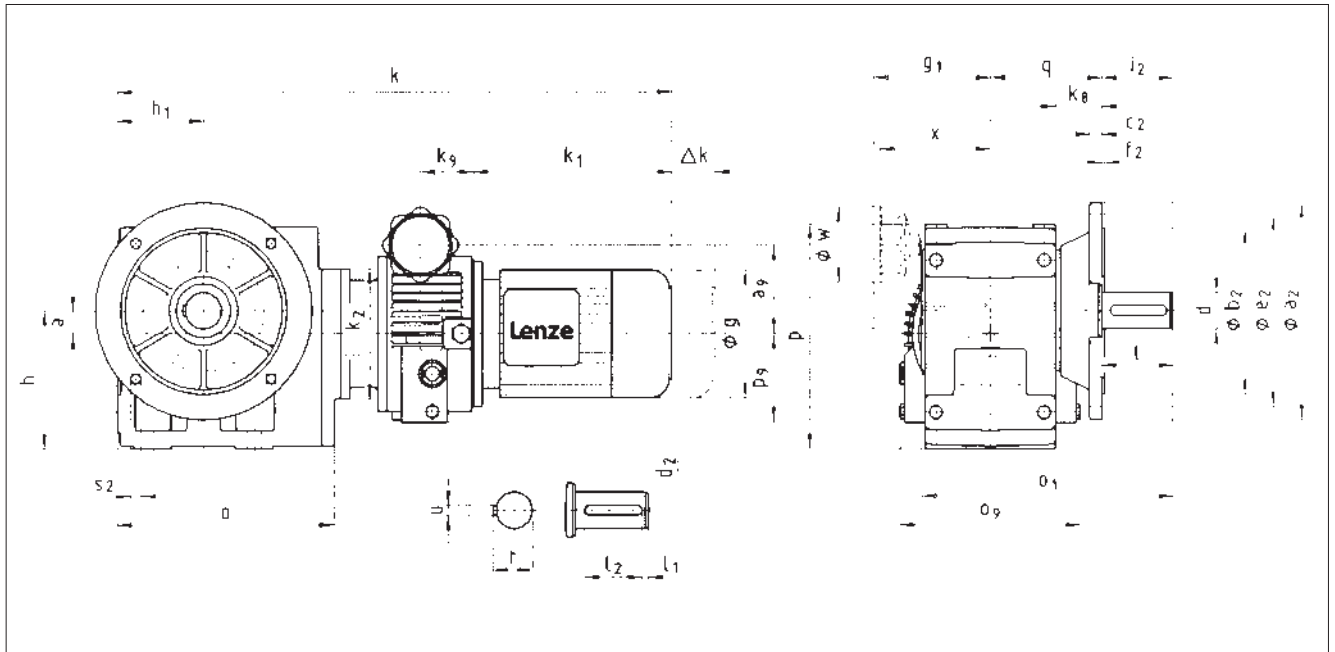
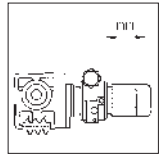
| Disco variable speed drives | | Drive size | | | | | | | | | | | |
|-----------------------------|----------------------|-----------------------|------------------|------------------|----------------------|------------------|------------------|--------------|-----|-----|-----|-----|-----|
| GSS □□ - 2 D V □ R | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | |
| | o | o₁* | p* | h** | h₁ | a | q | k | | | | | |
| GSS 04 | 181 | 163 | 171 | 100 | 71 | 20 | 107.5 | 554 | 568 | 628 | | | |
| GSS 05 | 212 | 197 | 205 | 125 | 80 | 23 | 130 | 576 | 589 | 649 | 761 | | |
| GSS 06 | 255 | 236 | 250 | 150 | 100 | 26 | 160 | 616 | 629 | 689 | 801 | | |
| GSS 07 | 305 | 296 | 310 | 190 | 120 | 33 | 200 | | | 732 | 844 | 841 | 904 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d | l | d₁ | l₁ | l₂ | d₂ | u | t | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GSS 04 | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 | 45 | 45 | 90 | 119 | 85 | 14 | 105 | 112 | 141 | 22 | 20 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂ 1) Plus 80 mm for handle
d > 50 mm: m6 ** Observe dimension p₉

Disco variable speed drives

Dimensions with helical-worm gearboxes

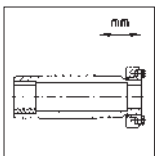


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| Disco variable speed drives | | Drive size | | | | | | | | | | | | |
|-----------------------------|----------------------|-----------------------|-----------|------------|----------------------|-----------|----------------------|----------|--------------|-----|-----|-----|-----|-----|
| GSS □□ - 2 D VAK | | 071-1□ 02 | 071-3□ 03 | 080-3□ 04 | 090-3□ 05 | 100-32 06 | 112-22 07 | | | | | | | |
| Motor | g | 143 | 143 | 160 | 180 | 206 | 222 | | | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 147 | 140 | 174 | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 154 | 151 | 174 | | | | | | |
| | k₁ | 237 | 237 | 267 | 350 | 316 | 379 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 48 | 111 | 80 | | | | | | | |
| DISCO | a₉ | 83 | 86 | 103 | 123 | 149 | | | | | | | | |
| | k₂ | 145 | 145 | 180 | 180 | 265 | | | | | | | | |
| | k₉ | 42 | 50 | 58 | 74 | 82 | | | | | | | | |
| | o₉ | 150 | 175 | 215 | 253 | 305 | | | | | | | | |
| | p₉ | 65 | 83 | 98 | 122 | 145 | | | | | | | | |
| | w | 70 | 70 | 105 | 105 | 105 | | | | | | | | |
| | x | 105 | 105 | 152 | 152 | 152 | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | |
| | o | o₁* | p* | h** | h₁ | a | k₈ | q | k | | | | | |
| GSS 04 | 181 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 554 | 568 | 628 | | | |
| GSS 05 | 212 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | 576 | 589 | 649 | 761 | | |
| GSS 06 | 255 | 277 | 250 | 150 | 100 | 26 | 49 | 121 | 616 | 629 | 689 | 801 | | |
| GSS 07 | 305 | 351 | 310 | 190 | 120 | 33 | 65 | 155 | | | 732 | 844 | 841 | 904 |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | d | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ |
| GSS 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| GSS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| GSS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 |
| GSS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 14.5 | 215 | 4 | 100 | 4 x 14 |
| | | | | | | | | 300 | 230 | 16.5 | 265 | | | |

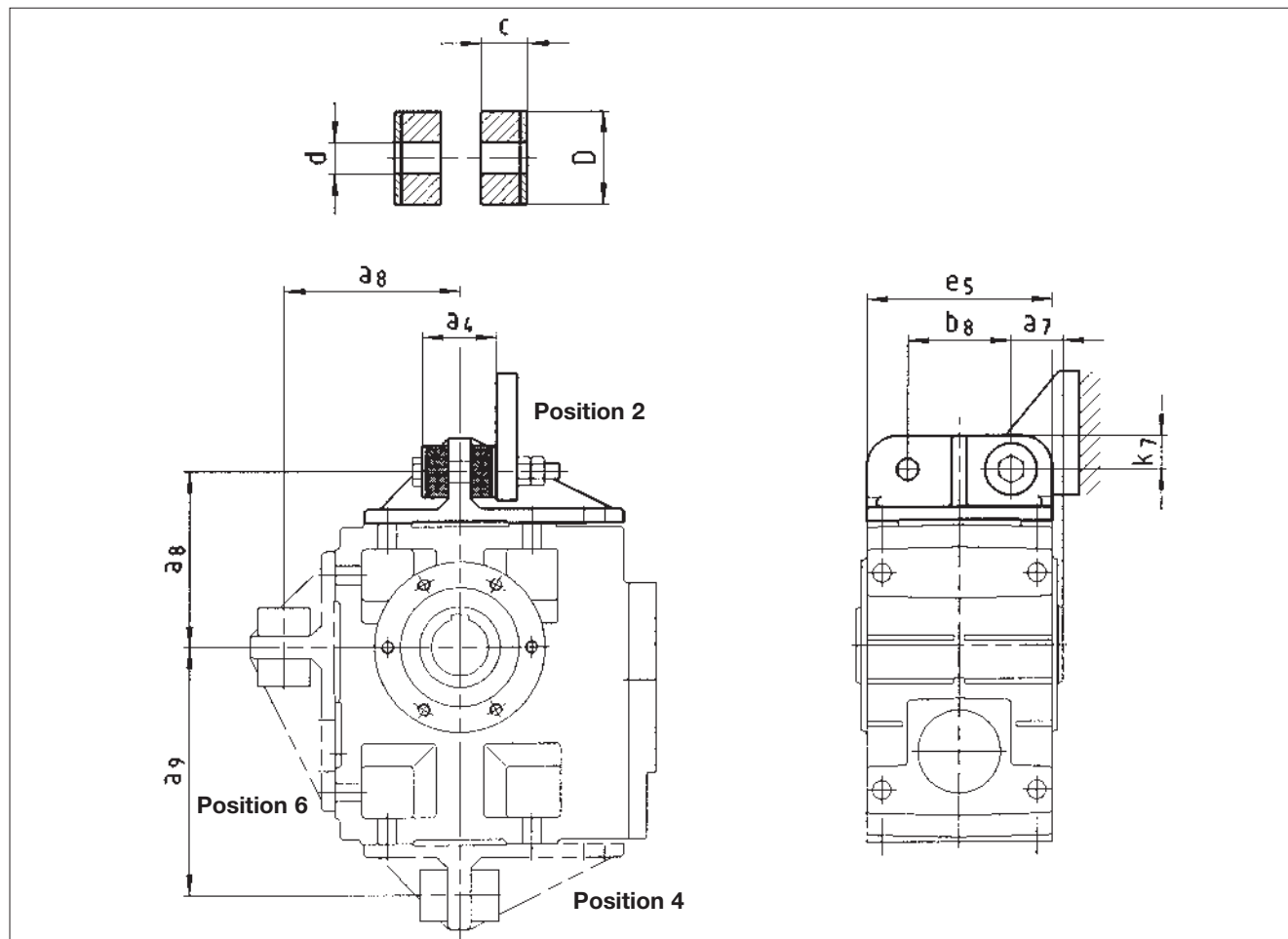
Dimensions in [mm] d ≤ 50 mm: k6 * Observe dimension k₂ 1) Plus 80 mm for handle
d > 50 mm: m6 ** Observe dimension p₉



Disco variable speed drives

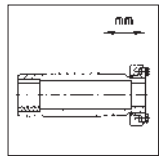
Additional dimensions GSS

Torque plate at housing foot

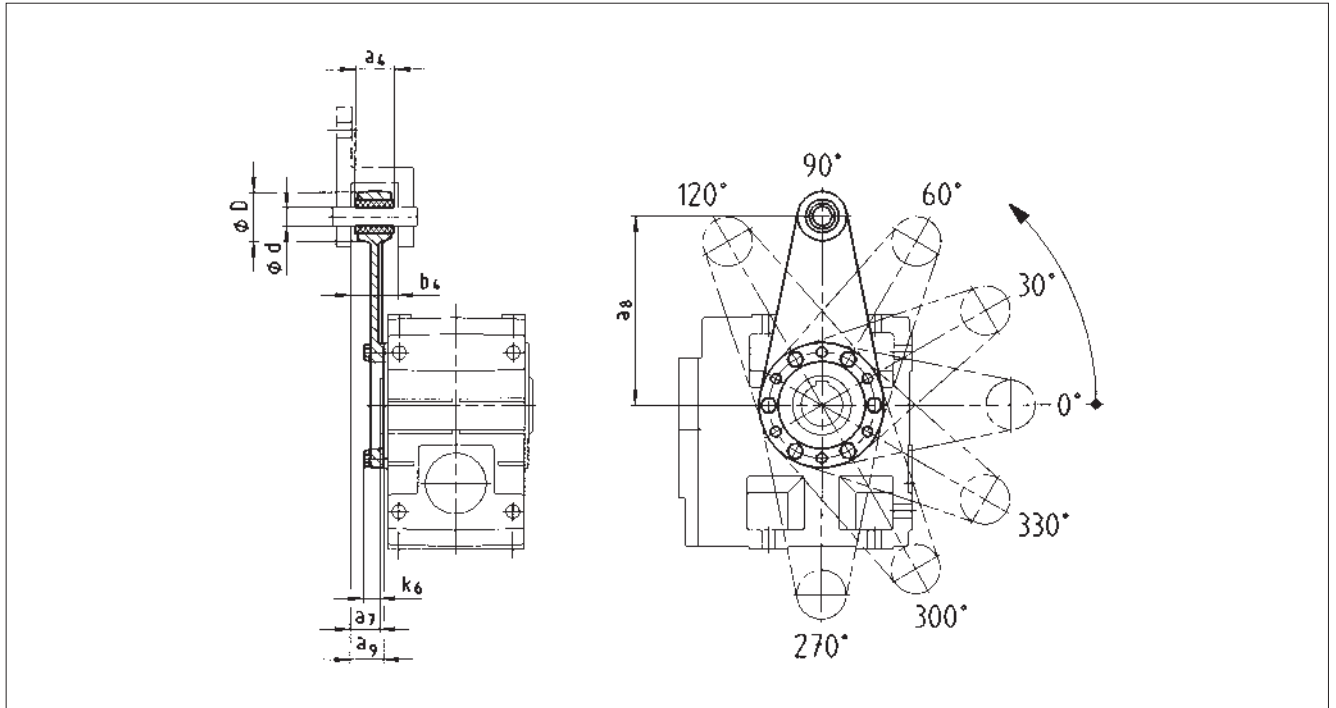


| Gearbox size | a_4 | a_7 | a_8 | a_9 | b_8 | c | d | D | e_5 | k_7 |
|--------------|-------|-------|-------|-------|-------|------|-----|-----|-------|-------|
| GSS 04 | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| GSS 05 | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| GSS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

Dimensions in [mm]

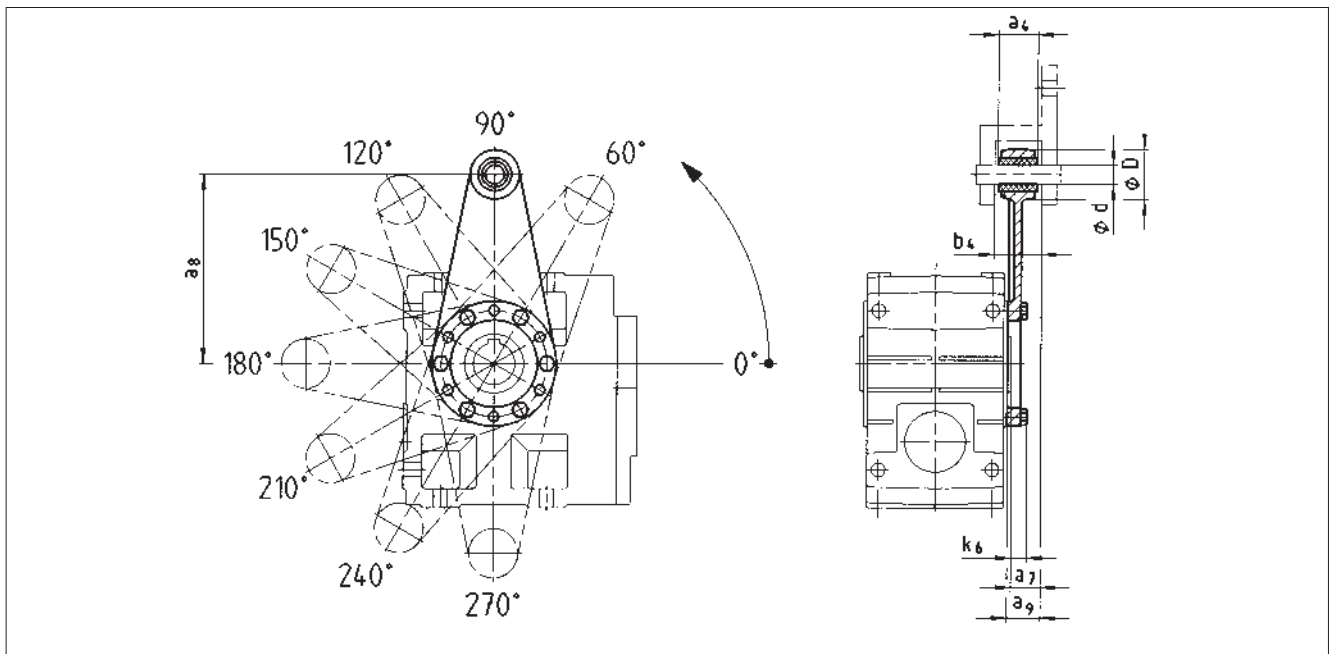


Torque plate at pitch circle in position 3



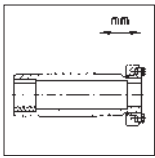
4

Torque plate at pitch circle in position 5



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

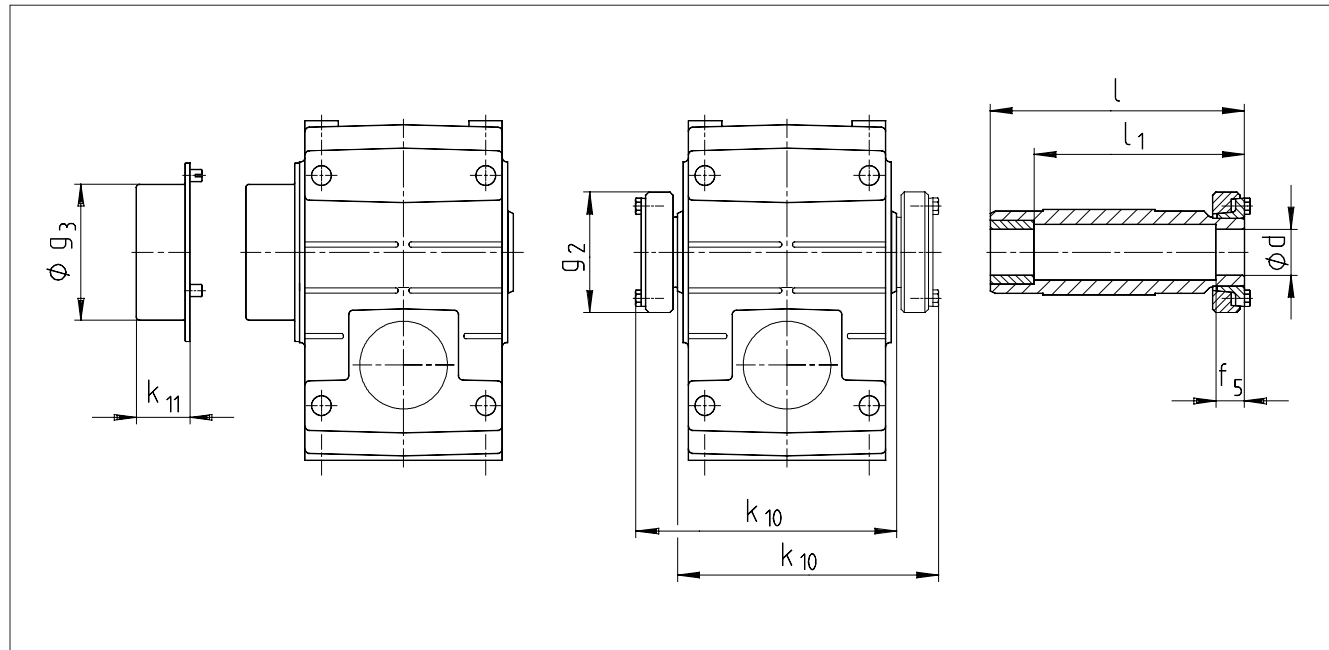
Dimensions in [mm]



Disco variable speed drives

Additional dimensions GSS

Hollow shaft with shrink disc



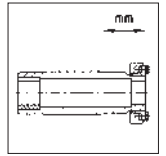
4

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

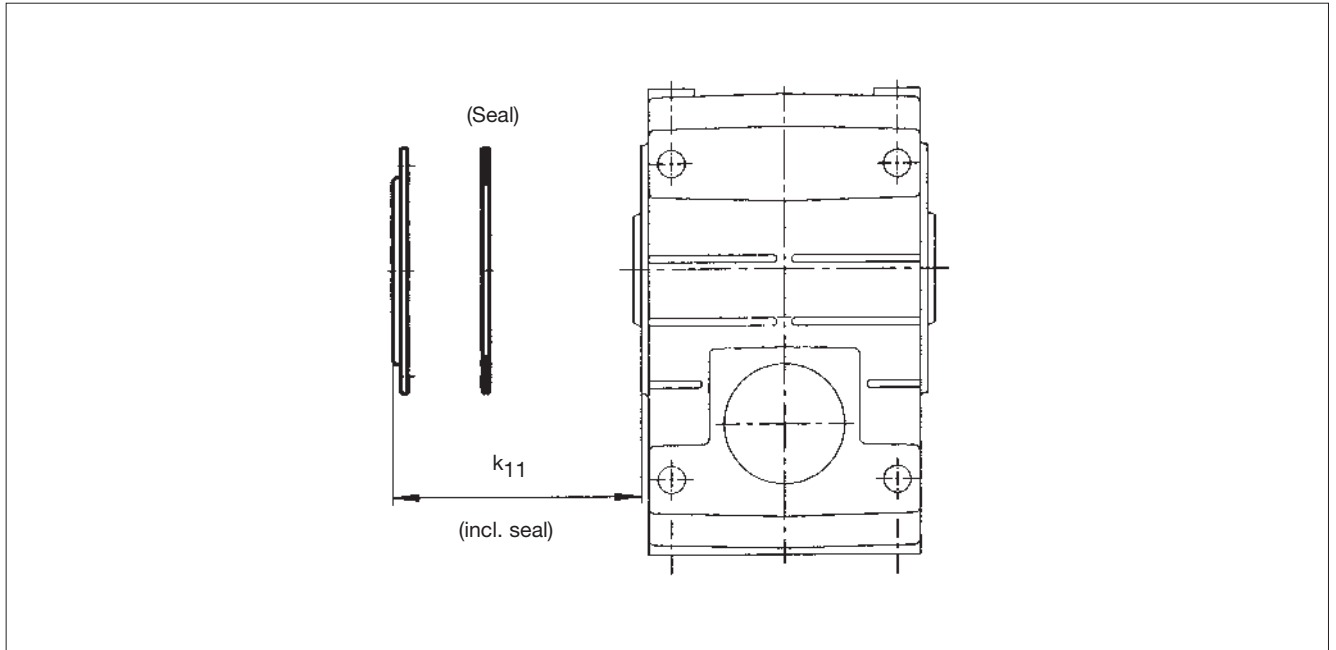
* Ensure sufficient strength of shaft material for shrink disc designs. When using customary steel (e.g. C45, 42CrMo4), the torques indicated in the selection tables can be transferred without any reservation. When using materials of a lower strength, please contact Lenze.

The average peak-to-valley height R_z should not exceed 15 μm . (Turning operation is sufficient).

Dimensions in [mm]



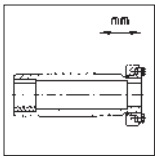
Hollow shaft protection – jet-proof



4

| Gearbox size | Protection cover k ₁₁ |
|--------------|-------------------------------------|
| GSS 04 | 9 |
| GSS 05 | 10 |
| GSS 06 | 11 |
| GSS 07 | 11 |

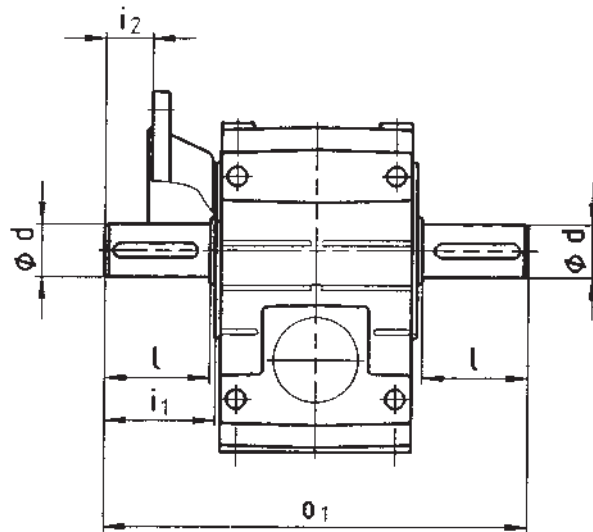
Dimensions in [mm]



Disco variable speed drives

Additional dimensions GSS □ □

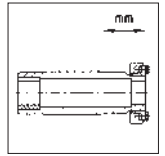
Gearboxes with 2nd output shaft end



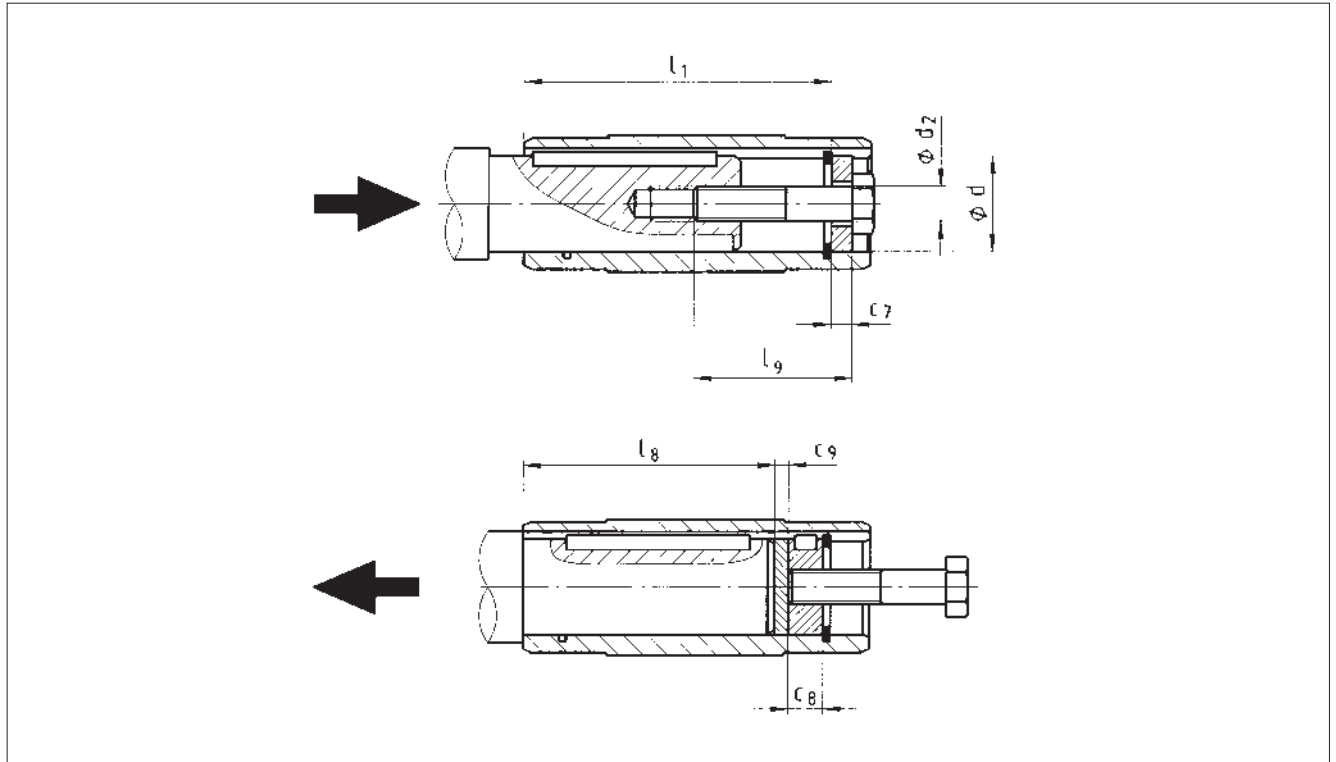
4

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

Dimensions in [mm]

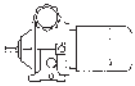


Mounting kit – hollow shaft retention · Design proposal for auxiliary tools



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

Dimensions in [mm]



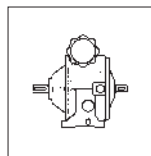
Disco variable speed drives

Selection tables with motor

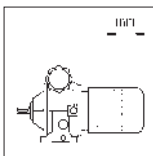
| P ₁ | 50 Hz | | DISCO | Motor | Dim. Page |
|----------------|---------------------------|------------------------|--------------|--------|--------------|
| | n ₂ [min-1] | M ₂ [Nm] | | | |
| 0.25 kW | | | | | |
| n1=1380 | 930-155 | 2-4 | 11.710.02.00 | 071-12 | 4-72 |
| 0.37 kW | | | | | |
| n1=2840 | 1860-310 | 1.6-3.2 | 11.710.02.00 | 071-11 | 4-72 |
| n1=1390 | 950-165 | 3-6 | 11.710.03.00 | 071-32 | 4-72 |
| 0.55 kW | | | | | |
| n1=2840 | 1920-335 | 2.2-4.4 | 11.710.03.00 | 071-31 | 4-72 |
| n1=1410 | 950-165 | 4.5-12 | 11.710.04.00 | 080-12 | 4-72 |
| 0.75 kW | | | | | |
| n1=2810 | 1920-335 | 3-9 | 11.710.04.00 | 080-11 | 4-72 |
| n1=1380 | 950-165 | 6-12 | 11.710.04.00 | 080-32 | 4-72 |
| 1.1 kW | | | | | |
| n1=2810 | 1920-335 | 4.5-9 | 11.710.04.00 | 080-31 | 4-72 |
| n1=1420 | 950-165 | 9-24 | 11.710.05.00 | 090-12 | 4-72 |
| 1.5 kW | | | | | |
| n1=2800 | 1920-335 | 6-18 | 11.710.05.00 | 090-11 | 4-72 |
| n1=1420 | 950-165 | 12-24 | 11.710.05.00 | 090-32 | 4-72 |
| 2.2 kW | | | | | |
| n1=2800 | 1920-335 | 9-18 | 11.710.05.00 | 090-31 | 4-72 |
| n1=1400 | 1000-175 | 17-44 | 11.710.06.00 | 100-12 | 4-72 |
| 3 kW | | | | | |
| n1=1400 | 1000-175 | 22-44 | 11.710.06.00 | 100-32 | 4-72 |
| 4 kW | | | | | |
| n1=1430 | 1000-175 | 32-64 | 11.710.07.00 | 112-22 | 4-72 |
| 5.5 kW | | | | | |
| n1=1450 | 1000-200 | 45-90 | 11.710.18.00 | 132-12 | 4-72 |
| 7.5 kW | | | | | |
| n1=1450 | 1000-200 | 58-116 | 11.710.08.00 | 132-22 | 4-72 |

Disco variable speed drives

Selection tables with free input shaft

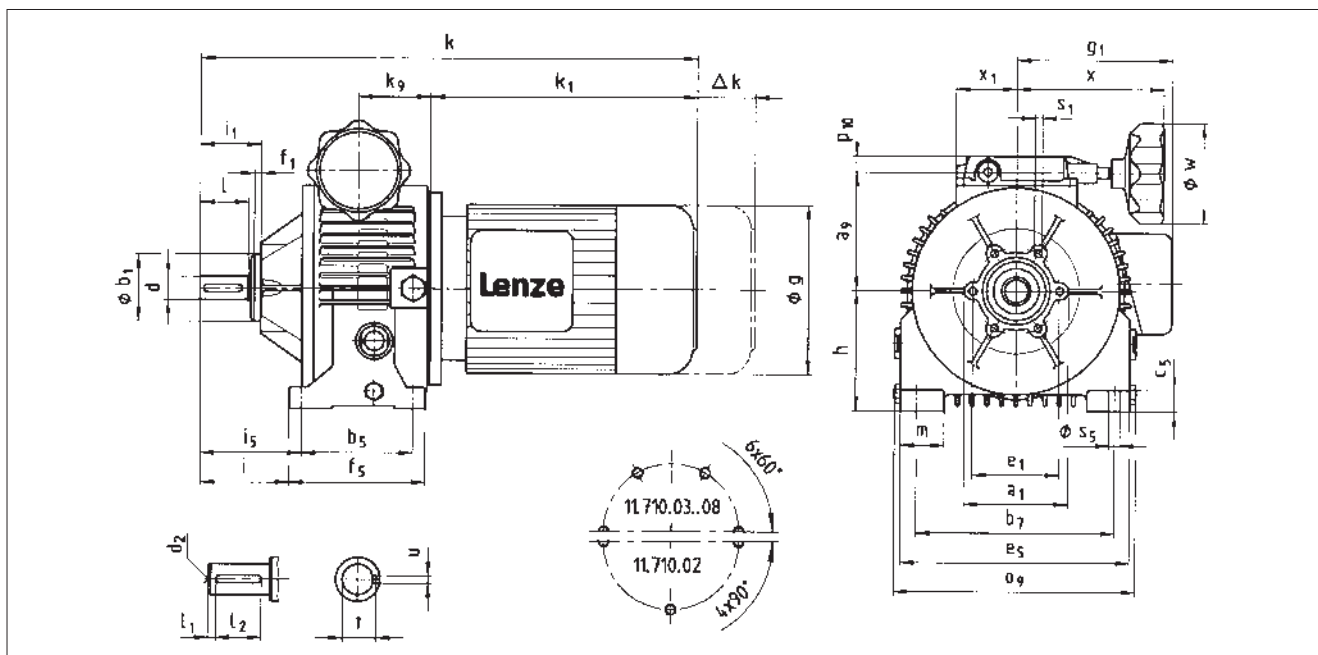


| DISCO Dim. page 4-74 | P _{1 perm} [kW] M _{2 perm} [Nm] n ₂ [min ⁻¹] | n1 | | | |
|-------------------------|---|-----------------------------|---------------------------|--------------------------|-------------------------|
| | | 3000 min ⁻¹ | 1500 min ⁻¹ | 1000 min ⁻¹ | 750 min ⁻¹ |
| 11.700.02.00 | P ₁ M ₂ n ₂ | 0.37 1.6-3.2 1860-310 | 0.25 2-4 930-155 | 0.18 2-4 600-100 | 0.12 2-4 450-75 |
| 11.700.03.00 | P ₁ M ₂ n ₂ | 0.55 2.2-4.4 1920-335 | 0.37 3-6 950-165 | 0.25 3-6 630-110 | 0.18 3-6 460-80 |
| 11.700.04.00 | P ₁ M ₂ n ₂ | 1.1 4.5-9 1920-335 | 0.75 6-12 950-165 | 0.55 6-12 630-110 | 0.37 6-12 460-80 |
| 11.700.05.00 | P ₁ M ₂ n ₂ | 2.2 9-18 1920-335 | 1.5 12-24 950-165 | 1.1 12-24 630-110 | 0.75 12-24 460-80 |
| 11.700.06.00 | P ₁ M ₂ n ₂ | | 3 22-44 1000-175 | 2.2 22-44 660-115 | 1.5 22-44 490-85 |
| 11.700.07.00 | P ₁ M ₂ n ₂ | | 4 32-64 1000-175 | 3 32-64 660-115 | 2.2 32-64 490-85 |
| 11.700.18.00 | P ₁ M ₂ n ₂ | | 5.5 45-90 1000-200 | 4 45-90 660-130 | 3 45-90 490-100 |
| 11.700.08.00 | P ₁ M ₂ n ₂ | | 7.5 58-116 1000-200 | 5.5 58-116 660-130 | 4 58-116 490-100 |



DISCO variable speed drives

Dimensions with motor



4

| DISCO variable speed drives | | Motor frame size | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|----------------|------------------|------------------|------------------|------------------|--------|-------------------|----------------|--------------|-----|--|--|--|-----|-----|--|--|--|--|--|--|--|--|--|-----|
| 11.710. □□.00 Foot design | | 071-1□ 071-3□ | 080-1□ 080-3□ | 090-1□ 090-3□ | 100-1□ 100-3□ | 112-22 | 132-12 | 132-22 | | | | | | | | | | | | | | | | | |
| Motor | g | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | | | | | | | | |
| | g ₁ | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | | | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | | | | | | | | | |
| | k ₁ | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | | | | | | | | |
| Gearbox size | Gearboxes | | | | | | | | Total length | | | | | | | | | | | | | | | | |
| | a ₉ | h | k ₉ | o ₉ | p ₁₀ | w | x | x ₁ | k | | | | | | | | | | | | | | | | |
| 11.710.02 | 83 | 67* | 42 | 150 | 14 | 70 | 105 | 43 | 368 | | | | | | | | | | | | | | | | |
| 11.710.03 | 86 | 80 | 50 | 175 | 14 | 70 | 105 | 43 | 395 | | | | | | | | | | | | | | | | |
| 11.710.04 | 103 | 102 | 58 | 215 | 17 | 105 | 152 | 63 | | 465 | | | | | | | | | | | | | | | |
| 11.710.05 | 123 | 125 | 74 | 253 | 17 | 105 | 152 | 63 | | | | | | 589 | | | | | | | | | | | |
| 11.710.06 | 149 | 150 | 82 | 305 | 17 | 105 | 152 | 63 | | | | | | 596 | | | | | | | | | | | |
| 11.710.07 | 149 | 150 | 82 | 305 | 17 | 105 | 152 | 63 | | | | | | | 659 | | | | | | | | | | |
| 11.710.18 | 190 | 180 | 104 | 379 | 26 | 160 | 195 ¹⁾ | 111 | | | | | | | | | | | | | | | | | |
| 11.710.08 | 190 | 180 | 104 | 379 | 26 | 160 | 195 ¹⁾ | 111 | | | | | | | | | | | | | | | | | 774 |

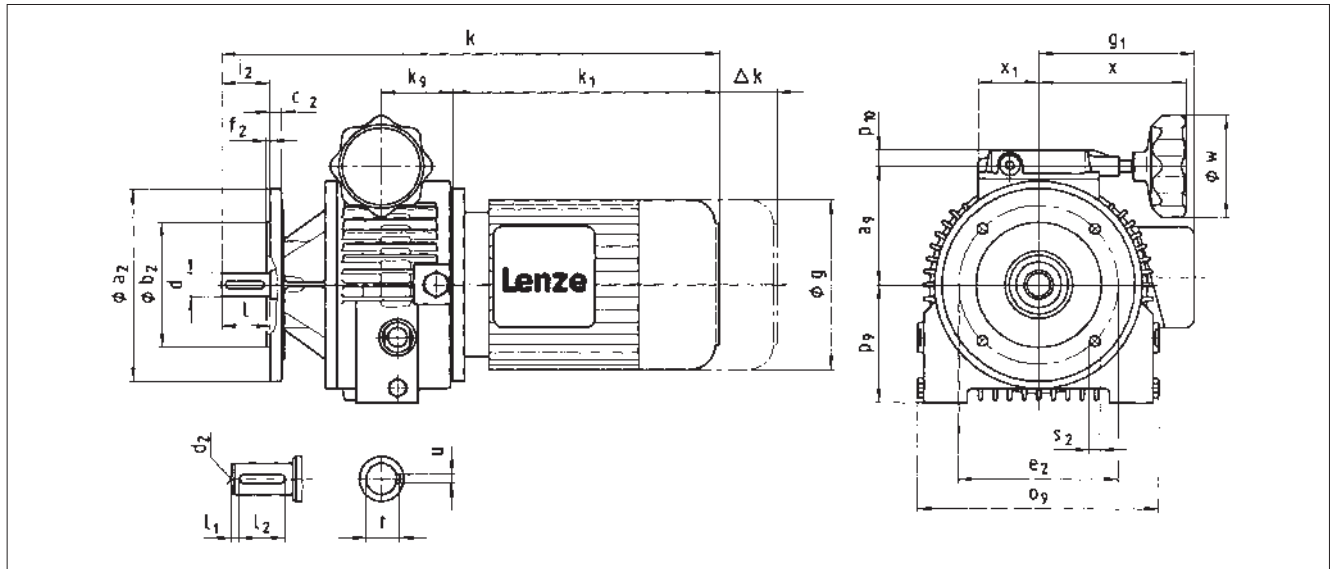
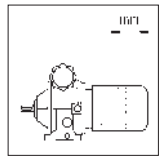
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----|----------------|--|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ h ₇ | e ₁ | f ₁ | i ₁ | s ₁ | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | i | i ₅ | m | s ₅ | |
| 11.710.02 | 11 | 23 | 3 | 16 | M4 | 4 | 12.5 | 86 | 58 | 74 | 5 | 35 | M6x14 | 90 | 110 | 3.5 | 140 | 110 | 33 | 43 | 25 | 10 | |
| 11.710.03 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 90 | 58 | 74 | 5 | 42 | M6x10 | 90 | 120 | 14 | 160 | 125 | 44 | 62 | 32 | 10 | |
| 11.710.04 | 19 | 40 | 5 | 28 | M6 | 6 | 21.5 | 108 | 70 | 90 | 5 | 54 | M8x16 | 100 | 150 | 17 | 200 | 134 | 71 | 89 | 40 | 11 | |
| 11.710.05 | 24 | 50 | 4 | 40 | M8 | 8 | 27 | 108 | 70 | 90 | 5 | 64 | M8x16 | 115 | 205 | 22 | 238 | 140 | 95 | 107 | 45 | 11 | |
| 11.710.06 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 140 | 100 | 120 | 7 | 77 | M10x20 | 220 | 255 | 26 | 290 | 252 | 76 | 92 | 55 | 13.5 | |
| 11.710.07 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 140 | 100 | 120 | 7 | 77 | M10x20 | 220 | 255 | 26 | 290 | 252 | 76 | 92 | 55 | 13.5 | |
| 11.710.18 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 165 | 120 | 145 | 11 | 100 | M12x24 | 255 | 320 | 30 | 364 | 305 | 86 | 110 | 60 | 17.5 | |
| 11.710.08 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 165 | 120 | 145 | 11 | 100 | M12x24 | 255 | 320 | 30 | 364 | 305 | 86 | 110 | 60 | 17.5 | |

Dimensions in [mm] * g/2 > h

1) Plus 80 mm for handle

DISCO variable speed drives

Dimensions with motor



| DISCO variable speed drives | | Motor frame size | | | | | | | | | | | | | | | | |
|-------------------------------|----------------|------------------|------------------|------------------|------------------|--------|-------------------|----------------|--------------|-----|-----|-----|-----|-----|--|--|--|-----|
| 11.710. □ □ .00 Flange design | | 071-1□ 071-3□ | 080-1□ 080-3□ | 090-1□ 090-3□ | 100-1□ 100-3□ | 112-22 | 132-12 | 132-22 | | | | | | | | | | |
| Motor | g | 143 | 160 | 180 | 206 | 222 | 274 | 274 | | | | | | | | | | |
| | g ₁ | 128 | 137 | 147 | 140 | 174 | 196 | 196 | | | | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 151 | 174 | 212 | 212 | | | | | | | | | | |
| | k ₁ | 237 | 267 | 350 | 316 | 379 | 450 | 450 | | | | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 111 | 80 | 63 | 63 | | | | | | | | | | |
| Gearbox size | Gearboxes | | | | | | | | Total length | | | | | | | | | |
| | a ₉ | k ₉ | o ₉ | p ₉ * | p ₁₀ | w | x | x ₁ | k | | | | | | | | | |
| 11.710.02 | 83 | 42 | 150 | 65 | 14 | 70 | 105 | 43 | 368 | | | | | | | | | |
| 11.710.03 | 86 | 50 | 175 | 83 | 14 | 70 | 105 | 43 | 395 | | | | | | | | | |
| 11.710.04 | 103 | 58 | 215 | 98 | 17 | 105 | 152 | 63 | | 465 | | | | | | | | |
| 11.710.05 | 123 | 74 | 253 | 122 | 17 | 105 | 152 | 63 | | | 589 | | | | | | | |
| 11.710.06 | 149 | 82 | 305 | 145 | 17 | 105 | 152 | 63 | | | | 596 | | | | | | |
| 11.710.07 | 149 | 82 | 305 | 145 | 17 | 105 | 152 | 63 | | | | | 659 | | | | | |
| 11.710.18 | 190 | 104 | 379 | 176 | 26 | 160 | 195 ¹⁾ | 111 | | | | | | 774 | | | | |
| 11.710.08 | 190 | 104 | 379 | 176 | 26 | 160 | 195 ¹⁾ | 111 | | | | | | | | | | 774 |

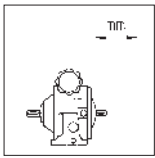
| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|--|
| | 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 | |
| 11.710.02 | 11 | 23 | 3 | 16 | M4 | 4 | 12,5 | 120 | 80 | 12 | 100 | 3 | 23 | 7 | |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3,5 | | 9 | |
| 11.710.03 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 140 | 95 | 10 | 115 | 3 | 30 | 9 | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3,5 | | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3,5 | | 11 | |
| 11.710.04 | 19 | 40 | 5 | 28 | M6 | 6 | 21,5 | 160 | 110 | 12 | 130 | 3,5 | 40 | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3,5 | | 11 | |
| | | | | | | | | 250 | 180 | 14 | 215 | 4 | | 14 | |
| 11.710.05 | 24 | 50 | 4 | 40 | M8 | 8 | 27 | 160 | 110 | 12 | 130 | 3,5 | 50 | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3,5 | | 11 | |
| | | | | | | | | 250 | 180 | 14 | 215 | 4 | | 14 | |
| 11.710.06 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 200 | 130 | 14 | 165 | 3,5 | 60 | 11 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 14 | |
| | | | | | | | | 300 | 230 | 17 | 265 | 4 | | 14 | |
| 11.710.07 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 200 | 130 | 14 | 165 | 3,5 | 60 | 11 | |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 14 | |
| | | | | | | | | 300 | 230 | 17 | 265 | 4 | | 14 | |
| 11.710.18 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 250 | 180 | 16 | 215 | 4 | 80 | 14 | |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | | 14 | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 | |
| 11.710.08 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 250 | 180 | 16 | 215 | 4 | 80 | 14 | |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | | 14 | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 | |

Dimensions in [mm]

* g/2 > h

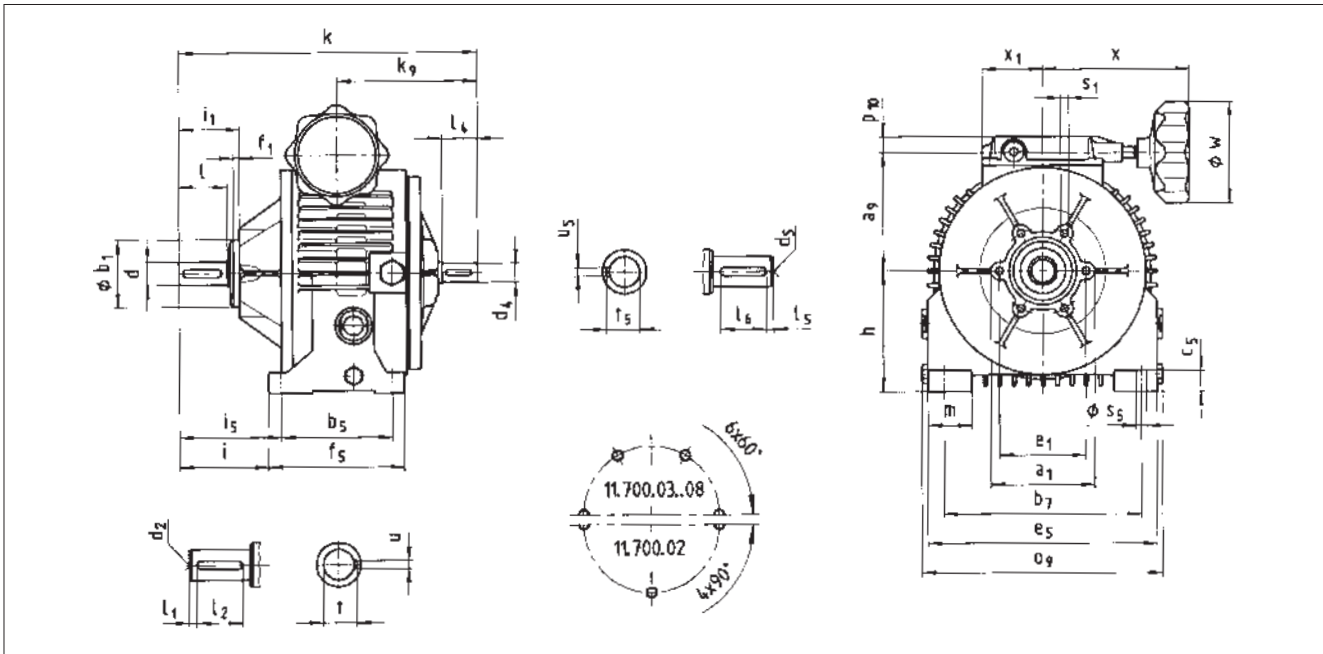
1) Plus 80 mm for handle

11.710.02: Mounting to machine wall: Provide stud bolts



DISCO variable speed drives

Dimensions with free input shaft



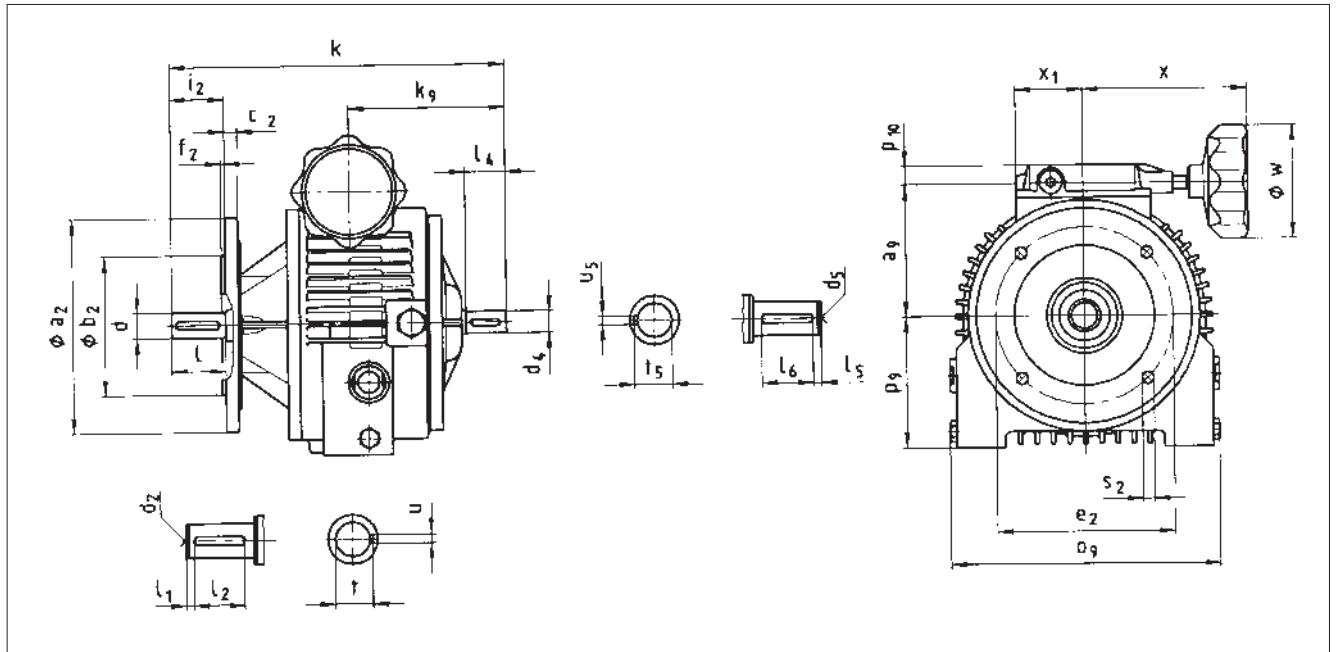
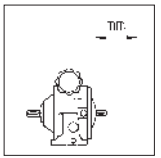
4

DISCO variable speed drives
11.700. □□.00 Foot design

| Gearbox size | Gearboxes | | | | | | | | Input shaft | | | | | | Total length k | |
|--------------|----------------|-----|----------------|----------------|-----------------|-----|-------------------|----------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|
| | a ₉ | h | k ₉ | o ₉ | p ₁₀ | w | x | x ₁ | d ₄ k ₆ | l ₄ | l ₅ | l ₆ | d ₅ | u ₅ | | t ₅ +0.2 |
| 11.700.02 | 83 | 67 | 94 | 150 | 14 | 70 | 105 | 43 | 11 | 23 | 3 | 16 | M4 | 4 | 12.5 | 183 |
| 11.700.03 | 86 | 80 | 112 | 175 | 14 | 70 | 105 | 43 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 219 |
| 11.700.04 | 103 | 102 | 112 | 215 | 17 | 105 | 152 | 63 | 15 | 30 | 5 | 20 | M5 | 5 | 17 | 251 |
| 11.700.05 | 123 | 125 | 147 | 253 | 17 | 105 | 152 | 63 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 312 |
| 11.700.06 | 149 | 150 | 186 | 305 | 17 | 105 | 152 | 63 | 25 | 50 | 5 | 40 | M10 | 8 | 28 | 383 |
| 11.700.07 | 149 | 150 | 186 | 305 | 17 | 105 | 152 | 63 | 25 | 50 | 5 | 40 | M10 | 8 | 28 | 383 |
| 11.700.18 | 190 | 180 | 256 | 379 | 26 | 160 | 195 ¹⁾ | 111 | 30 | 60 | 3 | 50 | M10 | 8 | 33 | 476 |
| 11.700.08 | 190 | 180 | 256 | 379 | 26 | 160 | 195 ¹⁾ | 111 | 30 | 60 | 3 | 50 | M10 | 8 | 33 | 476 |

| Gearbox size | Solid shaft | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|-----------|----------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----|----------------|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t +0.2 | a ₁ | b ₁ h ₇ | e ₁ | f ₁ | i ₁ | s ₁ | b ₅ | b ₇ | c ₅ | e ₅ | f ₅ | i | i ₅ | m | s ₅ |
| 11.700.02 | 11 | 23 | 3 | 16 | M4 | 4 | 12.5 | 86 | 58 | 74 | 5 | 35 | M6x14 | 90 | 110 | 3.5 | 140 | 110 | 33 | 43 | 25 | 10 |
| 11.700.03 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 90 | 58 | 74 | 5 | 42 | M6x10 | 90 | 120 | 14 | 160 | 125 | 44 | 62 | 32 | 10 |
| 11.700.04 | 19 | 40 | 5 | 28 | M6 | 6 | 21.5 | 108 | 70 | 90 | 5 | 54 | M8x16 | 100 | 150 | 17 | 200 | 134 | 71 | 89 | 40 | 11 |
| 11.700.05 | 24 | 50 | 4 | 40 | M8 | 8 | 27 | 108 | 70 | 90 | 5 | 64 | M8x16 | 115 | 205 | 22 | 238 | 140 | 95 | 107 | 45 | 11 |
| 11.700.06 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 140 | 100 | 120 | 7 | 77 | M10x20 | 220 | 255 | 26 | 290 | 252 | 76 | 92 | 55 | 13.5 |
| 11.700.07 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 140 | 100 | 120 | 7 | 77 | M10x20 | 220 | 255 | 26 | 290 | 252 | 76 | 92 | 55 | 13.5 |
| 11.700.18 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 165 | 120 | 145 | 11 | 100 | M12x24 | 255 | 320 | 30 | 364 | 305 | 86 | 110 | 60 | 17.5 |
| 11.700.08 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 165 | 120 | 145 | 11 | 100 | M12x24 | 255 | 320 | 30 | 364 | 305 | 86 | 110 | 60 | 17.5 |

Dimensions in [mm] 1) Plus 80 mm for handle



DISCO variable speed drives

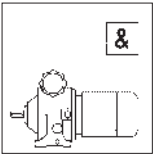
11.700. □ □ .00 Flange design

| Gearbox size | Gearboxes | | | | | | | Input shaft | | | | | | | Total length k | |
|--------------|----------------|----------------|----------------|------------------|-----------------|-----|-------------------|----------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|-------------------|------------------------|
| | a ₉ | k ₉ | o ₉ | p ₉ * | p ₁₀ | w | x | x ₁ | d ₄ k ₆ | l ₄ | l ₅ | l ₆ | d ₅ | u ₅ | | t ₅ +0.2 |
| 11.700.02 | 83 | 94 | 150 | 65 | 14 | 70 | 105 | 43 | 11 | 23 | 3 | 16 | M4 | 4 | 12.5 | 183 |
| 11.700.03 | 86 | 112 | 175 | 83 | 14 | 70 | 105 | 43 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 219 |
| 11.700.04 | 103 | 112 | 215 | 98 | 17 | 105 | 152 | 63 | 15 | 30 | 5 | 20 | M5 | 5 | 17 | 251 |
| 11.700.05 | 123 | 147 | 253 | 122 | 17 | 105 | 152 | 63 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 312 |
| 11.700.06 | 149 | 186 | 305 | 145 | 17 | 105 | 152 | 63 | 25 | 50 | 5 | 40 | M10 | 8 | 28 | 383 |
| 11.700.07 | 149 | 186 | 305 | 145 | 17 | 105 | 152 | 63 | 25 | 50 | 5 | 40 | M10 | 8 | 28 | 383 |
| 11.700.18 | 190 | 256 | 379 | 176 | 26 | 160 | 195 ¹⁾ | 111 | 30 | 60 | 3 | 50 | M10 | 8 | 33 | 476 |
| 11.700.08 | 190 | 256 | 379 | 176 | 26 | 160 | 195 ¹⁾ | 111 | 30 | 60 | 3 | 50 | M10 | 8 | 33 | 476 |

| Gearbox size | Solid shaft | | | | | | | Flange | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|-----------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ |
| 11.700.02 | 11 | 23 | 3 | 16 | M4 | 4 | 12.5 | 120 | 80 | 12 | 100 | 3 | 23 | 7 |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3.5 | | |
| 11.700.03 | 14 | 30 | 4 | 20 | M5 | 5 | 16 | 140 | 95 | 10 | 115 | 3 | 30 | 9 |
| | | | | | | | | 160 | 110 | 10 | 130 | 3.5 | | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | |
| 11.700.04 | 19 | 40 | 5 | 28 | M6 | 6 | 21.5 | 160 | 110 | 12 | 130 | 3.5 | 40 | 9 |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | |
| | | | | | | | | 250 | 180 | 14 | 215 | 4 | | |
| 11.700.05 | 24 | 50 | 4 | 40 | M8 | 8 | 27 | 160 | 110 | 12 | 130 | 3.5 | 50 | 9 |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | | |
| | | | | | | | | 250 | 180 | 14 | 215 | 4 | | |
| 11.700.06 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | |
| | | | | | | | | 300 | 230 | 17 | 265 | 4 | | |
| 11.700.07 | 28 | 60 | 6 | 40 | M10 | 8 | 31 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | |
| | | | | | | | | 300 | 230 | 17 | 265 | 4 | | |
| 11.700.18 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 250 | 180 | 16 | 215 | 4 | 80 | 14 |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | |
| 11.700.08 | 38 | 80 | 10 | 56 | M12 | 10 | 41 | 250 | 180 | 16 | 215 | 4 | 80 | 14 |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | | |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | |

Dimensions in [mm] 1) Plus 80 mm for handle

11.700.02: Mounting to machine wall: Provide stud bolts



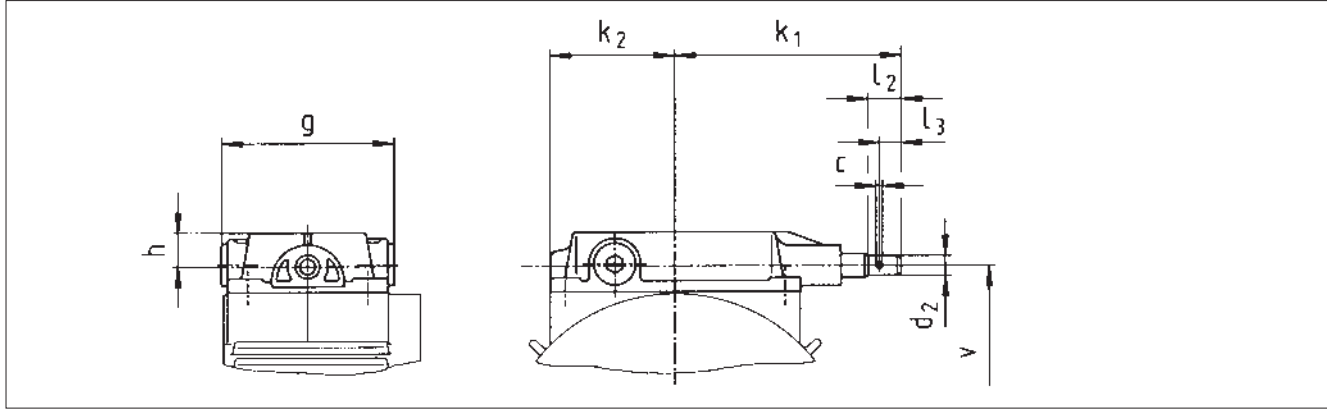
DISCO variable speed drives

Additional dimensions – attachments

Speed adjustment units

Spindle box

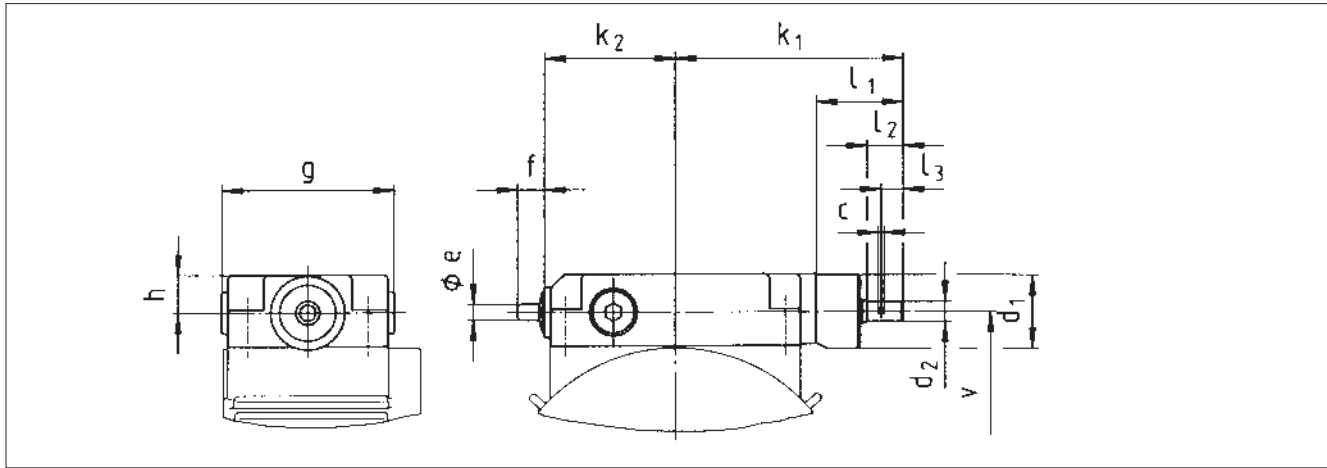
Standard design for handwheel adjustment



| DISCO-size | c + 0.1 | d ₂ h9 | g | h | k ₁ | k ₂ | l ₂ | l ₃ | v |
|------------|------------|----------------------|----|----|----------------|----------------|----------------|----------------|-----|
| 02 | 3.2 | 8 | 64 | 14 | 74 | 43 | 12.5 | 7 | 83 |
| 03 | 3.2 | 8 | 64 | 14 | 74 | 43 | 12.5 | 7 | 86 |
| 04 | 3.2 | 10 | 86 | 17 | 114 | 63 | 16.5 | 11 | 103 |
| 05 | 3.2 | 10 | 86 | 17 | 114 | 63 | 16.5 | 11 | 123 |
| 06/07 | 3.2 | 10 | 86 | 17 | 114 | 63 | 16.5 | 11 | 149 |

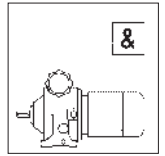
Options

Universal design suitable for handwheel adjustment, bevel gear adjustment and electrical remote control



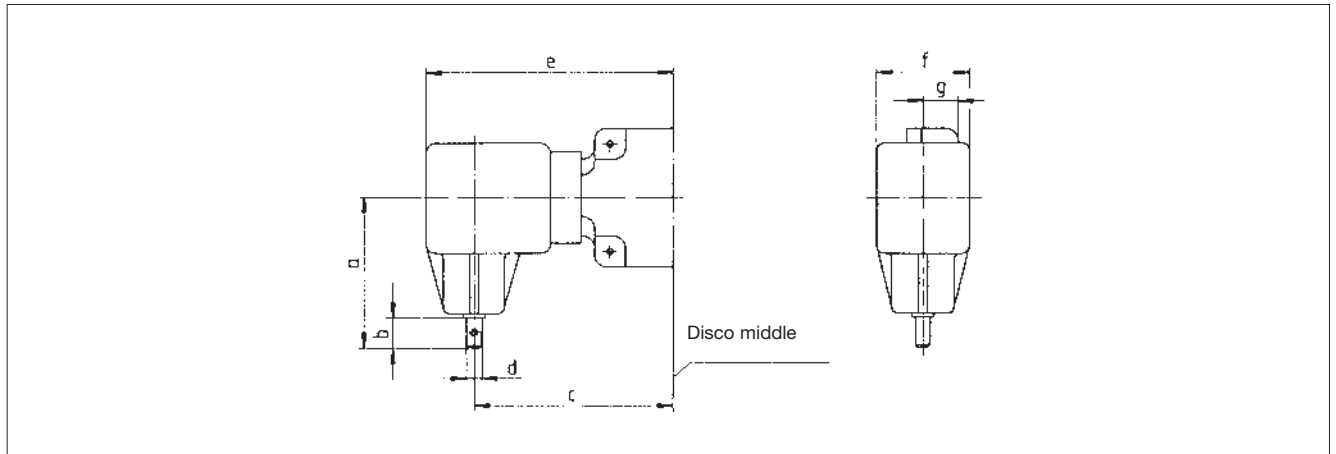
| DISCO-size | c + 0.1 | d ₁ h9 | d ₂ j7 | e | f | g | h | k ₁ | k ₂ | l ₁ | l ₂ | l ₃ | v |
|------------|------------|----------------------|----------------------|---|----|-----|----|----------------|----------------|----------------|----------------|----------------|-----|
| 02 | 3.0 | 30 | 8 | 8 | 13 | 64 | 16 | 84 | 46 | 31 | 14 | 7 | 86 |
| 03 | 3.0 | 30 | 8 | 8 | 13 | 64 | 16 | 84 | 46 | 31 | 14 | 7 | 89 |
| 04 | 3.0 | 37 | 10 | 8 | 13 | 86 | 19 | 114 | 66 | 42 | 18 | 11 | 107 |
| 05 | 3.0 | 37 | 10 | 8 | 13 | 86 | 19 | 114 | 66 | 42 | 18 | 11 | 125 |
| 06/07 | 3.0 | 37 | 10 | 8 | 13 | 86 | 19 | 114 | 66 | 42 | 18 | 11 | 153 |
| 18/08* | 4.0 | 52 | 15 | 8 | 13 | 106 | 26 | 161 | 98 | 55 | 21 | 14 | 190 |

* With size 18/08 standard design
Dimensions in [mm]



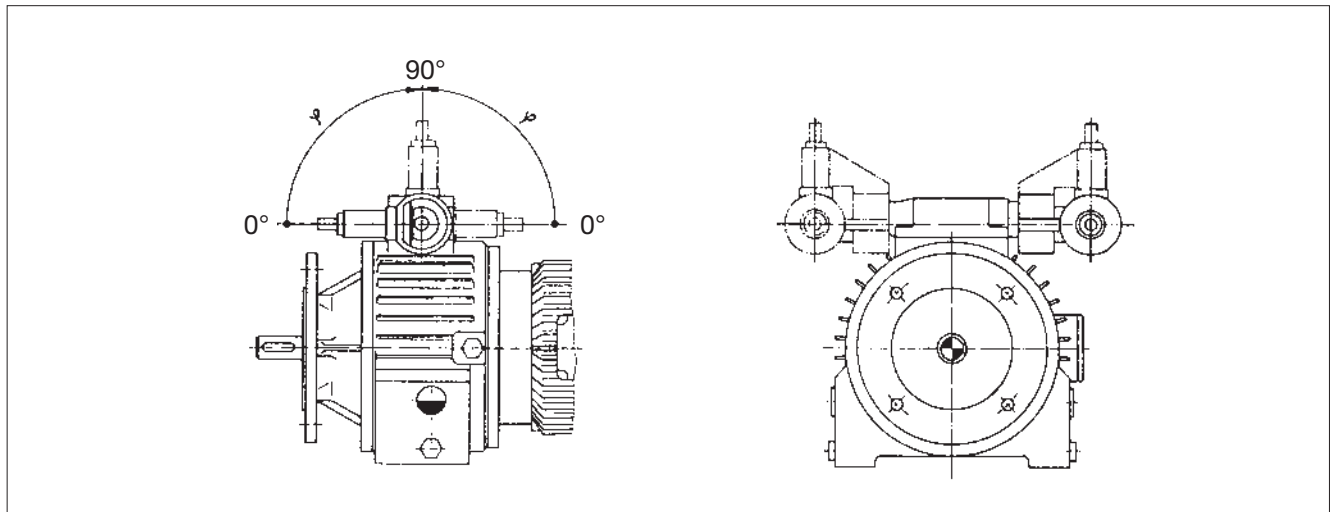
Speed adjustment units

Bevel gear adjustment (optionally)



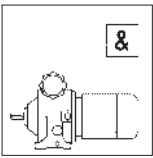
| DISCO-size | a | b | c | d h8 | e | f | g |
|-------------|-----|----|-----|---------|-----|----|----|
| 02/03 | 75 | 22 | 94 | 8 | 116 | 46 | 16 |
| 04/05/06/07 | 93 | 18 | 127 | 10 | 157 | 56 | 19 |
| 18/08 | 107 | 21 | 173 | 15 | 203 | 73 | 26 |

Dimensions in [mm]



| DISCO-size | Swivel range φ | |
|------------|------------------------|---|
| | Handwheel | Handwheel with position indicator 0° $\hat{=}$ horizontal layout |
| 02/03/04 | 90° | 0 – 45° |
| 05/06/07 | 90° | 0 – 45° |
| 18/08 | 20 – 90° | 20 – 45° |

Dimensions in [mm]



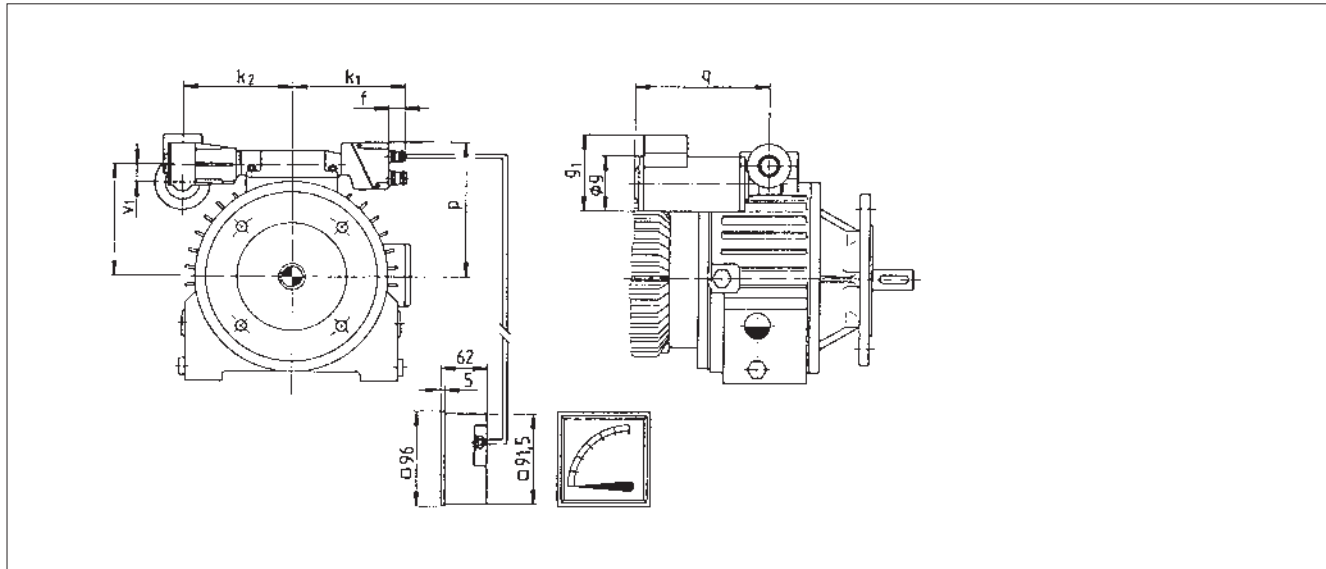
DISCO variable speed drives

Additional dimensions – attachments

Speed adjustment units

Electrical remote control (optionally)

| Position Spindle box | Position adjustment unit | | | |
|-------------------------|--|-------|-------|-------|
| | 2 | 3 | 4 | 5 |
| | Permissible terminal box position for main motor | | | |
| 2 | | 2-4-5 | 2-3-4 | |
| 3 | | | 2-3-4 | |
| 4 | | | | 2-3-4 |
| 5 | 3-4-5 | | | |

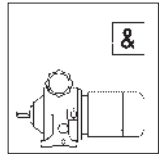


| DISCO-size | f | g | g ₁ | k ₁ | k ₂ | p | q | v | v ₁ |
|------------|----|-----|----------------|----------------|-------------------|-----|-----|-----|----------------|
| 02 | 19 | 65 | 123 | 137 | 119 | 118 | 170 | 86 | 25 |
| 03 | | | | | | 121 | | 89 | |
| 04 | 19 | 85 | 144 | 152 | 153 | 139 | 199 | 107 | 31 |
| 05 | | | | | | 159 | | 127 | |
| 06 | 19 | 85 | 144 | 152 | 153 | 185 | 199 | 153 | 31 |
| 07 | | | | | | | | | |
| 18/08 | 19 | 118 | 164 | 190 | 243 ¹⁾ | 222 | 221 | 190 | 40 |

¹⁾ With slip clutch
Dimensions in [mm]

DISCO variable speed drives

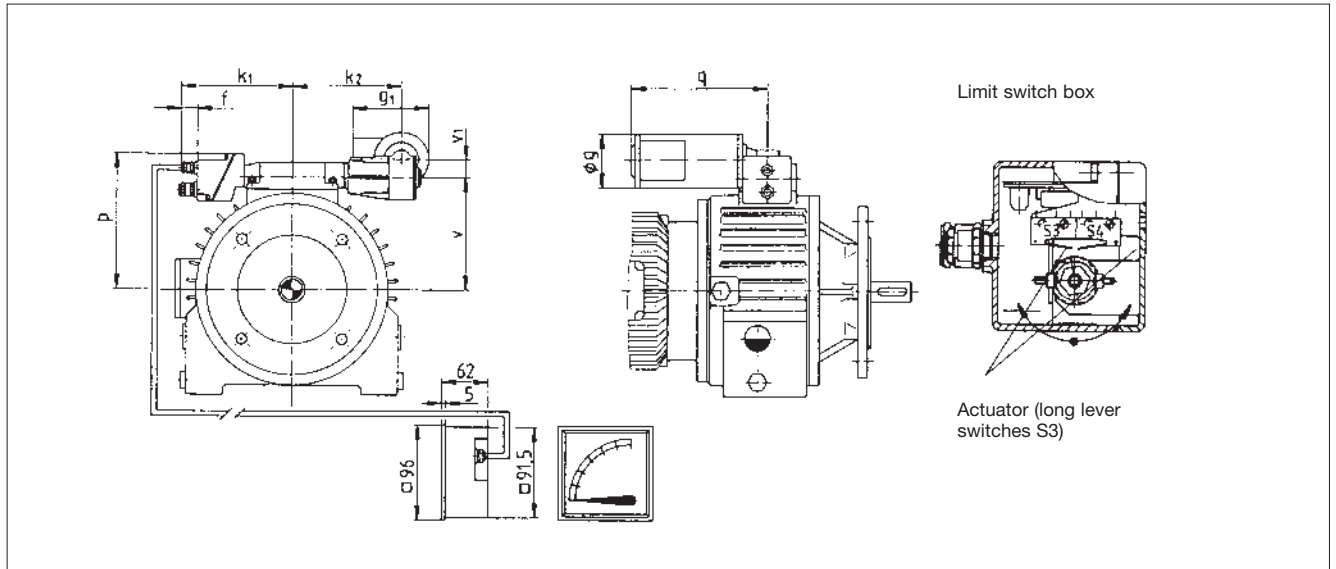
Additional dimensions – attachments



Speed adjustment units

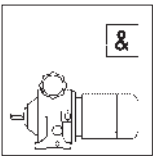
Electrical remote control (optionally)

| Position Spindle box | Position adjustment unit | | | |
|-------------------------|---|-------|-------|-------|
| | 2 | 3 | 4 | 5 |
| | Permissible terminal box position for main motors | | | |
| 2 | | | | 3-4-5 |
| 3 | 2-4-5 | | | |
| 4 | | 2-3-5 | | |
| 5 | | | 2-3-4 | |



| DISCO-size | f | g | g ₁ | k ₁ | k ₂ | p | q | v | v ₁ |
|------------|----|-----|----------------|----------------|-------------------|-----|-----|-----|----------------|
| 02 | 19 | 65 | 123 | 137 | 119 | 118 | 170 | 86 | 25 |
| 03 | | | | | | 121 | | 89 | |
| 04 | 19 | 85 | 144 | 152 | 153 | 139 | 199 | 107 | 31 |
| 05 | | | | | | 159 | | 127 | |
| 06 | 19 | 85 | 144 | 152 | 153 | 185 | 199 | 153 | 31 |
| 07 | | | | | | | | | |
| 18/08 | 19 | 118 | 164 | 190 | 243 ¹⁾ | 222 | 221 | 190 | 40 |

¹⁾ With slip clutch
Dimensions in [mm]

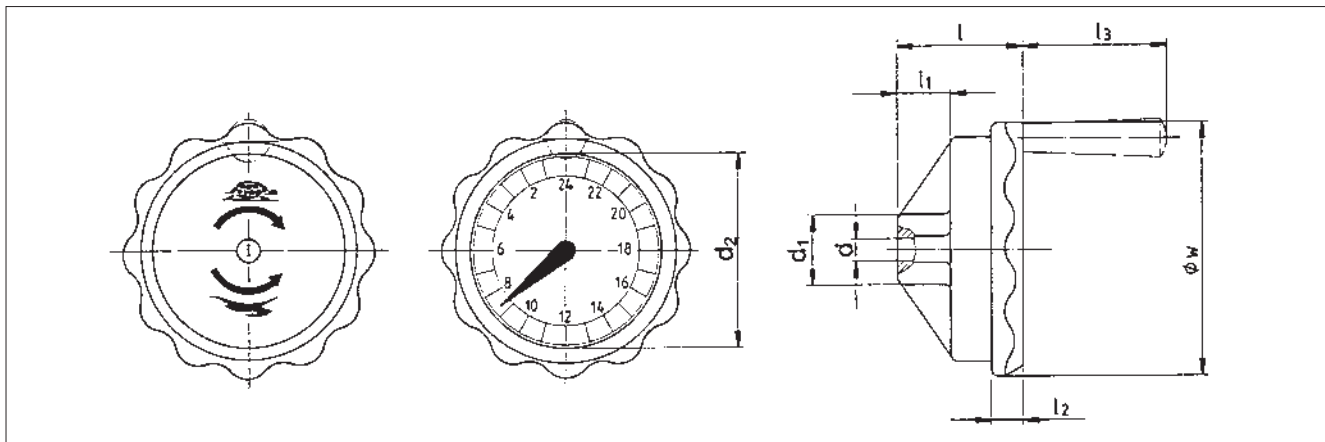


DISCO variable speed drives

Additional dimensions – attachments

Speed measuring units

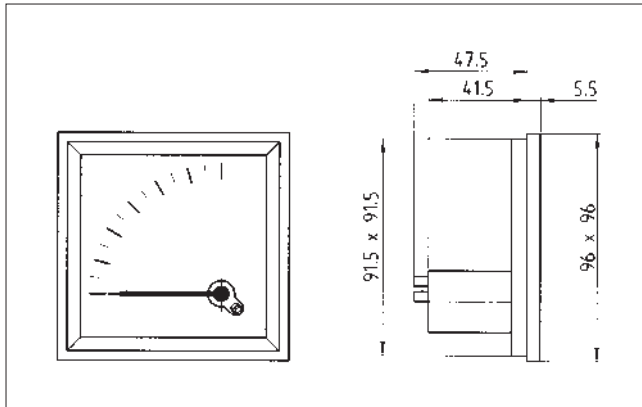
Position indicator*/Indicator for direction of rotation



| DISCO-size | d H ₉ | d ₁ | d ₂ | l | l ₁ | l ₂ | l ₃ | w |
|----------------|---------------------|----------------|----------------|----|----------------|----------------|----------------|-----|
| 02/03 | 8 | 20 | 52 | 43 | 15 | 10 | – | 70 |
| 04/05 06/07 | 10 | 30 | 85 | 55 | 23 | 14 | – | 105 |
| 18/08 | 15 | 25 | 85 | 55 | 23 | 15 | 80 | 160 |

** Display only with horizontal layout ± 45°

Analog display



Dimensions in [mm]



Compact units

With helical gearboxes

| | |
|----------------------------------|------|
| Selection tables | 5-2 |
| Combinations | 5-14 |
| Dimensions | |
| GST □□ - 1 | 5-18 |
| GST □□ - 2 | 5-24 |
| GST □□ - 3 | 5-30 |
| Test dimensions | 5-36 |
| Additional dimensions GST | |
| Output design VAR | 5-39 |
| Output design VAL | 5-39 |

With helical-bevel gearboxes

| | |
|---|------|
| Selection tables | 5-40 |
| Combinations | 5-55 |
| Dimensions | |
| GKS □□ - 3 | 5-56 |
| GKS □□ - 4 | 5-64 |
| Test dimensions | 5-72 |
| Additional dimensions GKS | |
| Torque plate at housing foot | 5-74 |
| Torque plate at pitch circle | 5-75 |
| Hollow shaft with shrink disc | 5-76 |
| Hollow shaft protection - jet-proof | 5-77 |
| with 2nd output shaft end | 5-78 |
| Mounting kit - hollow shaft retention | 5-79 |
| Design proposal for auxiliary tools | 5-79 |

With helical-worm gearboxes

| | |
|---|-------|
| Selection tables | 5-80 |
| Combinations | 5-89 |
| Dimensions | |
| GSS □□ - 2 | 5-90 |
| GSS □□ - 3 | 5-98 |
| Test dimensions | 5-106 |
| Additional dimensions GSS | |
| Torque plate at housing foot | 5-108 |
| Torque plate at pitch circle | 5-109 |
| Hollow shaft with shrink disc | 5-110 |
| Hollow shaft protection - jet-proof | 5-111 |
| with 2nd output shaft end | 5-112 |
| Mounting kit - hollow shaft retention | 5-113 |
| Design proposal for auxiliary tools | 5-113 |

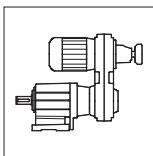
Additional dimensions – attachments

Speed adjustment units

| | |
|------------------------------------|-------|
| Front adjustment | 5-114 |
| Angle adjustment | 5-114 |
| Electrical remote adjustment | 5-115 |
| Permissible positions | 5-116 |

Speed measuring units

| | |
|---|-------|
| DC speed encoder | 5-117 |
| Pulse encoder | 5-117 |
| Position indicator | 5-118 |
| Indicator for direction of rotation | 5-118 |
| Analog display | 5-118 |
| Digital display | 5-118 |

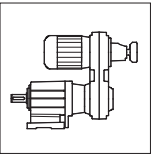


Compact units

Selection tables with helical gearboxes

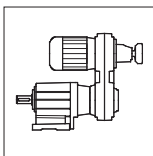
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|--------------------|---------------------------|---------------------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.25 kW | | | | GST □□ - 1K | 5-18 | |
| | 2105 - 380 | 0.8 - 5.0 | 1.600 | GST04 - 1K □□□ 071-12 10B | | |
| | 1645 - 297 | 1.1 - 6.4 | 2.048 | GST04 - 1K □□□ 071-12 10B | | |
| | 1504 - 272 | 1.2 - 7.0 | 2.240 | GST04 - 1K □□□ 071-12 10B | | |
| | 1179 - 213 | 1.5 - 8.9 | 2.857 | GST04 - 1K □□□ 071-12 10B | | |
| | 962 - 174 | 1.9 - 11 | 3.500 | GST04 - 1K □□□ 071-12 10B | | |
| | 765 - 138 | 2.3 - 14 | 4.400 | GST04 - 1K □□□ 071-12 10B | | |
| | 594 - 107 | 3.0 - 18 | 5.667 | GST04 - 1K □□□ 071-12 10B | | |
| | 469 - 85 | 3.8 - 22 | 7.182 | GST04 - 1K □□□ 071-12 10B | | |
| | 374 - 68 | 4.8 - 23 | 9.000 | GST04 - 1K □□□ 071-12 10B | | |
| | | | | GST □□ - 2K | | 5-24 |
| | 342 - 62 | 5.1 - 30 | 9.856 | GST04 - 2K □□□ 071-12 10B | | |
| | 268 - 48 | 6.6 - 39 | 12.571 | GST04 - 2K □□□ 071-12 10B | | |
| | 219 - 40 | 8.0 - 47 | 15.400 | GST04 - 2K □□□ 071-12 10B | | |
| | 174 - 31 | 10 - 59 | 19.360 | GST04 - 2K □□□ 071-12 10B | | |
| | 135 - 24 | 13 - 71 | 24.933 | GST04 - 2K □□□ 071-12 10B | | |
| | 107 - 19 | 16 - 72 | 31.600 | GST04 - 2K □□□ 071-12 10B | | |
| | 85 - 15 | 21 - 73 | 39.600 | GST04 - 2K □□□ 071-12 10B | | |
| | 67 - 12 | 26 - 136 | 50.050 | GST05 - 2K □□□ 071-12 10B | | |
| | | | | GST □□ - 3K | 5-30 | |
| | 53 - 9.6 | 33 - 146 | 63.467 | GST05 - 3K □□□ 071-12 10B | | |
| | 42 - 7.5 | 42 - 147 | 80.952 | GST05 - 3K □□□ 071-12 10B | | |
| | 34 - 6.1 | 51 - 148 | 99.167 | GST05 - 3K □□□ 071-12 10B | | |
| | 27 - 4.9 | 64 - 149 | 124.667 | GST05 - 3K □□□ 071-12 10B | | |
| | 21 - 3.8 | 82 - 150 | 160.556 | GST05 - 3K □□□ 071-12 10B | | |
| | 17 - 3.0 | 104 - 346 | 203.485 | GST06 - 3K □□□ 071-12 10B | | |
| | 13 - 2.4 | 116 - 152 | 255.000 | GST05 - 3K □□□ 071-12 10B | | |
| | 10 - 1.8 | 169 - 352 | 330.000 | GST06 - 3K □□□ 071-12 10B | | |
| | 8.1 - 1.5 | 214 - 710 | 417.083 | GST07 - 3K □□□ 071-12 10B | | |
| | 0.37 kW | | | | GST □□ - 1K | 5-18 |
| 2090 - 378 | | 1.3 - 5.0 | 1.600 | GST04 - 1K □□□ 071-32 10B | | |
| 1633 - 295 | | 1.6 - 6.4 | 2.048 | GST04 - 1K □□□ 071-32 10B | | |
| 1493 - 270 | | 1.8 - 7.0 | 2.240 | GST04 - 1K □□□ 071-32 10B | | |
| 1170 - 212 | | 2.3 - 9.0 | 2.857 | GST04 - 1K □□□ 071-32 10B | | |
| 955 - 173 | | 2.8 - 11 | 3.500 | GST04 - 1K □□□ 071-32 10B | | |
| 760 - 137 | | 3.5 - 14 | 4.400 | GST04 - 1K □□□ 071-32 10B | | |
| 590 - 107 | | 4.5 - 18 | 5.667 | GST04 - 1K □□□ 071-32 10B | | |
| 466 - 84 | | 5.7 - 23 | 7.182 | GST04 - 1K □□□ 071-32 10B | | |
| 372 - 67 | | 7.1 - 23 | 9.000 | GST04 - 1K □□□ 071-32 10B | | |
| | | | GST □□ - 2K | 5-24 | | |
| 339 - 61 | | 7.7 - 30 | 9.856 | | GST04 - 2K □□□ 071-32 10B | |
| 266 - 48 | | 9.8 - 39 | 12.571 | | GST04 - 2K □□□ 071-32 10B | |
| 217 - 39 | | 12 - 48 | 15.400 | | GST04 - 2K □□□ 071-32 10B | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|----------|---------------------------|---------------------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.37 kW | | | | GST □□ - 2K | 5-24 | |
| | 173 - 31 | 15 - 60 | 19.360 | GST04 - 2K □□□ 071-32 10B | | |
| | 134 - 24 | 19 - 71 | 24.933 | GST04 - 2K □□□ 071-32 10B | | |
| | 106 - 19 | 25 - 72 | 31.600 | GST04 - 2K □□□ 071-32 10B | | |
| | 84 - 15 | 31 - 73 | 39.600 | GST04 - 2K □□□ 071-32 10B | | |
| | 67 - 12 | 39 - 136 | 50.050 | GST05 - 2K □□□ 071-32 10B | | |
| | | | | GST □□ - 3K | 5-30 | |
| | 53 - 9.5 | 49 - 146 | 63.467 | GST05 - 3K □□□ 071-32 10B | | |
| | 41 - 7.5 | 62 - 147 | 80.952 | GST05 - 3K □□□ 071-32 10B | | |
| | 34 - 6.1 | 76 - 148 | 99.167 | GST05 - 3K □□□ 071-32 10B | | |
| | 27 - 4.8 | 95 - 149 | 124.667 | GST05 - 3K □□□ 071-32 10B | | |
| | 21 - 3.8 | 115 - 150 | 160.556 | GST05 - 3K □□□ 071-32 10B | | |
| | 16 - 3.0 | 156 - 346 | 203.485 | GST06 - 3K □□□ 071-32 10B | | |
| | 13 - 2.4 | 195 - 349 | 255.000 | GST06 - 3K □□□ 071-32 10B | | |
| | 10 - 1.8 | 253 - 352 | 330.000 | GST06 - 3K □□□ 071-32 10B | | |
| | 8.0 - 1.4 | 319 - 710 | 417.083 | GST07 - 3K □□□ 071-32 10B | | |
| | 0.55 kW | | | | GST □□ - 1K | 5-18 |
| | | 2053 - 388 | 1.9 - 11 | 1.600 | GST04 - 1K □□□ 080-12 13C | |
| | | 1604 - 303 | 2.4 - 14 | 2.048 | GST04 - 1K □□□ 080-12 13C | |
| | | 1467 - 277 | 2.7 - 15 | 2.240 | GST04 - 1K □□□ 080-12 13C | |
| 1150 - 217 | | 3.4 - 19 | 2.857 | GST04 - 1K □□□ 080-12 13C | | |
| 939 - 177 | | 4.2 - 24 | 3.500 | GST04 - 1K □□□ 080-12 13C | | |
| 747 - 141 | | 5.3 - 25 | 4.400 | GST04 - 1K □□□ 080-12 13C | | |
| 580 - 109 | | 6.8 - 25 | 5.667 | GST04 - 1K □□□ 080-12 13C | | |
| 448 - 85 | | 8.8 - 46 | 7.333 | GST05 - 1K □□□ 080-12 13C | | |
| 369 - 70 | | 11 - 42 | 8.900 | GST05 - 1K □□□ 080-12 13C | | |
| | | | | GST □□ - 2K | 5-24 | |
| 333 - 63 | | 12 - 65 | 9.856 | GST04 - 2K □□□ 080-12 13C | | |
| 261 - 49 | | 15 - 69 | 12.571 | GST04 - 2K □□□ 080-12 13C | | |
| 213 - 40 | | 18 - 70 | 15.400 | GST04 - 2K □□□ 080-12 13C | | |
| 170 - 32 | | 23 - 70 | 19.360 | GST04 - 2K □□□ 080-12 13C | | |
| 132 - 25 | | 29 - 71 | 24.933 | GST04 - 2K □□□ 080-12 13C | | |
| 102 - 19 | | 38 - 164 | 32.267 | GST05 - 2K □□□ 080-12 13C | | |
| 84 - 16 | | 46 - 165 | 39.160 | GST05 - 2K □□□ 080-12 13C | | |
| 74 - 14 | | 52 - 149 | 44.500 | GST05 - 2K □□□ 080-12 13C | | |
| | | | | GST □□ - 3K | 5-30 | |
| 64 - 12 | | 59 - 325 | 51.022 | GST06 - 3K □□□ 080-12 13C | | |
| 52 - 9.8 | | 74 - 146 | 63.467 | GST05 - 3K □□□ 080-12 13C | | |
| 41 - 7.7 | | 94 - 147 | 80.952 | GST05 - 3K □□□ 080-12 13C | | |
| 33 - 6.3 | | 114 - 148 | 99.167 | GST05 - 3K □□□ 080-12 13C | | |
| 26 - 5.0 | | 145 - 339 | 124.667 | GST06 - 3K □□□ 080-12 13C | | |
| 20 - 3.9 | | 186 - 342 | 160.556 | GST06 - 3K □□□ 080-12 13C | | |

Thermal limit not considered (see note on page 3-12)

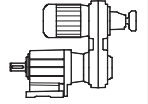


Compact units

Selection tables with helical gearboxes

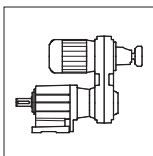
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|----------|---------------------------|---------------------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.55 kW | 16 - 3.0 | 237 - 710 | 204.722 | GST □□ - 3K | 5-30 | |
| | 13 - 2.5 | 288 - 710 | 248.458 | GST07 - 3K □□□ 080-12 13C | | |
| | 10 - 1.9 | 378 - 710 | 326.333 | GST07 - 3K □□□ 080-12 13C | | |
| | 8.0 - 1.5 | 478 - 1623 | 412.500 | GST09 - 3K □□□ 080-12 13C | | |
| | | | | | | |
| 0.75 kW | 2024 - 382 | 2.6 - 12 | 1.600 | GST □□ - 1K | 5-18 | |
| | 1581 - 298 | 3.4 - 16 | 2.048 | GST04 - 1K □□□ 080-32 13C | | |
| | 1446 - 273 | 3.7 - 17 | 2.240 | GST04 - 1K □□□ 080-32 13C | | |
| | 1133 - 214 | 4.7 - 22 | 2.857 | GST04 - 1K □□□ 080-32 13C | | |
| | 925 - 175 | 5.8 - 25 | 3.500 | GST04 - 1K □□□ 080-32 13C | | |
| | 736 - 139 | 7.3 - 25 | 4.400 | GST04 - 1K □□□ 080-32 13C | | |
| | 571 - 108 | 9.4 - 25 | 5.667 | GST04 - 1K □□□ 080-32 13C | | |
| | 442 - 83 | 12 - 46 | 7.333 | GST05 - 1K □□□ 080-32 13C | | |
| | 364 - 69 | 15 - 42 | 8.900 | GST05 - 1K □□□ 080-32 13C | | |
| | | | | | | |
| | | | | GST □□ - 2K | 5-24 | |
| | 329 - 62 | 16 - 65 | 9.856 | GST04 - 2K □□□ 080-32 13C | | |
| | 258 - 49 | 20 - 69 | 12.571 | GST04 - 2K □□□ 080-32 13C | | |
| | 210 - 40 | 25 - 70 | 15.400 | GST04 - 2K □□□ 080-32 13C | | |
| | 167 - 32 | 32 - 70 | 19.360 | GST04 - 2K □□□ 080-32 13C | | |
| | 130 - 25 | 41 - 71 | 24.933 | GST04 - 2K □□□ 080-32 13C | | |
| | 100 - 19 | 53 - 164 | 32.267 | GST05 - 2K □□□ 080-32 13C | | |
| | 83 - 16 | 64 - 165 | 39.160 | GST05 - 2K □□□ 080-32 13C | | |
| | | | | | | |
| | | | | GST □□ - 3K | 5-30 | |
| | 63 - 12 | 82 - 325 | 51.022 | GST06 - 3K □□□ 080-32 13C | | |
| | 51 - 9.6 | 102 - 146 | 63.467 | GST05 - 3K □□□ 080-32 13C | | |
| | 40 - 7.5 | 114 - 147 | 80.952 | GST05 - 3K □□□ 080-32 13C | | |
| | 33 - 6.2 | 159 - 335 | 99.167 | GST06 - 3K □□□ 080-32 13C | | |
| | 26 - 4.9 | 200 - 339 | 124.667 | GST06 - 3K □□□ 080-32 13C | | |
| | 20 - 3.8 | 258 - 342 | 160.556 | GST06 - 3K □□□ 080-32 13C | | |
| | 16 - 3.0 | 328 - 710 | 204.722 | GST07 - 3K □□□ 080-32 13C | | |
| | 13 - 2.5 | 399 - 710 | 248.458 | GST07 - 3K □□□ 080-32 13C | | |
| | 9.9 - 1.9 | 523 - 710 | 326.333 | GST07 - 3K □□□ 080-32 13C | | |
| | 7.9 - 1.5 | 662 - 1623 | 412.500 | GST09 - 3K □□□ 080-32 13C | | |
| | 1.1 kW | 2068 - 390 | 3.8 - 12 | 1.600 | GST □□ - 1K | 5-18 |
| | | 1616 - 305 | 4.9 - 16 | 2.048 | GST04 - 1K □□□ 090-12 13C | |
| | | 1477 - 279 | 5.3 - 17 | 2.240 | GST04 - 1K □□□ 090-12 13C | |
| 1158 - 219 | | 6.8 - 22 | 2.857 | GST04 - 1K □□□ 090-12 13C | | |
| 945 - 178 | | 8.3 - 25 | 3.500 | GST04 - 1K □□□ 090-12 13C | | |
| 752 - 142 | | 10 - 25 | 4.400 | GST04 - 1K □□□ 090-12 13C | | |
| 584 - 110 | | 13 - 25 | 5.667 | GST04 - 1K □□□ 090-12 13C | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|----------|---|---|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.1 kW | 451 - 85 | 17 - 46 | 7.333 | GST □□ - 1K GST05 - 1K □□□ 090-12 13C | 5-18 |
| | 372 - 70 | 21 - 42 | 8.900 | GST05 - 1K □□□ 090-12 13C | 5-24 |
| | 336 - 63 | 23 - 65 | 9.856 | GST □□ - 2K GST04 - 2K □□□ 090-12 13C | |
| | 263 - 50 | 29 - 69 | 12.571 | GST04 - 2K □□□ 090-12 13C | |
| | 215 - 41 | 36 - 70 | 15.400 | GST04 - 2K □□□ 090-12 13C | |
| | 171 - 32 | 45 - 70 | 19.360 | GST04 - 2K □□□ 090-12 13C | |
| | 133 - 25 | 55 - 71 | 24.933 | GST04 - 2K □□□ 090-12 13C | |
| | 103 - 19 | 75 - 164 | 32.267 | GST05 - 2K □□□ 090-12 13C | |
| | 84 - 16 | 92 - 165 | 39.160 | GST05 - 2K □□□ 090-12 13C | |
| | 67 - 13 | 116 - 251 | 49.500 | GST06 - 2K □□□ 090-12 13C | |
| | 49 - 9.2 | 156 - 365 | 67.760 | GST □□ - 3K GST06 - 3K □□□ 090-12 13C | |
| | 41 - 7.7 | 186 - 332 | 80.952 | GST06 - 3K □□□ 090-12 13C | |
| | 33 - 6.3 | 228 - 335 | 99.167 | GST06 - 3K □□□ 090-12 13C | |
| | 27 - 5.0 | 261 - 339 | 124.667 | GST06 - 3K □□□ 090-12 13C | |
| | 21 - 3.9 | 364 - 710 | 158.194 | GST07 - 3K □□□ 090-12 13D | |
| | 16 - 3.1 | 471 - 710 | 204.722 | GST07 - 3K □□□ 090-12 13C | |
| | 13 - 2.5 | 545 - 710 | 248.458 | GST07 - 3K □□□ 090-12 13C | |
| | 10 - 1.9 | 751 - 1623 | 326.333 | GST09 - 3K □□□ 090-12 13C | |
| | 8.0 - 1.5 | 950 - 1623 | 412.500 | GST09 - 3K □□□ 090-12 13C | |
| | 1.5 kW | 2082 - 393 | 5.1 - 12 | 1.600 | GST □□ - 1K GST04 - 1K □□□ 090-32 13C |
| 1627 - 307 | | 6.6 - 16 | 2.048 | GST04 - 1K □□□ 090-32 13C | 5-24 |
| 1487 - 281 | | 7.2 - 17 | 2.240 | GST04 - 1K □□□ 090-32 13C | |
| 1166 - 220 | | 9.2 - 22 | 2.857 | GST04 - 1K □□□ 090-32 13C | |
| 952 - 180 | | 11 - 25 | 3.500 | GST04 - 1K □□□ 090-32 13C | |
| 757 - 143 | | 14 - 25 | 4.400 | GST04 - 1K □□□ 090-32 13C | |
| 588 - 111 | | 18 - 25 | 5.667 | GST04 - 1K □□□ 090-32 13C | |
| 454 - 86 | | 24 - 46 | 7.333 | GST05 - 1K □□□ 090-32 13C | |
| 374 - 71 | | 29 - 42 | 8.900 | GST05 - 1K □□□ 090-32 13C | |
| 338 - 64 | | 31 - 65 | 9.856 | GST □□ - 2K GST04 - 2K □□□ 090-32 13C | |
| 265 - 50 | | 40 - 69 | 12.571 | GST04 - 2K □□□ 090-32 13C | |
| 216 - 41 | | 49 - 70 | 15.400 | GST04 - 2K □□□ 090-32 13C | |
| 172 - 32 | | 54 - 70 | 19.360 | GST04 - 2K □□□ 090-32 13C | |
| 134 - 25 | | 79 - 162 | 24.933 | GST05 - 2K □□□ 090-32 13C | |
| 103 - 19 | | 102 - 164 | 32.267 | GST05 - 2K □□□ 090-32 13C | |
| 85 - 16 | | 124 - 165 | 39.160 | GST05 - 2K □□□ 090-32 13C | |
| 67 - 13 | | 157 - 251 | 49.500 | GST06 - 2K □□□ 090-32 13C | |

Thermal limit not considered (see note on page 3-12)

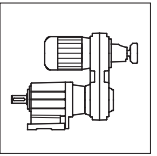


Compact units

Selection tables with helical gearboxes

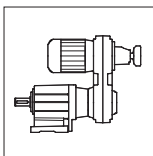
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|---------------------------|---|--------------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 1.5 kW | | | | GST □□ - 3K | 5-30 | |
| | 49 - 9.3 | 211 - 365 | 67.760 | GST06 - 3K □□□ 090-32 13C | | |
| | 41 - 7.8 | 252 - 332 | 80.952 | GST06 - 3K □□□ 090-32 13C | | |
| | 34 - 6.3 | 257 - 335 | 99.167 | GST06 - 3K □□□ 090-32 13C | | |
| | 26 - 4.9 | 396 - 710 | 127.176 | GST07 - 3K □□□ 090-32 13C | | |
| | 21 - 4.0 | 493 - 710 | 158.194 | GST07 - 3K □□□ 090-32 13C | | |
| | 16 - 3.1 | 544 - 710 | 204.722 | GST07 - 3K □□□ 090-32 13C | | |
| | 12 - 2.3 | 838 - 1623 | 268.889 | GST09 - 3K □□□ 090-32 13C | | |
| | 10 - 1.9 | 1017 - 1623 | 326.333 | GST09 - 3K □□□ 090-32 13C | | |
| 8.1 - 1.5 | 1244 - 1623 | 412.500 | GST09 - 3K □□□ 090-32 13C | | | |
| 2.2 kW | 2197 -360 | 7.6 - 29 | 1.600 | GST □□ - 1K GST05 - 1K □□□ 100-12 16D | 5-18 | |
| | 1717 -281 | 9.8 - 37 | 2.048 | GST05 - 1K □□□ 100-12 16D | | |
| | 1569 -257 | 11 - 40 | 2.240 | GST05 - 1K □□□ 100-12 16D | | |
| | 1230 -202 | 14 - 51 | 2.857 | GST05 - 1K □□□ 100-12 16D | | |
| | 1004 -165 | 17 - 54 | 3.500 | GST05 - 1K □□□ 100-12 16D | | |
| | 772 -126 | 22 - 54 | 4.556 | GST05 - 1K □□□ 100-12 16D | | |
| | 620 -102 | 27 - 54 | 5.667 | GST05 - 1K □□□ 100-12 16D | | |
| | 479 - 79 | 35 - 88 | 7.333 | GST06 - 1K □□□ 100-12 16D | | |
| | 395 - 65 | 43 - 85 | 8.900 | GST06 - 1K □□□ 100-12 16D | | |
| | | | | GST □□ - 2K | | 5-24 |
| | 351 - 58 | 47 - 124 | 10.000 | GST05 - 2K □□□ 100-12 16D | | |
| | 270 - 44 | 61 - 137 | 13.016 | GST05 - 2K □□□ 100-12 16D | | |
| | 217 - 36 | 76 - 148 | 16.191 | GST05 - 2K □□□ 100-12 16D | | |
| | 175 - 29 | 94 - 159 | 20.044 | GST05 - 2K □□□ 100-12 16D | | |
| | 141 - 23 | 117 - 162 | 24.933 | GST05 - 2K □□□ 100-12 16D | | |
| | 109 - 18 | 152 - 363 | 32.267 | GST06 - 2K □□□ 100-12 16D | | |
| | 90 - 15 | 184 - 368 | 39.160 | GST06 - 2K □□□ 100-12 16D | | |
| | 71 - 12 | 233 - 476 | 49.500 | GST07 - 2K □□□ 100-12 16D | | |
| | | | | GST □□ - 3K | 5-30 | |
| | 54 - 8.8 | 302 - 707 | 65.079 | GST07 - 3K □□□ 100-12 16D | | |
| | 44 - 7.2 | 370 - 710 | 79.762 | GST07 - 3K □□□ 100-12 16D | | |
| | 36 - 5.9 | 453 - 710 | 97.708 | GST07 - 3K □□□ 100-12 16D | | |
| | 28 - 4.5 | 535 - 710 | 127.176 | GST07 - 3K □□□ 100-12 16D | | |
| | 22 - 3.6 | 744 - 1623 | 160.556 | GST09 - 3K □□□ 100-12 16D | | |
| | 17 - 2.8 | 963 - 1623 | 207.778 | GST09 - 3K □□□ 100-12 16D | | |
| | 13 - 2.1 | 1222 - 1623 | 268.889 | GST09 - 3K □□□ 100-12 16D | | |
| | 11 - 1.8 | 1222 - 1623 | 326.333 | GST09 - 3K □□□ 100-12 16D | | |
| 8.5 - 1.4 | 1912 - 2848 | 412.500 | GST11 - 3K □□□ 100-12 16D | | | |
| 3 kW | | | | GST □□ - 1K | 5-18 | |
| | 2197 -360 | 10 - 29 | 1.600 | GST05 - 1K □□□ 100-32 16D | | |
| | 1717 -281 | 13 - 37 | 2.048 | GST05 - 1K □□□ 100-32 16D | | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|---------|---|---------------------------|---|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 3 kW | 1569 - 257 | 15 - 40 | 2.240 | GST □□ - 1K GST05 - 1K □□□ 100-32 16D | 5-18 | |
| | 1230 - 202 | 19 - 51 | 2.857 | GST05 - 1K □□□ 100-32 16D | | |
| | 1004 - 165 | 23 - 54 | 3.500 | GST05 - 1K □□□ 100-32 16D | | |
| | 772 - 126 | 30 - 54 | 4.556 | GST05 - 1K □□□ 100-32 16D | | |
| | 620 - 102 | 37 - 54 | 5.667 | GST05 - 1K □□□ 100-32 16D | | |
| | 479 - 79 | 48 - 88 | 7.333 | GST06 - 1K □□□ 100-32 16D | | |
| | 395 - 65 | 58 - 85 | 8.900 | GST06 - 1K □□□ 100-32 16D | | |
| | | | | GST □□ - 2K | 5-24 | |
| | 351 - 58 | 64 - 124 | 10.000 | GST05 - 2K □□□ 100-32 16D | | |
| | 270 - 44 | 84 - 137 | 13.016 | GST05 - 2K □□□ 100-32 16D | | |
| | 217 - 36 | 104 - 148 | 16.191 | GST05 - 2K □□□ 100-32 16D | | |
| | 175 - 29 | 120 - 159 | 20.044 | GST05 - 2K □□□ 100-32 16D | | |
| | 141 - 23 | 160 - 360 | 24.933 | GST06 - 2K □□□ 100-32 16D | | |
| | 109 - 18 | 207 - 363 | 32.267 | GST06 - 2K □□□ 100-32 16D | | |
| | 90 - 15 | 251 - 368 | 39.160 | GST06 - 2K □□□ 100-32 16D | | |
| | 71 - 12 | 318 - 476 | 49.500 | GST07 - 2K □□□ 100-32 16D | | |
| | | | | GST □□ - 3K | 5-30 | |
| | 54 - 8.8 | 411 - 707 | 65.079 | GST07 - 3K □□□ 100-32 16D | | |
| | 44 - 7.2 | 504 - 710 | 79.762 | GST07 - 3K □□□ 100-32 16D | | |
| | 36 - 5.9 | 535 - 710 | 97.708 | GST07 - 3K □□□ 100-32 16D | | |
| | 27 - 4.5 | 816 - 1612 | 129.074 | GST09 - 3K □□□ 100-32 16D | | |
| | 22 - 3.6 | 1015 - 1623 | 160.556 | GST09 - 3K □□□ 100-32 16D | | |
| | 17 - 2.8 | 1222 - 1623 | 207.778 | GST09 - 3K □□□ 100-32 16D | | |
| | 14 - 2.3 | 1594 - 2810 | 252.167 | GST11 - 3K □□□ 100-32 16D | | |
| | 11 - 1.8 | 2063 - 2848 | 326.333 | GST11 - 3K □□□ 100-32 16D | | |
| | 8.5 - 1.4 | 2144 - 2848 | 412.500 | GST11 - 3K □□□ 100-32 16D | | |
| | 4 kW | 2329 - 358 | 13 - 45 | 1.600 | | GST □□ - 1K GST06 - 1K □□□ 112-22 20E |
| | | 1820 - 280 | 17 - 58 | 2.048 | GST06 - 1K □□□ 112-22 20E | |
| 1664 - 256 | | 18 - 63 | 2.240 | GST06 - 1K □□□ 112-22 20E | | |
| 1304 - 201 | | 23 - 81 | 2.857 | GST06 - 1K □□□ 112-22 20E | | |
| 1065 - 164 | | 29 - 99 | 3.500 | GST06 - 1K □□□ 112-22 20E | | |
| 818 - 126 | | 37 - 105 | 4.556 | GST06 - 1K □□□ 112-22 20E | | |
| 658 - 101 | | 46 - 105 | 5.667 | GST06 - 1K □□□ 112-22 20E | | |
| 508 - 78 | | 60 - 170 | 7.333 | GST07 - 1K □□□ 112-22 20E | | |
| 419 - 64 | | 73 - 173 | 8.900 | GST07 - 1K □□□ 112-22 20E | | |
| | | | | GST □□ - 2K | 5-24 | |
| 373 - 57 | | 81 - 269 | 10.000 | GST06 - 2K □□□ 112-22 20E | | |
| 296 - 46 | | 101 - 295 | 12.571 | GST06 - 2K □□□ 112-22 20E | | |
| 242 - 37 | | 124 - 318 | 15.400 | GST06 - 2K □□□ 112-22 20E | | |
| 186 - 29 | | 161 - 350 | 20.044 | GST06 - 2K □□□ 112-22 20E | | |
| 149 - 23 | | 201 - 360 | 24.933 | GST06 - 2K □□□ 112-22 20E | | |

Thermal limit not considered (see note on page 3-12)

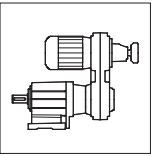


Compact units

Selection tables with helical gearboxes

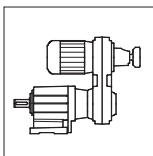
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|---------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 4 kW | | | | GST □□ - 2K | 5-24 |
| | 116 - 18 | 260 - 706 | 32.267 | GST07 - 2K □□□ 112-22 20E | |
| | 95 - 15 | 315 - 706 | 39.160 | GST07 - 2K □□□ 112-22 20E | |
| | 75 - 12 | 399 - 948 | 49.500 | GST09 - 2K □□□ 112-22 20E | 5-30 |
| | | | | GST □□ - 3K | |
| | 62 - 9.5 | 478 - 1565 | 60.278 | GST09 - 3K □□□ 112-22 20E | |
| | 46 - 7.0 | 648 - 1584 | 81.667 | GST09 - 3K □□□ 112-22 20E | |
| | 38 - 5.8 | 786 - 1596 | 99.167 | GST09 - 3K □□□ 112-22 20E | |
| | 29 - 4.4 | 1024 - 1612 | 129.074 | GST09 - 3K □□□ 112-22 20E | |
| | 23 - 3.6 | 1198 - 1623 | 160.556 | GST09 - 3K □□□ 112-22 20E | |
| | 18 - 2.8 | 1648 - 2810 | 207.778 | GST11 - 3K □□□ 112-22 20E | |
| | 15 - 2.3 | 2000 - 2810 | 252.167 | GST11 - 3K □□□ 112-22 20E | |
| | 11 - 1.8 | 2103 - 2848 | 326.333 | GST11 - 3K □□□ 112-22 20E | |
| | 9.0 - 1.4 | 3271 - 5920 | 412.500 | GST14 - 3K □□□ 112-22 20E | |
| 5.5 kW | | | | GST □□ - 1K | 5-18 |
| | 2329 - 358 | 18 - 45 | 1.600 | GST06 - 1K □□□ 112-32 20E | |
| | 1820 - 280 | 23 - 58 | 2.048 | GST06 - 1K □□□ 112-32 20E | |
| | 1664 - 256 | 25 - 63 | 2.240 | GST06 - 1K □□□ 112-32 20E | |
| | 1304 - 201 | 32 - 81 | 2.857 | GST06 - 1K □□□ 112-32 20E | |
| | 1065 - 164 | 39 - 99 | 3.500 | GST06 - 1K □□□ 112-32 20E | |
| | 818 - 126 | 51 - 105 | 4.556 | GST06 - 1K □□□ 112-32 20E | |
| | 658 - 101 | 64 - 105 | 5.667 | GST06 - 1K □□□ 112-32 20E | |
| | 508 - 78 | 82 - 170 | 7.333 | GST07 - 1K □□□ 112-32 20E | |
| | 419 - 64 | 100 - 173 | 8.900 | GST07 - 1K □□□ 112-32 20E | |
| | | | | GST □□ - 2K | 5-24 |
| | 373 - 57 | 111 - 269 | 10.000 | GST06 - 2K □□□ 112-32 20E | |
| | 296 - 46 | 139 - 295 | 12.571 | GST06 - 2K □□□ 112-32 20E | |
| | 242 - 37 | 170 - 318 | 15.400 | GST06 - 2K □□□ 112-32 20E | |
| | 186 - 29 | 222 - 350 | 20.044 | GST06 - 2K □□□ 112-32 20E | |
| | 149 - 23 | 266 - 360 | 24.933 | GST06 - 2K □□□ 112-32 20E | |
| | 116 - 18 | 357 - 706 | 32.267 | GST07 - 2K □□□ 112-32 20E | |
| | 95 - 15 | 434 - 706 | 39.160 | GST07 - 2K □□□ 112-32 20E | |
| | 75 - 12 | 548 - 948 | 49.500 | GST09 - 2K □□□ 112-32 20E | |
| | | | | GST □□ - 3K | |
| | 62 - 9.5 | 657 - 1565 | 60.278 | GST09 - 3K □□□ 112-32 20E | |
| | 46 - 7.0 | 891 - 1584 | 81.667 | GST09 - 3K □□□ 112-32 20E | |
| | 38 - 5.8 | 1081 - 1596 | 99.167 | GST09 - 3K □□□ 112-32 20E | |
| | 29 - 4.4 | 1190 - 1612 | 129.074 | GST09 - 3K □□□ 112-32 20E | |
| | 24 - 3.6 | 1725 - 2810 | 158.194 | GST11 - 3K □□□ 112-32 20E | |
| | 18 - 2.8 | 2075 - 2810 | 207.778 | GST11 - 3K □□□ 112-32 20E | |
| | 15 - 2.3 | 2709 - 5810 | 248.458 | GST14 - 3K □□□ 112-32 20E | |
| | 11 - 1.8 | 3559 - 5920 | 326.333 | GST14 - 3K □□□ 112-32 20E | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 5.5 kW | 9.0 - 1.4 | 4371 - 5920 | 412.500 | GST □□ - 3K GST14 - 3K □□□ 112-32 20E | 5-30 |
| 7.5 kW | 2092 - 353 | 28 - 94 | 1.625 | GST □□ - 1K GST07 - 1K □□□ 132-22 25F | 5-18 |
| | 1700 - 287 | 34 - 116 | 2.000 | GST07 - 1K □□□ 132-22 25F | |
| | 1518 - 256 | 38 - 129 | 2.240 | GST07 - 1K □□□ 132-22 25F | |
| | 1190 - 201 | 48 - 159 | 2.857 | GST07 - 1K □□□ 132-22 25F | |
| | 971 - 164 | 59 - 172 | 3.500 | GST07 - 1K □□□ 132-22 25F | |
| | 746 - 126 | 77 - 186 | 4.556 | GST07 - 1K □□□ 132-22 25F | |
| | 609 - 103 | 95 - 196 | 5.583 | GST07 - 1K □□□ 132-22 25F | |
| | 464 - 78 | 124 - 317 | 7.333 | GST09 - 1K □□□ 132-22 25F | |
| | 382 - 64 | 151 - 321 | 8.900 | GST09 - 1K □□□ 132-22 25F | |
| | 345 - 58 | 164 - 549 | 9.856 | GST □□ - 2K GST07 - 2K □□□ 132-22 25F | 5-24 |
| | 270 - 46 | 210 - 600 | 12.571 | GST07 - 2K □□□ 132-22 25F | |
| | 221 - 37 | 257 - 644 | 15.400 | GST07 - 2K □□□ 132-22 25F | |
| | 170 - 29 | 334 - 694 | 20.044 | GST07 - 2K □□□ 132-22 25F | |
| | 138 - 23 | 410 - 706 | 24.567 | GST07 - 2K □□□ 132-22 25F | |
| | 105 - 18 | 538 - 1373 | 32.267 | GST09 - 2K □□□ 132-22 25F | |
| | 87 - 15 | 653 - 1391 | 39.160 | GST09 - 2K □□□ 132-22 25F | |
| | 69 - 12 | 825 - 1722 | 49.500 | GST11 - 2K □□□ 132-22 25F | |
| | 56 - 9.5 | 990 - 1565 | 60.278 | GST □□ - 3K GST09 - 3K □□□ 132-22 25F | 5-30 |
| | 42 - 7.0 | 1206 - 1584 | 81.667 | GST09 - 3K □□□ 132-22 25F | |
| | 34 - 5.8 | 1628 - 2810 | 99.167 | GST11 - 3K □□□ 132-22 25F | |
| | 26 - 4.4 | 2120 - 2810 | 129.074 | GST11 - 3K □□□ 132-22 25F | |
| | 21 - 3.6 | 2139 - 2810 | 158.194 | GST11 - 3K □□□ 132-22 25F | |
| | 17 - 2.8 | 3362 - 5920 | 204.722 | GST14 - 3K □□□ 132-22 25F | |
| | 14 - 2.3 | 4080 - 5920 | 248.458 | GST14 - 3K □□□ 132-22 25F | |
| | 10 - 1.8 | 4507 - 5920 | 326.333 | GST14 - 3K □□□ 132-22 25F | |
| 9.2 kW | 2092 - 351 | 34 - 94 | 1.625 | GST □□ - 1K GST07 - 1K □□□ 132-32 25F | 5-18 |
| | 1700 - 285 | 42 - 116 | 2.000 | GST07 - 1K □□□ 132-32 25F | |
| | 1518 - 254 | 46 - 129 | 2.240 | GST07 - 1K □□□ 132-32 25F | |
| | 1190 - 200 | 59 - 159 | 2.857 | GST07 - 1K □□□ 132-32 25F | |
| | 971 - 163 | 73 - 172 | 3.500 | GST07 - 1K □□□ 132-32 25F | |
| | 746 - 125 | 95 - 186 | 4.556 | GST07 - 1K □□□ 132-32 25F | |
| | 609 - 102 | 116 - 196 | 5.583 | GST07 - 1K □□□ 132-32 25F | |
| | 464 - 78 | 152 - 317 | 7.333 | GST09 - 1K □□□ 132-32 25F | |
| | 382 - 64 | 185 - 321 | 8.900 | GST09 - 1K □□□ 132-32 25F | |
| | 345 - 58 | 201 - 549 | 9.856 | GST □□ - 2K GST07 - 2K □□□ 132-32 25F | 5-24 |

Thermal limit not considered (see note on page 3-12)

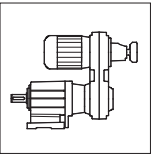


Compact units

Selection tables with helical gearboxes

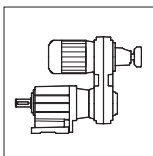
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | | | |
|----------------|--|------------------------|----------|--|--|--|------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | | | |
| 9.2 kW | 270 - 45 | 257 - 600 | 12.571 | GST □□ - 2K GST07 - 2K □□□ 132-32 25F GST07 - 2K □□□ 132-32 25F GST07 - 2K □□□ 132-32 25F GST07 - 2K □□□ 132-32 25F GST09 - 2K □□□ 132-32 25F GST09 - 2K □□□ 132-32 25F GST11 - 2K □□□ 132-32 25F | 5-24 | | | |
| | 221 - 37 | 315 - 644 | 15.400 | | | | | |
| | 170 - 28 | 410 - 694 | 20.044 | | | | | |
| | 138 - 23 | 502 - 706 | 24.567 | | | | | |
| | 105 - 18 | 660 - 1373 | 32.267 | | | | | |
| | 87 - 15 | 800 - 1391 | 39.160 | | | | | |
| | 69 - 12 | 1012 - 1722 | 49.500 | | | | | |
| | | | | | | GST □□ - 3K GST09 - 3K □□□ 132-32 25F GST11 - 3K □□□ 132-32 25F GST11 - 3K □□□ 132-32 25F GST11 - 3K □□□ 132-32 25F GST14 - 3K □□□ 132-32 25F GST14 - 3K □□□ 132-32 25F GST14 - 3K □□□ 132-32 25F GST14 - 3K □□□ 132-32 25F | 5-30 | |
| | 56 - 9.5 | 1191 - 1565 | 60.278 | | | | | |
| | 42 - 7.1 | 1625 - 2787 | 80.694 | | | | | |
| | 34 - 5.7 | 1996 - 2810 | 99.167 | | | | | |
| | 26 - 4.4 | 2139 - 2810 | 129.074 | | | | | |
| | 21 - 3.6 | 3185 - 5920 | 158.194 | | | | | |
| | 17 - 2.8 | 4122 - 5920 | 204.722 | | | | | |
| | 14 - 2.3 | 4507 - 5920 | 248.458 | | | | | |
| | 13 - 2.1 | 4507 - 5920 | 268.889 | | | | | |
| | 11 kW | 2092 -351 | 40 - 94 | 1.625 | GST □□ - 1K GST07 - 1K □□□ 160-22 25F GST07 - 1K □□□ 160-22 25F GST07 - 1K □□□ 160-22 25F GST07 - 1K □□□ 160-22 25F GST07 - 1K □□□ 160-22 25F GST07 - 1K □□□ 160-22 25F GST09 - 1K □□□ 160-22 25F GST09 - 1K □□□ 160-22 25F | | | 5-18 |
| | | 1700 -285 | 50 - 116 | 2.000 | | | | |
| | | 1518 -254 | 56 - 129 | 2.240 | | | | |
| | | 1190 -200 | 71 - 159 | 2.857 | | | | |
| 971 -163 | | 87 - 172 | 3.500 | | | | | |
| 746 -125 | | 113 - 186 | 4.556 | | | | | |
| 609 -102 | | 139 - 196 | 5.583 | | | | | |
| 464 - 78 | | 182 - 317 | 7.333 | | | | | |
| 382 - 64 | | 221 - 321 | 8.900 | GST □□ - 2K GST07 - 2K □□□ 160-22 25F GST07 - 2K □□□ 160-22 25F GST07 - 2K □□□ 160-22 25F GST07 - 2K □□□ 160-22 25F GST07 - 2K □□□ 160-22 25F GST09 - 2K □□□ 160-22 25F GST09 - 2K □□□ 160-22 25F GST11 - 2K □□□ 160-22 25F | 5-24 | | | |
| 345 - 58 | | 241 - 549 | 9.856 | | | | | |
| 270 - 45 | | 307 - 600 | 12.571 | | | | | |
| 221 - 37 | | 376 - 644 | 15.400 | | | | | |
| 170 - 28 | | 490 - 694 | 20.044 | | | | | |
| 138 - 23 | | 537 - 706 | 24.567 | | | | | |
| 105 - 18 | | 789 - 1373 | 32.267 | | | | | |
| 87 - 15 | | 957 - 1391 | 39.160 | | | | | |
| 69 - 12 | | 1210 - 1722 | 49.500 | | | | | |
| | | | | | | GST □□ - 3K GST09 - 3K □□□ 160-22 25F GST11 - 3K □□□ 160-22 25F GST11 - 3K □□□ 160-22 25F GST14 - 3K □□□ 160-22 25F GST14 - 3K □□□ 160-22 25F GST14 - 3K □□□ 160-22 25F | 5-30 | |
| 56 - 9.5 | | 1191 - 1565 | 60.278 | | | | | |
| 42 - 7.1 | | 1942 - 2787 | 80.694 | | | | | |
| 34 - 5.7 | 2139 - 2810 | 99.167 | | | | | | |
| 26 - 4.4 | 3136 - 5920 | 130.278 | | | | | | |
| 21 - 3.6 | 3808 - 5920 | 158.194 | | | | | | |
| 17 - 2.8 | 4507 - 5920 | 204.722 | | | | | | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | | |
|----------------|--|------------------------|-----------|---|---|---|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | | |
| 15 kW | 2179 - 362 | 53 - 183 | 1.560 | GST □□ - 1K GST09 - 1K □□□ 160-32 31G | 5-18 | | |
| | 1660 - 276 | 69 - 240 | 2.048 | GST09 - 1K □□□ 160-32 31G | | | |
| | 1457 - 242 | 79 - 273 | 2.333 | GST09 - 1K □□□ 160-32 31G | | | |
| | 1210 - 201 | 95 - 329 | 2.810 | GST09 - 1K □□□ 160-32 31G | | | |
| | 987 - 164 | 117 - 404 | 3.444 | GST09 - 1K □□□ 160-32 31G | | | |
| | 729 - 121 | 158 - 379 | 4.667 | GST09 - 1K □□□ 160-32 31G | | | |
| | 600 - 100 | 192 - 465 | 5.667 | GST09 - 1K □□□ 160-32 31G | | | |
| | 510 - 85 | 222 - 769 | 6.667 | GST □□ - 2K GST09 - 2K □□□ 160-32 31G | | 5-24 | |
| | 424 - 70 | 268 - 926 | 8.027 | GST09 - 2K □□□ 160-32 31G | | | |
| | 331 - 55 | 342 - 1178 | 10.267 | GST09 - 2K □□□ 160-32 31G | | | |
| | 275 - 46 | 412 - 1253 | 12.362 | GST09 - 2K □□□ 160-32 31G | | | |
| | 224 - 37 | 505 - 1340 | 15.156 | GST09 - 2K □□□ 160-32 31G | | | |
| | 166 - 27 | 684 - 1484 | 20.533 | GST09 - 2K □□□ 160-32 31G | | | |
| | 136 - 23 | 831 - 1582 | 24.933 | GST09 - 2K □□□ 160-32 31G | | | |
| | 105 - 17 | 1076 - 2791 | 32.267 | GST11 - 2K □□□ 160-32 31G | | | |
| | 87 - 14 | 1305 - 2826 | 39.160 | GST11 - 2K □□□ 160-32 31G | | | |
| | 69 - 11 | 1650 - 3492 | 49.500 | GST14 - 2K □□□ 160-32 31G | | | |
| | 56 - 9.2 | 2011 - 2725 | 61.250 | GST □□ - 3K GST11 - 3K □□□ 160-32 31G | 5-30 | | |
| | 42 - 7.0 | 2121 - 2787 | 80.694 | GST11 - 3K □□□ 160-32 31G | | | |
| | 35 - 5.9 | 3157 - 5882 | 96.157 | GST14 - 3K □□□ 160-32 31G | | | |
| | 26 - 4.3 | 4278 - 5920 | 130.278 | GST14 - 3K □□□ 160-32 31G | | | |
| | 21 - 3.6 | 4507 - 5920 | 158.194 | GST14 - 3K □□□ 160-32 31G | | | |
| | 20 - 3.3 | 4507 - 5920 | 171.111 | GST14 - 3K □□□ 160-32 31G | | | |
| | 18.5 kW | 2179 - 360 | 65 - 183 | 1.560 | | GST □□ - 1K GST09 - 1K □□□ 180-22 31G | 5-18 |
| | | 1660 - 275 | 85 - 240 | 2.048 | | GST09 - 1K □□□ 180-22 31G | |
| | | 1457 - 241 | 97 - 273 | 2.333 | | GST09 - 1K □□□ 180-22 31G | |
| | | 1210 - 200 | 117 - 329 | 2.810 | | GST09 - 1K □□□ 180-22 31G | |
| | | 987 - 163 | 144 - 404 | 3.444 | GST09 - 1K □□□ 180-22 31G | | |
| | | 729 - 120 | 195 - 379 | 4.667 | GST09 - 1K □□□ 180-22 31G | | |
| | | 600 - 99 | 236 - 465 | 5.667 | GST09 - 1K □□□ 180-22 31G | | |
| | | 510 - 84 | 274 - 769 | 6.667 | GST □□ - 2K GST09 - 2K □□□ 180-22 31G | 5-24 | |
| | | 424 - 70 | 330 - 926 | 8.027 | GST09 - 2K □□□ 180-22 31G | | |
| 331 - 55 | | 422 - 1178 | 10.267 | GST09 - 2K □□□ 180-22 31G | | | |
| 275 - 45 | | 508 - 1253 | 12.362 | GST09 - 2K □□□ 180-22 31G | | | |
| 224 - 37 | | 623 - 1340 | 15.156 | GST09 - 2K □□□ 180-22 31G | | | |
| 166 - 27 | | 844 - 1484 | 20.533 | GST09 - 2K □□□ 180-22 31G | | | |
| 136 - 23 | | 1025 - 1582 | 24.933 | GST09 - 2K □□□ 180-22 31G | | | |
| 105 - 17 | | 1326 - 2791 | 32.267 | GST11 - 2K □□□ 180-22 31G | | | |

Thermal limit not considered (see note on page 3-12)

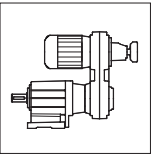


Compact units

Selection tables with helical gearboxes

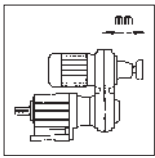
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|--|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 18.5 kW | 87 - 14 | 1610 - 2826 | 39.160 | GST □□ - 2K GST11 - 2K □□□ 180-22 31G GST14 - 2K □□□ 180-22 31G | 5-24 |
| | 69 - 11 | 2034 - 3492 | 49.500 | GST □□ - 3K GST11 - 3K □□□ 180-22 31G GST14 - 3K □□□ 180-22 31G GST14 - 3K □□□ 180-22 31G GST14 - 3K □□□ 180-22 31G | 5-30 |
| | 56 - 9.2 | 2075 - 2725 | 61.250 | | |
| | 43 - 7.2 | 3176 - 5587 | 78.457 | | |
| | 35 - 5.8 | 3893 - 5882 | 96.157 | | |
| | 26 - 4.3 | 4507 - 5920 | 130.278 | | |
| | | | | | |
| 22 kW | 678 - 120 | 250 - 930 | 4.056 | GST □□ - 2K GST11 - 2K □□□ 180-32 40H | 5-24 |
| | 617 - 109 | 275 - 1022 | 4.457 | GST11 - 2K □□□ 180-32 40H | |
| | 516 - 91 | 328 - 1221 | 5.324 | GST11 - 2K □□□ 180-32 40H | |
| | 430 - 76 | 394 - 1467 | 6.400 | GST11 - 2K □□□ 180-32 40H | |
| | 352 - 62 | 480 - 1788 | 7.800 | GST11 - 2K □□□ 180-32 40H | |
| | 279 - 49 | 607 - 2260 | 9.856 | GST11 - 2K □□□ 180-32 40H | |
| | 219 - 39 | 774 - 2520 | 12.571 | GST11 - 2K □□□ 180-32 40H | |
| | 179 - 32 | 949 - 2695 | 15.400 | GST11 - 2K □□□ 180-32 40H | |
| | 136 - 24 | 1250 - 2756 | 20.289 | GST11 - 2K □□□ 180-32 40H | |
| | 110 - 20 | 1536 - 2777 | 24.933 | GST11 - 2K □□□ 180-32 40H | |
| | 85 - 15 | 1987 - 5436 | 32.267 | GST14 - 2K □□□ 180-32 40H | |
| | 70 - 12 | 2412 - 5452 | 39.160 | GST14 - 2K □□□ 180-32 40H | |
| | 62 - 11 | 2741 - 5786 | 44.500 | GST14 - 2K □□□ 180-32 40H | |
| | | | | GST □□ - 3K GST14 - 3K □□□ 180-32 40H GST14 - 3K □□□ 180-32 40H GST14 - 3K □□□ 180-32 40H GST14 - 3K □□□ 180-32 40H | 5-30 |
| | | | | | |
| | | | | | |
| | | | | | |
| 30 kW | 673 - 119 | 343 - 930 | 4.056 | GST □□ - 2K GST11 - 2K □□□ 200-32 40H | 5-24 |
| | 613 - 108 | 377 - 1022 | 4.457 | GST11 - 2K □□□ 200-32 40H | |
| | 513 - 91 | 450 - 1221 | 5.324 | GST11 - 2K □□□ 200-32 40H | |
| | 427 - 76 | 541 - 1467 | 6.400 | GST11 - 2K □□□ 200-32 40H | |
| | 350 - 62 | 660 - 1788 | 7.800 | GST11 - 2K □□□ 200-32 40H | |
| | 277 - 49 | 834 - 2260 | 9.856 | GST11 - 2K □□□ 200-32 40H | |
| | 217 - 38 | 1063 - 2520 | 12.571 | GST11 - 2K □□□ 200-32 40H | |
| | 177 - 31 | 1302 - 2695 | 15.400 | GST11 - 2K □□□ 200-32 40H | |
| | 135 - 24 | 1716 - 2756 | 20.289 | GST11 - 2K □□□ 200-32 40H | |
| | 110 - 19 | 2109 - 2777 | 24.933 | GST11 - 2K □□□ 200-32 40H | |
| | 85 - 15 | 2729 - 5436 | 32.267 | GST14 - 2K □□□ 200-32 40H | |
| | 70 - 12 | 3312 - 5452 | 39.160 | GST14 - 2K □□□ 200-32 40H | |
| | 61 - 11 | 3763 - 5786 | 44.500 | GST14 - 2K □□□ 200-32 40H | |
| | | | | GST □□ - 3K | |

Thermal limit not considered (see note on page 3-12)



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|-----------|--|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 30 kW | 56 -10.0 | 3966 - 4843 | 48.386 | GST □□ - 2K GST14 - 3K □□□ 200-32 40H GST14 - 3K □□□ 200-32 40H | 5-24 |
| | 46 - 8.1 | 4313 - 5267 | 59.321 | | |
| 37 kW | 676 -120 | 422 - 930 | 4.056 | GST □□ - 2K GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST11 - 2K □□□ 225-12 40H GST14 - 2K □□□ 225-12 40H GST14 - 2K □□□ 225-12 40H GST14 - 2K □□□ 225-12 40H GST14 - 3K □□□ 225-12 40H | 5-24 |
| | 615 -109 | 463 - 1022 | 4.457 | | |
| | 515 - 91 | 553 - 1221 | 5.324 | | |
| | 428 - 76 | 665 - 1467 | 6.400 | | |
| | 351 - 62 | 811 - 1788 | 7.800 | | |
| | 278 - 49 | 1024 - 2260 | 9.856 | | |
| | 218 - 39 | 1307 - 2520 | 12.571 | | |
| | 178 - 31 | 1601 - 2695 | 15.400 | | |
| | 135 - 24 | 2109 - 2756 | 20.289 | | |
| | 110 - 19 | 2272 - 2777 | 24.933 | | |
| | 85 - 15 | 3354 - 5436 | 32.267 | | |
| | 70 - 12 | 4070 - 5452 | 39.160 | | |
| | 62 - 11 | 4625 - 5786 | 44.500 | | |
| | 57 - 10 | 3962 - 4843 | 48.386 | | |
| | 45 kW | 682 -121 | 508 - 930 | | |
| 621 -110 | | 558 - 1022 | 4.457 | | |
| 520 - 92 | | 666 - 1221 | 5.324 | | |
| 433 - 77 | | 801 - 1467 | 6.400 | | |
| 355 - 63 | | 976 - 1788 | 7.800 | | |
| 281 - 50 | | 1233 - 2260 | 9.856 | | |
| 220 - 39 | | 1573 - 2520 | 12.571 | | |
| 180 - 32 | | 1927 - 2695 | 15.400 | | |
| 136 - 24 | | 2247 - 2756 | 20.289 | | |
| 113 - 20 | | 3074 - 5236 | 24.567 | | |
| 86 - 15 | | 4038 - 5436 | 32.267 | | |
| 71 - 13 | | 4445 - 5452 | 39.160 | | |
| 62 - 11 | | 4717 - 5786 | 44.500 | | |

Thermal limit not considered (see note on page 3-12)



Compact units

Combinations with helical gearboxes

GST □□ - 1 K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | | | |
|------------------|----------------------------------|---------|---------|-----|-----|---------|---------|---------|-----|-----|-----|-----|-----|-----|---|---|---|---|
| | GST □□ - 1 K VBR with drive size | | | | | | | | | | | | | | | | | |
| | 071 | 080 | 090 | | | 100 | 112 | 132 | 160 | | 180 | | | | | | | |
| | -12/-32 | -12/-32 | -12/-32 | | | -12/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | | | | | | | |
| 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25G | 25F | 31G | 31G | | | | |
| GST 04 | ● | ● | ● | | | | | | | | | | | | | | | |
| GST 05 | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | |
| GST 06 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| GST 07 | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | | | | |
| GST 09 | | | | | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| GST □□ - 1 K VCR | | | | | | | | | | | | | | | | | | |
| GST 04 | ● | ● | ● | | | | | | | | | | | | | | | |
| GST 05 | ● | ● | ● | ● | ● | | ● | | | | | | | | | | | |
| GST 06 | | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| GST 07 | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| GST 09 | | | | | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| GST □□ - 1 K VCK | | | | | | | | | | | | | | | | | | |
| GST 04 | Output flange | | | | | | | | | | | | | | | | | |
| | 120 | ● | ● | ● | | | | | | | | | | | | | | |
| | 140 | ↑ | ● | ● | | | | | | | | | | | | | | |
| GST 05 | 120 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| | 140 | ● | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| | 160 | ↑ | ● | ● | ● | ● | ● | ● | | | | | | | | | | |
| | 200 | ↑ | ↑ | ↑ | ↑ | ● | ● | ● | | | | | | | | | | |
| GST 06 | 160 | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| | 200 | | | | ● | ● | ● | ● | ● | | | | | | | | | |
| GST 07 | 200 | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | | | | |
| | 250 | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | | | | |
| GST 09 | 250 | | | | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● |
| | 300 | | | | | | | | ● | | ● | ● | ● | ● | ● | ● | ● | ● |

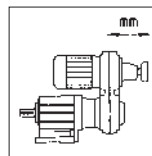
5

Motor position 1 (Z type):

■ All combinations possible with swivel positions 2+3+5

Motor position 6 (U type):

- ↑ Only swivel position 2 possible
- Swivel positions 2+3+5 possible



GST □□ - 2 K

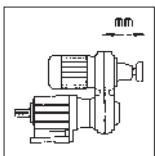
| Gearbox size | Compact unit | | | | | | | | | | | | |
|------------------|----------------------------------|-----------|-----------|-----|-----|-----------|-----------|-----|-----|-----|-----|-----|-----------|
| | GST □□ - 2 K VBR with drive size | | | | | | | | | | | | |
| | 071 | 080 | 090 | | 100 | 112 | 132 | 160 | | 180 | | 200 | 225 |
| | -12 / -32 | -12 / -32 | -12 / -32 | 13D | 16D | -22 / -32 | -22 / -32 | -22 | -32 | -22 | -32 | -32 | -12 / -22 |
| 10B | 13C | 13C | 13D | 16D | 16D | 20E | 25F | 25F | 31G | 31G | 31H | 40H | 40H |
| GST 04 | ● | ● | ● | | | | | | | | | | |
| GST 05 | ● | ● | ● | ● | ● | ● | | | | | | | |
| GST 06 | | | ● | | ● | ● | ● | | | | | | |
| GST 07 | | | | | ● | ● | ● | ● | ● | | | | |
| GST 09 | | | | | | | ● | ● | ● | ● | ● | | |
| GST 11 | | | | | | | | ● | ● | ● | ● | ● | ● |
| GST 14 | | | | | | | | | ● | ● | | ● | ● |
| GST □□ - 2 K VCR | | | | | | | | | | | | | |
| GST 04 | ● | ● | ● | | | | | | | | | | |
| GST 05 | ● | ● | ● | ● | ● | ● | | | | | | | |
| GST 06 | | | ● | | ● | ● | ● | | | | | | |
| GST 07 | | | | | ● | ● | ● | ● | ● | | | | |
| GST 09 | | | | | | | ● | ● | ● | ● | ● | | |
| GST 11 | | | | | | | | ● | ● | ● | ● | ● | ● |
| GST 14 | | | | | | | | | ● | ● | | ● | ● |
| GST □□ - 2 K VCK | | | | | | | | | | | | | |
| GST 04 | Output flange | | | | | | | | | | | | |
| | 120 | ● | ● | ● | | | | | | | | | |
| | 140 | | ● | ● | | | | | | | | | |
| GST 05 | 120 | ● | ● | ● | ● | ● | ● | | | | | | |
| | 140 | | ● | ● | ● | ● | ● | | | | | | |
| | 160 | | ● | ● | ● | ● | ● | | | | | | |
| | 200 | | | | | ● | ● | | | | | | |
| GST 06 | 160 | | | ● | | ● | ● | ● | | | | | |
| | 200 | | | | | ● | ● | ● | | | | | |
| GST 07 | 200 | | | | | ● | ● | ● | ● | ● | | | |
| | 250 | | | | | | ● | ● | ● | | | | |
| GST 09 | 250 | | | | | | ● | ● | ● | ● | ● | | |
| | 300 | | | | | | | ● | ● | ● | ● | | |
| GST 11 | 300 | | | | | | | ● | ● | ● | ● | ● | ● |
| | 350 | | | | | | | ● | | ● | ● | ● | ● |
| GST 14 | 350 | | | | | | | | ● | ● | | ● | ● |
| | 400 | | | | | | | | ● | ● | | ● | ● |

Motor position 1 (Z type):

■ All combinations possible in swivel positions 2+3+5

Motor position 6 (U type):

● Swivel positions 2+3+5



Compact units

Combinations with helical gearboxes

GST □□ - 3 K

| Gearbox size | Compact unit | | | | | | | | | | | | | | |
|------------------|----------------------------------|-----------|-----------|-----|-----|-----------|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|
| | GST □□ - 3 K VBR with drive size | | | | | | | | | | | | | | |
| | 071 | 080 | 090 | | | 100 | 112 | 132 | 160 | | 180 | | 200 | | |
| | -12 / -32 | -12 / -32 | -12 / -32 | | | -12 / -32 | -22 / -32 | -22 / -32 | -22 | -32 | -22 | -32 | -32 | | |
| 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25F | 31G | 31G | 40H | 40H |
| GST 05 | ● | ● | | | | | | | | | | | | | |
| GST 06 | ↑ | ● | ● | | | | | | | | | | | | |
| GST 07 | ↑ | ● | ↑ | ↑ | ● | | ● | | | | | | | | |
| GST 09 | | ↑ | ↑ | ↑ | ● | | ● | ● | ● | ● | ● | | | | |
| GST 11 | | | | ↑ | ↑ | | ↑ | | ● | | ● | ● | ● | | |
| GST 14 | | | | | | ↑ | | ↑ | ↑ | | ● | ↑ | ● | ● | ● |
| GST □□ - 3 K VCR | | | | | | | | | | | | | | | |
| GST 05 | ● | ● | | | | | | | | | | | | | |
| GST 06 | ↑ | ● | ● | | | | | | | | | | | | |
| GST 07 | ↑ | ● | ↑ | ↑ | ● | | ● | | | | | | | | |
| GST 09 | | ↑ | ↑ | ↑ | ● | | ● | ● | ● | ● | ● | | | | |
| GST 11 | | | | ↑ | ↑ | | ↑ | | ● | | ● | ● | ● | | |
| GST 14 | | | | | | ↑ | | ↑ | ↑ | | ● | ↑ | ● | ● | ● |
| GST □□ - 3 K VCK | | | | | | | | | | | | | | | |
| GST 05 | 120 | ● | ● | | | | | | | | | | | | |
| | 140 | ● | ● | | | | | | | | | | | | |
| | 160 | ● | ● | | | | | | | | | | | | |
| | 200 | ● | ● | | | | | | | | | | | | |
| GST 06 | 160 | ↑ | ● | ● | | | | | | | | | | | |
| | 200 | ↑ | ● | ↑ | | | | | | | | | | | |
| GST 07 | 200 | ↑ | ● | ↑ | ↑ | ● | | ● | | | | | | | |
| | 250 | ↑ | ● | ↑ | ↑ | ● | | ● | | | | | | | |
| GST 09 | 250 | | ↑ | ↑ | ↑ | ● | | ● | ● | ● | ● | ● | | | |
| | 300 | | ↑ | ↑ | ↑ | ● | | ● | ● | ● | ● | ● | | | |
| GST 11 | 300 | | | | ↑ | | ↑ | | ● | | ● | ● | ● | ● | |
| | 350 | | | | ↑ | | ↑ | | ● | | ● | ↑ | ● | ● | |
| GST 14 | 350 | | | | | ↑ | | ↑ | ↑ | | ● | ↑ | ● | ● | ● |
| | 400 | | | | | ↑ | | ↑ | ↑ | | ● | ↑ | ● | ● | ● |

5

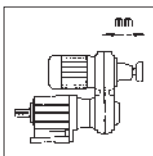
Motor position 1 (Z type):

■ All combinations possible in swivel positions 2+3+5

Motor position 6 (U type):

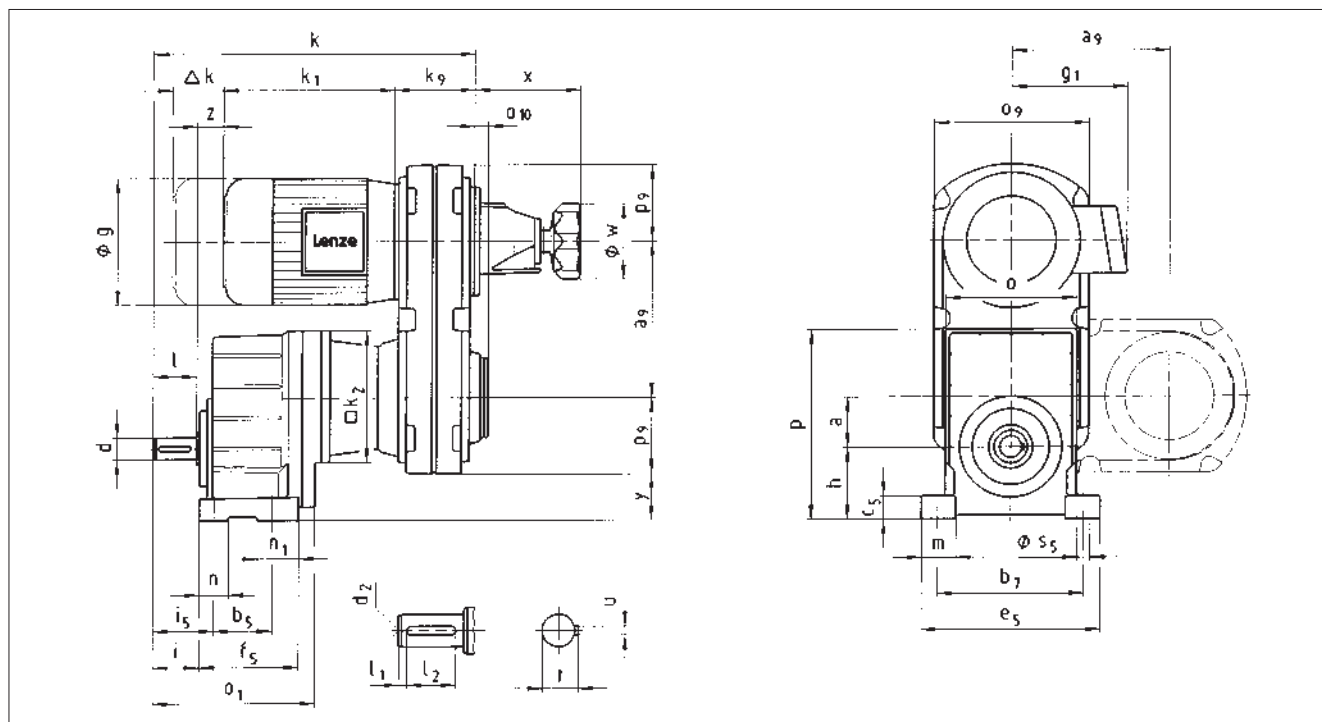
↑ Only swivel position 2 possible

● Swivel positions 2, 3 or 5 possible



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|----------|----------|----------|--------------|----------|----------|----------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GST □□ - 1 K VBR | | 071 | 080 | 090 | | | 100 | 112 | 132 | 160 | | 180 | | | | | | | | |
| Motor position 6 | | -12 /-32 | -12 /-32 | -12 /-32 | | | -12 /-32 | -22 /-32 | -22 /-32 | -22 -32 | | -22 | | | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 20E | 20F | 25F | 25G | 25F | 31G | 31G | | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 274 | 323 | 323 | 360 | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 196 | 253 | 253 | 275 | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 212 | 253 | 253 | 275 | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 450 | 564 | 564 | 595 | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 63 | 120 | 120 | 122 | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 316 | 392 | 392 | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 222 | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | |
| | o | o₁ | p | h | a | k | | | | | | | | | | | | | | |
| GST 04 | 100 | 134 | 138 | 50 | 36 | 249 | 306 | 306 | | | | | | | | | | | | |
| GST 05 | 115 | 165 | 168 | 63 | 45 | 277 | 327 | 327 | 345 | 360 | | 360 | | | | | | | | |
| GST 06 | 145 | 191 | 211 | 80 | 56 | | | | | 383 | 413 | 383 | 413 | 433 | | | | | | |
| GST 07 | 180 | 223 | 264 | 100 | 70 | | | | | 412 | | 412 | 442 | 462 | 463 | 493 | | 493 | | |
| GST 09 | 222 | 271 | 329 | 125 | 89 | | | | | | | | | 505 | | 536 | 516 | 536 | 552 | 552 |

| Gearbox size | Solid shaft | | | | | | | Foot | | | | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 |
| GST 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 47.5 | 40 | 57 | 18 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 50.5 | 45 | 56 | 18 |

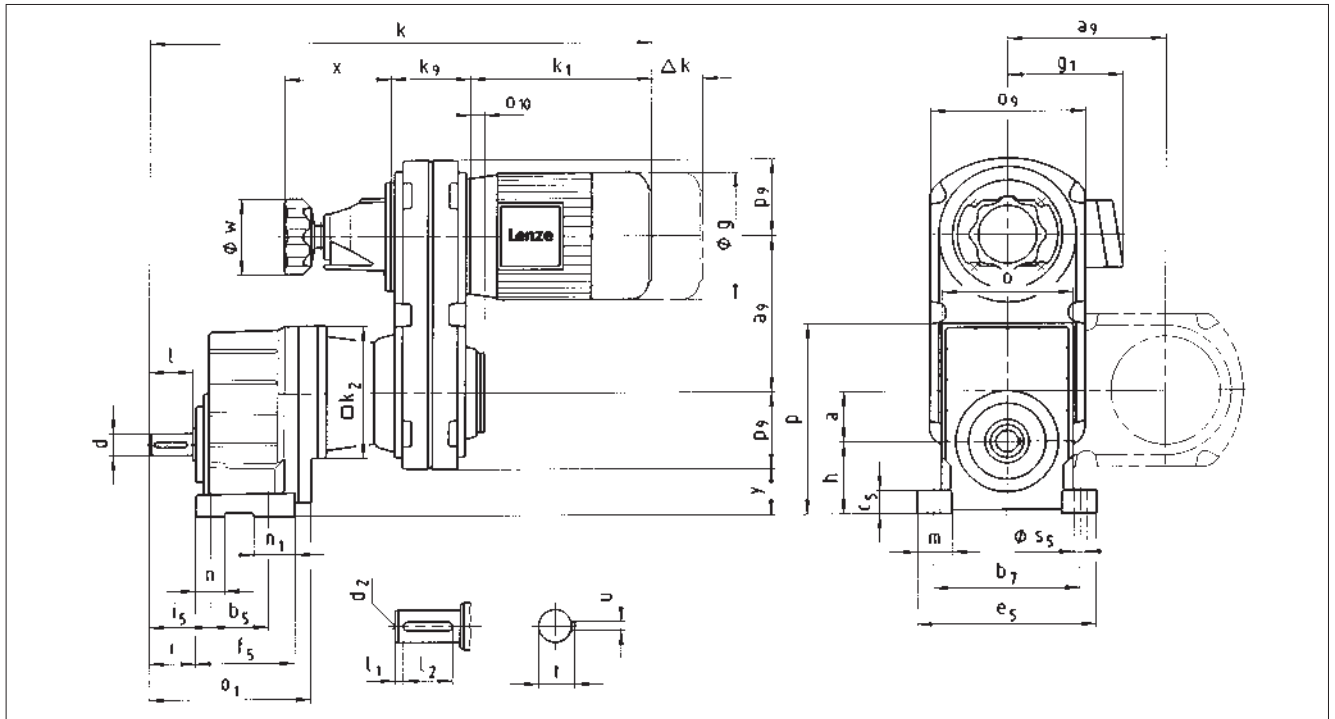
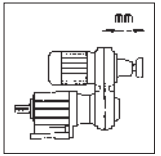
Dimensions in [mm]

Observe test dimensions z and y! (see page 5-36)

Observe swivel positions for possible combinations! (see page 5-14)

Compact units

Dimensions with helical gearboxes



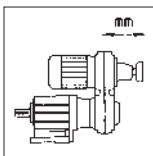
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------|----------|----------|-----|--------------|----------|-----|----------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
| GST □□ - 1 K VBR | | 071 | 080 | 090 | | | 100 | | 112 | | | | | | | | | | | |
| Motor position 1 | | -12 /-32 | -12 /-32 | -12 /-32 | | | -12 /-32 | | -22 /-32 | | | | | | | | | | | |
| Motor | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | | | | | | | | |
| | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | | | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | | | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | | | | | | | | |
| Variable speed drive | | | | | | | | | | | | | | | | | | | | |
| | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | | | | | | |
| Housing | | | | | | | | | | | | | | | | | | | | |
| | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | |
| | o | o ₁ | p | h | a | k | | | | | | | | | | | | | | |
| GST 04 | 100 | 134 | 138 | 50 | 36 | 486 | 573 | 656 | | | | | | | | | | | | |
| GST 05 | 115 | 165 | 168 | 63 | 45 | 514 | 594 | 677 | 695 | 710 | | 712 | | | | | | | | |
| GST 06 | 145 | 191 | 211 | 80 | 56 | | | | | 733 | 763 | 735 | 765 | 812 | | | | | | |
| GST 07 | 180 | 223 | 264 | 100 | 70 | | | | | 762 | | 764 | 794 | 841 | 842 | | | | | |
| GST 09 | 222 | 271 | 329 | 125 | 89 | | | | | | | | | 884 | | | | | | |

| 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 | | |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 55 | 105 | 17 | 128 | 80 | 35 | 45 | 24 | 20 | 25 | 9 | | |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 70 | 125 | 22 | 154 | 99 | 43 | 56 | 32 | 26 | 29 | 11 | | |
| GST 06 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 72 | 160 | 27 | 194 | 115 | 53 | 68 | 37 | 30 | 43 | 13.5 | | |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 80 | 200 | 35 | 245 | 137 | 64 | 84 | 47.5 | 40 | 57 | 18 | | |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 105 | 245 | 43 | 296 | 161 | 84 | 107 | 50.5 | 45 | 56 | 18 | | |

Dimensions in [mm]

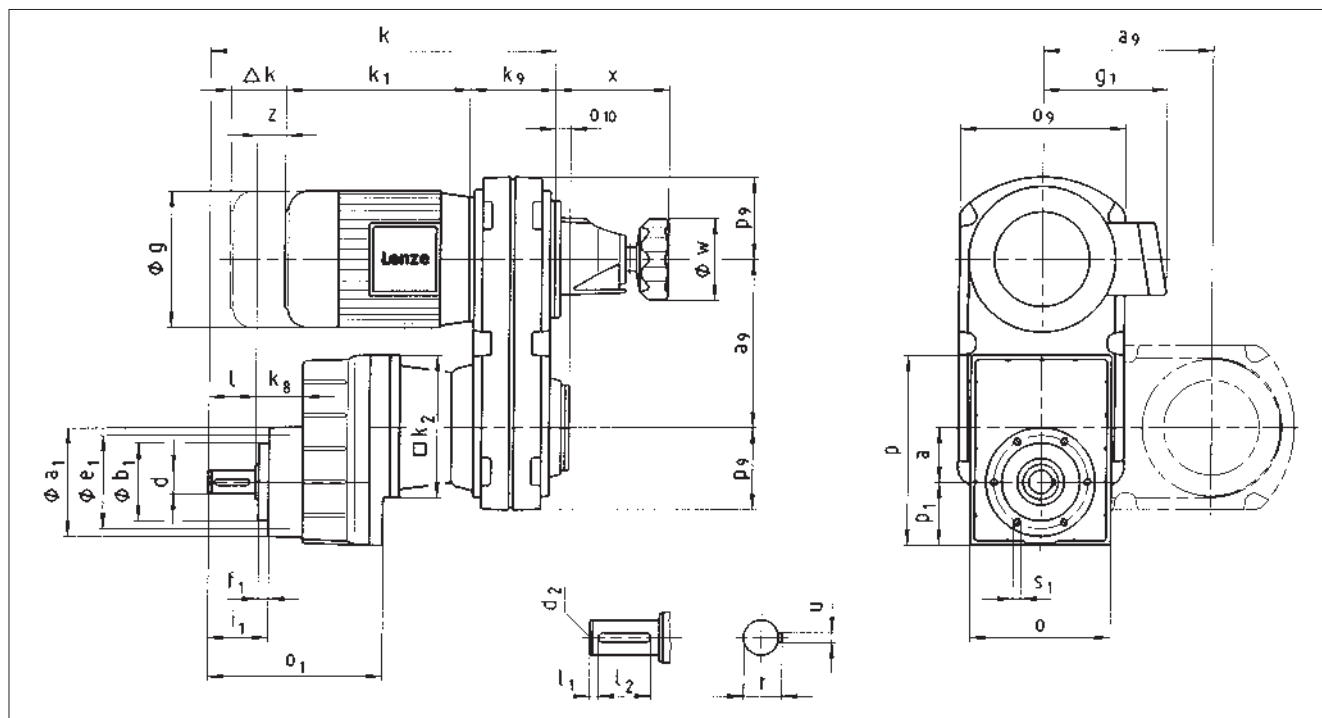
Observe test dimension y! (see page 5-36)

Observe swivel positions for possible combinations! (see page 5-14)



Compact units

Dimensions with helical gearboxes



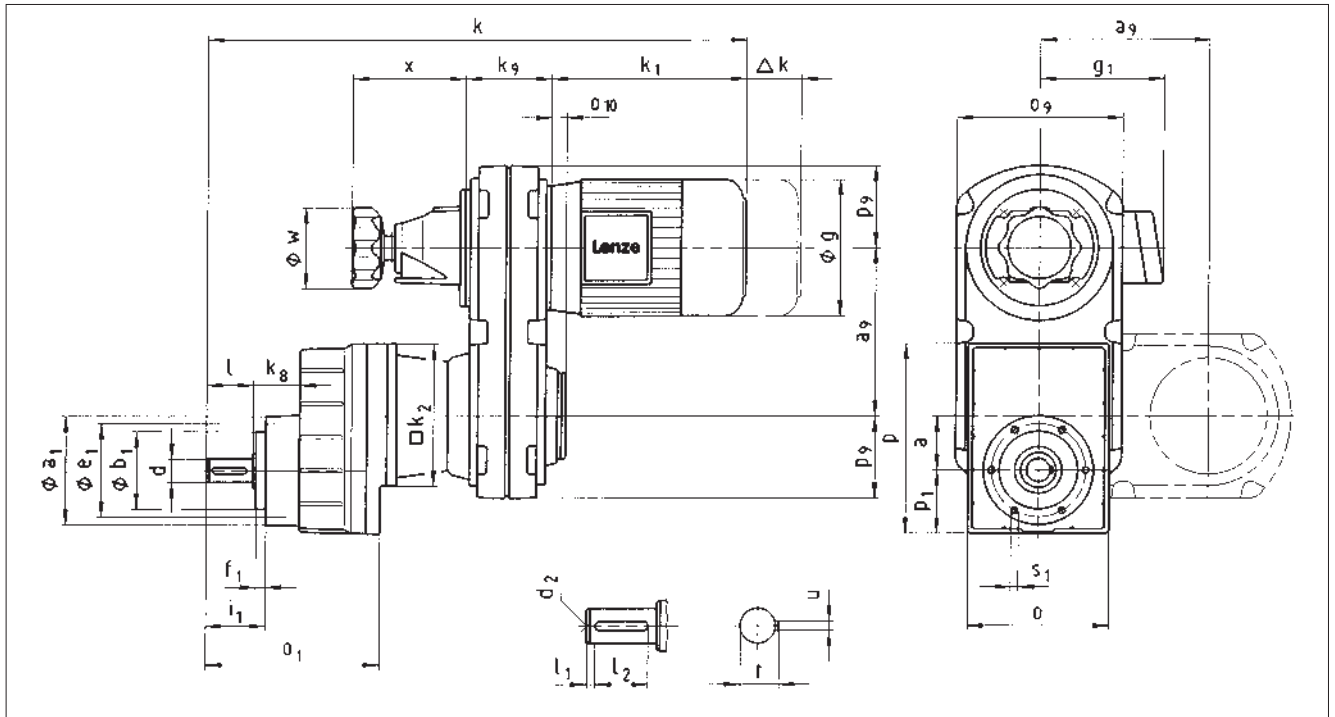
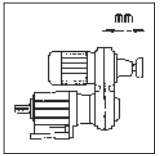
| Compact unit | | Drive size | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|----------------------|----------|----------------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|
| GST □□ - 1 K VCR | | 071 | 080 | 090 | | | 100 | | 112 | | 132 | | 160 | | 180 | |
| Motor position 6 | | -12 / -32 | -12 / -32 | -12 / -32 | | -12 / -32 | -12 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25G | 25F | 31G | 31G |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 274 | 323 | 323 | 360 |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 196 | 253 | 253 | 275 |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 212 | 253 | 253 | 275 |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 450 | 564 | 564 | 595 |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 63 | 120 | 120 | 122 |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 316 | 392 | 392 |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 222 |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | |
| | o | o₁ | p | p₁ | a | k₈ | k | | | | | | | | | |
| GST 04 | 100 | 134 | 129 | 41 | 36 | 35 | 249 | 306 | 306 | | | | | | | |
| GST 05 | 115 | 165 | 156 | 51 | 45 | 43 | 277 | 327 | 327 | 345 | 360 | | | | | |
| GST 06 | 145 | 191 | 194 | 63 | 56 | 48 | | | | | 383 | 413 | 383 | 413 | 433 | |
| GST 07 | 180 | 223 | 245 | 82 | 70 | 60 | | | | | 412 | | 412 | 442 | | 463 |
| GST 09 | 222 | 271 | 304 | 101 | 89 | 74 | | | | | | | | | 505 | 536 |
| | | | | | | | | | | | | | | | | 516 |
| | | | | | | | | | | | | | | | | 536 |
| | | | | | | | | | | | | | | | | 552 |
| | | | | | | | | | | | | | | | | 552 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₁ | b₁ h7 | e₁ | f₁ | i₁ | s₁ | |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 | |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 | |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 | |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 | |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 174 | 120 | 145 | 15 | 100 | M12x20 | |

Dimensions in [mm]
 Observe test dimension z! (see page 5-36)
 Observe swivel positions for possible combinations! (see page 5-14)

Compact units

Dimensions with helical gearboxes

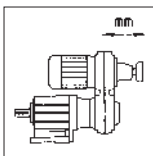


| Compact unit | | Drive size | | | | | | | | | | | | | |
|-------------------------|-----------------------|----------------------|----------|----------------------|----------|----------------------|--------------|-----|----------|-----|-----|-----|-----|-----|-----|
| GST □□ - 1 K VCR | | 071 | 080 | 090 | | | 100 | | 112 | | | | | | |
| Motor position 1 | | -12 /-32 | -12 /-32 | -12 /-32 | | | -12 /-32 | | -22 /-32 | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | | | |
| | g₁ | Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | | | |
| | | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | |
| | o | o₁ | p | p₁ | a | k₈ | k | | | | | | | | |
| GST 04 | 100 | 134 | 129 | 41 | 36 | 35 | 486 | 573 | 656 | | | | | | |
| GST 05 | 115 | 165 | 156 | 51 | 45 | 43 | 514 | 594 | 677 | 695 | 710 | | 712 | | |
| GST 06 | 145 | 191 | 194 | 63 | 56 | 48 | | | | | 733 | 763 | 735 | 765 | 812 |
| GST 07 | 180 | 223 | 245 | 82 | 70 | 60 | | | | | 762 | | 764 | 794 | 841 |
| GST 09 | 222 | 271 | 304 | 101 | 89 | 74 | | | | | | | | | 884 |

| Gearbox size | Solid shaft | | | | | | | Pitch circle | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₁ | b₁ h7 | e₁ | f₁ | i₁ | s₁ |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 72 | 48 | 61 | 8 | 43 | M5x10 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 88 | 58 | 74 | 9 | 52 | M6x12 |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 109 | 70 | 90 | 11 | 64 | M8x14 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 140 | 100 | 120 | 13 | 77 | M10x18 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 174 | 120 | 145 | 15 | 100 | M12x20 |

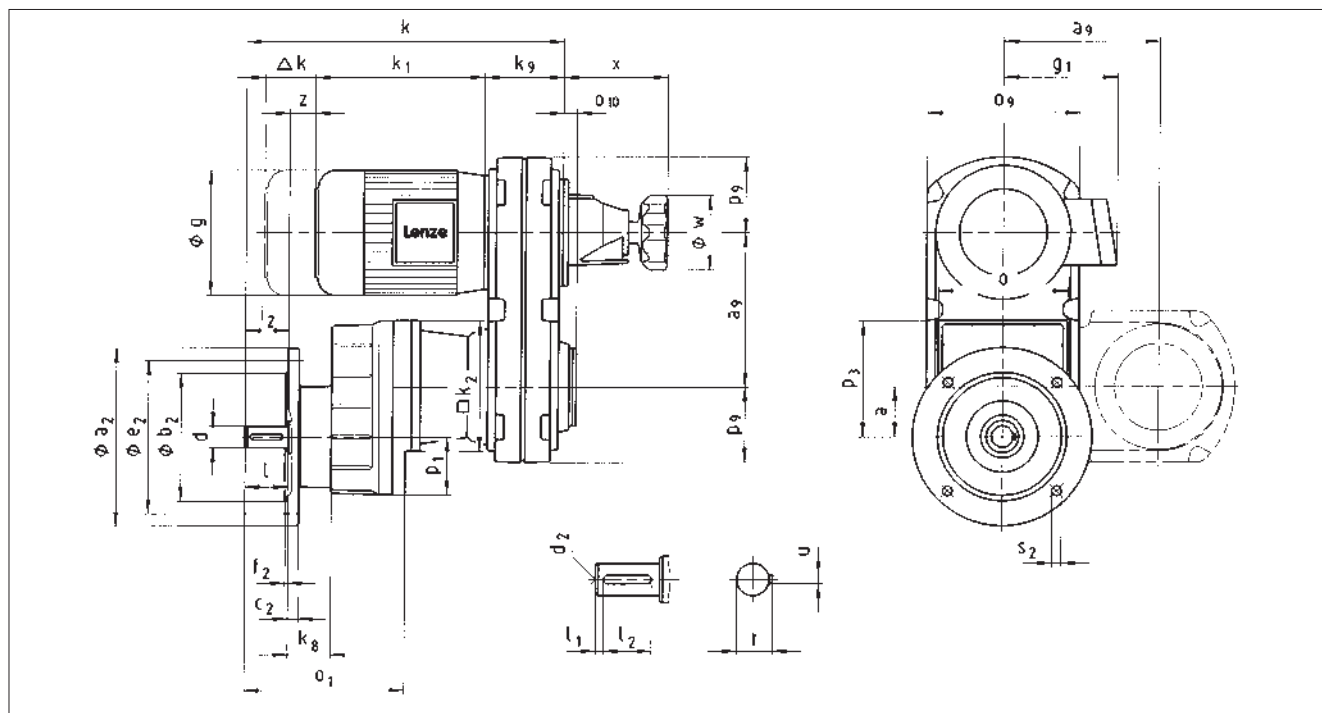
Dimensions in [mm]

Observe swivel positions for possible combinations! (see page 5-14)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------------------------------|----------------------|----------------------|----------------------|----------|----------------------|--------------|-----|-----|-----------|-----|-----|-----------|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|--|
| GST □ □ - 1 K VCK | | 071 | | 080 | | 090 | | | 100 | | 112 | | 132 | | 160 | | 180 | | | | | | | |
| Motor position 6 | | -12 / -32 | 10B | -12 / -32 | 13C | 13C | 13D | 16D | 16E | -12 / -32 | 16D | 16E | -22 / -32 | 20E | 20F | -22 / -32 | 25F | 25G | -22 | -32 | 31G | -22 | 31G | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 274 | 323 | 323 | 360 | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 196 | 253 | 253 | 275 | | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 212 | 253 | 253 | 275 | | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 450 | 564 | 564 | 595 | | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 63 | 120 | 120 | 122 | | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 316 | 392 | 392 | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | | | | | | | | | |
| | o | o₁ | p₁ | p₃ | a | k₈ | k | | | | | | | | | | | | | | | | | |
| | GST 04 | 100 | 134 | 41 | 88 | 36 | 35 | 249 | 306 | 306 | | | | | | | | | | | | | | |
| | GST 05 | 115 | 165 | 51 | 105 | 45 | 43 | 277 | 327 | 327 | 345 | | | | | | | | | | | | | |
| | GST 06 | 145 | 191 | 63 | 131 | 56 | 48 | | | | 383 | 413 | 383 | 413 | 433 | | | | | | | | | |
| | GST 07 | 180 | 223 | 82 | 164 | 70 | 60 | | | | 412 | | 412 | 442 | 462 | 463 | 493 | | | 493 | | | | |
| GST 09 | 222 | 271 | 101 | 204 | 89 | 74 | | | | | | | | 505 | | 536 | 516 | 536 | 552 | 552 | | | | |

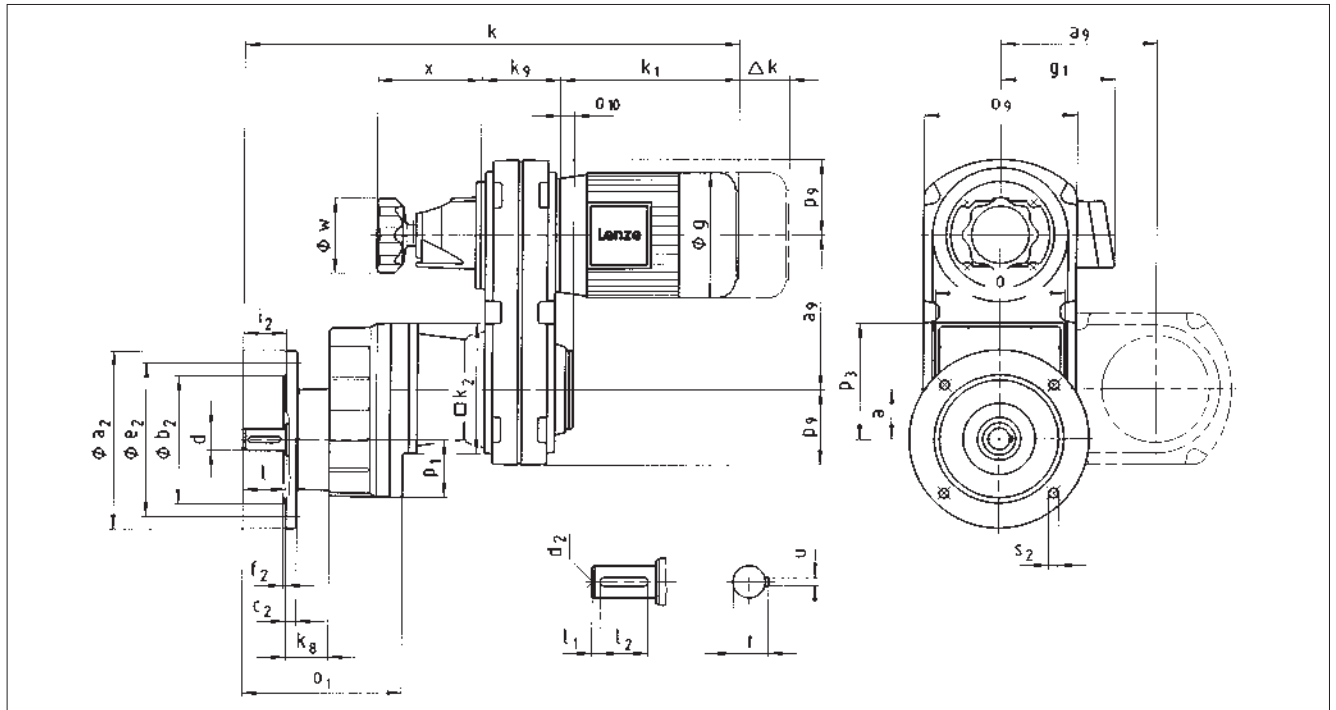
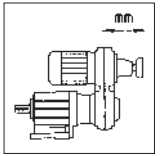
| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|------|
| | d k6 | l | l ₁ | l ₂ | d ₂ | u | t | a ₂ | b ₂ h7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4 x 90° | |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 | |
| | 140 | | | | | | | 95 | 115 | | 3 | 9 | | | |
| | 160 | | | | | | | 110 | 130 | | 3.5 | 9 | | | |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 | |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 | |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 160 | 110 | 12 | 130 | 3.5 | 50 | 9 | |
| | | | | | | | | 200 | 130 | | 165 | 4 | | 11 | |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 | |
| | | | | | | | | 250 | 180 | | 15 | 215 | | 4 | 13.5 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 250 | 180 | 16 | 215 | 4 | 80 | 13.5 | |
| | | | | | | | | 300 | 230 | | 18 | 265 | | | |

Dimensions in [mm] · Observe swivel positions for possible combinations! (see page 5-14)

Observe test dimension z (see page 5-36)

Compact units

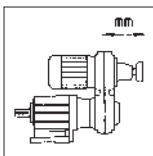
Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|----------------------|----------------------|----------|----------------------|--------------|-----|----------|-----|-----|-----|-----|-----|
| GST □□ - 1 K VCK | | 071 | 080 | 090 | | | 100 | | 112 | | | | | |
| Motor position 1 | | -12 /-32 | -12 /-32 | -12 /-32 | | | -12 /-32 | | -22 /-32 | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | |
| | o | o₁ | p₁ | p₃ | a | k₈ | k | | | | | | | |
| GST 04 | 100 | 134 | 41 | 88 | 36 | 35 | 486 | 573 | 656 | | | | | |
| GST 05 | 115 | 165 | 51 | 105 | 45 | 43 | 514 | 594 | 677 | 695 | | | | |
| GST 06 | 145 | 191 | 63 | 131 | 56 | 48 | | | | | 710 | 712 | | |
| GST 07 | 180 | 223 | 82 | 164 | 70 | 60 | | | | | 733 | 763 | 735 | 765 |
| GST 09 | 222 | 271 | 101 | 204 | 89 | 74 | | | | | 762 | 763 | 764 | 794 |
| | | | | | | | | | | | | | | 812 |
| | | | | | | | | | | | | | | 841 |
| | | | | | | | | | | | | | | 842 |
| | | | | | | | | | | | | | | 884 |

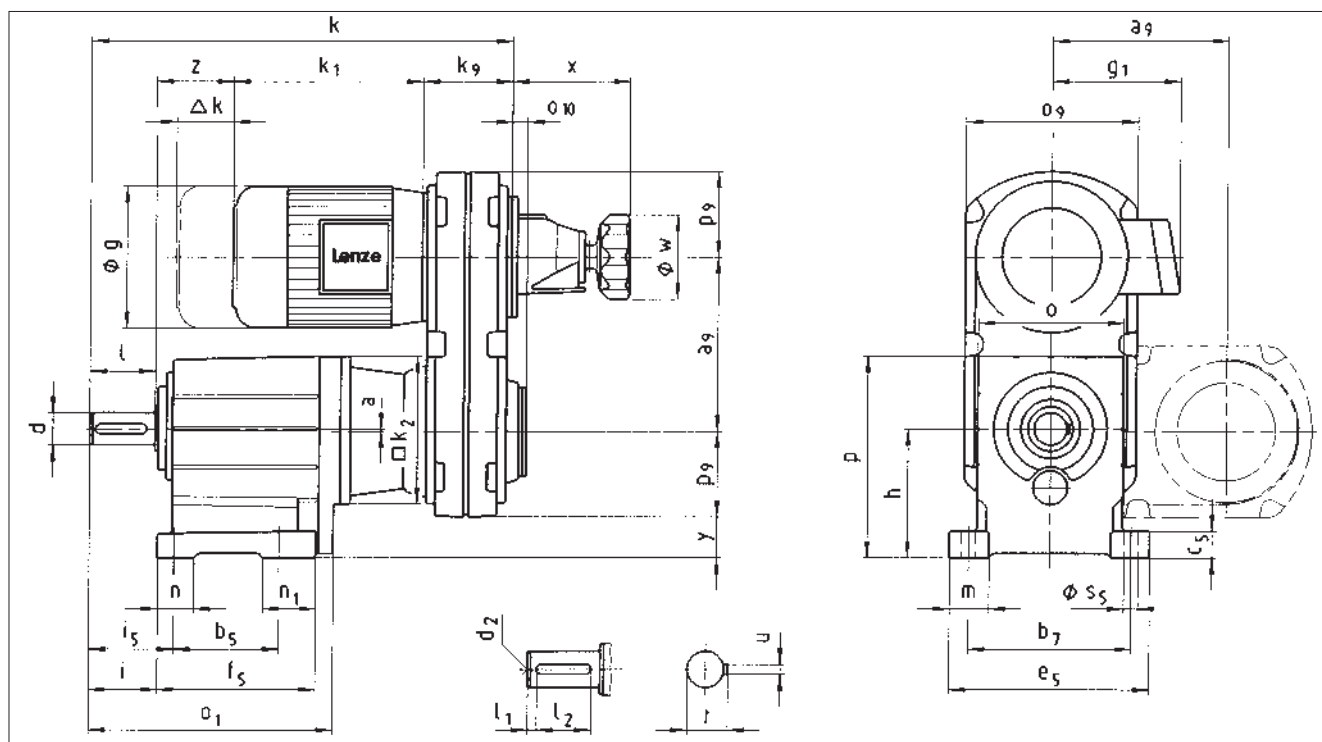
| Gearbox size | Solid shaft | | | | | | | Output flange | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ 4 x 90° |
| GST 04 | 16 | 32 | 6 | 20 | M5 | 5 | 18 | 120 | 80 | 10 | 100 | 3 | 32 | 7 |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| GST 05 | 20 | 40 | 6 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 |
| GST 06 | 25 | 50 | 7 | 36 | M10 | 8 | 28 | 160 | 110 | 12 | 130 | 3.5 | 50 | 9 |
| | | | | | | | | 200 | 130 | | 165 | 4 | | 11 |
| GST 07 | 30 | 60 | 7.5 | 45 | M10 | 8 | 33 | 200 | 130 | 14 | 165 | 3.5 | 60 | 11 |
| | | | | | | | | 250 | 180 | | 215 | 4 | | 13.5 |
| GST 09 | 40 | 80 | 8.5 | 63 | M16 | 12 | 43 | 250 | 180 | 16 | 215 | 4 | 80 | 13.5 |
| | | | | | | | | 300 | 230 | | 265 | | | |

Dimensions in [mm] · Observe swivel positions for possible combinations! (see page 5-14)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|-----------|-----------|--|
| GST □□ - 2 K VBR | | 071 | | 080 | | 090 | | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | |
| Motor position 6 | | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 | -32 | -22 | -32 | -32 | -32 | -32 | -32 | -12 / -22 | -12 / -22 | -12 / -22 | -12 / -22 | |
| | | 10B | 13C | 13C | 13D | 16D | 16D | 20E | 25F | 25F | 31G | 31G | 31G | 31H | 40H | 40H | 40H | 40H | 40H | 40H | 40H | 40H | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 198 | 222 | 274 | 323 | 323 | 360 | 360 | 360 | 388 | 433 | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 159 | 174 | 196 | 253 | 253 | 275 | 275 | 275 | 300 | 319 | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 161 | 174 | 212 | 253 | 253 | 275 | 275 | 275 | 309 | 327 | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 352 | 379 | 450 | 564 | 564 | 595 | 595 | 595 | 661 | 693 | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 75 | 80 | 63 | 120 | 120 | 122 | 122 | 122 | 167 | 148 | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 248 | 316 | 316 | 392 | 392 | 392 | 500 | 500 | 500 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 130 | 160 | 160 | 196 | 196 | 196 | 160 | 160 | 160 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 263 | 320 | 320 | 394 | 394 | 394 | 528 | 528 | 528 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 132 | 160 | 160 | 197 | 197 | 197 | 264 | 264 | 264 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | 300 | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | | | |
| | o | o₁ | p | h | a | k | | | | | | | | | | | | | | | | | |
| GST 04 | 100 | 174 | 132 | 80 | 0 | 289 | 346 | 346 | | | | | | | | | | | | | | | |
| GST 05 | 115 | 214 | 159 | 100 | 1 | 326 | 376 | 376 | 394 | 409 | 409 | | | | | | | | | | | | |
| GST 06 | 145 | 243 | 198 | 125 | 2 | | | 402 | | 435 | 435 | 485 | | | | | | | | | | | |
| GST 07 | 180 | 302 | 251 | 160 | 3 | | | | 491 | 491 | 541 | 572 | 572 | | | | | | | | | | |
| GST 09 | 222 | 370 | 311 | 200 | 4 | | | | | | 604 | 635 | 635 | 651 | 651 | | | | | | | | |
| GST 11 | 270 | 433 | 385 | 250 | 4 | | | | | | | 692 | 692 | 708 | 708 | 718 | 689 | 689 | 689 | | | | |
| GST 14 | 328 | 533 | 479 | 315 | 6 | | | | | | | | | 798 | 798 | | 779 | 779 | 779 | | | | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ | |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 24.5 | 20 | 36 | 9 | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 | |

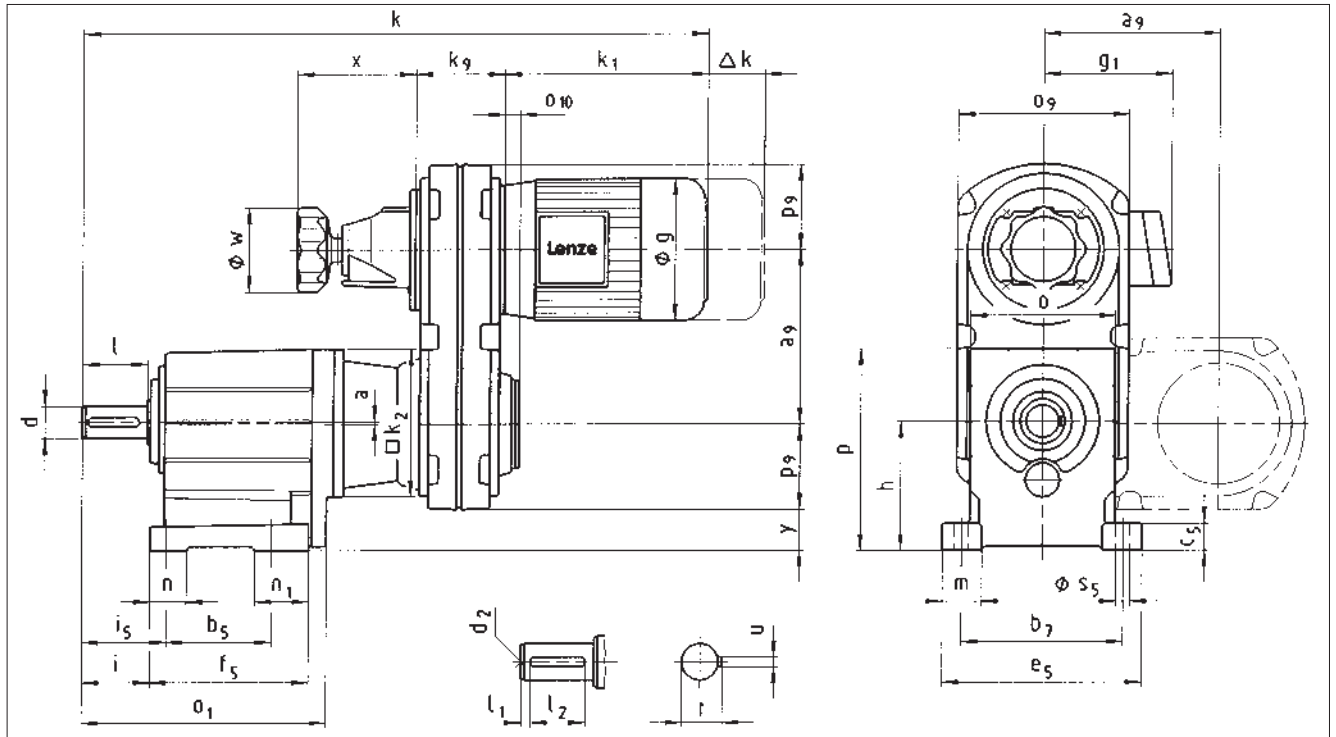
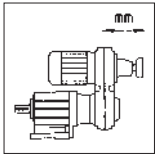
d ≤ 50 mm: k6
d ≥ 50 mm: m6

Dimensions in [mm]
Observe test dimensions z and y! (see page 5-37)

Observe swivel positions for possible combinations!
(see page 5-15)

Compact units

Dimensions with helical gearboxes



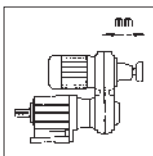
| Compact unit | | Drive size | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|-----------|-----------|--------------|-----------|-----|-----|-----|-----|--|--|-----|
| GST □□ - 2 K VBR | | 071 | 080 | 090 | | 100 | 112 | | | | | | | |
| Motor position 1 | | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -22 / -32 | | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 20E | | | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 198 | 222 | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 159 | 174 | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 161 | 174 | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 352 | 379 | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 75 | 80 | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 248 | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 130 | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 263 | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 132 | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | |
| | o | o₁ | p | h | a | k | | | | | | | | |
| GST 04 | 100 | 174 | 132 | 80 | 0 | 526 | 613 | 696 | 744 | 759 | 761 | | | |
| GST 05 | 115 | 214 | 159 | 100 | 1 | 563 | 643 | 726 | 744 | 759 | 761 | | | |
| GST 06 | 145 | 243 | 198 | 125 | 2 | | | 752 | | 785 | 787 | | | 864 |
| GST 07 | 180 | 302 | 251 | 160 | 3 | | | | | 841 | 843 | | | 920 |
| GST 09 | 222 | 370 | 311 | 200 | 4 | | | | | | | | | 983 |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ | |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 76 | 105 | 18 | 129 | 112 | 43 | 53 | 24.5 | 20 | 36 | 9 | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 | |

d ≤ 50 mm: k6
d ≥ 50 mm: m6

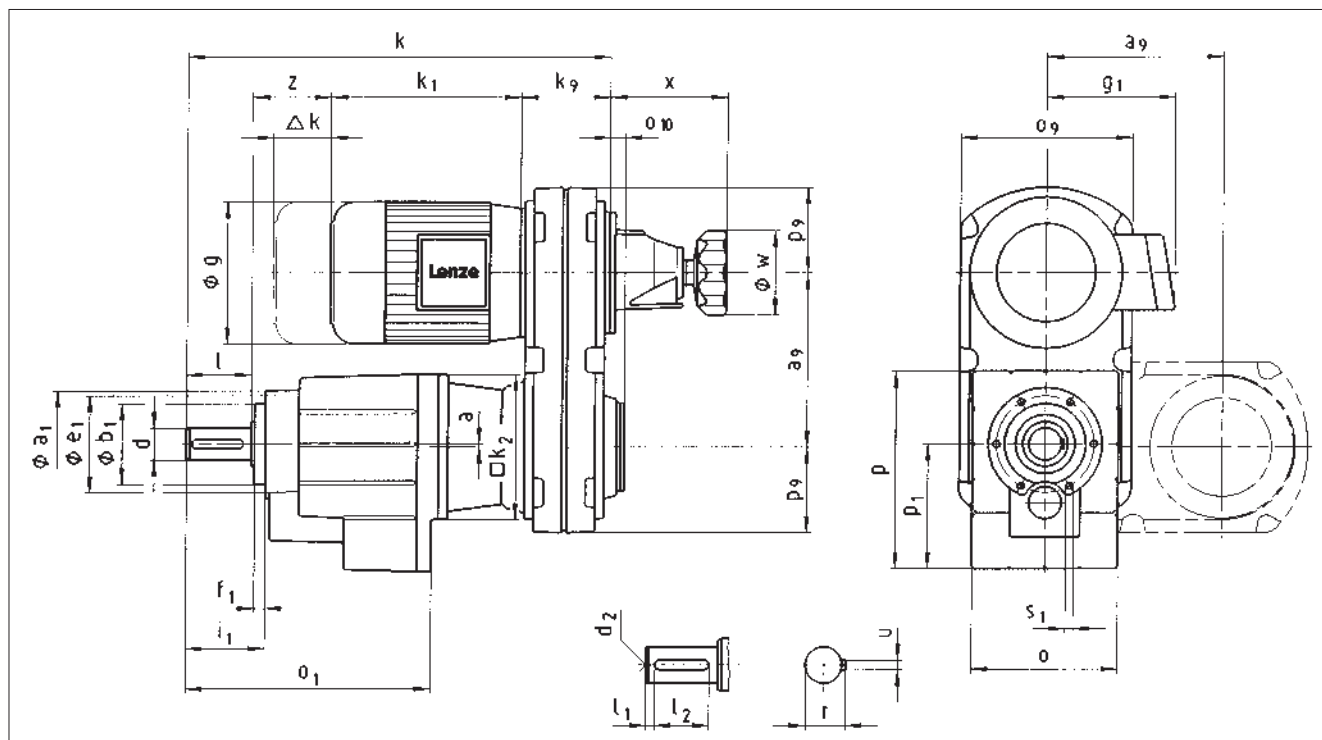
Dimensions in [mm]
Observe test dimension y! (see page 5-37)

Observe swivel positions for possible combinations!
(see page 5-15)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|----------------------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|-----------|-----------|--|
| GST □□ - 2 K VCR | | 071 | | 080 | | 090 | | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | |
| Motor position 6 | | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -22 / -32 | -22 / -32 | -22 / -32 | -22 | -32 | -32 | -32 | -32 | -32 | -32 | -12 / -22 | -12 / -22 | -12 / -22 | -12 / -22 | |
| | | 10B | 13C | 13C | 13D | 16D | 16D | 20E | 20E | 25F | 25F | 31G | 31G | 31G | 31H | 40H | 40H | 40H | 40H | 40H | 40H | 40H | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 198 | 222 | 274 | 323 | 323 | 360 | 360 | 360 | 388 | 433 | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 159 | 174 | 196 | 253 | 253 | 275 | 275 | 275 | 300 | 319 | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 161 | 174 | 212 | 253 | 253 | 275 | 275 | 275 | 309 | 327 | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 352 | 379 | 450 | 564 | 564 | 595 | 595 | 595 | 661 | 693 | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 75 | 80 | 63 | 120 | 120 | 122 | 122 | 122 | 167 | 148 | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 248 | 316 | 316 | 392 | 392 | 392 | 500 | 500 | 500 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 130 | 160 | 160 | 196 | 196 | 196 | 160 | 160 | 160 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 263 | 320 | 320 | 394 | 394 | 394 | 528 | 528 | 528 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 132 | 160 | 160 | 197 | 197 | 197 | 264 | 264 | 264 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | 300 | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | | | |
| | o | o₁ | p | p₁ | a | k | | | | | | | | | | | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 289 | 346 | 346 | | | | | | | | | | | | | | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 326 | 376 | 376 | 394 | 409 | 409 | | | | | | | | | | | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | | | 402 | | 435 | 435 | 485 | | | | | | | | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | | 491 | 491 | 541 | 572 | 572 | | | | | | | | | | |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | | | | 604 | 635 | 635 | 651 | 651 | | | | | | | | |
| GST 11 | 270 | 433 | 378 | 243 | 4 | | | | | | | 692 | 692 | 708 | 708 | 718 | 689 | 689 | 689 | | | | |
| GST 14 | 328 | 533 | 470 | 306 | 6 | | | | | | | | | 798 | 798 | | 779 | 779 | 779 | | | | |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | a₁ | b₁ h7 | e₁ | f₁ | i₁ | s₁ | |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 72 | 48 | 61 | 8 | 51 | M5x10 | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 | |

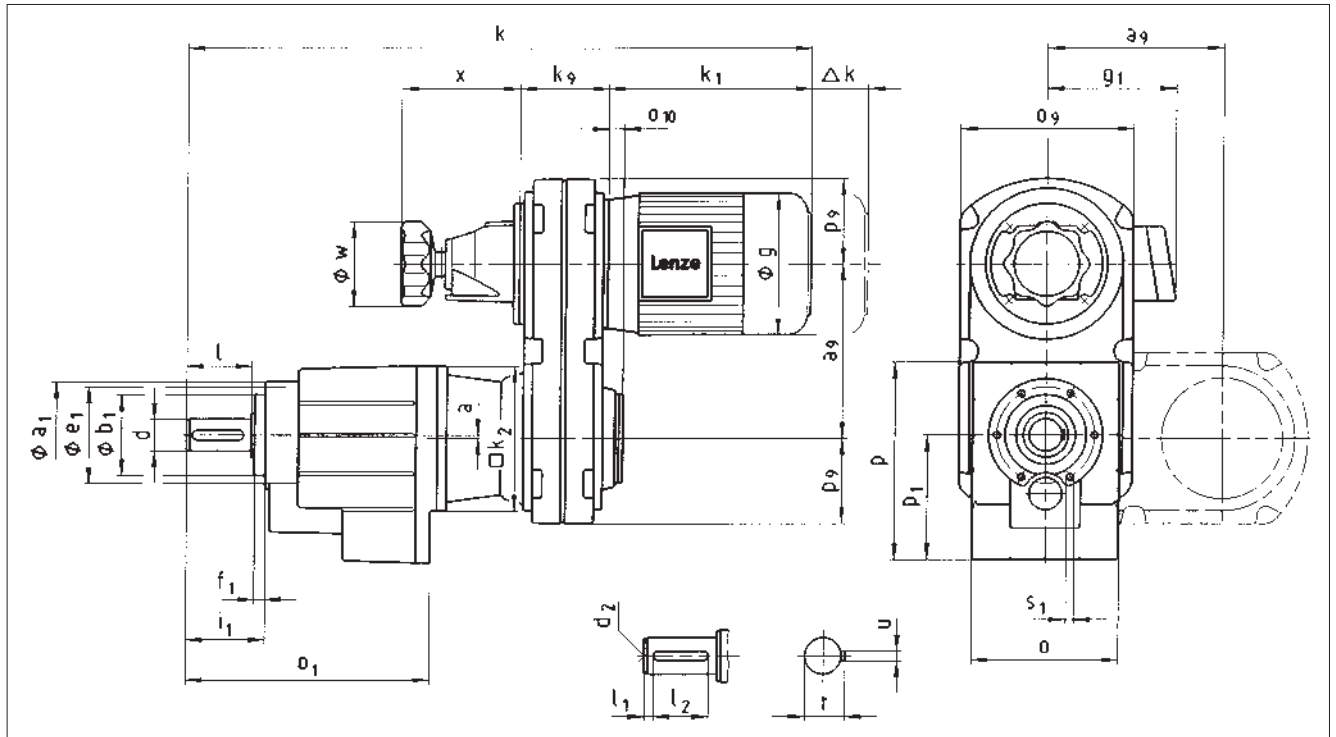
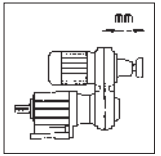
d ≤ 50 mm: k6
d ≥ 50 mm: m6

Dimensions in [mm]
Observe test dimension z! (see page 5-37)

Observe swivel positions for possible combinations!
(see page 5-15)

Compact units

Dimensions with helical gearboxes



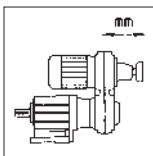
| Compact unit | | Drive size | | | | | | | | | | | |
|-------------------------|-----------------------|-----------------|-----------|----------------|-----------|--------------|-----------|-----|-----|-----|-----|--|-----|
| GST □□ - 2 K VCR | | 071 | 080 | 090 | | 100 | 112 | | | | | | |
| Motor position 1 | | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -12 / -32 | -22 / -32 | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 20E | | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 198 | 222 | | | | | |
| | g₁ | Without options | 128 | 137 | 147 | 147 | 147 | 159 | 174 | | | | |
| | | Brake motor | 131 | 142 | 154 | 154 | 154 | 161 | 174 | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 352 | 379 | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 75 | 80 | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 248 | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 130 | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 263 | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 132 | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | |
| | o | o ₁ | p | p ₁ | a | k | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 526 | 613 | 696 | 744 | 759 | 761 | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 563 | 643 | 726 | 744 | 759 | 761 | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | | | 752 | | 785 | 787 | | 864 |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | | | 841 | 843 | | 920 |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | | | | | | 983 |

| Gearbox size | Solid shaft | | | | | | | Pitch circle | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|
| | d | l | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 72 | 48 | 61 | 8 | 51 | M5x10 |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 |

d ≤ 50 mm: k6
d ≥ 50 mm: m6

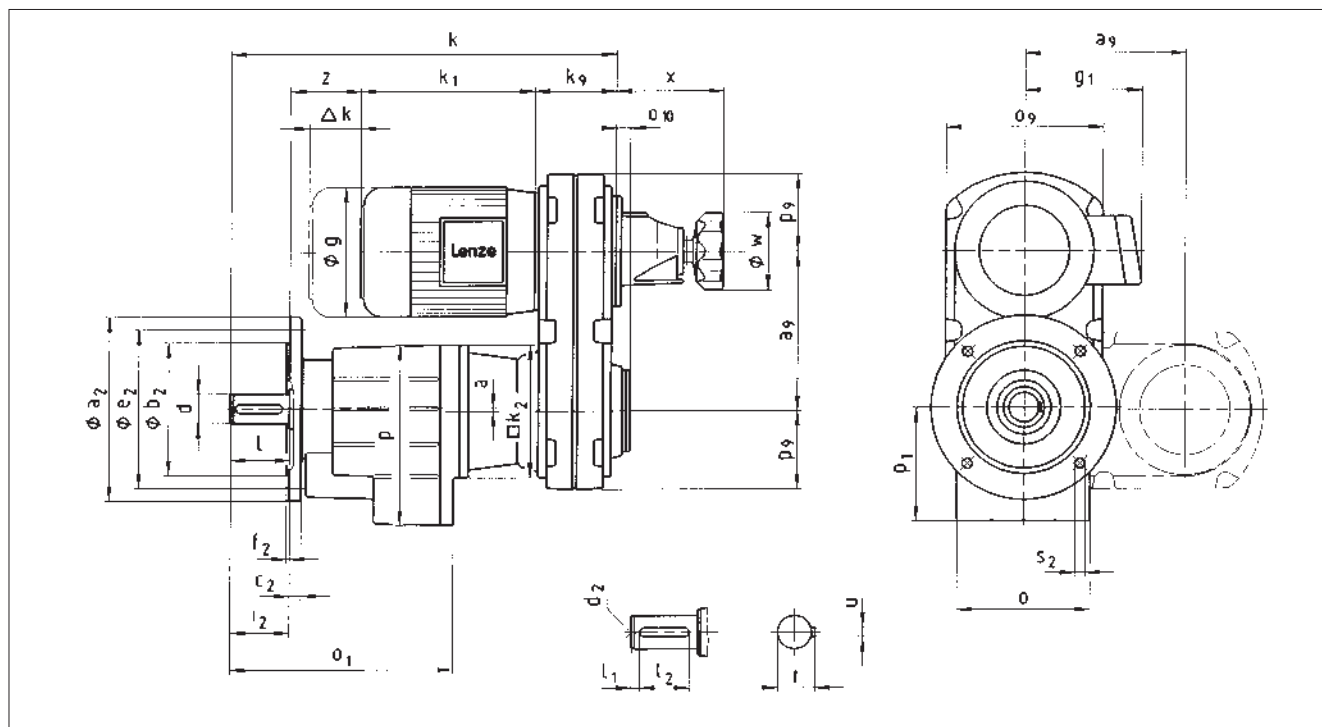
Dimensions in [mm]

Observe swivel positions for possible combinations!
(see page 5-15)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|----------------------|----------|--------------|-----------|-----------|-----|-----|-----|-----|-----|-----|-----------|-----|
| GST □□ - 2 K VCK | | 071 | 080 | 090 | | 100 | 112 | 132 | 160 | | 180 | | 200 | 225 | | |
| Motor position 6 | | -12 / -32 | -12 / -32 | -12 / -32 | | -12 / -32 | -22 / -32 | -22 / -32 | -22 | -32 | 31G | 31H | -32 | -32 | -12 / -22 | |
| | | 10B | 13C | 13C | 13D | 16D | 16D | 20E | 25F | 25F | 31G | 31H | 40H | 40H | 40H | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 198 | 222 | 274 | 323 | 323 | 360 | 360 | 360 | 388 | 433 |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 159 | 174 | 196 | 253 | 253 | 275 | 275 | 275 | 300 | 319 |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 161 | 174 | 212 | 253 | 253 | 275 | 275 | 275 | 309 | 327 |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 352 | 379 | 450 | 564 | 564 | 595 | 595 | 595 | 661 | 693 |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 75 | 80 | 63 | 120 | 120 | 122 | 122 | 122 | 167 | 148 |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 248 | 316 | 316 | 392 | 392 | 392 | 500 | 500 | 500 |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 130 | 160 | 160 | 196 | 196 | 160 | 160 | 160 | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 263 | 320 | 320 | 394 | 394 | 528 | 528 | 528 | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 132 | 160 | 160 | 197 | 197 | 264 | 264 | 264 | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | |
| | Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 222 | 222 | 222 | 300 | 300 | 300 | 300 |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | |
| | o | o₁ | p | p₁ | a | k | | | | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 289 | 346 | 346 | | | | | | | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 326 | 376 | 376 | 394 | 409 | 409 | | | | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | | | 402 | | 435 | 435 | 485 | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | | | 491 | 491 | 541 | 572 | 572 | | |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | | | | | 604 | 635 | 635 | 651 | 651 |
| GST 11 | 270 | 433 | 378 | 243 | 4 | | | | | | | | 692 | 692 | 708 | 708 |
| GST 14 | 328 | 533 | 470 | 306 | 6 | | | | | | | | | | 798 | 798 |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ 4 x 90° | |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 | |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 50 | 7 | |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 | |
| | | | | | | | | 200 | 130 | | 165 | 3.5 | | 11 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 | |
| | | | | | | | | 250 | 180 | | 215 | 4 | | 14 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 | |
| | | | | | | | | 300 | 230 | | 265 | 4 | | 14 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 | |
| | | | | | | | | 350 | 250 | | 300 | 5 | | 18 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 | |
| | | | | | | | | 400 | 300 | | 350 | 5 | | 18 | |

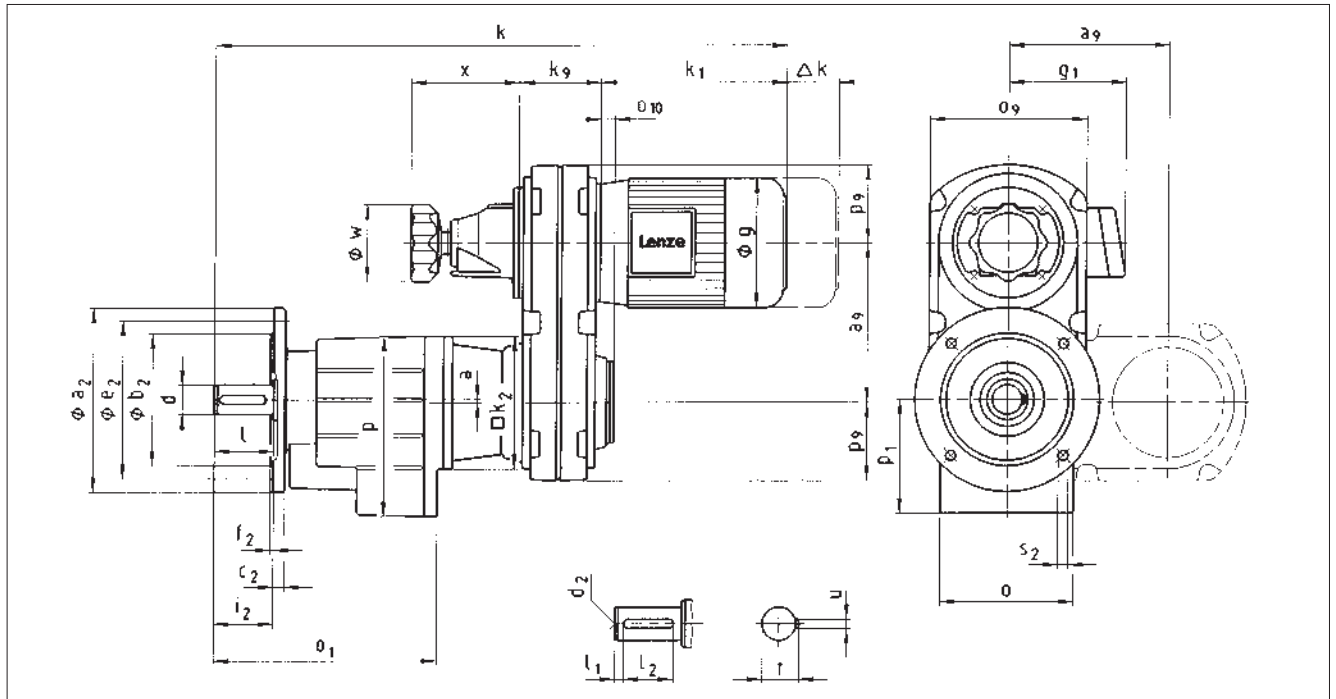
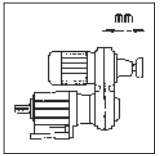
d ≤ 50 mm: k6
d ≥ 50 mm: m6

Dimensions in [mm]
Observe test dimension z! (see page 5-37)

Observe swivel positions for possible combinations!
(see page 5-15)

Compact units

Dimensions with helical gearboxes



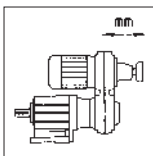
| Compact unit | | Drive size | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|-----------|----------------------|-----------|--------------|-----------|-----|-----|-----|-----|--|-----|--|
| GST □□ - 2 K VCK | | 071 | 080 | 090 | | 100 | 112 | | | | | | | |
| Motor position 1 | | -12 / -32 | -12 / -32 | 13C | -12 / -32 | -12 / -32 | -22 / -32 | | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 20E | | | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 222 | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 174 | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 174 | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 379 | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 80 | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 248 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 130 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 263 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 132 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 27 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | |
| | o | o₁ | p | p₁ | a | k | | | | | | | | |
| GST 04 | 100 | 174 | 129 | 77 | 0 | 526 | 613 | 696 | | | | | | |
| GST 05 | 115 | 214 | 156 | 98 | 1 | 563 | 643 | 726 | 744 | 759 | 761 | | | |
| GST 06 | 145 | 243 | 194 | 121 | 2 | | | 752 | | 785 | 787 | | 864 | |
| GST 07 | 180 | 302 | 245 | 155 | 3 | | | | | 841 | 843 | | 920 | |
| GST 09 | 222 | 370 | 304 | 194 | 4 | | | | | | | | 983 | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|----|
| | d | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ 4 x 90° | |
| GST 04 | 20 | 40 | 5 | 28 | M6 | 6 | 22.5 | 120 | 80 | 10 | 100 | 3 | 40 | 7 | |
| | | | | | | | | 140 | 95 | | 115 | 3 | | 9 | |
| | | | | | | | | 160 | 110 | | 130 | 3.5 | | 9 | |
| GST 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 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 | |
| | | | | | | | | 200 | 130 | | 165 | 11 | | | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 | |
| | | | | | | | | 250 | 180 | | 15 | 215 | | 4 | 14 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 | |
| | | | | | | | | 300 | 230 | | 18 | 265 | | 14 | |

d ≤ 50 mm: k6
d ≥ 50 mm: m6

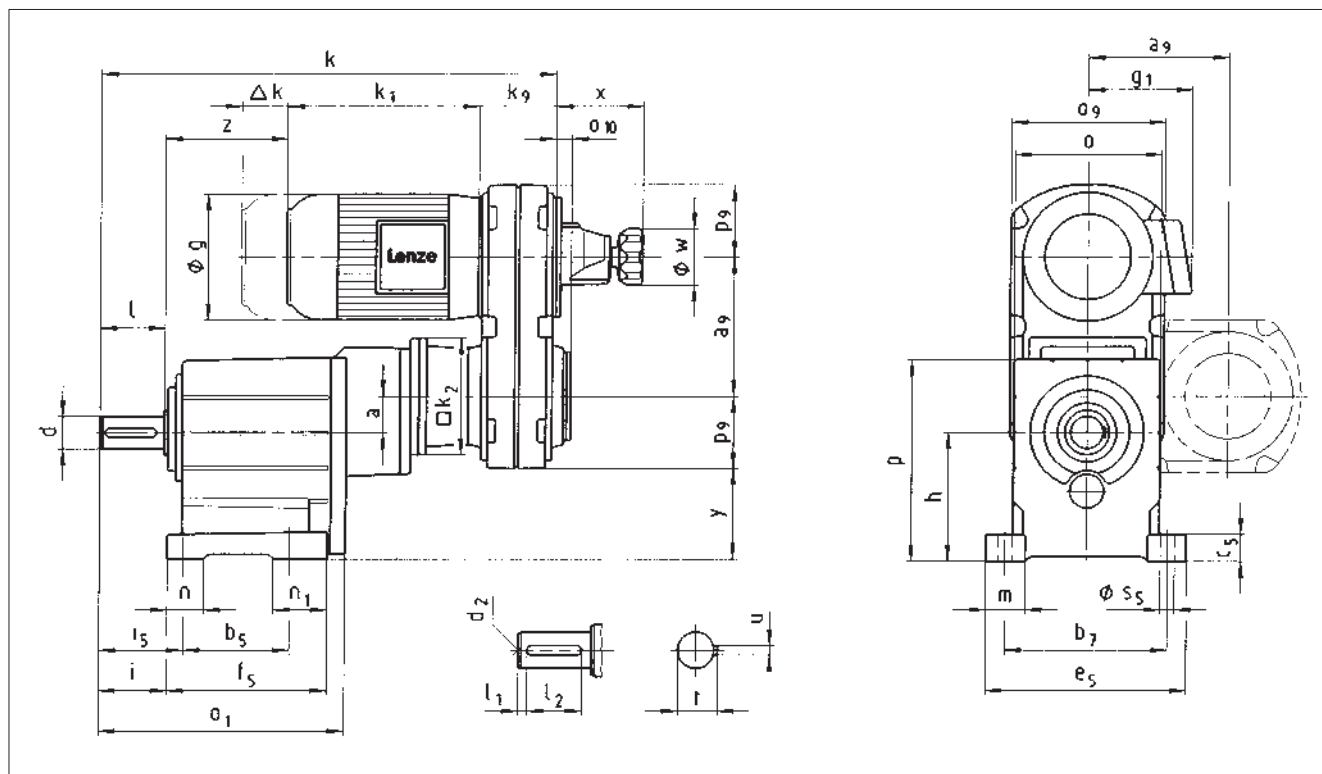
Dimensions in [mm]

Observe swivel positions for possible combinations!
(see page 5-15)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|----------|----------|----------|--------------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| GST □□ - 3 K VBR | | 071 | 080 | 090 | | | 100 | | 112 | | 132 | 160 | | 180 | | 200 | | | | | |
| Motor position 6 | | -12/-32 | -12/-32 | -12/-32 | | | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -32 | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25F | 31G | 31G | 40H | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 323 | 323 | 360 | 388 | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 253 | 253 | 275 | 300 | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 253 | 253 | 275 | 309 | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 564 | 564 | 595 | 661 | | | | | |
| Variable speed drive | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 120 | 120 | 122 | 167 | | | | | |
| | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 392 | 500 | 500 | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 196 | 160 | 160 | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 394 | 528 | 528 | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 197 | 264 | 264 | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 200 | 200 | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 320 | 320 | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 142 | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 180 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | |
| | o | o₁ | p | h | a | k | | | | | | | | | | | | | | | |
| GST 05 | 115 | 208 | 159 | 100 | 35 | 395 | 452 | | | | | | | | | | | | | | |
| GST 06 | 145 | 240 | 198 | 125 | 34 | 438 | 495 | 495 | | | | | | | | | | | | | |
| GST 07 | 180 | 302 | 251 | 160 | 42 | 512 | 562 | 562 | 580 | 595 | | | | | | | | | | | |
| GST 09 | 222 | 370 | 311 | 200 | 52 | | 643 | 643 | 661 | 676 | 676 | | 726 | 727 | 757 | 757 | | | | | |
| GST 11 | 270 | 433 | 385 | 250 | 66 | | | | 737 | 752 | 752 | | 802 | | 833 | 833 | 849 | 849 | | | |
| GST 14 | 328 | 533 | 479 | 315 | 83 | | | | | | 906 | 906 | 926 | | 957 | 957 | 973 | 973 | 954 | 954 | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 | |

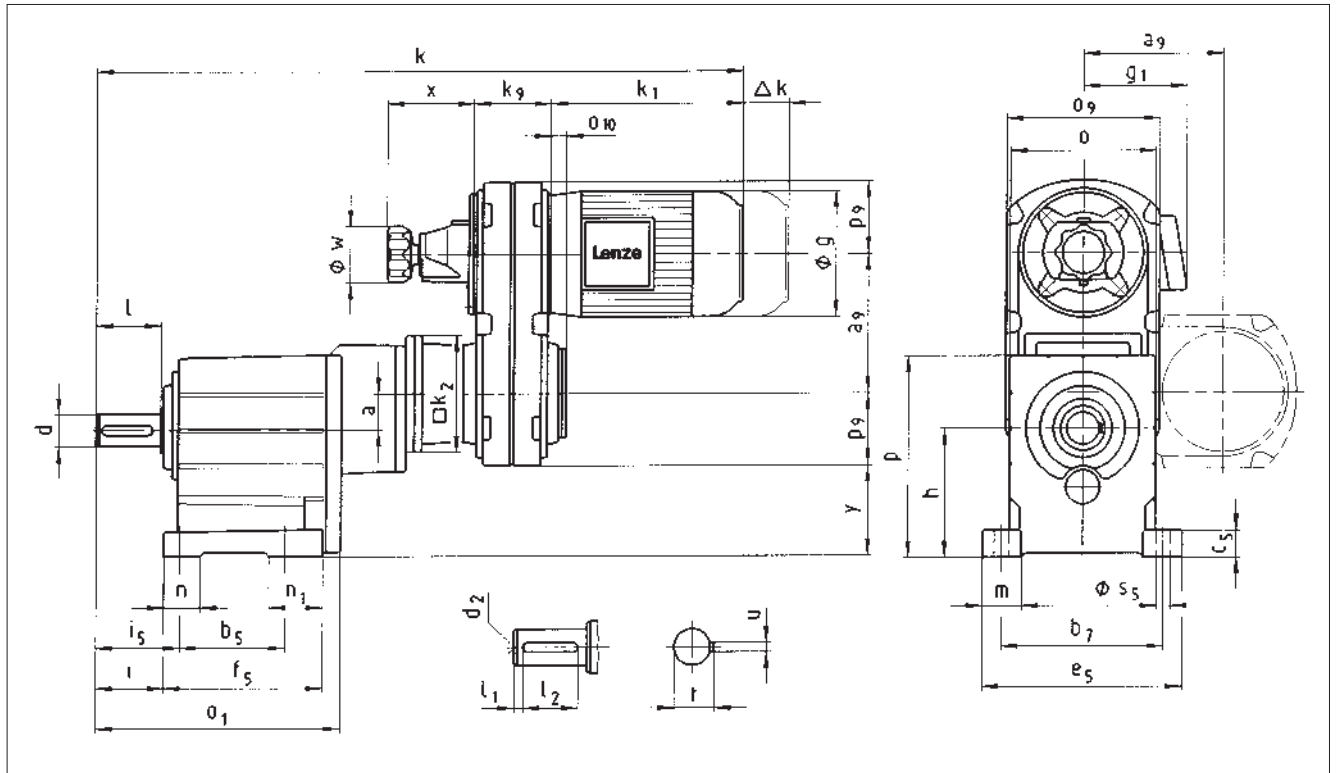
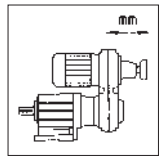
d ≤ 50 mm: k6
d ≥ 50 mm: m6

Dimensions in [mm]
Observe test dimension y! (see page 5-38)

Observe swivel positions for possible combinations!
(see page 5-16)

Compact units

Dimensions with helical gearboxes



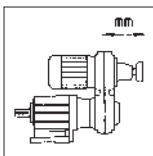
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|----------|----------|----------|--------------|----------|----------|------|------|------|------|------|--|--|--|------|------|--|
| GST □□ - 3 K VBR | | 071 | 080 | 090 | | | 100 | | 112 | | | | | | | | | | |
| Motor position 1 | | -12 /-32 | -12 /-32 | -12 /-32 | | | -12 /-32 | -22 /-32 | | | | | | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | | | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | | | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | | | | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | | | | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | | | | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | |
| | o | o₁ | p | h | a | k | | | | | | | | | | | | | |
| GST 05 | 115 | 208 | 159 | 100 | 35 | 632 | 719 | | | | | | | | | | | | |
| GST 06 | 145 | 239.5 | 198 | 125 | 34 | 675 | 762 | 845 | | | | | | | | | | | |
| GST 07 | 180 | 302 | 251 | 160 | 42 | 749 | 829 | 912 | 930 | 945 | | 947 | | | | | | | |
| GST 09 | 222 | 369.5 | 311 | 200 | 52 | | 910 | 993 | 1011 | 1026 | | 1028 | | | | | 1105 | 1106 | |
| GST 11 | 270 | 432.5 | 385 | 250 | 66 | | | | 1087 | 1102 | | 1104 | | | | | 1181 | | |
| GST 14 | 328 | 532.5 | 479 | 315 | 83 | | | | | | 1256 | | 1258 | | | | 1305 | | |

| Gearbox size | Solid shaft | | | | | | | | Foot | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------------------|----------|----------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | b₅ | b₇ | c₅ | e₅ | f₅ | i | i₅ | m | n | n₁ | s₅ | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 90 | 125 | 23 | 155 | 139 | 53 | 66 | 32.5 | 26 | 49 | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 106 | 160 | 28 | 196 | 157 | 64 | 79 | 38 | 35 | 52 | 13.5 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 130 | 200 | 34 | 247 | 196 | 84 | 104 | 48.5 | 45 | 66 | 18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 165 | 245 | 44 | 298 | 239 | 105 | 127.5 | 54 | 48 | 74 | 18 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 200 | 300 | 54 | 368 | 280 | 125 | 155 | 69 | 65 | 80 | 22 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 250 | 380 | 65 | 460 | 340 | 165 | 200 | 85 | 85 | 91 | 26 | |

d ≤ 50 mm: k6
d ≥ 50 mm: m6

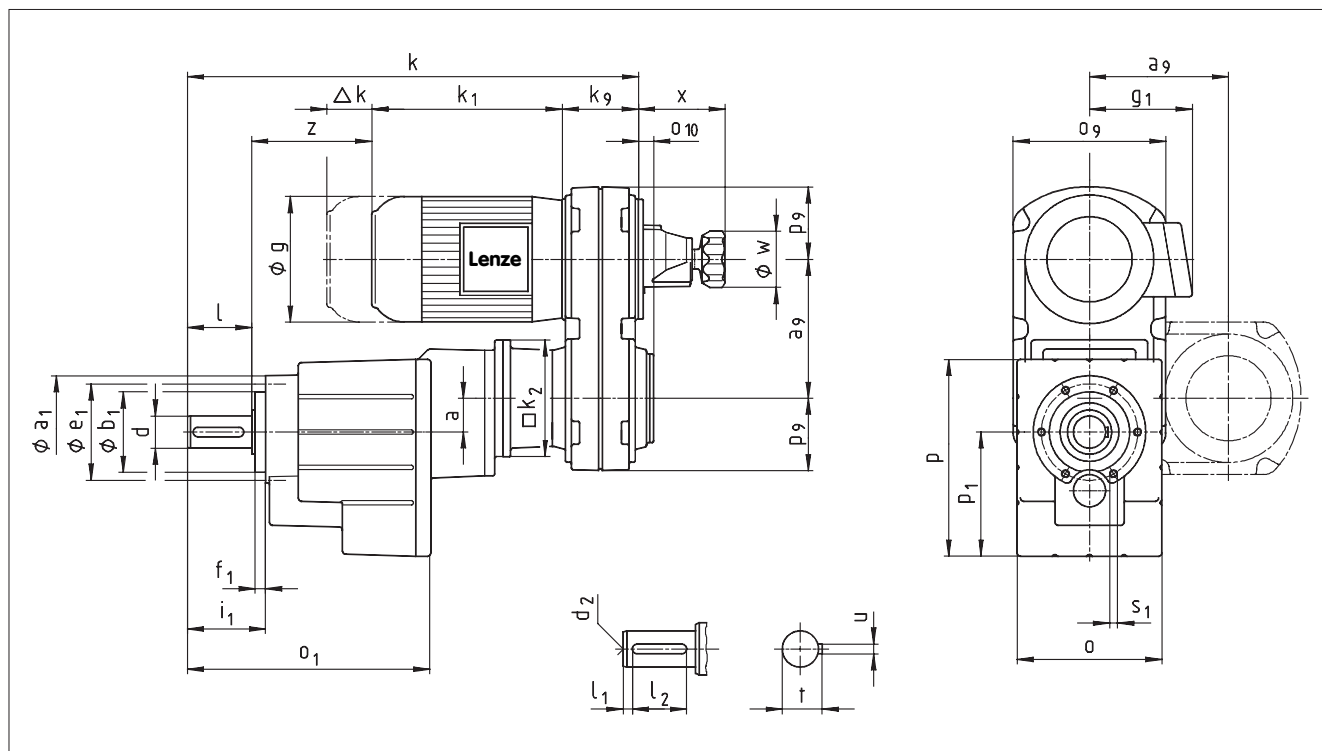
Dimensions in [mm]
Observe test dimension y! (see page 5-38)

Observe swivel positions for possible combinations!
(see page 5-16)



Compact units

Dimensions with helical gearboxes



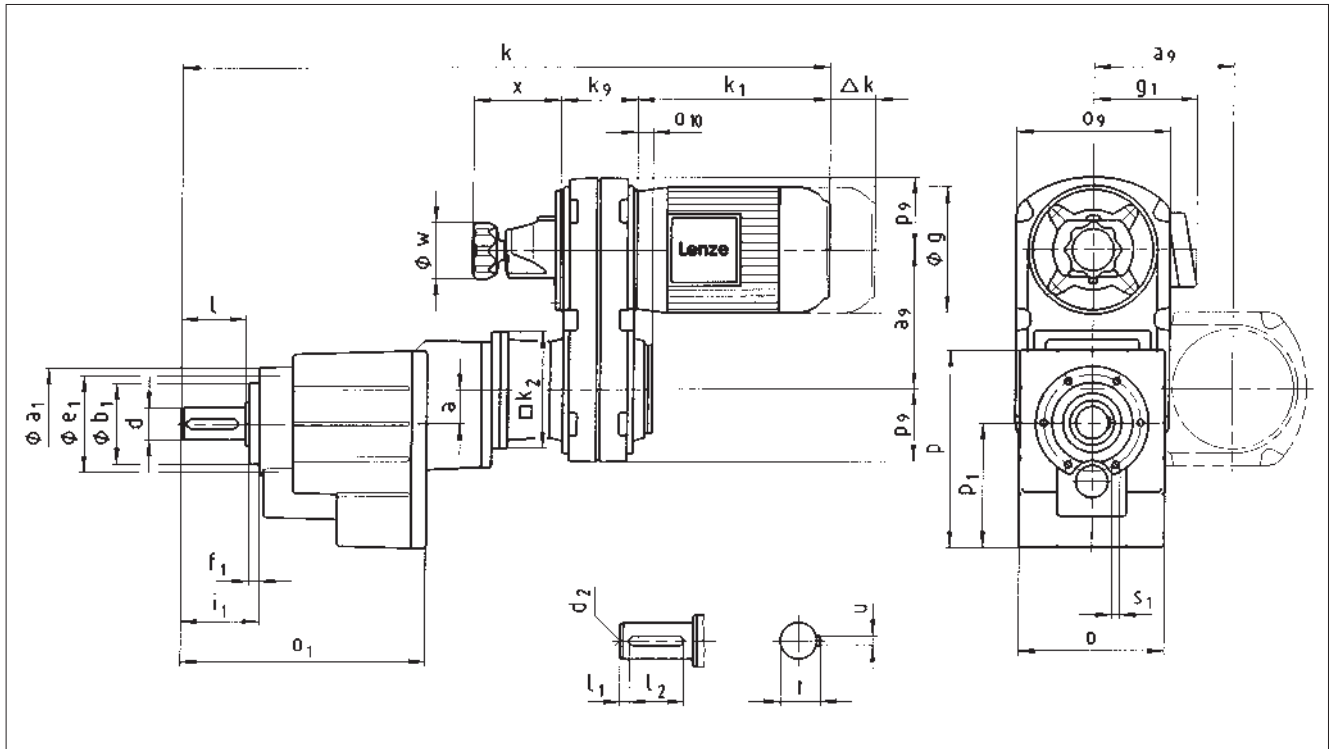
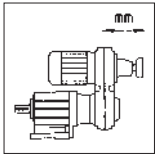
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|----------------------|----------|----------------------|----------|--------------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GST □□ - 3 K VCR | | 071 | 080 | 090 | | | 100 | | 112 | | 132 | 160 | | 180 | | 200 | | | | | | |
| Motor position 6 | | -12/-32 | -12/-32 | -12/-32 | | | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -32 | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25F | 31G | 31G | 40H | 40H | | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 323 | 323 | 360 | 360 | 388 | | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 253 | 253 | 275 | 275 | 300 | | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 253 | 253 | 275 | 275 | 309 | | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 564 | 564 | 595 | 595 | 661 | | | | | |
| Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 120 | 120 | 122 | 122 | 167 | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 392 | 392 | 500 | 500 | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 196 | 196 | 160 | 160 | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 394 | 394 | 528 | 528 | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 197 | 197 | 264 | 264 | | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 200 | 200 | | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 320 | 320 | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 142 | 142 | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | | |
| | o | o₁ | p | p₁ | a | k | | | | | | | | | | | | | | | | |
| GST 05 | 115 | 208 | 156 | 98 | 35 | 395 | 452 | | | | | | | | | | | | | | | |
| GST 06 | 145 | 240 | 194 | 121 | 34 | 438 | 495 | 495 | | | | | | | | | | | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 42 | 512 | 562 | 562 | 580 | 595 | | | | | | | | | | | | |
| GST 09 | 222 | 370 | 304 | 194 | 52 | | 643 | 643 | 661 | 676 | | | 676 | 726 | 727 | 757 | 757 | | | | | |
| GST 11 | 270 | 433 | 378 | 243 | 66 | | | | 737 | 752 | | | 752 | | | 833 | 833 | 849 | 849 | | | |
| GST 14 | 328 | 533 | 470 | 306 | 83 | | | | | | 906 | | | 906 | 926 | | 957 | 957 | 973 | 973 | 954 | 954 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | a₁ | b₁ h7 | e₁ | f₁ | i₁ | s₁ | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 | |

Dimensions in [mm] d ≤ 50mm: k6 Observe test dimension z and y! (see page 5-38)
d > 50mm: m6 Observe swivel positions for possible combinations! (see page 5-16)

Compact units

Dimensions with helical gearboxes



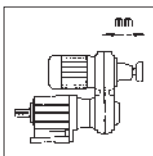
| Compact unit GST □□ - 3 K VCR | | Drive size | | | | | | | | | | | |
|---|----------------------|----------------------|----------|----------------------|----------|----------------|-----|-----|----------------|------|----------------|------|------|
| | | 071 -12/-32 | | 080 -12/-32 | | 090 -12/-32 | | | 100 -12/-32 | | 112 -22/-32 | | |
| Motor position 1 | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | |
| | g₁ | Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | |
| | | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | |
| Δk | Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | |
| o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | |
| | o | o₁ | p | p₁ | a | k | | | | | | | |
| GST 05 | 115 | 207.5 | 156 | 98 | 35 | 632 | 719 | | | | | | |
| GST 06 | 145 | 239.5 | 194 | 121 | 34 | 675 | 762 | 845 | | | | | |
| GST 07 | 180 | 302 | 245 | 155 | 42 | 749 | 829 | 912 | 930 | 945 | 947 | | |
| GST 09 | 222 | 369.5 | 304 | 194 | 52 | | 910 | 993 | 1011 | 1026 | 1028 | | |
| GST 11 | 270 | 432.5 | 378 | 243 | 66 | | | | 1087 | 1102 | 1104 | | |
| GST 14 | 328 | 532.5 | 470 | 306 | 83 | | | | | | 1256 | 1258 | 1305 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | a₁ | b₁ h7 | e₁ | f₁ | i₁ | s₁ | |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 88 | 58 | 74 | 9 | 62 | M6x12 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 109 | 70 | 90 | 10 | 74 | M8x14 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 140 | 100 | 120 | 13 | 97 | M10x18 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 174 | 120 | 145 | 15 | 120 | M12x20 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 215 | 150 | 185 | 18 | 143 | M16x26 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 265 | 195 | 230 | 22 | 187 | M20x34 | |

d ≤ 50 mm: k6
d ≥ 50 mm: m6

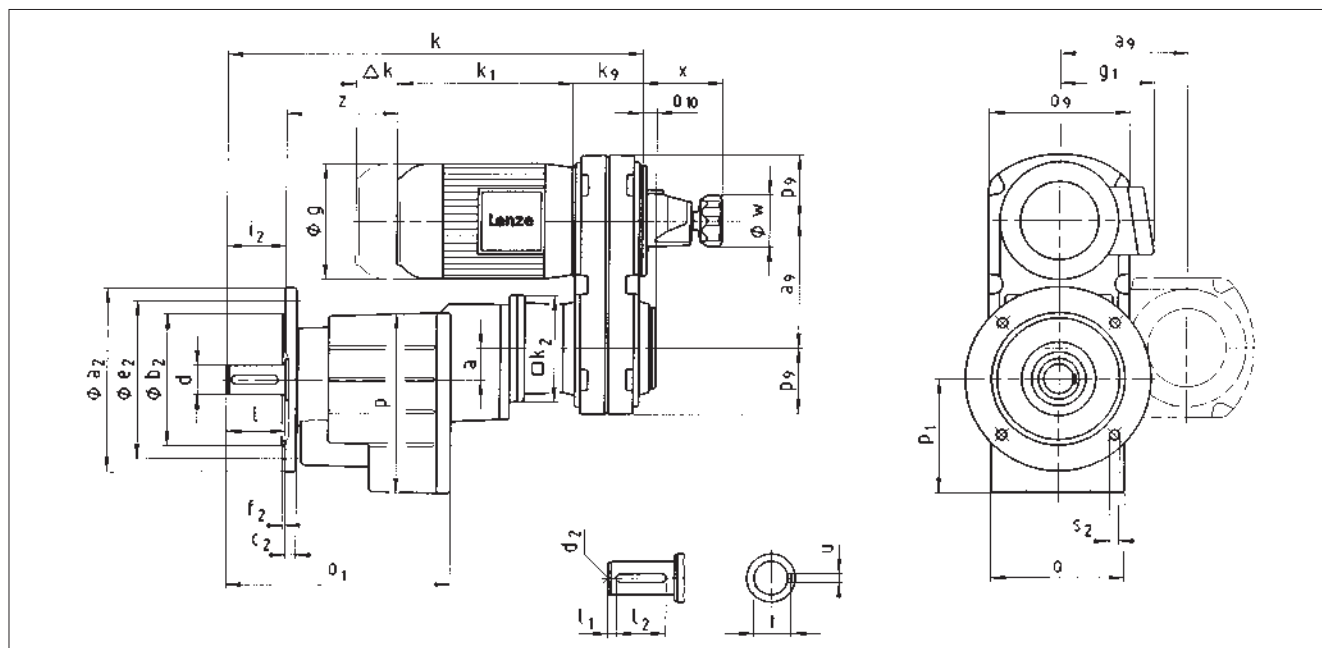
Dimensions in [mm]

Observe swivel positions for possible combinations!
(see page 5-16)



Compact units

Dimensions with helical gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------------|----------------|----------------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|------------|-----|-----|-----|
| | | 071 -12/-32 | 080 -12/-32 | 090 -12/-32 | | | | 100 -12/-32 | | 112 -22/-32 | | 132 -22/-32 | | 160 -22/-32 | | 180 -22/-32 | | 200 -32 | | | |
| GST □□ - 3 K VCK | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25F | 31G | 31G | 40H | 40H | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | 274 | 323 | 323 | 360 | 360 | 388 | | | | |
| | g ₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | 196 | 253 | 253 | 275 | 275 | 300 | | | | |
| | g ₁ Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | 212 | 253 | 253 | 275 | 275 | 309 | | | | |
| | k ₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | 450 | 564 | 564 | 595 | 595 | 661 | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | 63 | 120 | 120 | 122 | 122 | 167 | | | | |
| Variable speed drive | a ₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | 316 | 316 | 392 | 392 | 500 | 500 | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | 160 | 160 | 196 | 196 | 160 | 160 | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | 320 | 320 | 394 | 394 | 528 | 528 | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | 160 | 160 | 197 | 197 | 264 | 264 | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 200 | 200 | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 320 | 320 | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 142 | 142 | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | | | | | |
| Gearbox size | Gearbox | | | | | Total length k | | | | | | | | | | | | | | | |
| | o | o ₁ | p | p ₁ | a | | | | | | | | | | | | | | | | |
| | GST 05 | 115 | 208 | 156 | 98 | 35 | 395 | 452 | | | | | | | | | | | | | |
| | GST 06 | 145 | 240 | 194 | 121 | 34 | 438 | 495 | 495 | | | | | | | | | | | | |
| | GST 07 | 180 | 302 | 245 | 155 | 42 | 512 | 562 | 562 | 580 | 595 | | | | | | | | | | |
| | GST 09 | 222 | 370 | 304 | 194 | 52 | | 643 | 643 | 661 | 676 | | 676 | | 726 | 727 | 757 | 757 | | | |
| | GST 11 | 270 | 433 | 378 | 243 | 66 | | | | | 752 | | 752 | | 802 | | 833 | 833 | 849 | 849 | |
| GST 14 | 328 | 533 | 470 | 306 | 83 | | | | | | 906 | | 906 | 926 | | 957 | 957 | 973 | 973 | 954 | 954 |

| 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 4 x 90° |
| GST 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 |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 |
| | | | | | | | | 200 | 130 | | 165 | | | 11 |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | | 14 |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 |
| | | | | | | | | 300 | 230 | 18 | 265 | | | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | | 18 |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 |
| | | | | | | | | 400 | 300 | 24 | 350 | | | |

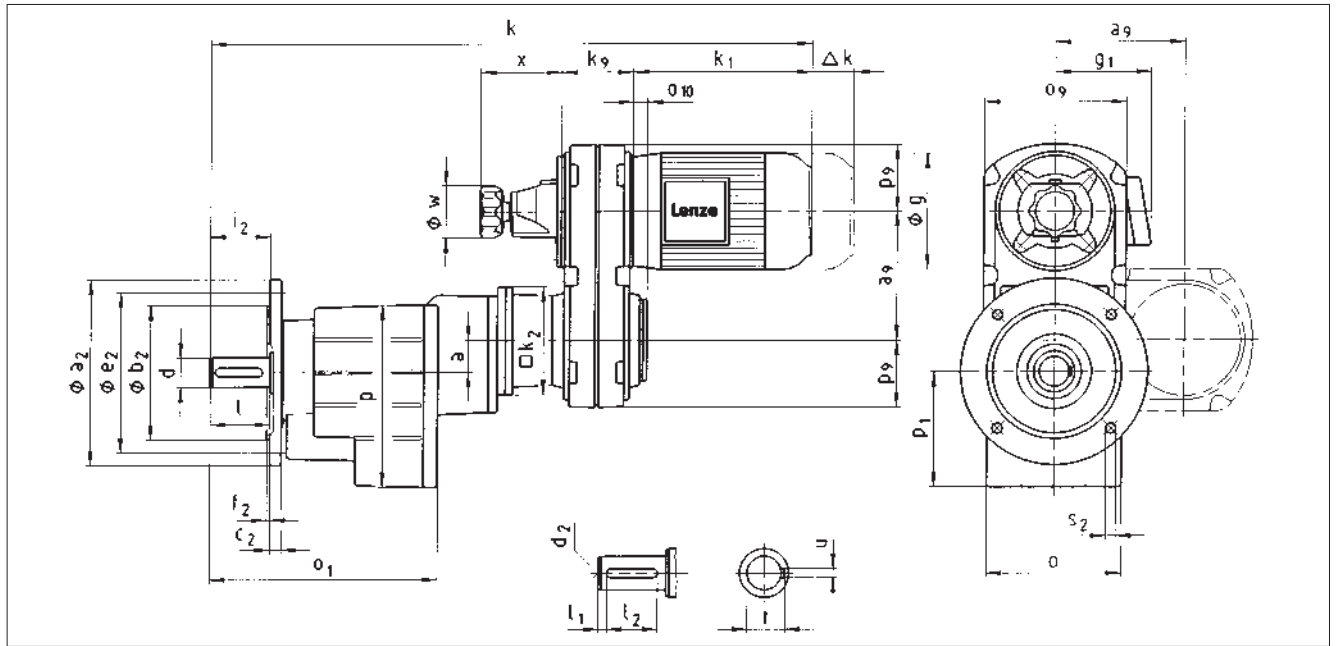
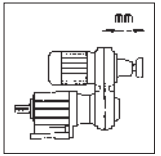
d ≤ 50 mm: k6
d ≥ 50 mm: m6

Dimensions in [mm]
Observe test dimension z! (see page 5-38)

Observe swivel positions for possible combinations!
(see page 5-16)

Compact units

Dimensions with helical gearboxes

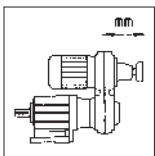


| Compact unit | | Drive size | | | | | | | | | | | | | |
|--------------------------|--------------------------------------|----------------------|----------|----------------------|----------|--------------|---------|-----|---------|------|------|----------|------|------|------|
| GST □ □ - 3 K VCK | | 071 | 080 | 090 | | | 100 | | 112 | | | | | | |
| Motor position 1 | | -12/-32 | -12/-32 | -12/-32 | | | -12/-32 | | -22/-32 | | | | | | |
| | | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | | | | |
| Motor | g | 143 | 160 | 180 | 180 | 180 | 180 | 198 | 198 | 222 | 222 | | | | |
| | g₁ Without options | 128 | 137 | 147 | 147 | 147 | 147 | 159 | 159 | 174 | 174 | | | | |
| | Brake motor | 131 | 142 | 154 | 154 | 154 | 154 | 161 | 161 | 174 | 174 | | | | |
| | k₁ | 237 | 267 | 350 | 350 | 350 | 350 | 352 | 352 | 379 | 379 | | | | |
| | Δk Brake | 54 | 36 | 48 | 48 | 48 | 48 | 75 | 75 | 80 | 80 | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 173 | 217 | 217 | 217 | 217 | 248 | 248 | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 110 | 110 | 110 | 110 | 130 | 130 | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 212 | 212 | 212 | 212 | 263 | 263 | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 106 | 106 | 106 | 106 | 132 | 132 | | | | |
| | w | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | 105 | | | | |
| | x | 100 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | 147 | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 180 | 145 | 180 | 180 | 222 | | | | |
| Gearbox size | o | Gearbox | | | | Total length | | | | | | k | | | |
| | | o₁ | p | p₁ | a | | | | | | | | | | |
| | GST 05 | 115 | 207.5 | 156 | 98 | 35 | 632 | 719 | | | | | | | |
| | GST 06 | 145 | 239.5 | 194 | 121 | 34 | 675 | 762 | 845 | | | | | | |
| | GST 07 | 180 | 302 | 245 | 155 | 42 | 749 | 829 | 912 | 930 | 945 | | 947 | | |
| | GST 09 | 222 | 369.5 | 304 | 194 | 52 | | 910 | 993 | 1011 | 1026 | | 1028 | 1105 | 1106 |
| | GST 11 | 270 | 432.5 | 378 | 243 | 66 | | | | | 1102 | | 1104 | | 1181 |
| GST 14 | 328 | 532.5 | 470 | 306 | 83 | | | | | | 1256 | | 1258 | 1305 | |

| Gearbox size | d | l | Solid shaft | | | | | Output flange | | | | | | |
|--------------|----|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|
| | | | 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° |
| GST 05 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 120 | 80 | 10 | 100 | 3 | 7 | |
| | | | | | | | | 140 | 95 | 10 | 115 | 3 | 9 | |
| | | | | | | | | 160 | 110 | 10 | 130 | 3.5 | 9 | |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | 11 | |
| GST 06 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 160 | 110 | 12 | 130 | 3.5 | 60 | 9 |
| | | | | | | | | 200 | 130 | 12 | 165 | 3.5 | 11 | |
| GST 07 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 200 | 130 | 14 | 165 | 3.5 | 80 | 11 |
| | | | | | | | | 250 | 180 | 15 | 215 | 4 | 14 | |
| GST 09 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 | 180 | 16 | 215 | 4 | 100 | 14 |
| | | | | | | | | 300 | 230 | 18 | 265 | 4 | 14 | |
| GST 11 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 300 | 230 | 18 | 265 | 4 | 120 | 14 |
| | | | | | | | | 350 | 250 | 20 | 300 | 5 | 18 | |
| GST 14 | 80 | 160 | 15 | 125 | M20 | 22 | 85 | 350 | 250 | 22 | 300 | 5 | 160 | 18 |
| | | | | | | | | 400 | 300 | 24 | 350 | 5 | 18 | |

d ≤ 50 mm: k6
d ≥ 50 mm: m6
Dimensions in [mm]

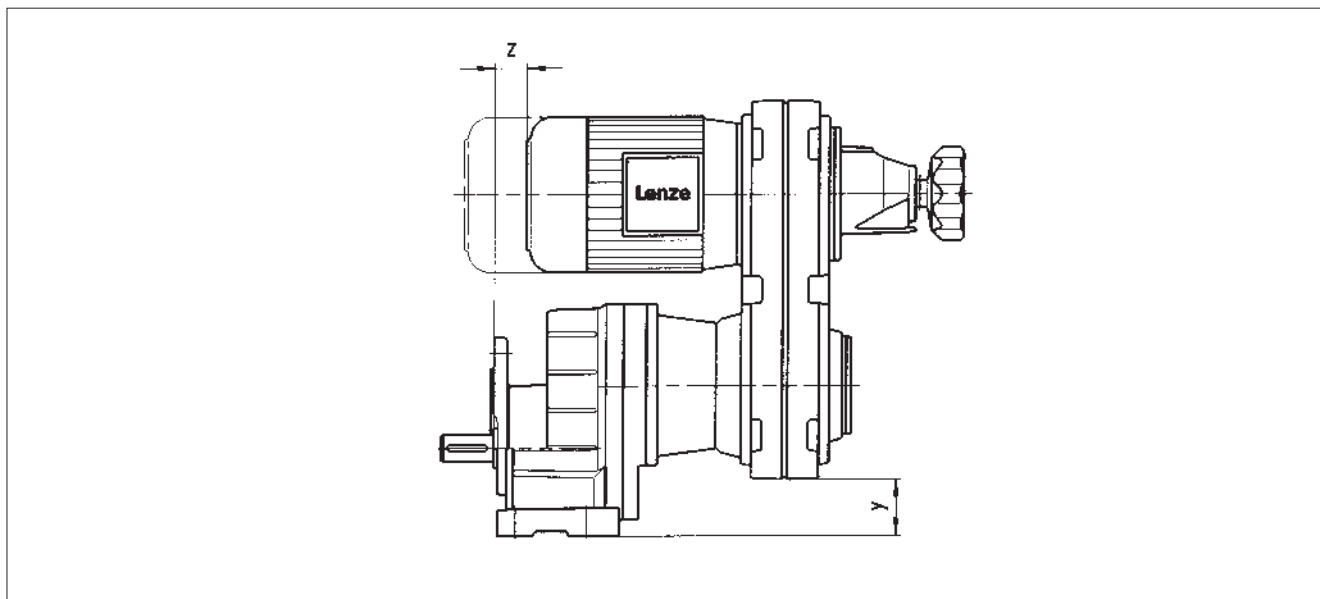
Observe swivel positions for possible combinations!
(see page 5-16)



Compact units

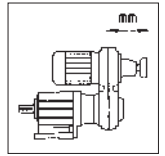
Dimensions with helical gearboxes

Test dimensions

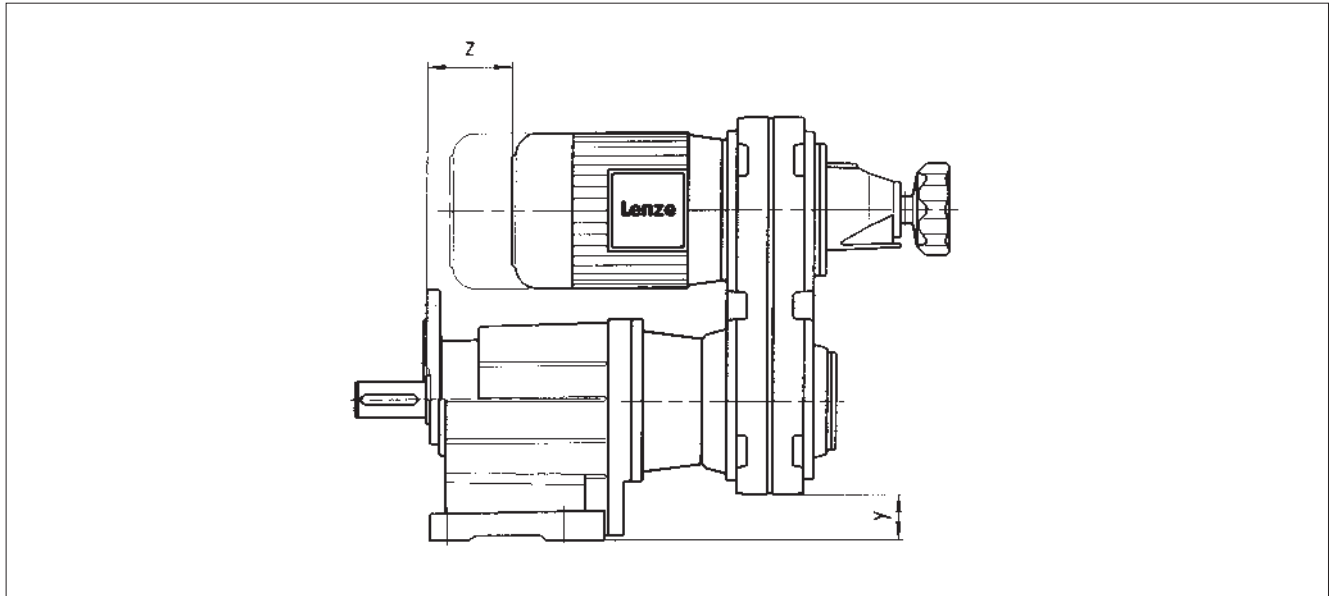


| Compact unit GST □ □ - 1 K | Drive size | | | | | | | | | | | | | | |
|--------------------------------------|----------------------------|-------------------------|------------------|------|------|-----|------------------|-----|------------------|------|------------------|------|------|------|------|
| | 071 -12 / -32 10B | 080 -12 / -32 13C | 090 -12 / -32 | | | | 100 -12 / -32 | | 112 -22 / -32 | | 132 -22 / -32 | | 160 | | 180 |
| | | | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25G | 25F | 31G | 31G |
| Gearbox size | Test dimension z | | | | | | | | | | | | | | |
| GST 04 | -88 | -84 | -167 | | | | | | | | | | | | |
| GST 05 | -68 | -71 | -154 | -136 | -137 | | -139 | | | | | | | | |
| GST 06 | | | | | -124 | -94 | -126 | -96 | -129 | | | | | | |
| GST 07 | | | | | -105 | | -107 | -77 | -110 | -109 | -178 | | -292 | | |
| GST 09 | | | | | | | | | -87 | | -155 | -175 | -269 | -290 | -321 |
| | Test dimension y | | | | | | | | | | | | | | |
| GST 04 | 19 | -4 | -4 | | | | | | | | | | | | |
| GST 05 | 41 | 18 | 18 | 18 | 2 | | 2 | | | | | | | | |
| GST 06 | | | | | 30 | 30 | 30 | 30 | 4 | | | | | | |
| GST 07 | | | | | 64 | | 64 | 64 | 38 | 38 | 10 | | 10 | | |
| GST 09 | | | | | | | | | 82 | | 54 | 54 | 54 | 17 | 17 |

Dimensions in [mm]

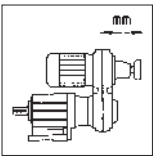


Test dimensions



| Compact unit GST □□ - 2 K | Drive size | | | | | | | | | | | | | | |
|-------------------------------------|-------------------------|-------------------------|---------------------------------|------|------|-------------------------|-------------------------|-------------------------|---------------------------|-------------------------------|------|-------------------|-------------------------|------|------|
| | 071 -12 / -32 10B | 080 -12 / -32 13C | 090 -12 / -32 13C 13D 16D | | | 100 -12 / -32 16D | 112 -22 / -32 20E | 132 -22 / -32 25F | 160 -22 -32 25F 31G | 180 -22 -32 31G 31H 40H | | 200 -32 40H | 225 -12 / -32 40H | | |
| Gearbox size | Test dimension z | | | | | | | | | | | | | | |
| GST 04 | -54 | -57 | -140 | | | | | | | | | | | | |
| GST 05 | -27 | -37 | -120 | -102 | -102 | -104 | | | | | | | | | |
| GST 06 | | | -104 | | -86 | -88 | -85 | | | | | | | | |
| GST 07 | | | | | -50 | -52 | -49 | -119 | -223 | | | | | | |
| GST 09 | | | | | | | -6 | -76 | -190 | -210 | -241 | | | | |
| GST 11 | | | | | | | | -39 | -153 | -173 | -204 | -194 | -187 | -253 | -285 |
| GST 14 | | | | | | | | | | -123 | -154 | | -137 | -203 | -235 |
| | Test dimension Y | | | | | | | | | | | | | | |
| GST 04 | 13 | -10 | -10 | | | | | | | | | | | | |
| GST 05 | 32 | 9 | 9 | 9 | -7 | -7 | | | | | | | | | |
| GST 06 | | | 33 | | 17 | 17 | -9 | | | | | | | | |
| GST 07 | | | | | 51 | 51 | 25 | -3 | -3 | | | | | | |
| GST 09 | | | | | | | 64 | 36 | 36 | -1 | -1 | | | | |
| GST 11 | | | | | | | | 86 | 86 | 49 | 49 | 49 | -18 | -18 | -18 |
| GST 14 | | | | | | | | | | 112 | 112 | | 45 | 45 | 45 |

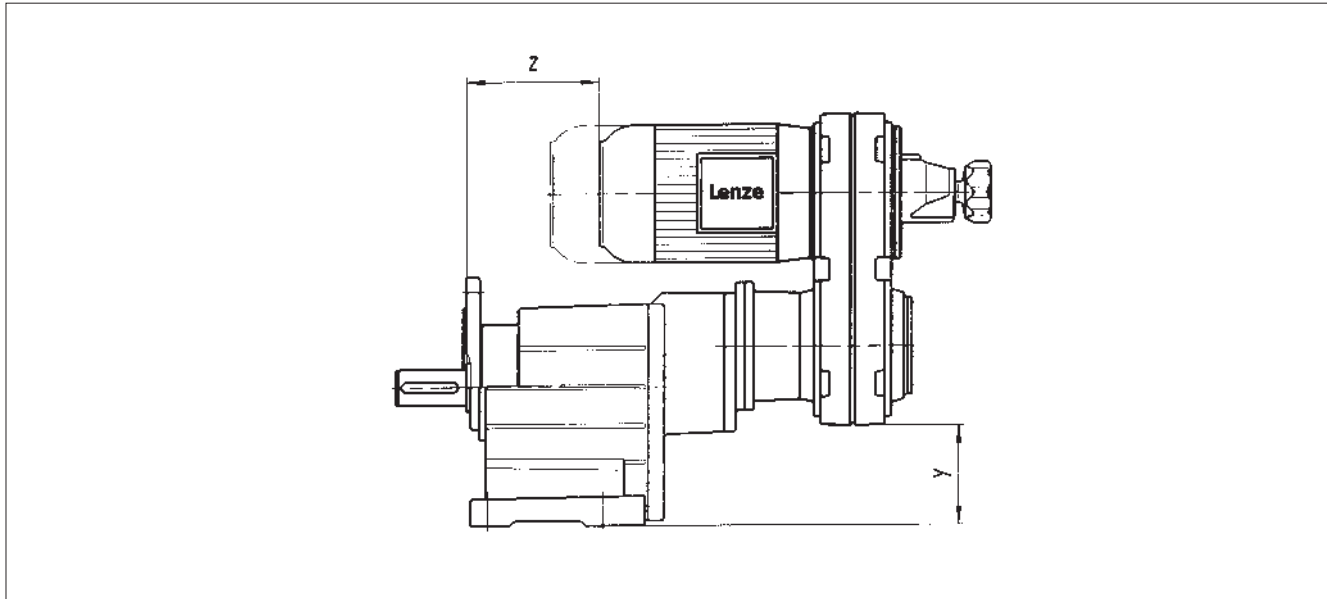
Dimensions in [mm]



Compact units

Dimensions with helical gearboxes

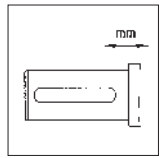
Test dimensions



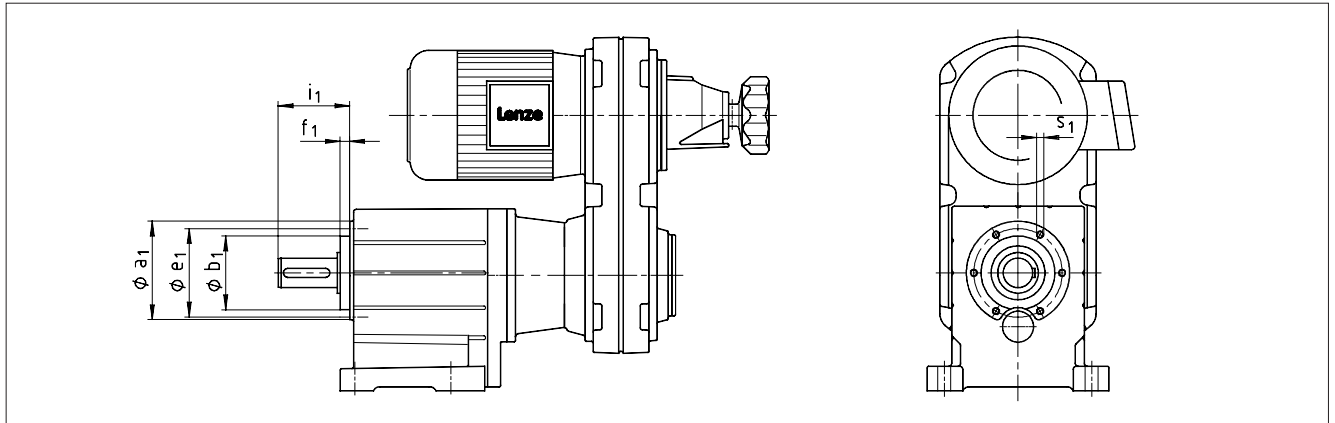
| Compact unit GST □ □ - 3 K □ □ □ | Drive size | | | | | | | | | | | | | | | |
|---|----------------------------|----------------|----------------|-----|-----|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
| | 071 -12/-32 | 080 -12/-32 | 090 -12/-32 | | | | 100 -12/-32 | | 112 -22/-32 | | 132 -22/-32 | | 160 -22/-32 | | 180 -22/-32 | |
| | 10B | 13C | 13C | 13D | 16D | 16E | 16D | 16E | 20E | 20F | 25F | 25F | 31G | 31G | 40H | 40H |
| Gearbox size | Test dimension z | | | | | | | | | | | | | | | |
| GST 05 | 43 | 40 | | | | | | | | | | | | | | |
| GST 06 | 76 | 73 | -10 | | | | | | | | | | | | | |
| GST 07 | 130 | 120 | 37 | 55 | 55 | | 53 | | | | | | | | | |
| GST 09 | | 181 | 98 | 116 | 116 | | 114 | | 117 | 118 | 47 | -67 | | | | |
| GST 11 | | | | 172 | 172 | | 170 | | 173 | | 103 | -11 | -31 | -62 | | |
| GST 14 | | | | | | 286 | | 284 | 257 | | 187 | 73 | 53 | 22 | 39 | -27 |
| | Test dimension y | | | | | | | | | | | | | | | |
| GST 05 | 69 | 46 | | | | | | | | | | | | | | |
| GST 06 | 92 | 69 | 69 | | | | | | | | | | | | | |
| GST 07 | 135 | 112 | 112 | 112 | 96 | | 96 | | | | | | | | | |
| GST 09 | | 162 | 162 | 162 | 146 | | 146 | | 120 | 120 | 92 | 92 | | | | |
| GST 11 | | | | 226 | 210 | | 210 | | 184 | | 156 | 156 | 119 | 119 | | |
| GST 14 | | | | | | 292 | | 292 | 266 | | 238 | 238 | 201 | 201 | 134 | 134 |

Dimensions in [mm]

5

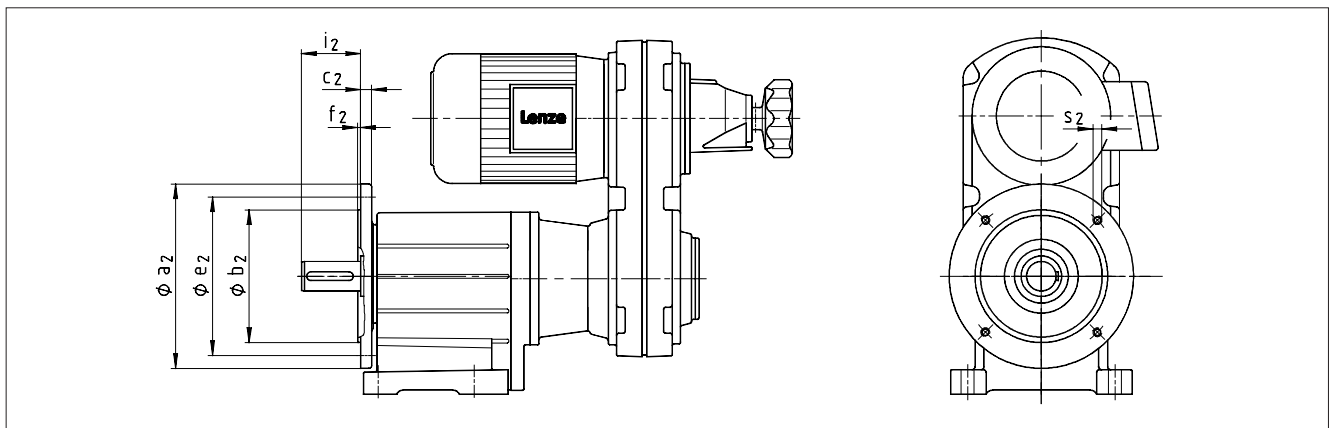


Output design VAR



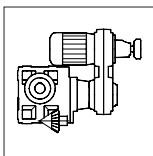
| Gearbox size | a ₁ | b ₁ h7 | e ₁ | f ₁ | i ₁ | s ₁ 6 x 60° |
|--------------|----------------|----------------------|----------------|----------------|----------------|---------------------------|
| GST 04 | 72 | 48 | 61 | 8 | 51 | M5x10 |
| GST 05 | 88 | 58 | 74 | 9 | 62 | M6x12 |
| GST 06 | 109 | 70 | 90 | 10 | 74 | M8x14 |
| GST 07 | 140 | 100 | 120 | 13 | 97 | M10x8 |
| GST 09 | 174 | 120 | 145 | 15 | 120 | M12x20 |
| GST 11 | 215 | 150 | 185 | 18 | 143 | M16x26 |
| GST 14 | 265 | 195 | 230 | 22 | 187 | M20x34 |

Output design VAL



| Gearbox size | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ 4 x 90° |
|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|---------------------------|
| GST 04 | 120 | 80 | 10 | 100 | 3 | 40 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| GST 05 | 120 | 80 | 10 | 100 | 3 | 50 | M6 |
| | 140 | 95 | | 115 | | | M8 |
| | 160 | 110 | | 130 | | | 3.5 |
| GST 06 | 160 | 110 | 12 | 130 | 3.5 | 60 | M8 |
| | 200 | 130 | | 165 | | | M10 |
| GST 07 | 200 | 130 | 14 | 165 | 3.5 | 80 | M10 |
| | 250 | 180 | 15 | 215 | 4 | | M12 |
| GST 09 | 250 | 180 | 16 | 215 | 4 | 100 | M12 |
| | 300 | 230 | 18 | 265 | | | |
| GST 11 | 300 | 230 | 18 | 265 | 4 | 120 | M12 |
| | 350 | 250 | 20 | 300 | | | |
| GST 14 | 350 | 250 | 22 | 300 | 5 | 160 | M16 |
| | 400 | 300 | 24 | 350 | | | |

Dimensions in [mm]



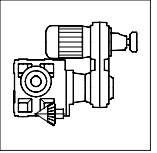
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.25 kW | | | | GKS □□ - 3K | 5-56 |
| | 658 - 119 | 2.6 - 15 | 5.123 | GKS04 - 3K □□□ 071-12 10B | |
| | 479 - 87 | 3.6 - 21 | 7.025 | GKS04 - 3K □□□ 071-12 10B | |
| | 412 - 75 | 4.2 - 25 | 8.167 | GKS04 - 3K □□□ 071-12 10B | |
| | 375 - 68 | 4.6 - 27 | 8.991 | GKS04 - 3K □□□ 071-12 10B | |
| | 342 - 62 | 5.0 - 30 | 9.836 | GKS04 - 3K □□□ 071-12 10B | |
| | 287 - 52 | 6.0 - 35 | 11.730 | GKS04 - 3K □□□ 071-12 10B | |
| | 258 - 47 | 6.7 - 39 | 13.067 | GKS04 - 3K □□□ 071-12 10B | |
| | 235 - 43 | 7.3 - 43 | 14.333 | GKS04 - 3K □□□ 071-12 10B | |
| | 209 - 38 | 8.2 - 48 | 16.087 | GKS04 - 3K □□□ 071-12 10B | |
| | 188 - 34 | 9.1 - 54 | 17.920 | GKS04 - 3K □□□ 071-12 10B | |
| | 164 - 30 | 11 - 62 | 20.588 | GKS04 - 3K □□□ 071-12 10B | |
| | 150 - 27 | 12 - 68 | 22.522 | GKS04 - 3K □□□ 071-12 10B | |
| | 134 - 24 | 13 - 75 | 25.088 | GKS04 - 3K □□□ 071-12 10B | |
| | 117 - 21 | 15 - 86 | 28.727 | GKS04 - 3K □□□ 071-12 10B | |
| | 105 - 19 | 16 - 96 | 32.000 | GKS04 - 3K □□□ 071-12 10B | |
| | 96 - 17 | 18 - 106 | 35.191 | GKS04 - 3K □□□ 071-12 10B | |
| | 86 - 16 | 20 - 118 | 39.200 | GKS04 - 3K □□□ 071-12 10B | |
| | 76 - 14 | 23 - 133 | 44.240 | GKS04 - 3K □□□ 071-12 10B | |
| | 66 - 12 | 26 - 153 | 50.943 | GKS04 - 3K □□□ 071-12 10B | |
| | 59 - 11 | 29 - 171 | 56.976 | GKS04 - 3K □□□ 071-12 10B | |
| | 52 - 9.4 | 33 - 183 | 64.978 | GKS04 - 3K □□□ 071-12 10B | |
| | 47 - 8.4 | 37 - 190 | 72.210 | GKS04 - 3K □□□ 071-12 10B | |
| | 42 - 7.7 | 41 - 183 | 79.598 | GKS04 - 3K □□□ 071-12 10B | |
| | 37 - 6.7 | 46 - 190 | 90.491 | GKS04 - 3K □□□ 071-12 10B | |
| | 34 - 6.1 | 51 - 185 | 100.067 | GKS04 - 3K □□□ 071-12 10B | |
| | 30 - 5.5 | 57 - 170 | 111.467 | GKS04 - 3K □□□ 071-12 10B | |
| | 26 - 4.7 | 66 - 187 | 128.874 | GKS04 - 3K □□□ 071-12 10B | |
| | 24 - 4.2 | 73 - 172 | 143.556 | GKS04 - 3K □□□ 071-12 10B | |
| | 21 - 3.7 | 83 - 190 | 163.332 | GKS04 - 3K □□□ 071-12 10B | |
| | 19 - 3.4 | 93 - 174 | 181.939 | GKS04 - 3K □□□ 071-12 10B | |
| | 17 - 3.0 | 104 - 190 | 204.682 | GKS04 - 3K □□□ 071-12 10B | |
| | 15 - 2.7 | 116 - 177 | 228.000 | GKS04 - 3K □□□ 071-12 10B | |
| | | | GKS □□ - 4K | 5-64 | |
| 35 - 6.4 | 48 - 169 | 95.238 | GKS05 - 4K □□□ 071-12 10B | | |
| 29 - 5.3 | 58 - 250 | 114.987 | GKS05 - 4K □□□ 071-12 10B | | |
| 27 - 4.8 | 64 - 284 | 126.933 | GKS05 - 4K □□□ 071-12 10B | | |
| 23 - 4.2 | 74 - 250 | 146.667 | GKS05 - 4K □□□ 071-12 10B | | |
| 21 - 3.8 | 81 - 284 | 161.905 | GKS05 - 4K □□□ 071-12 10B | | |

Thermal limit not considered (see note on page 3-12)

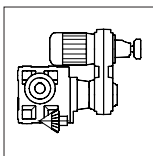
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.25 kW | | | | GKS □□ - 4K | 5-64 |
| | 18 - 3.3 | 93 - 325 | 185.547 | GKS05 - 4K □□□ 071-12 10B | |
| | 16 - 2.9 | 105 - 315 | 209.067 | GKS05 - 4K □□□ 071-12 10B | |
| | 15 - 2.7 | 113 - 250 | 225.867 | GKS05 - 4K □□□ 071-12 10B | |
| | 14 - 2.6 | 119 - 325 | 236.667 | GKS05 - 4K □□□ 071-12 10B | |
| | 12 - 2.1 | 145 - 325 | 289.917 | GKS05 - 4K □□□ 071-12 10B | |
| | 10 - 1.9 | 164 - 315 | 326.667 | GKS05 - 4K □□□ 071-12 10B | |
| | 9.2 - 1.7 | 183 - 325 | 364.467 | GKS05 - 4K □□□ 071-12 10B | |
| | 8.2 - 1.5 | 206 - 315 | 410.667 | GKS05 - 4K □□□ 071-12 10B | |
| 7.2 - 1.3 | 235 - 325 | 469.389 | GKS05 - 4K □□□ 071-12 10B | | |
| 0.37 kW | | | | GKS □□ - 3K | 5-56 |
| | 658 - 119 | 3.9 - 16 | 5.123 | GKS04 - 3K □□□ 071-32 10B | |
| | 641 - 121 | 4.0 - 22 | 5.123 | GKS04 - 3K □□□ 071-32 13C | |
| | 479 - 87 | 5.3 - 21 | 7.025 | GKS04 - 3K □□□ 071-32 10B | |
| | 468 - 88 | 5.5 - 31 | 7.025 | GKS04 - 3K □□□ 071-32 13C | |
| | 412 - 75 | 6.2 - 25 | 8.167 | GKS04 - 3K □□□ 071-32 10B | |
| | 402 - 76 | 6.3 - 36 | 8.167 | GKS04 - 3K □□□ 071-32 13C | |
| | 334 - 63 | 7.6 - 43 | 9.836 | GKS04 - 3K □□□ 071-32 13C | |
| | 342 - 62 | 7.4 - 30 | 9.836 | GKS04 - 3K □□□ 071-32 10B | |
| | 258 - 47 | 9.9 - 40 | 13.067 | GKS04 - 3K □□□ 071-32 10B | |
| | 251 - 47 | 10 - 57 | 13.067 | GKS04 - 3K □□□ 071-32 13C | |
| | 209 - 38 | 12 - 49 | 16.087 | GKS04 - 3K □□□ 071-32 10B | |
| | 204 - 39 | 13 - 70 | 16.087 | GKS04 - 3K □□□ 071-32 13C | |
| | 160 - 30 | 16 - 90 | 20.588 | GKS04 - 3K □□□ 071-32 13C | |
| | 164 - 30 | 16 - 62 | 20.588 | GKS04 - 3K □□□ 071-32 10B | |
| | 131 - 25 | 19 - 110 | 25.088 | GKS04 - 3K □□□ 071-32 13C | |
| | 134 - 24 | 19 - 76 | 25.088 | GKS04 - 3K □□□ 071-32 10B | |
| | 103 - 19 | 25 - 140 | 32.000 | GKS04 - 3K □□□ 071-32 13C | |
| | 105 - 19 | 24 - 97 | 32.000 | GKS04 - 3K □□□ 071-32 10B | |
| | 84 - 16 | 30 - 168 | 39.200 | GKS04 - 3K □□□ 071-32 13C | |
| | 86 - 16 | 30 - 119 | 39.200 | GKS04 - 3K □□□ 071-32 10B | |
| | 65 - 12 | 40 - 182 | 50.943 | GKS04 - 3K □□□ 071-32 13C | |
| | 66 - 12 | 39 - 154 | 50.943 | GKS04 - 3K □□□ 071-32 10B | |
| | 51 - 9.5 | 50 - 183 | 64.978 | GKS04 - 3K □□□ 071-32 13C | |
| | 52 - 9.4 | 49 - 183 | 64.978 | GKS04 - 3K □□□ 071-32 10B | |
| | 41 - 7.8 | 62 - 183 | 79.598 | GKS04 - 3K □□□ 071-32 13C | |
| | 42 - 7.7 | 60 - 183 | 79.598 | GKS04 - 3K □□□ 071-32 10B | |
| | 33 - 6.2 | 78 - 185 | 100.067 | GKS04 - 3K □□□ 071-32 13C | |
| | 34 - 6.1 | 76 - 185 | 100.067 | GKS04 - 3K □□□ 071-32 10B | |
| | 26 - 4.8 | 100 - 187 | 128.874 | GKS04 - 3K □□□ 071-32 13C | |
| | 26 - 4.7 | 97 - 187 | 128.874 | GKS04 - 3K □□□ 071-32 10B | |
| | 21 - 3.7 | 123 - 190 | 163.332 | GKS04 - 3K □□□ 071-32 10B | |
| | 20 - 3.9 | 125 - 635 | 161.029 | GKS06 - 3K □□□ 071-32 13C | |
| | 16 - 2.9 | 164 - 314 | 211.200 | GKS05 - 3K □□□ 071-32 13C | |
| | 13 - 2.4 | 199 - 313 | 256.320 | GKS05 - 3K □□□ 071-32 13C | |
| | 10.0 - 1.9 | 255 - 635 | 328.500 | GKS06 - 3K □□□ 071-32 13C | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



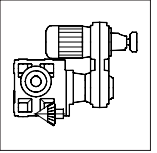
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.37 kW | 8.1 - 1.5 | 311 - 702 | 408.000 | GKS □□ - 4K GKS06 - 4K □□□ 071-32 13C | 5-64 |
| | 6.4 - 1.2 | 394 - 1320 | 516.810 | GKS07 - 4K □□□ 071-32 13C | |
| | 5.1 - 1.0 | 488 - 702 | 640.800 | GKS06 - 4K □□□ 071-32 13C | |
| | 4.0 - 0.8 | 628 - 1330 | 823.810 | GKS07 - 4K □□□ 071-32 13C | |
| | 3.3 - 0.6 | 762 - 1330 | 999.806 | GKS07 - 4K □□□ 071-32 13C | |
| | 2.9 - 0.6 | 859 - 1215 | 1126.542 | GKS07 - 4K □□□ 071-32 13C | |
| | 0.55 kW | | | GKS □□ - 3K | |
| 641 - 121 | 5.9 - 33 | 5.123 | GKS04 - 3K □□□ 080-12 13C | | |
| 468 - 88 | 8.1 - 46 | 7.025 | GKS04 - 3K □□□ 080-12 13C | | |
| 402 - 76 | 9.4 - 53 | 8.167 | GKS04 - 3K □□□ 080-12 13C | | |
| 334 - 63 | 11 - 64 | 9.836 | GKS04 - 3K □□□ 080-12 13C | | |
| 251 - 47 | 15 - 85 | 13.067 | GKS04 - 3K □□□ 080-12 13C | | |
| 204 - 39 | 19 - 104 | 16.087 | GKS04 - 3K □□□ 080-12 13C | | |
| 160 - 30 | 24 - 134 | 20.588 | GKS04 - 3K □□□ 080-12 13C | | |
| 131 - 25 | 29 - 163 | 25.088 | GKS04 - 3K □□□ 080-12 13C | | |
| 103 - 19 | 37 - 167 | 32.000 | GKS04 - 3K □□□ 080-12 13C | | |
| 84 - 16 | 45 - 168 | 39.200 | GKS04 - 3K □□□ 080-12 13C | | |
| 65 - 12 | 59 - 182 | 50.943 | GKS04 - 3K □□□ 080-12 13C | | |
| 51 - 9.5 | 75 - 183 | 64.978 | GKS04 - 3K □□□ 080-12 13C | | |
| 41 - 7.8 | 92 - 183 | 79.598 | GKS04 - 3K □□□ 080-12 13C | | |
| 33 - 6.2 | 115 - 185 | 100.067 | GKS04 - 3K □□□ 080-12 13C | | |
| 26 - 4.8 | 144 - 187 | 128.874 | GKS04 - 3K □□□ 080-12 13C | | |
| 20 - 3.9 | 186 - 635 | 161.029 | GKS06 - 3K □□□ 080-12 13C | | |
| 17 - 3.3 | 219 - 702 | 190.080 | GKS06 - 3K □□□ 080-12 13C | | |
| 14 - 2.7 | 266 - 702 | 230.688 | GKS06 - 3K □□□ 080-12 13C | | |
| 13 - 2.4 | 300 - 635 | 259.880 | GKS06 - 3K □□□ 080-12 13C | | |
| 10.0 - 1.9 | 379 - 635 | 328.500 | GKS06 - 3K □□□ 080-12 13C | | |
| | | | GKS □□ - 4K | 5-64 | |
| 20 - 3.8 | 183 - 284 | 161.905 | GKS05 - 4K □□□ 080-12 13C | | |
| 16 - 3.0 | 237 - 315 | 209.067 | GKS05 - 4K □□□ 080-12 13C | | |
| 13 - 2.5 | 286 - 702 | 252.000 | GKS06 - 4K □□□ 080-12 13C | | |
| 10 - 2.0 | 359 - 702 | 316.800 | GKS06 - 4K □□□ 080-12 13C | | |
| 8.1 - 1.5 | 462 - 702 | 408.000 | GKS06 - 4K □□□ 080-12 13C | | |
| 5.2 - 1.0 | 721 - 1330 | 636.581 | GKS07 - 4K □□□ 080-12 14D | | |
| 0.75 kW | | | GKS □□ - 3K | 5-56 | |
| 632 - 119 | 8.2 - 38 | 5.123 | GKS04 - 3K □□□ 080-32 13C | | |
| 461 - 87 | 11 - 51 | 7.025 | GKS04 - 3K □□□ 080-32 13C | | |
| 397 - 75 | 13 - 60 | 8.167 | GKS04 - 3K □□□ 080-32 13C | | |

Thermal limit not considered (see note on page 3-12)

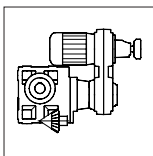
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.75 kW | | | | GKS □□ - 3K | 5-56 |
| | 329 - 62 | 16 - 72 | 9.836 | GKS04 - 3K □□□ 080-32 13C | |
| | 248 - 47 | 21 - 96 | 13.067 | GKS04 - 3K □□□ 080-32 13C | |
| | 201 - 38 | 26 - 118 | 16.087 | GKS04 - 3K □□□ 080-32 13C | |
| | 157 - 30 | 33 - 151 | 20.588 | GKS04 - 3K □□□ 080-32 13C | |
| | 129 - 24 | 40 - 167 | 25.088 | GKS04 - 3K □□□ 080-32 13C | |
| | 101 - 19 | 51 - 167 | 32.000 | GKS04 - 3K □□□ 080-32 13C | |
| | 83 - 16 | 63 - 168 | 39.200 | GKS04 - 3K □□□ 080-32 13C | |
| | 64 - 12 | 81 - 182 | 50.943 | GKS04 - 3K □□□ 080-32 13C | |
| | 50 - 9.4 | 104 - 183 | 64.978 | GKS04 - 3K □□□ 080-32 13C | |
| | 41 - 7.7 | 127 - 183 | 79.598 | GKS04 - 3K □□□ 080-32 13C | |
| | 30 - 5.7 | 171 - 331 | 107.196 | GKS05 - 3K □□□ 080-32 13C | |
| | 25 - 4.7 | 207 - 331 | 130.097 | GKS05 - 3K □□□ 080-32 13C | |
| | 20 - 3.8 | 257 - 635 | 161.029 | GKS06 - 3K □□□ 080-32 13C | |
| | 15 - 2.9 | 341 - 635 | 214.133 | GKS06 - 3K □□□ 080-32 13C | |
| | 13 - 2.4 | 414 - 635 | 259.880 | GKS06 - 3K □□□ 080-32 13C | |
| | 10 - 1.9 | 509 - 1215 | 319.091 | GKS07 - 3K □□□ 080-32 14D | |
| | | | | GKS □□ - 4K | 5-64 |
| | 31 - 5.9 | 163 - 685 | 103.721 | GKS06 - 4K □□□ 080-32 13C | |
| | 26 - 4.8 | 199 - 284 | 126.933 | GKS05 - 4K □□□ 080-32 13C | |
| 21 - 3.9 | 244 - 689 | 155.647 | GKS06 - 4K □□□ 080-32 13C | | |
| 16 - 3.0 | 318 - 695 | 202.588 | GKS06 - 4K □□□ 080-32 13C | | |
| 13 - 2.4 | 395 - 702 | 252.000 | GKS06 - 4K □□□ 080-32 13C | | |
| 10 - 1.9 | 497 - 702 | 316.800 | GKS06 - 4K □□□ 080-32 13C | | |
| 8.1 - 1.5 | 626 - 1320 | 399.353 | GKS07 - 4K □□□ 080-32 14D | | |
| 5.1 - 1.0 | 998 - 1330 | 636.581 | GKS07 - 4K □□□ 080-32 14D | | |
| 1.1 kW | | | | GKS □□ - 3K | 5-56 |
| | 482 - 91 | 16 - 50 | 6.863 | GKS05 - 3K □□□ 090-12 14D | |
| | 352 - 66 | 22 - 69 | 9.412 | GKS05 - 3K □□□ 090-12 14D | |
| | 313 - 59 | 24 - 77 | 10.569 | GKS05 - 3K □□□ 090-12 14D | |
| | 251 - 47 | 30 - 96 | 13.176 | GKS05 - 3K □□□ 090-12 14D | |
| | 207 - 39 | 37 - 117 | 16.000 | GKS05 - 3K □□□ 090-12 14D | |
| | 172 - 33 | 44 - 141 | 19.216 | GKS05 - 3K □□□ 090-12 14D | |
| | 126 - 24 | 60 - 193 | 26.353 | GKS05 - 3K □□□ 090-12 14D | |
| | 101 - 19 | 75 - 240 | 32.744 | GKS05 - 3K □□□ 090-12 14D | |
| | 79 - 15 | 96 - 306 | 41.765 | GKS05 - 3K □□□ 090-12 14D | |
| | 65 - 12 | 117 - 331 | 51.162 | GKS05 - 3K □□□ 090-12 14D | |
| | 50 - 9.4 | 152 - 331 | 66.592 | GKS05 - 3K □□□ 090-12 14D | |
| | 40 - 7.5 | 190 - 331 | 82.833 | GKS05 - 3K □□□ 090-12 14D | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



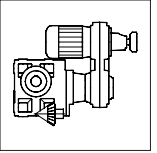
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|---------------------------|--------------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.1 kW | | | | GKS □□ - 3K | 5-56 |
| | 35 - 6.7 | 214 - 315 | 93.333 | GKS05 - 3K □□□ 090-12 14D | |
| | 34 - 5.5 | 240 - 635 | 104.967 | GKS06 - 3K □□□ 090-12 16D | |
| | 32 - 6.0 | 240 - 635 | 104.967 | GKS06 - 3K □□□ 090-12 14D | |
| | 28 - 4.6 | 291 - 635 | 127.392 | GKS06 - 3K □□□ 090-12 16D | |
| | 26 - 4.9 | 292 - 635 | 127.392 | GKS06 - 3K □□□ 090-12 14D | |
| | 21 - 3.9 | 362 - 1159 | 158.364 | GKS07 - 3K □□□ 090-12 14D | |
| | 17 - 2.7 | 477 - 635 | 214.133 | GKS06 - 3K □□□ 090-12 16D | |
| | 16 - 2.9 | 488 - 635 | 214.133 | GKS06 - 3K □□□ 090-12 14D | |
| | 15 - 2.5 | 527 - 702 | 230.688 | GKS06 - 3K □□□ 090-12 16D | |
| | 14 - 2.7 | 528 - 702 | 230.688 | GKS06 - 3K □□□ 090-12 14D | |
| | 13 - 2.5 | 578 - 1215 | 252.436 | GKS07 - 3K □□□ 090-12 14D | |
| | 10 - 2.0 | 730 - 1215 | 319.091 | GKS07 - 3K □□□ 090-12 14D | |
| | | | | GKS □□ - 4K | |
| | 14 - 2.4 | 555 - 1320 | 246.659 | GKS07 - 4K □□□ 090-12 16D | |
| | 13 - 2.1 | 614 - 1053 | 273.199 | GKS07 - 4K □□□ 090-12 16D | |
| | 11 - 1.8 | 722 - 1320 | 321.049 | GKS07 - 4K □□□ 090-12 16D | |
| | 8.9 - 1.5 | 898 - 1320 | 399.353 | GKS07 - 4K □□□ 090-12 16D | |
| | 8.3 - 1.6 | 898 - 1320 | 399.353 | GKS07 - 4K □□□ 090-12 14D | |
| | 6.8 - 1.1 | 1170 - 3031 | 520.538 | GKS09 - 4K □□□ 090-12 16D | |
| | 5.6 - 0.9 | 1420 - 3031 | 631.744 | GKS09 - 4K □□□ 090-12 16D | |
| | 4.3 - 0.7 | 1838 - 3031 | 817.551 | GKS09 - 4K □□□ 090-12 16D | |
| | 3.6 - 0.6 | 2231 - 3031 | 992.209 | GKS09 - 4K □□□ 090-12 16D | |
| | 1.5 kW | | | | GKS □□ - 3K |
| 486 - 92 | | 21 - 50 | 6.863 | GKS05 - 3K □□□ 090-32 14D | |
| 354 - 67 | | 29 - 69 | 9.412 | GKS05 - 3K □□□ 090-32 14D | |
| 315 - 60 | | 33 - 77 | 10.569 | GKS05 - 3K □□□ 090-32 14D | |
| 253 - 48 | | 41 - 96 | 13.176 | GKS05 - 3K □□□ 090-32 14D | |
| 208 - 39 | | 50 - 117 | 16.000 | GKS05 - 3K □□□ 090-32 14D | |
| 173 - 33 | | 60 - 141 | 19.216 | GKS05 - 3K □□□ 090-32 14D | |
| 126 - 24 | | 82 - 193 | 26.353 | GKS05 - 3K □□□ 090-32 14D | |
| 102 - 19 | | 102 - 240 | 32.744 | GKS05 - 3K □□□ 090-32 14D | |
| 80 - 15 | | 129 - 306 | 41.765 | GKS05 - 3K □□□ 090-32 14D | |
| 65 - 12 | | 159 - 331 | 51.162 | GKS05 - 3K □□□ 090-32 14D | |
| 50 - 9.4 | | 206 - 331 | 66.592 | GKS05 - 3K □□□ 090-32 14D | |
| 40 - 7.6 | | 254 - 331 | 82.833 | GKS05 - 3K □□□ 090-32 14D | |
| 38 - 6.3 | | 289 - 702 | 93.176 | GKS06 - 3K □□□ 090-32 16D | |
| 36 - 6.8 | | 289 - 682 | 93.176 | GKS06 - 3K □□□ 090-32 14D | |
| 34 - 5.6 | | 325 - 635 | 104.967 | GKS06 - 3K □□□ 090-32 16D | |
| 32 - 6.0 | | 325 - 635 | 104.967 | GKS06 - 3K □□□ 090-32 14D | |
| 28 - 4.6 | | 395 - 635 | 127.392 | GKS06 - 3K □□□ 090-32 16D | |
| 26 - 4.9 | | 395 - 635 | 127.392 | GKS06 - 3K □□□ 090-32 14D | |
| 21 - 4.0 | | 491 - 1159 | 158.364 | GKS07 - 3K □□□ 090-32 14D | |

Thermal limit not considered (see note on page 3-12)

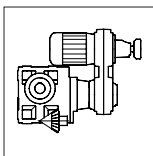
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|--------------------|---------------------------|---------------------------|--------------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 1.5 kW | | | | GKS □□ - 3K | 5-56 | |
| | 16 - 3.0 | 645 - 1215 | 208.000 | GKS07 - 3K □□□ 090-32 14D | | |
| | 13 - 2.5 | 782 - 1215 | 252.436 | GKS07 - 3K □□□ 090-32 14D | 5-64 | |
| | | | | GKS □□ - 4K | | |
| | 23 - 3.8 | 471 - 1300 | 154.622 | GKS07 - 4K □□□ 090-32 16D | | |
| | 18 - 2.9 | 613 - 1310 | 201.254 | GKS07 - 4K □□□ 090-32 16D | | |
| | 15 - 2.4 | 751 - 1320 | 246.659 | GKS07 - 4K □□□ 090-32 16D | | |
| | 11 - 1.8 | 977 - 1320 | 321.049 | GKS07 - 4K □□□ 090-32 16D | | |
| | 10 - 2.0 | 978 - 1320 | 321.049 | GKS07 - 4K □□□ 090-32 14D | | |
| | 8.9 - 1.5 | 1225 - 3031 | 402.234 | GKS09 - 4K □□□ 090-32 16D | | |
| | 6.9 - 1.1 | 1585 - 3031 | 520.538 | GKS09 - 4K □□□ 090-32 16D | | |
| | 5.6 - 0.9 | 1923 - 3031 | 631.744 | GKS09 - 4K □□□ 090-32 16D | | |
| | 5.0 - 0.8 | 2167 - 3080 | 711.965 | GKS09 - 4K □□□ 090-32 16D | | |
| | 2.2 kW | | | | | GKS □□ - 3K |
| 512 - 84 | | 32 - 118 | 6.863 | GKS05 - 3K □□□ 100-12 16D | | |
| 374 - 61 | | 43 - 162 | 9.412 | GKS05 - 3K □□□ 100-12 16D | | |
| 333 - 55 | | 49 - 182 | 10.569 | GKS05 - 3K □□□ 100-12 16D | | |
| 267 - 44 | | 61 - 165 | 13.176 | GKS05 - 3K □□□ 100-12 16D | | |
| 220 - 36 | | 74 - 275 | 16.000 | GKS05 - 3K □□□ 100-12 16D | | |
| 183 - 30 | | 89 - 297 | 19.216 | GKS05 - 3K □□□ 100-12 16D | | |
| 133 - 22 | | 121 - 298 | 26.353 | GKS05 - 3K □□□ 100-12 16D | | |
| 107 - 18 | | 151 - 331 | 32.744 | GKS05 - 3K □□□ 100-12 16D | | |
| 84 - 14 | | 192 - 331 | 41.765 | GKS05 - 3K □□□ 100-12 16D | | |
| 69 - 11 | | 236 - 331 | 51.162 | GKS05 - 3K □□□ 100-12 16D | | |
| 54 - 8.8 | | 300 - 624 | 65.207 | GKS06 - 3K □□□ 100-12 16D | | |
| 43 - 7.1 | | 374 - 630 | 81.111 | GKS06 - 3K □□□ 100-12 16D | | |
| 34 - 5.5 | | 478 - 635 | 104.967 | GKS06 - 3K □□□ 100-12 16D | | |
| 28 - 4.6 | | 583 - 1215 | 126.578 | GKS07 - 3K □□□ 100-12 16D | | |
| 29 - 4.4 | | 564 - 1215 | 126.578 | GKS07 - 3K □□□ 100-12 20E | | |
| 22 - 3.6 | | 730 - 1215 | 158.364 | GKS07 - 3K □□□ 100-12 16D | | |
| 23 - 3.5 | | 706 - 1215 | 158.364 | GKS07 - 3K □□□ 100-12 20E | | |
| 17 - 2.8 | | 915 - 1215 | 208.000 | GKS07 - 3K □□□ 100-12 16D | | |
| 17 - 2.7 | | 906 - 1215 | 208.000 | GKS07 - 3K □□□ 100-12 20E | | |
| 15 - 2.2 | | 1110 - 3080 | 248.930 | GKS09 - 3K □□□ 100-12 20E | | |
| 12 - 1.8 | | 1403 - 3080 | 314.659 | GKS09 - 3K □□□ 100-12 20E | | |
| | | | GKS □□ - 4K | 5-64 | | |
| 14 - 2.3 | | 1125 - 3031 | 248.439 | | GKS09 - 4K □□□ 100-12 16D | |
| 15 - 2.2 | | 1089 - 3031 | 248.439 | | GKS09 - 4K □□□ 100-12 20E | |
| 11 - 1.8 | | 1464 - 3031 | 323.365 | | GKS09 - 4K □□□ 100-12 16D | |
| 11 - 1.7 | | 1417 - 3031 | 323.365 | | GKS09 - 4K □□□ 100-12 20E | |
| 8.7 - 1.4 | | 1822 - 3031 | 402.234 | | GKS09 - 4K □□□ 100-12 16D | |
| 9.0 - 1.4 | | 1763 - 3031 | 402.234 | | GKS09 - 4K □□□ 100-12 20E | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



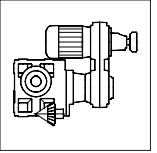
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 2.2kw | | | | GKS □□ - 4K | 5-64 |
| | 6.8 - 1.1 | 2282 - 3031 | 520.538 | GKS09 - 4K □□□ 100-12 16D | |
| | 7.0 - 1.1 | 2259 - 3031 | 520.538 | GKS09 - 4K □□□ 100-12 20E | |
| | 5.8 - 0.9 | 2725 - 5975 | 621.619 | GKS11 - 4K □□□ 100-12 20E | |
| | 4.4 - 0.7 | 3579 - 5975 | 816.455 | GKS11 - 4K □□□ 100-12 20E | |
| | 3.7 - 0.6 | 4343 - 5975 | 990.879 | GKS11 - 4K □□□ 100-12 20E | |
| 3 kW | | | | GKS □□ - 3K | 5-56 |
| | 512 - 84 | 43 - 118 | 6.863 | GKS05 - 3K □□□ 100-32 16D | |
| | 374 - 61 | 59 - 162 | 9.412 | GKS05 - 3K □□□ 100-32 16D | |
| | 333 - 55 | 66 - 182 | 10.569 | GKS05 - 3K □□□ 100-32 16D | |
| | 267 - 44 | 83 - 165 | 13.176 | GKS05 - 3K □□□ 100-32 16D | |
| | 220 - 36 | 101 - 275 | 16.000 | GKS05 - 3K □□□ 100-32 16D | |
| | 183 - 30 | 121 - 297 | 19.216 | GKS05 - 3K □□□ 100-32 16D | |
| | 133 - 22 | 166 - 298 | 26.353 | GKS05 - 3K □□□ 100-32 16D | |
| | 107 - 18 | 206 - 331 | 32.744 | GKS05 - 3K □□□ 100-32 16D | |
| | 95 - 16 | 227 - 302 | 36.894 | GKS05 - 3K □□□ 100-32 16D | |
| | 79 - 13 | 279 - 689 | 44.471 | GKS06 - 3K □□□ 100-32 16D | |
| | 66 - 11 | 333 - 695 | 53.074 | GKS06 - 3K □□□ 100-32 16D | |
| | 54 - 8.8 | 410 - 624 | 65.207 | GKS06 - 3K □□□ 100-32 16D | |
| | 44 - 7.3 | 499 - 1205 | 79.407 | GKS07 - 3K □□□ 100-32 16D | |
| | 46 - 7.0 | 483 - 1205 | 79.407 | GKS07 - 3K □□□ 100-32 20E | |
| | 34 - 5.5 | 655 - 1215 | 104.296 | GKS07 - 3K □□□ 100-32 16D | |
| | 35 - 5.3 | 634 - 1215 | 104.296 | GKS07 - 3K □□□ 100-32 20E | |
| | 28 - 4.6 | 795 - 1215 | 126.578 | GKS07 - 3K □□□ 100-32 16D | |
| | 29 - 4.4 | 770 - 1215 | 126.578 | GKS07 - 3K □□□ 100-32 20E | |
| | 25 - 4.1 | 883 - 1330 | 140.548 | GKS07 - 3K □□□ 100-32 16D | |
| | 26 - 4.0 | 855 - 1330 | 140.548 | GKS07 - 3K □□□ 100-32 20E | |
| | 23 - 3.5 | 966 - 2978 | 158.816 | GKS09 - 3K □□□ 100-32 20E | |
| | 18 - 2.7 | 1247 - 3080 | 205.111 | GKS09 - 3K □□□ 100-32 20E | |
| | 15 - 2.2 | 1514 - 3080 | 248.930 | GKS09 - 3K □□□ 100-32 20E | |
| | 13 - 2.0 | 1698 - 3031 | 279.205 | GKS09 - 3K □□□ 100-32 20E | |
| | 12 - 1.8 | 1913 - 3080 | 314.659 | GKS09 - 3K □□□ 100-32 20E | |
| | | | | GKS □□ - 4K | 5-64 |
| | 23 - 3.7 | 955 - 1300 | 154.622 | GKS07 - 4K □□□ 100-32 16D | |
| | 18 - 2.7 | 1223 - 3031 | 204.596 | GKS09 - 4K □□□ 100-32 20E | |
| | 15 - 2.2 | 1485 - 3031 | 248.439 | GKS09 - 4K □□□ 100-32 20E | |
| 11 - 1.7 | 1933 - 3031 | 323.365 | GKS09 - 4K □□□ 100-32 20E | | |
| 9.2 - 1.4 | 2366 - 5973 | 395.787 | GKS11 - 4K □□□ 100-32 20E | | |
| 7.1 - 1.1 | 3062 - 5975 | 512.195 | GKS11 - 4K □□□ 100-32 20E | | |
| 5.8 - 0.9 | 3716 - 5975 | 621.619 | GKS11 - 4K □□□ 100-32 20E | | |
| 5.2 - 0.8 | 4187 - 6072 | 700.416 | GKS11 - 4K □□□ 100-32 20E | | |

Thermal limit not considered (see note on page 3-12)

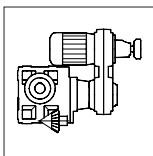
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 4 kW | | | | GKS □□ - 3K | 5-56 | |
| | 571 - 88 | 52 - 177 | 6.485 | GKS06 - 3K □□□ 112-22 21E | | |
| | 402 - 62 | 73 - 251 | 9.196 | GKS06 - 3K □□□ 112-22 21E | | |
| | 365 - 56 | 81 - 277 | 10.147 | GKS06 - 3K □□□ 112-22 21E | | |
| | 293 - 45 | 100 - 344 | 12.612 | GKS06 - 3K □□□ 112-22 21E | | |
| | 222 - 34 | 133 - 456 | 16.699 | GKS06 - 3K □□□ 112-22 21E | | |
| | 182 - 28 | 161 - 555 | 20.329 | GKS06 - 3K □□□ 112-22 21E | | |
| | 142 - 22 | 207 - 679 | 26.017 | GKS06 - 3K □□□ 112-22 21E | | |
| | 115 - 18 | 255 - 610 | 32.063 | GKS06 - 3K □□□ 112-22 21E | | |
| | 89 - 14 | 329 - 689 | 41.472 | GKS06 - 3K □□□ 112-22 21E | | |
| | 70 - 11 | 421 - 695 | 53.074 | GKS06 - 3K □□□ 112-22 21E | | |
| | 57 - 8.8 | 514 - 1195 | 64.790 | GKS07 - 3K □□□ 112-22 21E | | |
| | 47 - 7.2 | 630 - 1205 | 79.407 | GKS07 - 3K □□□ 112-22 21E | | |
| | 36 - 5.5 | 828 - 1215 | 104.296 | GKS07 - 3K □□□ 112-22 21E | | |
| | 27 - 4.5 | 1093 - 3080 | 125.641 | GKS09 - 3K □□□ 112-22 25F | | |
| | 30 - 4.5 | 997 - 2920 | 125.641 | GKS09 - 3K □□□ 112-22 21E | | |
| | 23 - 3.6 | 1261 - 2978 | 158.816 | GKS09 - 3K □□□ 112-22 21E | | |
| | 17 - 2.8 | 1784 - 3080 | 205.111 | GKS09 - 3K □□□ 112-22 25F | | |
| | 18 - 2.8 | 1628 - 3080 | 205.111 | GKS09 - 3K □□□ 112-22 21E | | |
| | 14 - 2.3 | 2165 - 3080 | 248.930 | GKS09 - 3K □□□ 112-22 25F | | |
| | 15 - 2.3 | 1976 - 3080 | 248.930 | GKS09 - 3K □□□ 112-22 21E | | |
| | 13 - 2.0 | 2216 - 3031 | 279.205 | GKS09 - 3K □□□ 112-22 21E | | |
| | 11 - 1.8 | 2804 - 5892 | 322.500 | GKS11 - 3K □□□ 112-22 25F | | |
| | | | | GKS □□ - 4K | | 5-64 |
| | 13 - 2.0 | 2185 - 3071 | 279.986 | GKS09 - 4K □□□ 112-22 21E | | |
| | 11 - 1.8 | 2760 - 5973 | 322.931 | GKS11 - 4K □□□ 112-22 25F | | |
| | 8.6 - 1.4 | 3383 - 5973 | 395.787 | GKS11 - 4K □□□ 112-22 25F | | |
| | 9.4 - 1.4 | 3088 - 5973 | 395.787 | GKS11 - 4K □□□ 112-22 21E | | |
| 6.6 - 1.1 | 4378 - 5975 | 512.195 | GKS11 - 4K □□□ 112-22 25F | | | |
| 7.2 - 1.1 | 3997 - 5975 | 512.195 | GKS11 - 4K □□□ 112-22 21E | | | |
| 5.5 - 0.9 | 5323 - 11488 | 622.742 | GKS14 - 4K □□□ 112-22 25F | | | |
| 4.2 - 0.7 | 6889 - 11488 | 805.901 | GKS14 - 4K □□□ 112-22 25F | | | |
| 3.5 - 0.6 | 8360 - 11488 | 978.071 | GKS14 - 4K □□□ 112-22 25F | | | |
| 5.5 kW | | | | GKS □□ - 3K | 5-56 | |
| | 575 - 88 | 70 - 177 | 6.485 | GKS06 - 3K □□□ 112-32 21E | | |
| | 405 - 62 | 100 - 251 | 9.196 | GKS06 - 3K □□□ 112-32 21E | | |
| | 367 - 57 | 110 - 277 | 10.147 | GKS06 - 3K □□□ 112-32 21E | | |
| | 296 - 45 | 137 - 344 | 12.612 | GKS06 - 3K □□□ 112-32 21E | | |
| | 223 - 34 | 181 - 456 | 16.699 | GKS06 - 3K □□□ 112-32 21E | | |
| | 183 - 28 | 220 - 555 | 20.329 | GKS06 - 3K □□□ 112-32 21E | | |
| | 143 - 22 | 282 - 679 | 26.017 | GKS06 - 3K □□□ 112-32 21E | | |
| | 116 - 18 | 348 - 610 | 32.063 | GKS06 - 3K □□□ 112-32 21E | | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



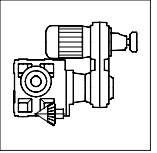
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 5.5 kW | | | | GKS □□ - 3K | 5-56 |
| | 90 - 14 | 450 - 689 | 41.472 | GKS06 - 3K □□□ 112-32 21E | |
| | 74 - 11 | 546 - 1300 | 50.345 | GKS07 - 3K □□□ 112-32 21E | |
| | 58 - 8.8 | 702 - 1195 | 64.790 | GKS07 - 3K □□□ 112-32 21E | |
| | 47 - 7.2 | 861 - 1205 | 79.407 | GKS07 - 3K □□□ 112-32 21E | |
| | 40 - 6.2 | 982 - 1330 | 92.563 | GKS07 - 3K □□□ 112-32 21E | |
| | 36 - 5.5 | 1122 - 2826 | 103.524 | GKS09 - 3K □□□ 112-32 21E | |
| | 33 - 5.5 | 1238 - 3080 | 103.524 | GKS09 - 3K □□□ 112-32 25F | |
| | 27 - 4.5 | 1503 - 3080 | 125.641 | GKS09 - 3K □□□ 112-32 25F | |
| | 30 - 4.6 | 1362 - 2920 | 125.641 | GKS09 - 3K □□□ 112-32 21E | |
| | 24 - 3.6 | 1721 - 2978 | 158.816 | GKS09 - 3K □□□ 112-32 21E | |
| | 19 - 3.1 | 2177 - 3031 | 182.000 | GKS09 - 3K □□□ 112-32 25F | |
| | 21 - 3.2 | 1973 - 3031 | 182.000 | GKS09 - 3K □□□ 112-32 21E | |
| | 17 - 2.8 | 2345 - 3080 | 205.111 | GKS09 - 3K □□□ 112-32 25F | |
| | 18 - 2.8 | 2223 - 3080 | 205.111 | GKS09 - 3K □□□ 112-32 21E | |
| | 13 - 2.2 | 3052 - 5892 | 255.133 | GKS11 - 3K □□□ 112-32 25F | |
| | 12 - 2.0 | 3424 - 5975 | 286.219 | GKS11 - 3K □□□ 112-32 25F | |
| | 11 - 1.8 | 3858 - 5892 | 322.500 | GKS11 - 3K □□□ 112-32 25F | |
| | | | | GKS □□ - 4K | 5-64 |
| | 14 - 2.3 | 2918 - 5973 | 248.106 | GKS11 - 4K □□□ 112-32 25F | |
| | 11 - 1.8 | 3797 - 5973 | 322.931 | GKS11 - 4K □□□ 112-32 25F | |
| | 8.6 - 1.4 | 4547 - 5973 | 395.787 | GKS11 - 4K □□□ 112-32 25F | |
| | 9.4 - 1.5 | 4217 - 5973 | 395.787 | GKS11 - 4K □□□ 112-32 21E | |
| | 6.6 - 1.1 | 6034 - 11488 | 513.121 | GKS14 - 4K □□□ 112-32 25F | |
| 5.5 - 0.9 | 7323 - 11488 | 622.742 | GKS14 - 4K □□□ 112-32 25F | | |
| 4.9 - 0.8 | 8251 - 11639 | 701.681 | GKS14 - 4K □□□ 112-32 25F | | |
| 7.5 kW | | | | GKS □□ - 3K | 5-56 |
| | 524 - 89 | 106 - 263 | 6.485 | GKS06 - 3K □□□ 132-22 26F | |
| | 412 - 70 | 135 - 460 | 8.254 | GKS07 - 3K □□□ 132-22 26F | |
| | 335 - 57 | 166 - 412 | 10.147 | GKS06 - 3K □□□ 132-22 26F | |
| | 270 - 46 | 206 - 426 | 12.612 | GKS06 - 3K □□□ 132-22 26F | |
| | 204 - 35 | 273 - 604 | 16.699 | GKS06 - 3K □□□ 132-22 26F | |
| | 167 - 28 | 332 - 665 | 20.329 | GKS06 - 3K □□□ 132-22 26F | |
| | 131 - 22 | 425 - 679 | 26.017 | GKS06 - 3K □□□ 132-22 26F | |
| | 107 - 18 | 520 - 1172 | 31.858 | GKS07 - 3K □□□ 132-22 26F | |
| | 83 - 14 | 668 - 1290 | 40.906 | GKS07 - 3K □□□ 132-22 26F | |
| | 68 - 12 | 822 - 1300 | 50.345 | GKS07 - 3K □□□ 132-22 26F | |
| | 52 - 8.8 | 1076 - 3048 | 65.879 | GKS09 - 3K □□□ 132-22 26F | |
| | 43 - 7.2 | 1306 - 3071 | 79.996 | GKS09 - 3K □□□ 132-22 26F | |
| | 33 - 5.6 | 1691 - 3080 | 103.524 | GKS09 - 3K □□□ 132-22 26F | |
| | 27 - 4.6 | 2052 - 3080 | 125.641 | GKS09 - 3K □□□ 132-22 26F | |
| | 21 - 3.6 | 2590 - 5401 | 158.571 | GKS11 - 3K □□□ 132-22 26F | |

Thermal limit not considered (see note on page 3-12)

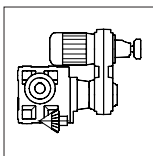
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 7.5 kW | | | | GKS □□ - 3K | 5-56 |
| | 18 - 3.1 | 3047 - 5975 | 186.572 | GKS11 - 3K □□□ 132-22 26F | |
| | 18 - 3.1 | 3047 - 5975 | 186.572 | GKS11 - 3K □□□ 132-22 31G | |
| | 16 - 2.8 | 3433 - 5892 | 210.222 | GKS11 - 3K □□□ 132-22 26F | |
| | 16 - 2.7 | 3433 - 5892 | 210.222 | GKS11 - 3K □□□ 132-22 31G | |
| | 13 - 2.3 | 4166 - 5892 | 255.133 | GKS11 - 3K □□□ 132-22 26F | |
| | 13 - 2.2 | 4166 - 5892 | 255.133 | GKS11 - 3K □□□ 132-22 31G | |
| | 12 - 2.0 | 4549 - 5975 | 286.219 | GKS11 - 3K □□□ 132-22 26F | |
| | 11 - 1.8 | 5267 - 11555 | 322.500 | GKS14 - 3K □□□ 132-22 31G | |
| | | | | GKS □□ - 4K | 5-64 |
| | 12 - 2.1 | 4488 - 6032 | 279.556 | GKS11 - 4K □□□ 132-22 26F | |
| | 11 - 1.8 | 5165 - 11454 | 321.729 | GKS14 - 4K □□□ 132-22 26F | |
| | 8.7 - 1.5 | 6271 - 11454 | 390.672 | GKS14 - 4K □□□ 132-22 26F | |
| | 6.6 - 1.1 | 8237 - 11488 | 513.121 | GKS14 - 4K □□□ 132-22 26F | |
| 5.9 - 1.0 | 8860 - 11639 | 578.164 | GKS14 - 4K □□□ 132-22 26F | | |
| 9.2 kW | | | | GKS □□ - 3K | 5-56 |
| | 524 - 89 | 130 - 263 | 6.485 | GKS06 - 3K □□□ 132-32 26F | |
| | 412 - 70 | 165 - 460 | 8.254 | GKS07 - 3K □□□ 132-32 26F | |
| | 335 - 57 | 203 - 412 | 10.147 | GKS06 - 3K □□□ 132-32 26F | |
| | 270 - 46 | 253 - 426 | 12.612 | GKS06 - 3K □□□ 132-32 26F | |
| | 204 - 34 | 334 - 604 | 16.699 | GKS06 - 3K □□□ 132-32 26F | |
| | 167 - 28 | 407 - 665 | 20.329 | GKS06 - 3K □□□ 132-32 26F | |
| | 131 - 22 | 517 - 679 | 26.017 | GKS06 - 3K □□□ 132-32 26F | |
| | 107 - 18 | 638 - 1172 | 31.858 | GKS07 - 3K □□□ 132-32 26F | |
| | 83 - 14 | 819 - 1290 | 40.906 | GKS07 - 3K □□□ 132-32 26F | |
| | 68 - 11 | 990 - 1300 | 50.345 | GKS07 - 3K □□□ 132-32 26F | |
| | 52 - 8.7 | 1319 - 3048 | 65.879 | GKS09 - 3K □□□ 132-32 26F | |
| | 43 - 7.2 | 1602 - 3071 | 79.996 | GKS09 - 3K □□□ 132-32 26F | |
| | 33 - 5.5 | 2073 - 3080 | 103.524 | GKS09 - 3K □□□ 132-32 26F | |
| | 27 - 4.6 | 2512 - 5328 | 125.448 | GKS11 - 3K □□□ 132-32 26F | |
| | 27 - 4.5 | 2512 - 6072 | 125.448 | GKS11 - 3K □□□ 132-32 31G | |
| | 21 - 3.6 | 3175 - 5401 | 158.571 | GKS11 - 3K □□□ 132-32 26F | |
| | 18 - 3.1 | 3735 - 5975 | 186.572 | GKS11 - 3K □□□ 132-32 26F | |
| | 18 - 3.0 | 3735 - 5975 | 186.572 | GKS11 - 3K □□□ 132-32 31G | |
| | 16 - 2.7 | 4209 - 5892 | 210.222 | GKS11 - 3K □□□ 132-32 26F | |
| | 16 - 2.7 | 4209 - 5892 | 210.222 | GKS11 - 3K □□□ 132-32 31G | |
| | 15 - 2.5 | 4533 - 5975 | 226.431 | GKS11 - 3K □□□ 132-32 26F | |
| | 15 - 2.5 | 4533 - 5975 | 226.431 | GKS11 - 3K □□□ 132-32 31G | |
| | 13 - 2.2 | 5108 - 11555 | 255.133 | GKS14 - 3K □□□ 132-32 31G | |
| 12 - 2.0 | 5730 - 11609 | 286.219 | GKS14 - 3K □□□ 132-32 31G | | |
| 11 - 1.8 | 6457 - 11555 | 322.500 | GKS14 - 3K □□□ 132-32 31G | | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



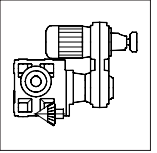
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 9.2 kw | 14 - 2.4 | 4674 -11454 | 237.467 | GKS □□ - 4K GKS14 - 4K □□□ 132-32 26F | 5-64 |
| | 11 - 1.8 | 6332 -11454 | 321.729 | GKS14 - 4K □□□ 132-32 26F | |
| | 8.7 - 1.5 | 7689 -11454 | 390.672 | GKS14 - 4K □□□ 132-32 26F | |
| | 7.7 - 1.3 | 8663 -11520 | 440.193 | GKS14 - 4K □□□ 132-32 26F | |
| 11 kw | 524 - 89 | 155 - 263 | 6.485 | GKS □□ - 3K GKS06 - 3K □□□ 160-22 26F | 5-56 |
| | 370 - 63 | 220 - 373 | 9.196 | GKS06 - 3K □□□ 160-22 26F | |
| | 335 - 57 | 243 - 412 | 10.147 | GKS06 - 3K □□□ 160-22 26F | |
| | 270 - 46 | 302 - 426 | 12.612 | GKS06 - 3K □□□ 160-22 26F | |
| | 204 - 35 | 400 - 604 | 16.699 | GKS06 - 3K □□□ 160-22 26F | |
| | 167 - 28 | 487 - 665 | 20.329 | GKS06 - 3K □□□ 160-22 26F | |
| | 135 - 23 | 605 - 1177 | 25.244 | GKS07 - 3K □□□ 160-22 26F | |
| | 107 - 18 | 763 - 1172 | 31.858 | GKS07 - 3K □□□ 160-22 26F | |
| | 83 - 14 | 980 - 1290 | 40.906 | GKS07 - 3K □□□ 160-22 26F | |
| | 70 - 12 | 1165 - 2708 | 48.625 | GKS09 - 3K □□□ 160-22 26F | |
| | 52 - 8.8 | 1578 - 3048 | 65.879 | GKS09 - 3K □□□ 160-22 26F | |
| | 43 - 7.2 | 1916 - 3071 | 79.996 | GKS09 - 3K □□□ 160-22 26F | |
| | 33 - 5.6 | 2476 - 5258 | 103.365 | GKS11 - 3K □□□ 160-22 26F | |
| | 27 - 4.6 | 3005 - 5328 | 125.448 | GKS11 - 3K □□□ 160-22 26F | |
| | 21 - 3.6 | 3798 - 5401 | 158.571 | GKS11 - 3K □□□ 160-22 26F | |
| | 18 - 3.1 | 4469 - 5975 | 186.572 | GKS11 - 3K □□□ 160-22 26F | |
| | 34 - 5.8 | 2306 - 3029 | 100.551 | GKS □□ - 4K GKS09 - 4K □□□ 160-22 26F | 5-64 |
| | 27 - 4.6 | 2945 - 5800 | 125.095 | GKS11 - 4K □□□ 160-22 26F | |
| | 22 - 3.8 | 3608 - 5800 | 153.242 | GKS11 - 4K □□□ 160-22 26F | |
| | 17 - 2.9 | 4546 - 5972 | 201.890 | GKS11 - 4K □□□ 160-22 26F | |
| 14 - 2.4 | 5591 -11454 | 237.467 | GKS14 - 4K □□□ 160-22 26F | | |
| 11 - 1.8 | 7575 -11454 | 321.729 | GKS14 - 4K □□□ 160-22 26F | | |
| 9.4 - 1.6 | 8535 -11520 | 362.512 | GKS14 - 4K □□□ 160-22 26F | | |
| 15 kw | 571 - 96 | 195 - 471 | 5.955 | GKS □□ - 3K GKS07 - 3K □□□ 160-32 31G | |
| 412 - 69 | 270 - 541 | 8.254 | GKS07 - 3K □□□ 160-32 31G | | |
| 336 - 56 | 331 - 800 | 10.124 | GKS07 - 3K □□□ 160-32 31G | | |
| 268 - 45 | 415 - 832 | 12.711 | GKS07 - 3K □□□ 160-32 31G | | |
| 204 - 34 | 545 - 1071 | 16.674 | GKS07 - 3K □□□ 160-32 31G | | |
| 166 - 28 | 670 - 1110 | 20.511 | GKS07 - 3K □□□ 160-32 31G | | |
| 135 - 23 | 825 - 1177 | 25.244 | GKS07 - 3K □□□ 160-32 31G | | |
| 103 - 17 | 1076 - 2984 | 32.940 | GKS09 - 3K □□□ 160-32 31G | | |

Thermal limit not considered (see note on page 3-12)

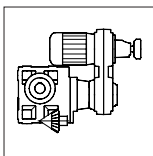
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 15 kW | | | | GKS □□ - 3K | 5-56 |
| | 86 - 14 | 1295 - 3002 | 39.662 | GKS09 - 3K □□□ 160-32 31G | |
| | 70 - 12 | 1588 - 3017 | 48.625 | GKS09 - 3K □□□ 160-32 31G | |
| | 52 - 8.7 | 2152 - 3048 | 65.879 | GKS09 - 3K □□□ 160-32 31G | |
| | 48 - 8.0 | 2307 - 3031 | 70.982 | GKS09 - 3K □□□ 160-32 31G | |
| | 43 - 7.1 | 2609 - 6032 | 79.873 | GKS11 - 3K □□□ 160-32 31G | |
| | 33 - 5.5 | 3376 - 6072 | 103.365 | GKS11 - 3K □□□ 160-32 31G | |
| | 27 - 4.5 | 4097 - 6072 | 125.448 | GKS11 - 3K □□□ 160-32 31G | |
| | 22 - 3.6 | 5112 -10812 | 156.522 | GKS14 - 3K □□□ 160-32 31G | |
| | 16 - 2.7 | 6866 -11555 | 210.222 | GKS14 - 3K □□□ 160-32 31G | |
| | 13 - 2.2 | 8333 -11555 | 255.133 | GKS14 - 3K □□□ 160-32 31G | |
| | | | | GKS □□ - 4K | |
| | 33 - 5.6 | 3279 - 5655 | 102.119 | GKS11 - 4K □□□ 160-32 31G | |
| | 27 - 4.6 | 4016 - 5800 | 125.095 | GKS11 - 4K □□□ 160-32 31G | |
| | 22 - 3.6 | 5074 -11522 | 158.039 | GKS14 - 4K □□□ 160-32 31G | |
| | 18 - 2.9 | 6221 -11522 | 193.754 | GKS14 - 4K □□□ 160-32 31G | |
| | 14 - 2.4 | 7624 -11454 | 237.467 | GKS14 - 4K □□□ 160-32 31G | |
| | 13 - 2.1 | 8590 -11520 | 267.568 | GKS14 - 4K □□□ 160-32 31G | |
| 18.5 kW | | | | GKS □□ - 3K | 5-56 |
| | 571 - 94 | 240 - 471 | 5.955 | GKS07 - 3K □□□ 180-22 31G | |
| | 412 - 68 | 332 - 541 | 8.254 | GKS07 - 3K □□□ 180-22 31G | |
| | 336 - 56 | 407 - 800 | 10.124 | GKS07 - 3K □□□ 180-22 31G | |
| | 268 - 44 | 512 - 832 | 12.711 | GKS07 - 3K □□□ 180-22 31G | |
| | 204 - 34 | 671 - 1071 | 16.674 | GKS07 - 3K □□□ 180-22 31G | |
| | 166 - 27 | 825 - 1110 | 20.511 | GKS07 - 3K □□□ 180-22 31G | |
| | 133 - 22 | 1032 - 2862 | 25.649 | GKS09 - 3K □□□ 180-22 31G | |
| | 103 - 17 | 1325 - 2984 | 32.940 | GKS09 - 3K □□□ 180-22 31G | |
| | 86 - 14 | 1596 - 3002 | 39.662 | GKS09 - 3K □□□ 180-22 31G | |
| | 70 - 12 | 1957 - 3017 | 48.625 | GKS09 - 3K □□□ 180-22 31G | |
| | 58 - 9.6 | 2307 - 3031 | 58.456 | GKS09 - 3K □□□ 180-22 31G | |
| | 52 - 8.7 | 2615 - 5992 | 64.995 | GKS11 - 3K □□□ 180-22 31G | |
| | 43 - 7.0 | 3214 - 6032 | 79.873 | GKS11 - 3K □□□ 180-22 31G | |
| | 33 - 5.4 | 4159 - 6072 | 103.365 | GKS11 - 3K □□□ 180-22 31G | |
| | 28 - 4.5 | 4983 -10622 | 123.826 | GKS14 - 3K □□□ 180-22 31G | |
| | 22 - 3.6 | 6298 -10812 | 156.522 | GKS14 - 3K □□□ 180-22 31G | |
| | 16 - 2.7 | 8459 -11555 | 210.222 | GKS14 - 3K □□□ 180-22 31G | |
| 15 - 2.5 | 8838 -11609 | 226.431 | GKS14 - 3K □□□ 180-22 31G | | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



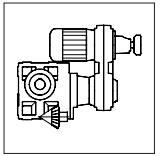
Compact units

Selection tables with helical-bevel gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|-------------|---|--------------|---|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 18.5 kW | 33 - 5.5 | 4039 - 5655 | 102.119 | GKS □□ - 4K GKS11 - 4K □□□ 180-22 31G | 5-64 | |
| | 29 - 4.7 | 4726 -10737 | 119.493 | GKS14 - 4K □□□ 180-22 31G | | |
| | 22 - 3.6 | 6251 -11522 | 158.039 | GKS14 - 4K □□□ 180-22 31G | | |
| | 18 - 2.9 | 7664 -11522 | 193.754 | GKS14 - 4K □□□ 180-22 31G | | |
| | 16 - 2.6 | 8635 -11477 | 218.315 | GKS14 - 4K □□□ 180-22 31G | | |
| 22 kW | 224 - 40 | 741 - 1615 | 12.283 | GKS □□ - 3K GKS09 - 3K □□□ 180-32 40H | 5-56 | |
| | 171 - 30 | 972 - 1801 | 16.122 | GKS09 - 3K □□□ 180-32 40H | | |
| | 141 - 25 | 1178 - 2570 | 19.541 | GKS09 - 3K □□□ 180-32 40H | | |
| | 107 - 19 | 1547 - 2862 | 25.649 | GKS09 - 3K □□□ 180-32 40H | | |
| | 84 - 15 | 1986 - 2984 | 32.940 | GKS09 - 3K □□□ 180-32 40H | | |
| | 69 - 12 | 2392 - 3002 | 39.662 | GKS09 - 3K □□□ 180-32 40H | | |
| | 56 - 9.9 | 2975 - 5923 | 49.333 | GKS11 - 3K □□□ 180-32 40H | | |
| | 42 - 7.5 | 3919 - 5992 | 64.995 | GKS11 - 3K □□□ 180-32 40H | | |
| | 34 - 6.1 | 4816 - 6032 | 79.873 | GKS11 - 3K □□□ 180-32 40H | | |
| | 27 - 4.8 | 6152 -11639 | 102.029 | GKS14 - 3K □□□ 180-32 40H | | |
| | 22 - 3.9 | 7467 -11639 | 123.826 | GKS14 - 3K □□□ 180-32 40H | | |
| | 20 - 3.6 | 7981 -11261 | 134.640 | GKS □□ - 4K GKS14 - 4K □□□ 180-32 40H | | 5-64 |
| | 17 - 3.1 | 9368 -11522 | 158.039 | GKS14 - 4K □□□ 180-32 40H | | |
| | 30 kW | 222 - 39 | 1017 - 1615 | 12.283 | | GKS □□ - 3K GKS09 - 3K □□□ 200-32 40H |
| 169 - 30 | | 1335 - 1801 | 16.122 | GKS09 - 3K □□□ 200-32 40H | | |
| 140 - 25 | | 1618 - 2570 | 19.541 | GKS09 - 3K □□□ 200-32 40H | | |
| 107 - 19 | | 2124 - 2862 | 25.649 | GKS09 - 3K □□□ 200-32 40H | | |
| 87 - 15 | | 2614 - 5521 | 31.573 | GKS11 - 3K □□□ 200-32 40H | | |
| 68 - 12 | | 3334 - 5869 | 40.272 | GKS11 - 3K □□□ 200-32 40H | | |
| 55 - 9.8 | | 4084 - 5923 | 49.333 | GKS11 - 3K □□□ 200-32 40H | | |
| 43 - 7.6 | | 5248 -11477 | 63.382 | GKS14 - 3K □□□ 200-32 40H | | |
| 35 - 6.2 | | 6431 -11520 | 77.681 | GKS14 - 3K □□□ 200-32 40H | | |
| 27 - 4.7 | | 8447 -11639 | 102.029 | GKS14 - 3K □□□ 200-32 40H | | |
| 25 - 4.4 | | 9099 -11790 | 109.896 | GKS14 - 3K □□□ 200-32 40H | | |
| 37 kW | 223 - 40 | 1250 - 1615 | 12.283 | GKS □□ - 3K GKS09 - 3K □□□ 225-12 40H | 5-56 | |
| | 173 - 31 | 1615 - 3090 | 15.874 | GKS11 - 3K □□□ 225-12 40H | | |
| | 140 - 25 | 1989 - 2570 | 19.541 | GKS09 - 3K □□□ 225-12 40H | | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



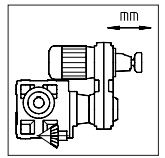
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|--------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 37 kW | | | | GKS □□ - 3K | 5-56 |
| | 107 - 19 | 2607 - 4985 | 25.615 | GKS11 - 3K □□□ 225-12 40H | |
| | 87 - 15 | 3213 - 5521 | 31.573 | GKS11 - 3K □□□ 225-12 40H | |
| | 68 - 12 | 4098 - 5869 | 40.272 | GKS11 - 3K □□□ 225-12 40H | |
| | 56 - 9.8 | 4845 - 5923 | 49.333 | GKS11 - 3K □□□ 225-12 40H | |
| | 43 - 7.7 | 6450 - 11477 | 63.382 | GKS14 - 3K □□□ 225-12 40H | |
| | 35 - 6.2 | 7905 - 11520 | 77.681 | GKS14 - 3K □□□ 225-12 40H | |
| | 30 - 5.4 | 9215 - 11488 | 90.551 | GKS14 - 3K □□□ 225-12 40H | |
| 45 kW | | | | GKS □□ - 3K | 5-56 |
| | 229 - 41 | 1482 - 2714 | 12.094 | GKS11 - 3K □□□ 225-22 40H | |
| | 174 - 31 | 1945 - 3090 | 15.874 | GKS11 - 3K □□□ 225-22 40H | |
| | 142 - 25 | 2391 - 4380 | 19.515 | GKS11 - 3K □□□ 225-22 40H | |
| | 108 - 19 | 3138 - 4985 | 25.615 | GKS11 - 3K □□□ 225-22 40H | |
| | 88 - 16 | 3868 - 5521 | 31.573 | GKS11 - 3K □□□ 225-22 40H | |
| | 69 - 12 | 4785 - 5869 | 40.272 | GKS11 - 3K □□□ 225-22 40H | |
| | 58 - 10 | 5871 - 10756 | 47.923 | GKS14 - 3K □□□ 225-22 40H | |
| | 44 - 7.7 | 7765 - 11477 | 63.382 | GKS14 - 3K □□□ 225-22 40H | |
| | 36 - 6.3 | 9392 - 11520 | 77.681 | GKS14 - 3K □□□ 225-22 40H | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!

Compact units

Combinations with helical-bevel gearboxes



GKS □□ - 3 K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | | | | | |
|--------------|----------------------------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|
| | GKS □□ - 3 K □□□ with drive size | | | | | | | | | | | | | | | | | | | |
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | |
| | -12 /-32 | -32 | -12 /-32 | -12 /-32 | -12 /-32 | -12 /-32 | -12 /-32 | -22 /-32 | -22 /-32 | -22 /-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -32 | -12 /-22 | -12 /-22 |
| 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 31G | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H | |
| GKS 04 | ↔ | ● | ● | | | | | | | | | | | | | | | | | |
| GKS 05 | | ● | ↔ | ● | ● | | ● | | | | | | | | | | | | | |
| GKS 06 | | ↔ | ↔ | | ↔ | ● | ● | | ● | | ● | | ● | | | | | | | |
| GKS 07 | | | | ↔ | ↔ | | ↔ | ● | ● | | ● | | ● | ● | ● | | | | | |
| GKS 09 | | | | | | | ↔ | ↔ | ● | ● | | ↔ | ● | ● | ● | ● | ● | ● | ● | ● |
| GKS 11 | | | | | | | | | ↔ | ↔ | ● | ↔ | ↔ | ↔ | ● | ● | ● | ● | ● | ● |
| GKS 14 | | | | | | | | | | | ↔ | | ↔ | ↔ | ● | ● | ● | ● | ↔ | ↔ |

GKS □□ - 4 K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | | | | | |
|--------------|----------------------------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|-----|-----|-----|-----|-----|-----|----------|----------|
| | GKS □□ - 4 K □□□ with drive size | | | | | | | | | | | | | | | | | | | |
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | |
| | -12 /-32 | -32 | -12 /-32 | -12 /-32 | -12 /-32 | -12 /-32 | -12 /-32 | -22 /-32 | -22 /-32 | -22 /-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -32 | -12 /-22 | -12 /-22 |
| 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 26F | 31G | 31G | 40H | 40H | 40H | 40H | |
| GKS 05 | ● | | ● | | | | | | | | | | | | | | | | | |
| GKS 06 | | ● | ● | | | | | | | | | | | | | | | | | |
| GKS 07 | | ↔ | | ● | ↔ | ● | ● | | | | | | | | | | | | | |
| GKS 09 | | | | | | ↔ | ↔ | ● | ● | | ● | | ● | | | | | | | |
| GKS 11 | | | | | | | ↔ | ↔ | ● | ● | | ● | ● | ● | ● | | | | | |
| GKS 14 | | | | | | | | | ↔ | ● | | ↔ | ● | ● | ● | ● | ● | ● | ● | ● |

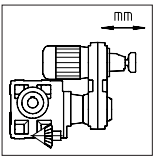
Motor position 1 (z-type):

■ All combinations in swivel positions 2, 3 or 5 possible

Motor position 6 (u-type):

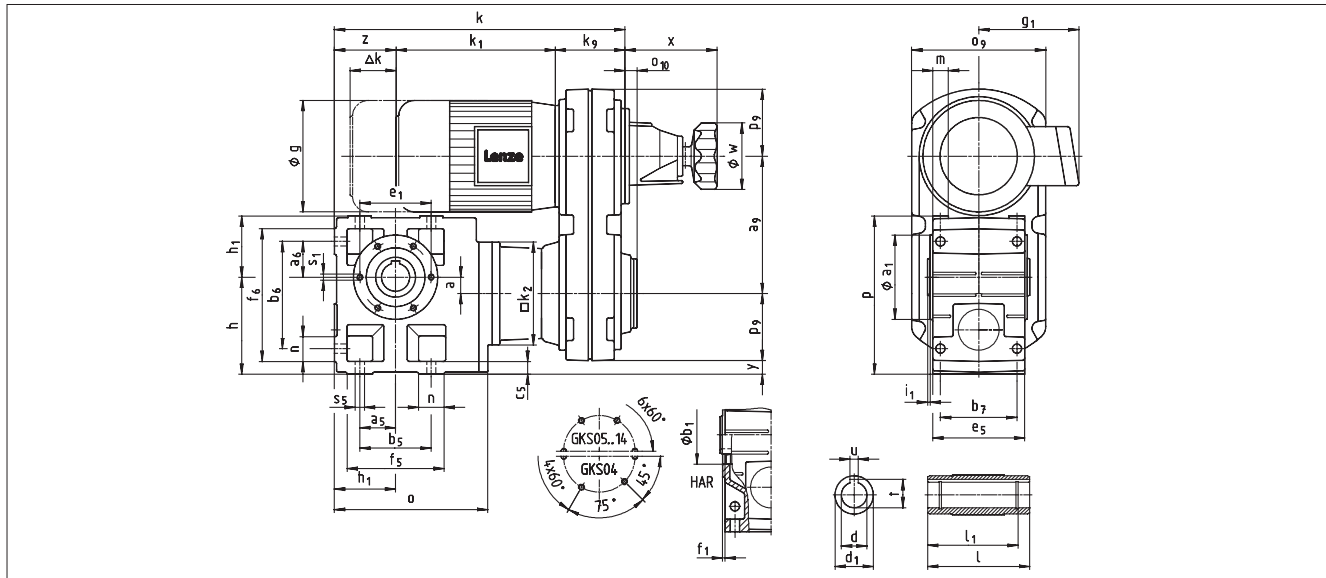
↔ Only swivel positions 3 or 5 possible

● Swivel positions 2, 3 or 5 possible



Compact units

Dimensions with helical-bevel gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--------------------------------------|------------|-----------|----------|----------------------|----------|--------------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|-----|-----|
| GKS □□ - 3 K H □ R | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -12/-22 | -12/-22 | -12/-22 | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 31G | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 274 | 323 | 323 | 360 | 360 | 388 | 433 | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 196 | 253 | 253 | 275 | 275 | 300 | 319 | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 212 | 253 | 253 | 275 | 275 | 309 | 327 | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 450 | 564 | 564 | 595 | 595 | 661 | 693 | | | | |
| Variable speed drive | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 63 | 120 | 120 | 122 | 122 | 167 | 148 | | | | |
| | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 392 | 347 | 392 | 392 | 500 | 500 | 500 | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 196 | 160 | 196 | 196 | 160 | 160 | 160 | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 394 | 320 | 394 | 394 | 528 | 528 | 528 | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 197 | 160 | 197 | 197 | 264 | 264 | 264 | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | | | | |
| Housing | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | | | | | |
| | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | | | | | | | | |
| | o | l* | p* | h | h₁ | a | k | | | | | | | | | | | | | | | | |
| | GKS 04 | 203 | 115 | 171 | 100 | 71 | 20 | 317 | 374 | 374 | | | | | | | | | | | | | |
| | GKS 05 | 232 | 140 | 205 | 125 | 80 | 23 | | 394 | 394 | 412 | 412 | | 427 | | | | | | | | | |
| | GKS 06 | 291 | 160 | 250 | 150 | 100 | 28 | | 450 | 450 | | 468 | 483 | 483 | | 533 | | 566 | 566 | | | | |
| | GKS 07 | 354 | 200 | 310 | 190 | 120 | 34 | | | | 524 | 524 | | 539 | 589 | 589 | | 622 | | 622 | 636 | 636 | |
| | GKS 09 | 429 | 240 | 386 | 236 | 150 | 41 | | | | | | | 660 | 660 | 691 | 693 | | 693 | 707 | 707 | 688 | 688 |
| | GKS 11 | 527 | 290 | 485 | 300 | 185 | 54 | | | | | | | | | 782 | 784 | 798 | 784 | 798 | 798 | 779 | 779 |
| GKS 14 | 636 | 350 | 605 | 375 | 230 | 67 | | | | | | | | | | | 897 | | 897 | 897 | 878 | 878 | |

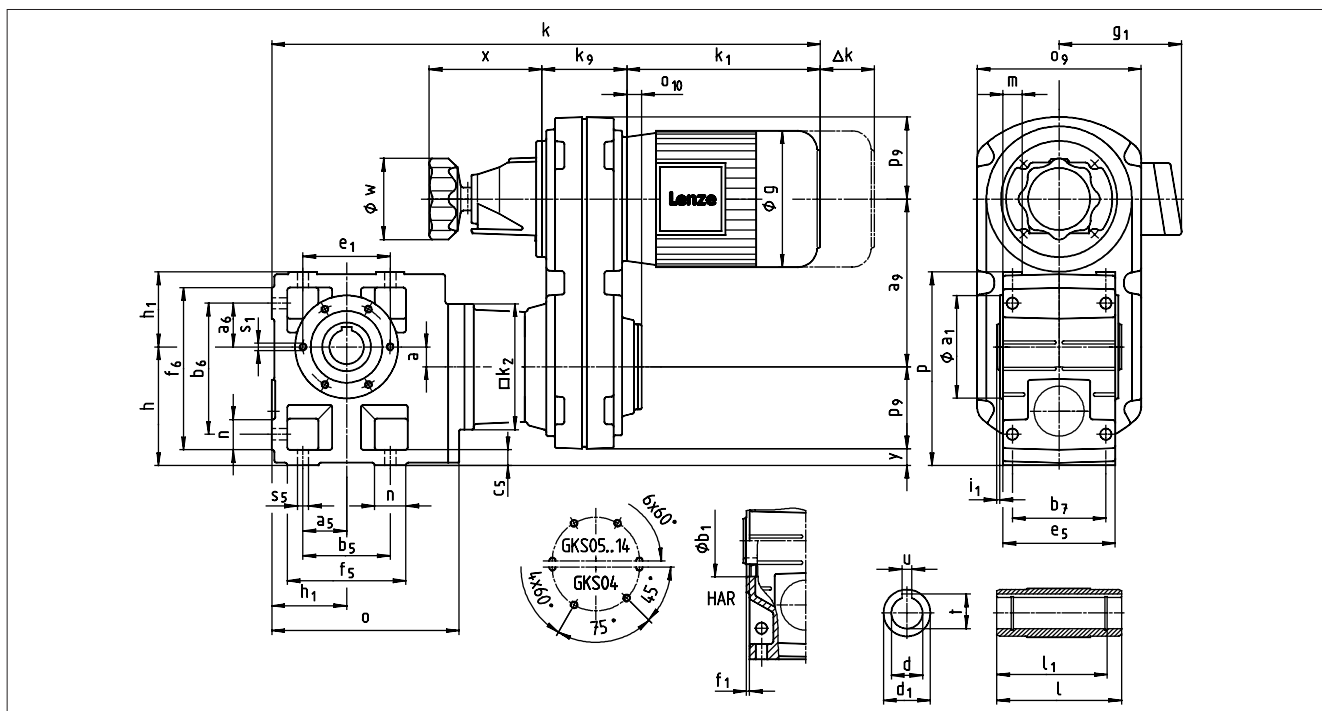
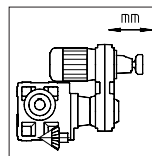
| Gearbox size | Hollow shaft | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | 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 | m | s ₅ |
| GKS 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 | 21 | 9 |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 52 | 33 |

Dimensions in [mm] * Observe dimension k₂ ** With swivel position 2 only terminal box position 2 possible, fan cover opposite terminal box flat
With customer motors: Observe distance between motor and gearbox!

Observe test dimensions z and y! (see page 5-72) Only swivel positions 3 and 5 possible

Compact units

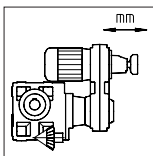
Dimensions with helical-bevel gearboxes



| Compact unit GKS □□ - 3 K H □ R Motor position 1 | | Drive size | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------------|------------|-----------|----------|----------------------|--------------|-----|---------|-----|-----|-----|-----|-----|-----|------|--|--|--|-----|--|--|------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | 14D | -12/-32 | 16D | -12/-32 | 20E | 21E | 25F | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | | | | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | Total length | | | | | | | | | | | | | | | | |
| | o | l* | p* | h | h₁ | k | | | | | | | | | | | | | | | | |
| GKS 04 | 203 | 115 | 171 | 100 | 71 | 20 | 554 | 611 | 641 | | | | | | | | | | | | | |
| GKS 05 | 232 | 140 | 205 | 125 | 80 | 23 | | 631 | 661 | 679 | 762 | | 743 | | | | | | | | | |
| GKS 06 | 291 | 160 | 250 | 150 | 100 | 28 | | 687 | 717 | | 818 | 833 | 799 | | | | | | 912 | | | |
| GKS 07 | 354 | 200 | 310 | 190 | 120 | 34 | | | | 791 | 874 | | 855 | 905 | 968 | | | | | | | |
| GKS 09 | 429 | 240 | 386 | 236 | 150 | 41 | | | | | | | | 976 | 1039 | | | | | | | 1070 |
| GKS 11 | 527 | 290 | 485 | 300 | 185 | 54 | | | | | | | | | | | | | | | | 1161 |

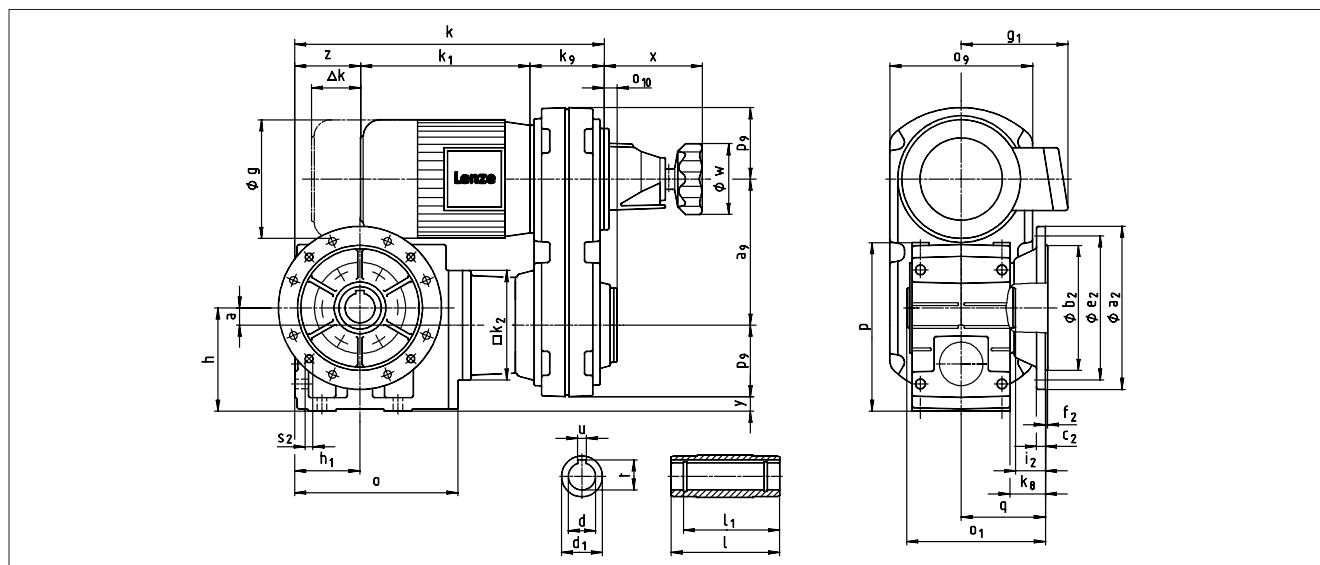
| Gearbox size | Hollow shaft | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|------------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|----------------|----|
| | d H7 | l | d ₁ | l ₁ | u JS9 +0.2 | a ₁ | b ₁ H7 | e ₁ | f ₁ | i ₁ | s ₁ | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | m | s ₅ | |
| GKS 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 | 21 | 9 |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-72)



Compact units

Dimensions with helical-bevel gearboxes

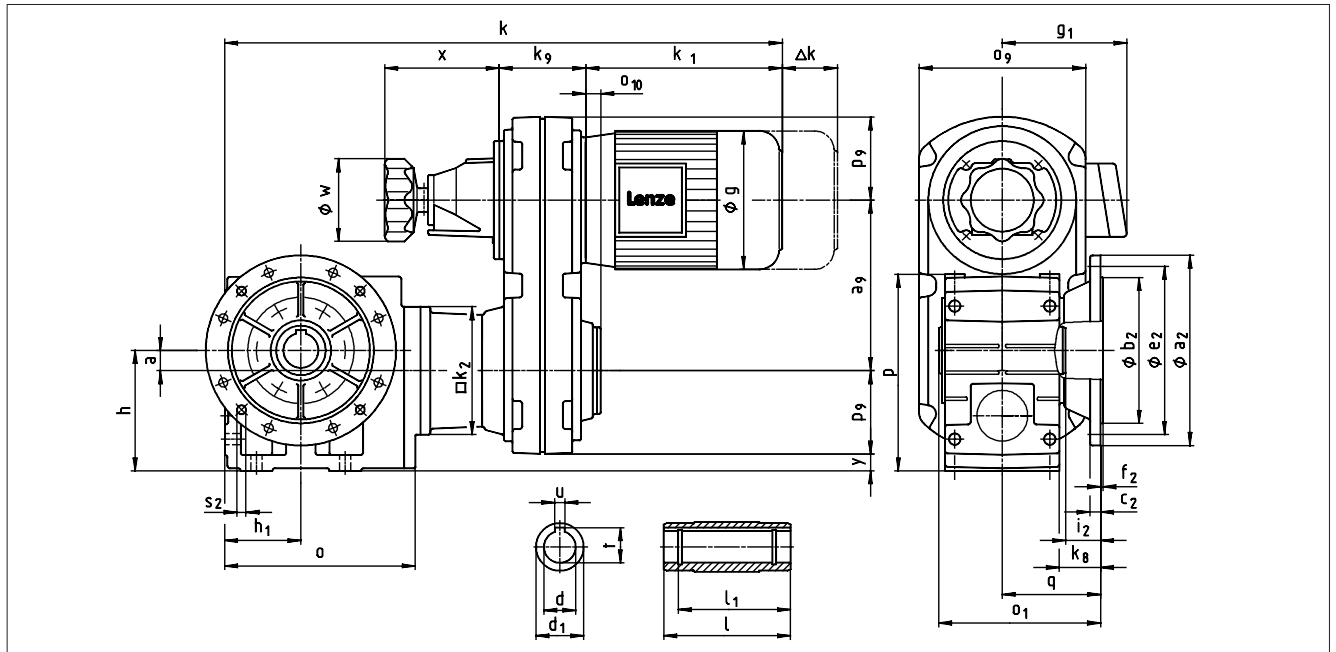
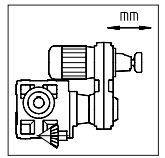


| Compact unit GKS □□ - 3 K HAK Motor position 6 | | Drive size | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|---------|---------|-----|-----|-----|-----|-----|-----|-----|---------|---------|-----|-----|-----|-----|-----|-----|-----|
| | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -32 | -32 | -32 | -12/-22 | -12/-22 | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 31G | 26F | 31G | 31G | 40H | 40H | 40H | 40H | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 274 | 323 | 323 | 360 | 360 | 388 | 433 | 433 | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 196 | 253 | 253 | 275 | 275 | 300 | 319 | 319 | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 212 | 253 | 253 | 275 | 275 | 309 | 327 | 327 | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 450 | 564 | 564 | 595 | 595 | 661 | 693 | 693 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 63 | 120 | 120 | 122 | 122 | 167 | 148 | 148 | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 392 | 347 | 392 | 392 | 500 | 500 | 500 | 500 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 196 | 160 | 196 | 196 | 160 | 160 | 160 | 160 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 394 | 320 | 394 | 394 | 528 | 528 | 528 | 528 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 197 | 160 | 197 | 197 | 264 | 264 | 264 | 264 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | 200 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | 320 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | 142 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | 300 | 300 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | | | | | | | | | | | | |
| | GKS 04 | 203 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 317 | 374 | 374 | | | | | | | | | | | | | | | |
| | GKS 05 | 232 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | | 394 | 394 | 412 | 412 | | 427 | | | | | | | | | | | |
| | GKS 06 | 291 | 201 | 250 | 150 | 100 | 28 | 49 | 121 | | 450 | 450 | | 468 | 483 | 483 | | 533 | | 566 | | 566 | | | | | |
| | GKS 07 | 354 | 255 | 310 | 190 | 120 | 34 | 65 | 155 | | | | 524 | 524 | | 539 | 589 | 589 | | 622 | | 622 | 636 | 636 | | | |
| | GKS 09 | 429 | 300 | 386 | 236 | 150 | 41 | 69 | 180 | | | | | | | 539 | 660 | 660 | 691 | 693 | | 693 | 707 | 707 | 688 | 688 | 688 |
| | GKS 11 | 527 | 350 | 485 | 300 | 185 | 54 | 70 | 205 | | | | | | | | | | 782 | 784 | 798 | 784 | 798 | 798 | 779 | 779 | 779 |
| GKS 14 | 636 | 410 | 605 | 375 | 230 | 67 | 71 | 235 | | | | | | | | | | | | 897 | | 897 | 897 | 878 | 878 | 878 | |

| 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 |
| GKS 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| GKS 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 |
| GKS 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 |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 |
| GKS 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 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 |

Dimensions in [mm] * Observe dimension k₂ ** With swivel position 2 only terminal box position 2 possible, fan cover opposite terminal box flat
With customer motors: Observe distance between motor and gearbox!

Observe test dimensions z and y! (see page 5-72) Only swivel positions 3 and 5 possible



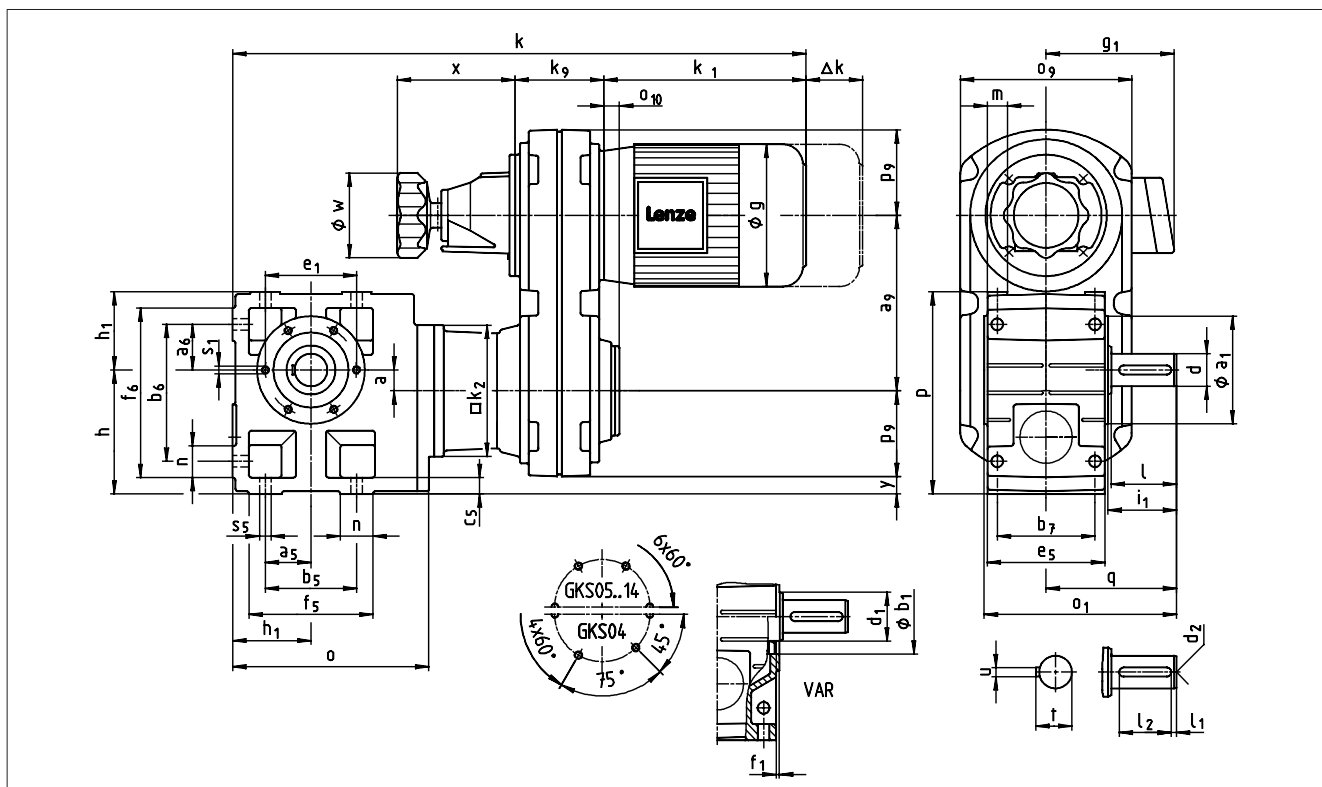
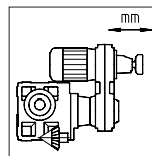
| Compact unit GKS □□ - 3 K HAK Motor position 1 | | Drive size | | | | | | | | | | | | | |
|---|--------------------------------------|------------------|-----|---------|----------------|---------|----------------|---------|--------------|---------|---------|-----|-----|-----|------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | |
| | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | |
| GKS 04 | 203 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 554 | 611 | 641 | | | | |
| GKS 05 | 232 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | | 631 | 661 | 679 | 762 | | 743 |
| GKS 06 | 291 | 201 | 250 | 150 | 100 | 28 | 49 | 121 | | 687 | 717 | | 818 | 833 | 799 |
| GKS 07 | 354 | 255 | 310 | 190 | 120 | 34 | 65 | 155 | | | | 791 | 874 | | 855 |
| GKS 09 | 429 | 300 | 386 | 236 | 150 | 41 | 69 | 180 | | | | | | | 905 |
| GKS 11 | 527 | 350 | 485 | 300 | 185 | 54 | 70 | 205 | | | | | | | 976 |
| | | | | | | | | | | | | | | | 1039 |
| | | | | | | | | | | | | | | | 1070 |
| | | | | | | | | | | | | | | | 1161 |

| 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 | |
| GKS 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 | |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| GKS 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 | |
| GKS 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 | |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| GKS 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 | |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-72)

Compact units

Dimensions with helical-bevel gearboxes



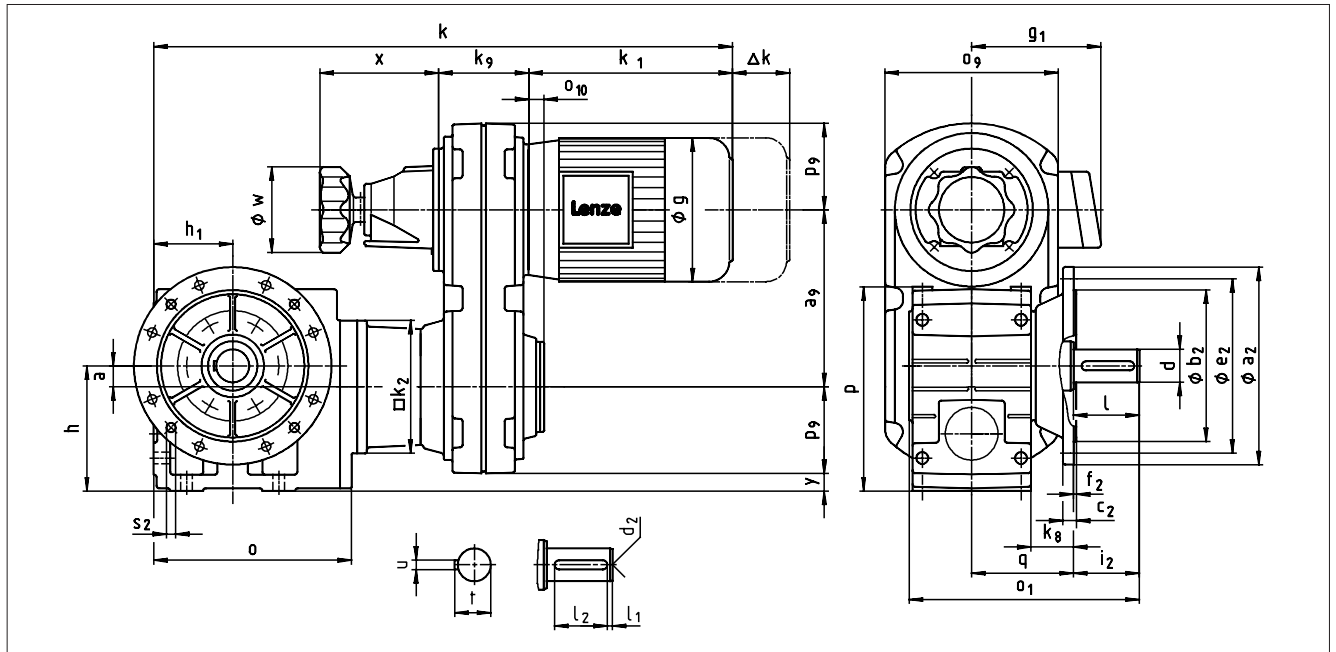
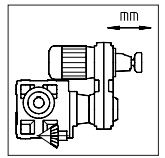
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------|--------------|---------|---------|---------|-----|-----|-----|-----|------|------|--|--|--|--|--|-----|--|------|
| GKS □□ - 3 KV□R | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | | | | | | | | | | | |
| Motor position 1 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | | | | | | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | | | | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | | | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | | | | | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | | | | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | | | | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | | | | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | | | | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | | | | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | | | | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | | | | | | | | | | | | |
| Housing | | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | q | k | | | | | | | | | | | | | | | | | |
| GKS 04 | 203 | 163 | 171 | 100 | 71 | 20 | 1075 | 554 | 611 | 641 | | | | | | | | | | | | | | | |
| GKS 05 | 232 | 197 | 205 | 125 | 80 | 23 | 130 | | 631 | 661 | 679 | 762 | | | 743 | | | | | | | | | | |
| GKS 06 | 291 | 236 | 250 | 150 | 100 | 28 | 160 | | 687 | 717 | | 818 | 833 | 799 | | | | | | | | | 912 | | |
| GKS 07 | 354 | 296 | 310 | 190 | 120 | 34 | 200 | | | | 791 | 874 | | | 855 | 905 | 968 | | | | | | | | |
| GKS 09 | 429 | 356 | 386 | 236 | 150 | 41 | 240 | | | | | | | | 976 | 1039 | 1070 | | | | | | | | |
| GKS 11 | 527 | 445 | 485 | 300 | 185 | 54 | 305 | | | | | | | | | | | | | | | | | | 1161 |

| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d | l | d₁ | l₁ | l₂ | d₂ | u | t | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GKS 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 | 21 | 9 |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |

Dimensions in [mm] d ≤ 50 mm: k6 d > 50 mm: m6 * Observe dimension k₂ Observe test dimension y! (see page 5-72)

Compact units

Dimensions with helical-bevel gearboxes



| Compact unit GKS □□ - 3 K VAK Motor position 1 | | Drive size | | | | | | | | | | | | | | | | |
|---|-----------------|------------------|-----|---------|----------------|---------|----------------|---------|---------|--------------|---------|-----|-----|-----|-----|-----|------|------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | | | | | |
| | g ₁ | Without options | | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | | |
| | | Brake motor | | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | | | | |
| Δk | Brake | | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | | | |
| Variable speed drive | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | | Total length | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | | |
| GKS 04 | 203 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 554 | 611 | 641 | | | | | | | |
| GKS 05 | 232 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | | 631 | 661 | 679 | 762 | | 743 | | | |
| GKS 06 | 291 | 277 | 250 | 150 | 100 | 28 | 49 | 121 | | 687 | 717 | | 818 | 833 | 799 | 912 | | |
| GKS 07 | 354 | 351 | 310 | 190 | 120 | 34 | 65 | 155 | | | | 791 | 874 | | 855 | 905 | 968 | |
| GKS 09 | 429 | 416 | 386 | 236 | 150 | 41 | 69 | 180 | | | | | | | | 976 | 1039 | 1070 |
| GKS 11 | 527 | 505 | 485 | 300 | 185 | 54 | 70 | 205 | | | | | | | | | | 1161 |

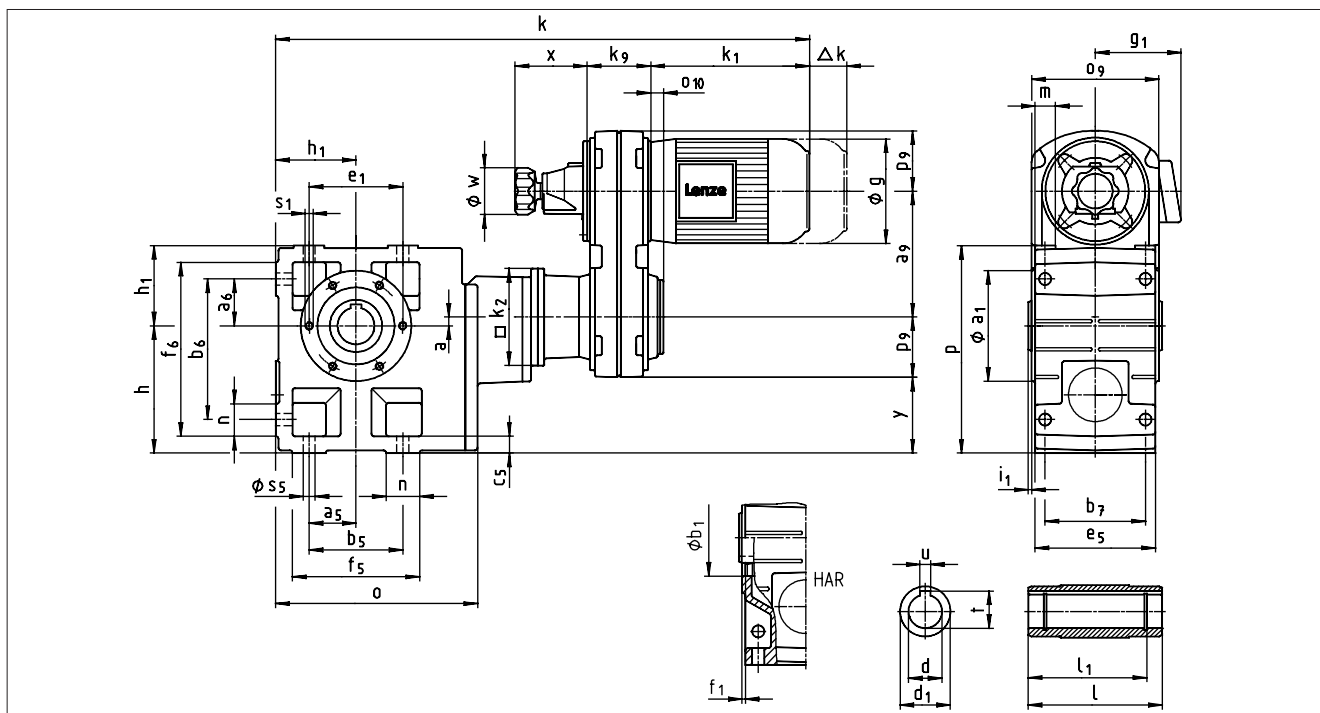
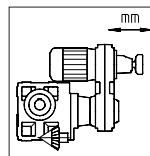
| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | 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 | |
| GKS 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| GKS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GKS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GKS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| GKS 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| GKS 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 | |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-72)

d ≤ 50 mm: k6
d > 50 mm: m6

Compact units

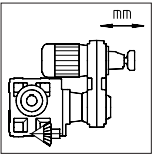
Dimensions with helical-bevel gearboxes



| Compact unit GKS □□ - 4 K H □ R Motor position 1 | | Drive size | | | | | | | | | |
|---|--------------------------------------|------------|-----------|----------|----------------------|----------|--------------|---------|---------|---------|---------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | |
| | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 |
| Gearbox size | Gearbox | | | | | | Total length | | | | |
| | o | l* | p* | h | h₁ | a | k | | | | |
| GKS 05 | 226 | 140 | 205 | 125 | 80 | 13 | 650 | | 737 | | |
| GKS 06 | 288 | 160 | 250 | 150 | 100 | 8 | | 780 | 810 | | |
| GKS 07 | 351 | 200 | 310 | 190 | 120 | 11 | | 847 | | 895 | 978 |
| GKS 09 | 426 | 240 | 386 | 236 | 150 | 15 | | | | 993 | 959 |
| GKS 11 | 523 | 290 | 485 | 300 | 185 | 16 | | | | 1082 | 1048 |
| GKS 14 | 632 | 350 | 605 | 375 | 230 | 22 | | | | | |
| | | | | | | | | | | 1098 | 1161 |
| | | | | | | | | | | 1208 | 1271 |
| | | | | | | | | | | | 1302 |
| | | | | | | | | | | | |
| | | | | | | | | | | | 1435 |

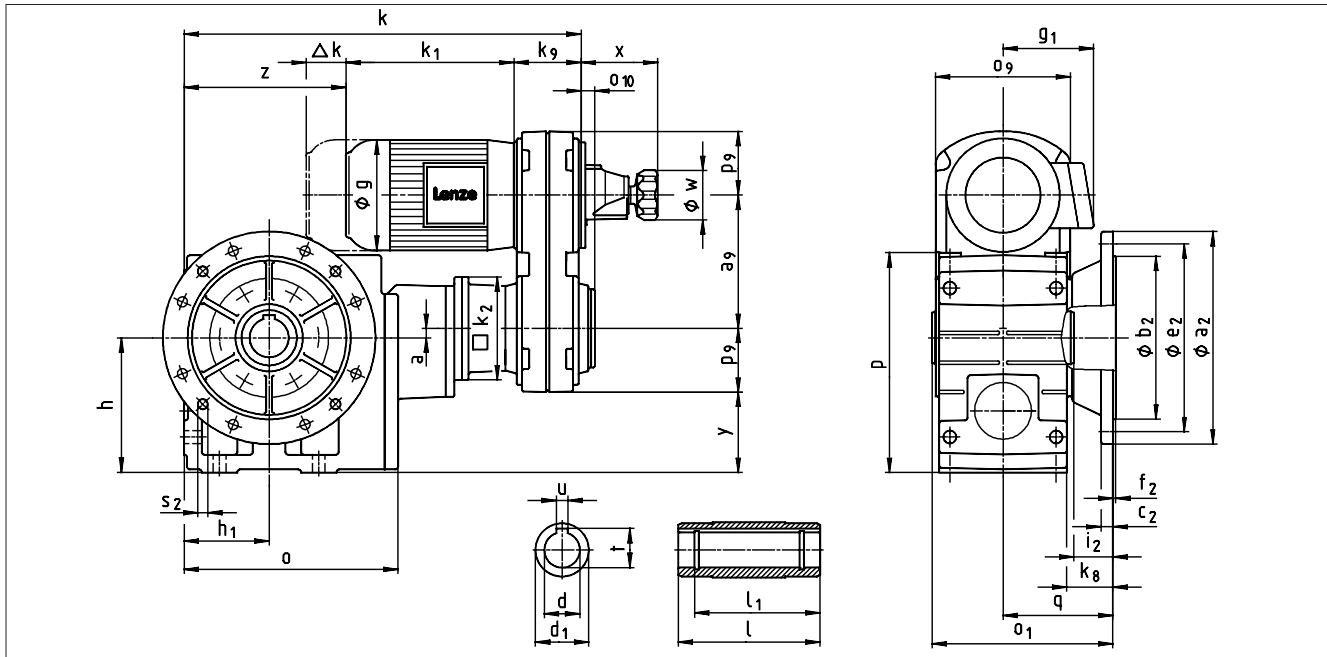
| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | d | l | d ₁ | l ₁ | u | t | a ₁ | b ₁ | 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 | m | s ₅ |
| | H7 | | | | JS9 | +0.2 | H7 | | | | | 6x60° | | | | | | | | | | | | |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 290 | 170 | 250 | 6 | 7 | M24x35 | 135 | 135 | 360 | 415 | 275 | 50 | 328 | 442 | 497 | 82 | 52 | 33 |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-73)



Compact units

Dimensions with helical-bevel gearboxes



5

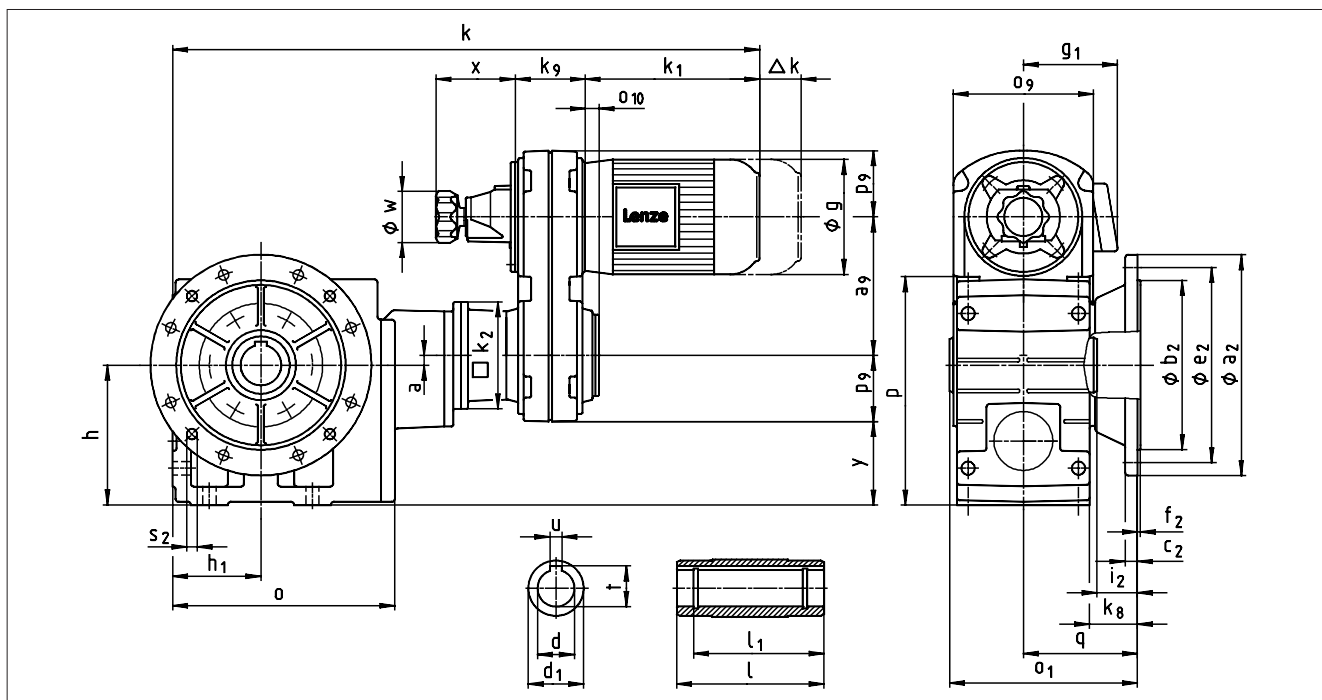
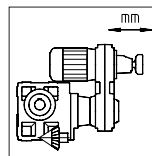
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|----------|---------|--------------|-----|-----|------|------|------|------|------|---------|---------|---------|-----|--|--|--|--|
| GKS □ □ - 4 K HAK | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/20E | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -32 | -12/-22 | -12/-22 | -12/-22 | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H | 40H | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | 360 | 388 | 388 | 433 | 433 | 433 | | | | | |
| | g₁ | Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | 275 | 300 | 300 | 319 | 319 | 319 | | | | |
| | | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | 275 | 309 | 309 | 327 | 327 | 327 | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | 595 | 661 | 661 | 693 | 693 | 693 | 693 | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | 122 | 167 | 167 | 148 | 148 | 148 | 148 | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | 500 | 500 | 500 | 500 | 500 | 500 | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | 160 | 160 | 160 | 160 | 160 | 160 | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | 528 | 528 | 528 | 528 | 528 | 528 | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | 264 | 264 | 264 | 264 | 264 | 264 | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | 200 | 200 | 200 | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 200 | 200 | 200 | 200 | 200 | 200 | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | 142 | 142 | 142 | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | 300 | 300 | 300 | | | | | | |
| Gearbox size | Gearbox | | | | | | | | | | Total length | | | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | | | | | | | | | | | |
| | GKS 05 | 226 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 413 | | 470 | | | | | | | | | | | | | | |
| | GKS 06 | 288 | 201 | 250 | 150 | 100 | 8 | 49 | 121 | | 543 | 543 | | | | | | | | | | | | | | |
| | GKS 07 | 351 | 255 | 310 | 190 | 120 | 11 | 65 | 155 | | 610 | | 628 | 628 | 643 | 643 | | | | | | | | | | |
| | GKS 09 | 426 | 300 | 386 | 236 | 150 | 15 | 69 | 180 | | | | 732 | 732 | 782 | 782 | 815 | 815 | | | | | | | | |
| | GKS 11 | 523 | 350 | 485 | 300 | 185 | 16 | 70 | 205 | | | | 892 | 892 | 923 | 925 | 925 | 939 | 939 | | | | | | | |
| GKS 14 | 632 | 410 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | | 1056 | 1058 | 1058 | 1072 | 1072 | 1053 | 1053 | 1053 | | | | | |

| 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 |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| GKS 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 |
| GKS 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 |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 |
| GKS 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 |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 |

Dimensions in [mm] * Observe dimension k₂ ** With swivel position 2 only terminal box position 2 possible, fan cover opposite terminal box flat
 d ≤ 50 mm: k6 With customer motors: Observe distance between motor and gearbox!
 d > 50 mm: m6
 Observe test dimensions z and y! (see page 5-73) Only swivel positions 3 and 5 possible

Compact units

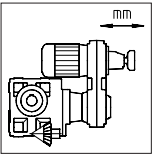
Dimensions with helical-bevel gearboxes



| Compact unit GKS □□ - 4 K HAK Motor position 1 | | Drive size | | | | | | | | | | | | |
|---|--------------------------------------|------------------|-----|---------|----------------|-----|----------------|-----|--------------|-----|-----|-----|-----|------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | |
| | | -12/-32 | -32 | -12/-32 | 13C | 14D | -12/-32 | 14D | 16D | 16D | 20E | 21E | 25F | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | |
| Housing | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | |
| | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | |
| GKS 05 | 226 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 650 | | 737 | | | |
| GKS 06 | 288 | 201 | 250 | 150 | 100 | 8 | 49 | 121 | | 780 | 810 | | | |
| GKS 07 | 351 | 255 | 310 | 190 | 120 | 11 | 65 | 155 | | 847 | | 895 | 978 | 993 |
| GKS 09 | 426 | 300 | 386 | 236 | 150 | 15 | 69 | 180 | | | | | | 1082 |
| GKS 11 | 523 | 350 | 485 | 300 | 185 | 16 | 70 | 205 | | | | | | 1048 |
| GKS 14 | 632 | 410 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | | 1098 |
| | | | | | | | | | | | | | | 1161 |
| | | | | | | | | | | | | | | 1208 |
| | | | | | | | | | | | | | | 1271 |
| | | | | | | | | | | | | | | 1302 |
| | | | | | | | | | | | | | | 1435 |

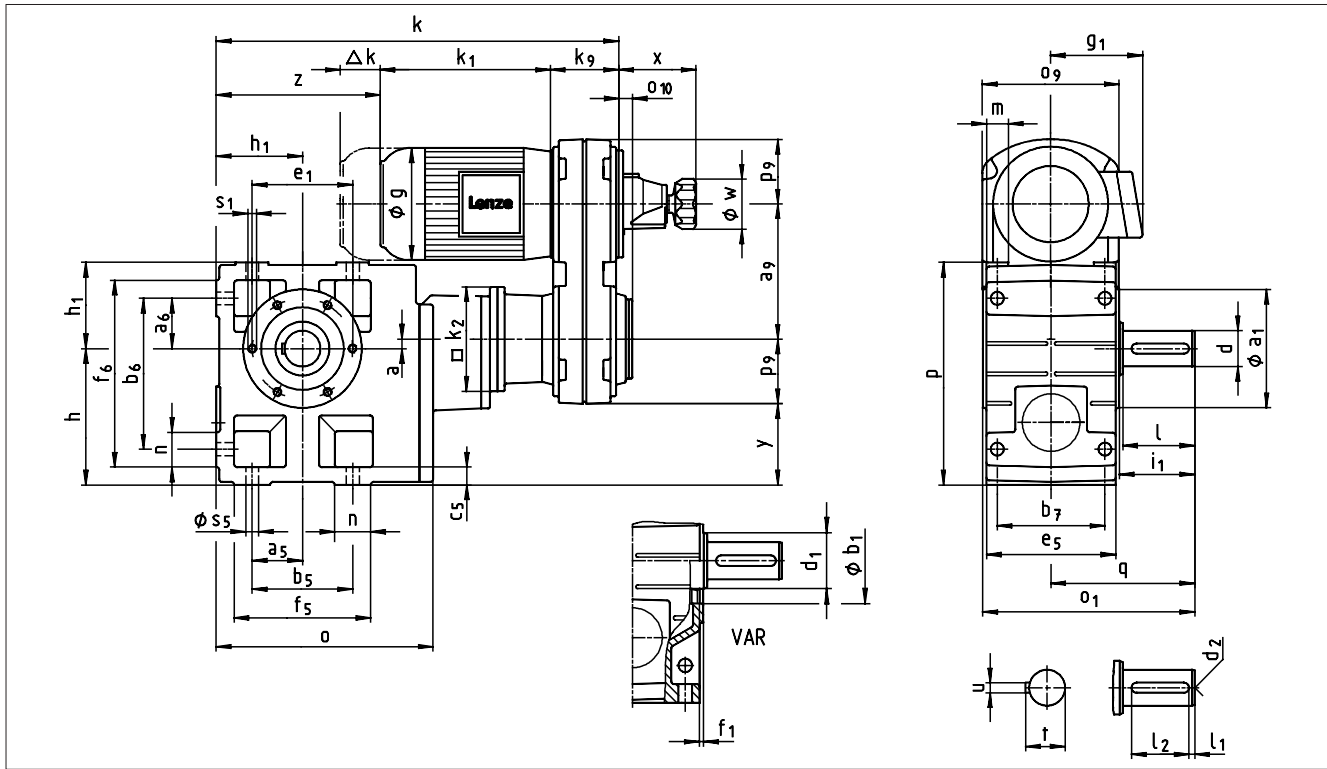
| Gearbox size | d H7 | l | Hollow shaft | | | | Output flange | | | | | | | |
|--------------|----------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------------|--|
| | | | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| GKS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| GKS 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 | |
| GKS 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 | |
| GKS 09 | 60 70 | 240 | 95 | 210 | 18 20 | 64.4 74.9 | 350 | 250 | 18 | 300 | 4 | 60 | 4 x 17.5 | |
| GKS 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 | |
| GKS 14 | 100 | 350 | 135 | 305 | 28 | 106.4 | 450 | 350 | 22 | 400 | 5 | 60 | 8 x 17.5 | |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-73)



Compact units

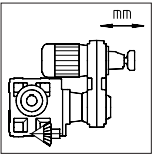
Dimensions with helical-bevel gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|-----------------------|--------------|----------|----------------------|----------|----------|----------|---------|---------|---------|-----|------|------|------|------|------|------|---------|---------|---------|--|--|--|--|--|--|--|--|--|
| GKS □□ - 4 KV □R | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | | | | | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -12/-22 | -12/-22 | -12/-22 | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H | 40H | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | 360 | 388 | 433 | | | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | 275 | 300 | 319 | | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | 275 | 309 | 327 | | | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | 595 | 661 | 693 | | | | | | | | | | | | |
| Variable speed drive | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | 122 | 167 | 148 | | | | | | | | | | | | |
| | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | 500 | 500 | 500 | | | | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | 160 | 160 | 160 | | | | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | 528 | 528 | 528 | | | | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | 264 | 264 | 264 | | | | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | | | | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | | | | | | | | | | | | |
| Housing | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | | | | | | | | | | | | |
| | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | | | | | | | | | | | | | |
| Gearbox | Gearbox | | Total length | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | q | k | | | | | | | | | | | | | | | | | | | | | | |
| | GKS 05 | 226 | 197 | 205 | 125 | 80 | 13 | 130 | 413 | | 470 | | | | | | | | | | | | | | | | | | | |
| | GKS 06 | 288 | 236 | 250 | 150 | 100 | 8 | 160 | | 543 | 543 | | | | | | | | | | | | | | | | | | | |
| | GKS 07 | 351 | 296 | 310 | 190 | 120 | 11 | 200 | | 610 | | 628 | 628 | 643 | 643 | | | | | | | | | | | | | | | |
| | GKS 09 | 426 | 356 | 386 | 236 | 150 | 15 | 240 | | | | 732 | 732 | 782 | 782 | 815 | 815 | | | | | | | | | | | | | |
| | GKS 11 | 523 | 445 | 485 | 300 | 185 | 16 | 305 | | | | 892 | 892 | 923 | 923 | 925 | 925 | 939 | 939 | | | | | | | | | | | |
| GKS 14 | 632 | 544 | 605 | 375 | 230 | 22 | 375 | | | | | | 1056 | 1058 | 1058 | 1072 | 1072 | 1053 | 1053 | 1053 | | | | | | | | | | |

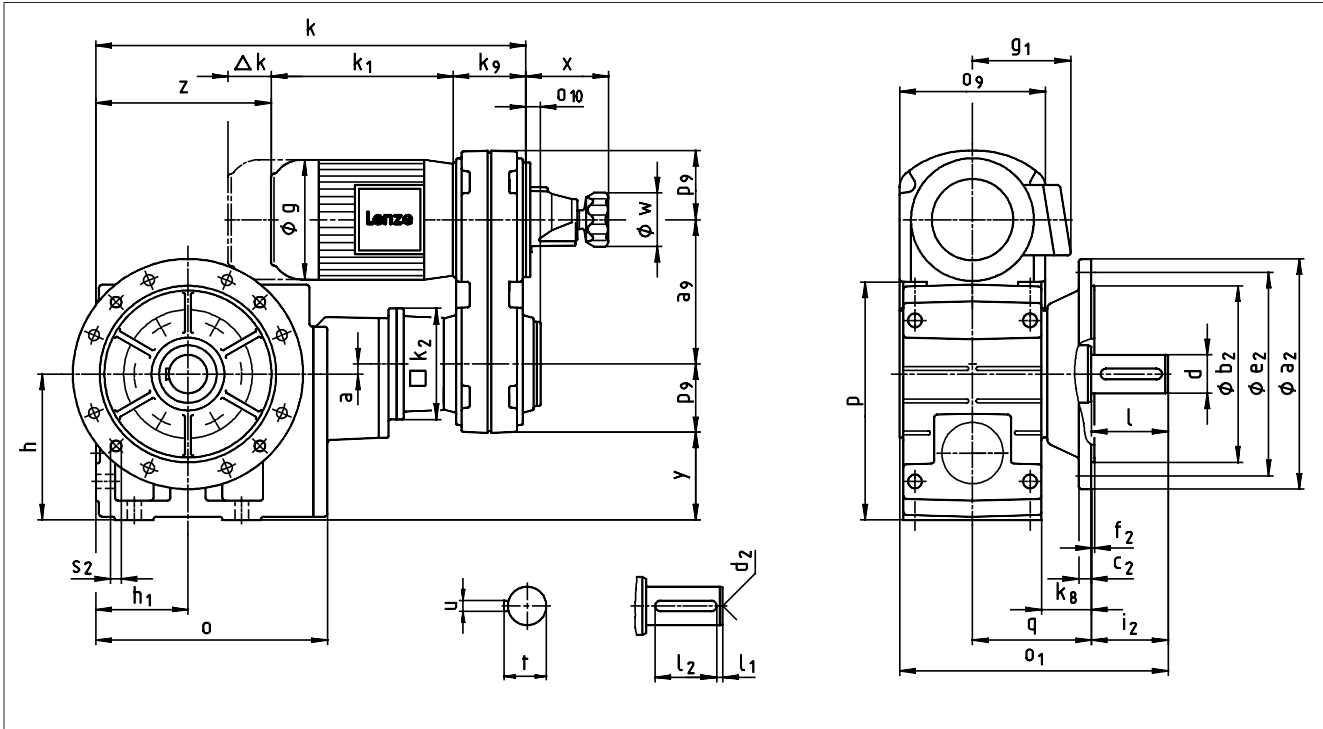
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ | e ₁ | f ₁ | l ₁ | s ₁ | a ₅ | a ₆ | b ₅ | b ₆ | b ₇ | c ₅ | e ₅ | f ₅ | f ₆ | n | m | s ₅ |
| GKS 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 | 21 | 11 |
| GKS 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 | 23 | 14 |
| GKS 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 | 28 | 18 |
| GKS 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 | 37 | 22 |
| GKS 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 | 43 | 26 |
| GKS 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 | 52 | 33 |

Dimensions in [mm] * Observe dimension k₂ ** With swivel position 2 only terminal box position 2 possible, fan cover opposite terminal box flat
d ≤ 50 mm: k₆ With customer motors: Observe distance between motor and gearbox!
d > 50 mm: m₆
Observe test dimensions z and y! (see page 5-73) Only swivel positions 3 and 5 possible



Compact units

Dimensions with helical-bevel gearboxes



5

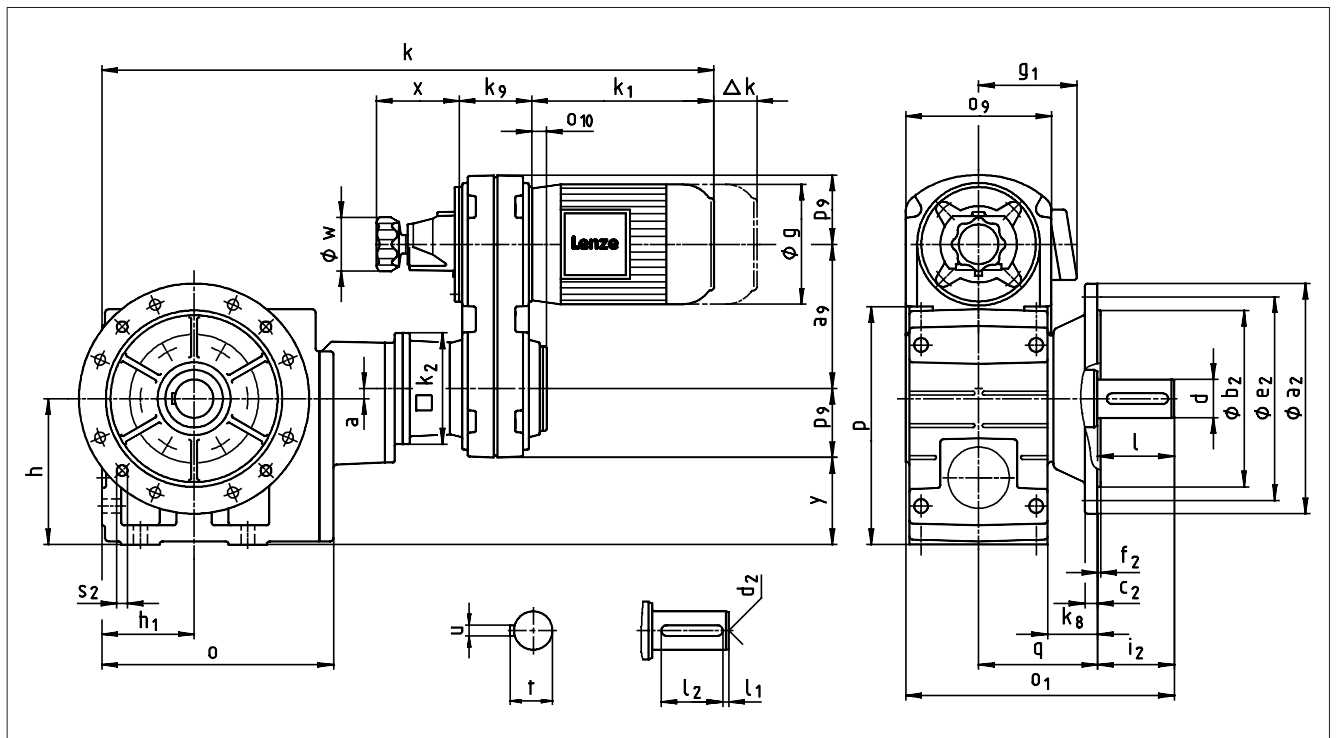
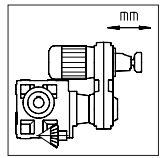
| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|---------|---------|-----|-----|------|------|------|------|------|---------|---------|---------|--|--|--|--|
| GKS □ □ - 4 K VAK | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -12/-22 | -12/-22 | -12/-22 | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H | 40H | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | 360 | 388 | 433 | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | 275 | 300 | 319 | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | 275 | 309 | 327 | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | 595 | 661 | 693 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | 122 | 167 | 148 | | | | | | | |
| Variable speed drive | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | 500 | 500 | 500 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | 160 | 160 | 160 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | 528 | 528 | 528 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | 264 | 264 | 264 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | 200 | 200 | 200 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | 320 | 320 | 320 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | 142 | 142 | 142 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 300 | 300 | 300 | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | | | | | | | | | | |
| GKS 05 | 226 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 413 | | | | | | | | | | | | | | | | |
| GKS 06 | 288 | 277 | 250 | 150 | 100 | 8 | 49 | 121 | | 543 | 543 | | | | | | | | | | | | | | |
| GKS 07 | 351 | 351 | 310 | 190 | 120 | 11 | 65 | 155 | | 610 | | 628 | 628 | 643 | 643 | | | | | | | | | | |
| GKS 09 | 426 | 416 | 386 | 236 | 150 | 15 | 69 | 180 | | | | 732 | 732 | 782 | 782 | 815 | 815 | | | | | | | | |
| GKS 11 | 523 | 505 | 485 | 300 | 185 | 16 | 70 | 205 | | | | 892 | 892 | 923 | 925 | 925 | 939 | 939 | | | | | | | |
| GKS 14 | 632 | 604 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | | 1056 | 1058 | 1058 | 1072 | 1072 | 1053 | 1053 | 1053 | | | | |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|-------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ | |
| GKS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GKS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GKS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| GKS 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| GKS 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 | |
| GKS 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

Dimensions in [mm] * Observe dimension k₂ ** With swivel position 2 only terminal box position 2 possible, fan cover opposite terminal box flat
 d ≤ 50 mm: k6 With customer motors: Observe distance between motor and gearbox!
 d > 50 mm: m6
 Observe test dimensions z and y! (see page 5-73) Only swivel positions 3 and 5 possible

Compact units

Abmessungen mit Kegelstirradgetriebe

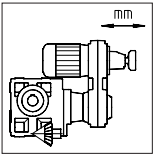


| Compact unit GKS □□ - 4 K VAK Motor position 1 | | Drive size | | | | | | | | | | | | | | | | |
|---|-----------------|------------------|-----|---------|----------------|---------|----------------|---------|--------------|---------|-----|-----|-----|------|------|------|------|------|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | 14D | -12/-32 | 16D | -12/-32 | 20E | -22/-32 | 25F | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | | | | | | | |
| | g ₁ | Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | | | |
| | | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | | | | |
| Variable speed drive | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | | | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | | | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | | | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | | | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | | | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | | |
| GKS 05 | 226 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 650 | | | | | | | | | |
| GKS 06 | 288 | 277 | 250 | 150 | 100 | 8 | 49 | 121 | | 780 | 810 | | | | | | | |
| GKS 07 | 351 | 351 | 310 | 190 | 120 | 11 | 65 | 155 | | 847 | | 895 | 978 | 993 | 959 | | | |
| GKS 09 | 426 | 416 | 386 | 236 | 150 | 15 | 69 | 180 | | | | | | 1082 | 1048 | 1098 | 1161 | |
| GKS 11 | 523 | 505 | 485 | 300 | 185 | 16 | 70 | 205 | | | | | | | | 1208 | 1271 | 1302 |
| GKS 14 | 632 | 604 | 605 | 375 | 230 | 22 | 71 | 235 | | | | | | | | | | 1435 |

| 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 | |
| GKS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GKS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GKS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |
| GKS 09 | 60 | 120 | 8 | 100 | M20 | 18 | 64 | 350 | 250 | 18 | 300 | 4 | 120 | 4 x 17.5 | |
| GKS 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 | |
| GKS 14 | 100 | 200 | 18 | 160 | M24 | 28 | 106 | 450 | 350 | 22 | 400 | 5 | 200 | 8 x 17.5 | |

Dimensions in [mm] * Observe dimension k₂ Observe test dimension y! (see page 5-73)

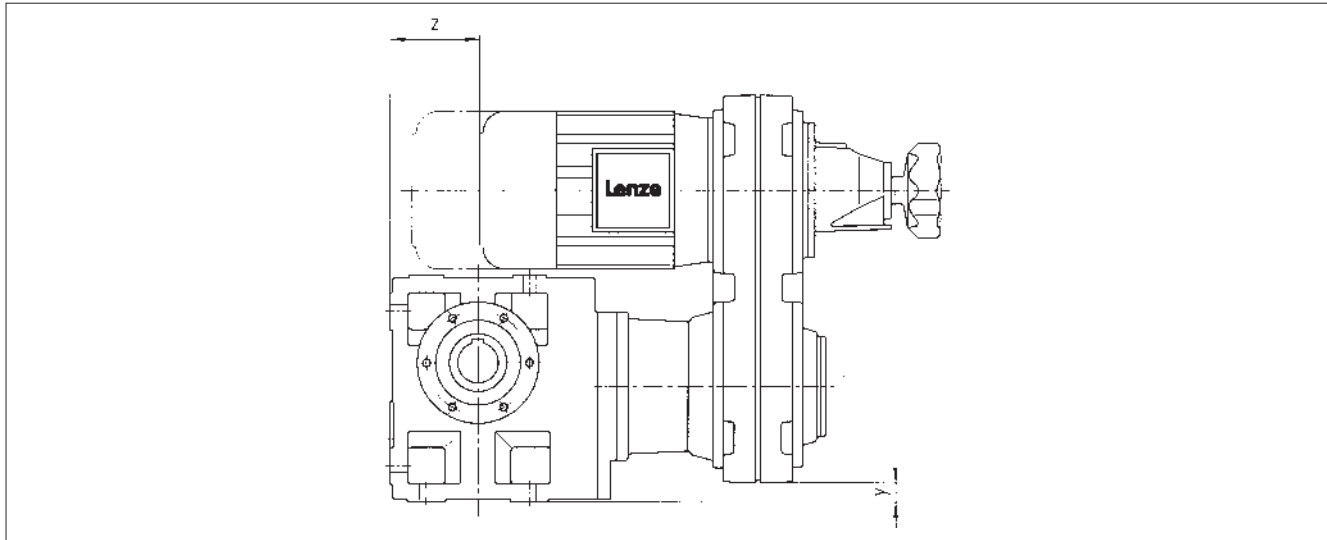
d ≤ 50 mm: k6
d > 50 mm: m6



Compact units

Dimensions with helical-bevel gearboxes

Test dimensions

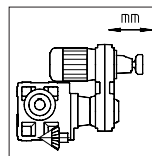


| Compact unit GKS □ □ - 3 K □ □ □ Motor position 6 | Drive size | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|------|------|------|-----|------|---------|---------|---------|
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 | |
| | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -12/-22 | -12/-22 | -12/-22 |
| | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 31G | 26F | 31G | 31G | 40H | 40H | 40H | 40H | 40H |
| Gearbox size | Test dimension z | | | | | | | | | | | | | | | | | | | |
| GKS 04 | 15 | 42 | 12 | | | | | | | | | | | | | | | | | |
| GKS 05 | | 62 | 32 | 50 | -34 | | 1 | | | | | | | | | | | | | |
| GKS 06 | | 118 | 88 | | 23 | 23 | 57 | | 24 | | -45 | | -159 | | | | | | | |
| GKS 07 | | | | 162 | 79 | | 113 | | 143 | 80 | 12 | | -103 | -125 | -156 | | | | | |
| GKS 09 | | | | | | | | 214 | 151 | 152 | 83 | | -32 | -54 | -85 | -68 | -134 | -166 | | |
| GKS 11 | | | | | | | | | | 243 | 174 | 152 | 60 | 38 | 7 | 24 | -43 | -75 | | |
| GKS 14 | | | | | | | | | | | | 251 | | 137 | 106 | 123 | 57 | 25 | | |
| | Test dimension y | | | | | | | | | | | | | | | | | | | |
| GKS 04 | 13 | -10 | -10 | | | | | | | | | | | | | | | | | |
| GKS 05 | | 12 | 12 | 12 | 12 | | -4 | | | | | | | | | | | | | |
| GKS 06 | | 32 | 32 | | 32 | 16 | 16 | | -10 | | -38 | | -38 | | | | | | | |
| GKS 07 | | | | 66 | 66 | | 50 | | 24 | 24 | | -4 | | -4 | -41 | -41 | | | | |
| GKS 09 | | | | | | | | 63 | 63 | 35 | 35 | 35 | 35 | -2 | -2 | -69 | -69 | -69 | | |
| GKS 11 | | | | | | | | | | 86 | 86 | 49 | 86 | 49 | 49 | -18 | -18 | -18 | | |
| GKS 14 | | | | | | | | | | | | 111 | | 111 | 111 | 44 | 44 | 44 | | |

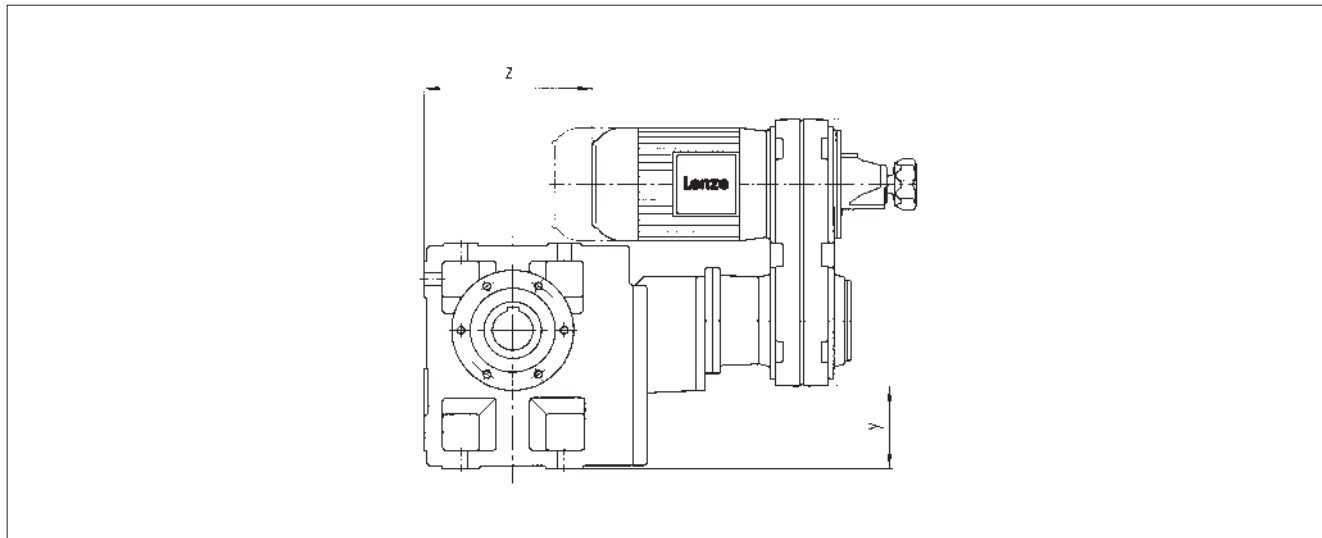
Dimensions in [mm]

Compact units

Dimensions with helical-bevel gearboxes

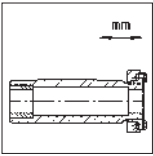


Test dimensions



| Compact unit GKS □□ - 4 K □□□ | Drive size | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|---------|-----|
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 | | 200 | | 225 |
| | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | -32 | -32 | -12/-22 | |
| | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 40H | 40H | 40H | 40H | |
| Gearbox size | | Test dimension z | | | | | | | | | | | | | | | | | |
| GKS 05 | 111 | | 108 | | | | | | | | | | | | | | | | |
| GKS 06 | | 211 | 181 | | | | | | | | | | | | | | | | |
| GKS 07 | | 278 | | 266 | 183 | 183 | 217 | | | | | | | | | | | | |
| GKS 09 | | | | | | 272 | 302 | 336 | 273 | | 205 | 91 | | | | | | | |
| GKS 11 | | | | | | | | 446 | 383 | 384 | 315 | 201 | 179 | 148 | | | | | |
| GKS 14 | | | | | | | | | | 517 | 448 | 334 | 312 | 281 | 298 | 232 | 200 | | |
| | | Test dimension y | | | | | | | | | | | | | | | | | |
| GKS 05 | 71 | | 48 | | | | | | | | | | | | | | | | |
| GKS 06 | | 68 | 68 | | | | | | | | | | | | | | | | |
| GKS 07 | | 111 | | 111 | 111 | 95 | 95 | | | | | | | | | | | | |
| GKS 09 | | | | | | 145 | 145 | 119 | 119 | | 91 | 91 | | | | | | | |
| GKS 11 | | | | | | | | 184 | 184 | 156 | 156 | 156 | 119 | 119 | | | | | |
| GKS 14 | | | | | | | | | | 237 | 237 | 237 | 200 | 200 | 133 | 133 | 133 | | |

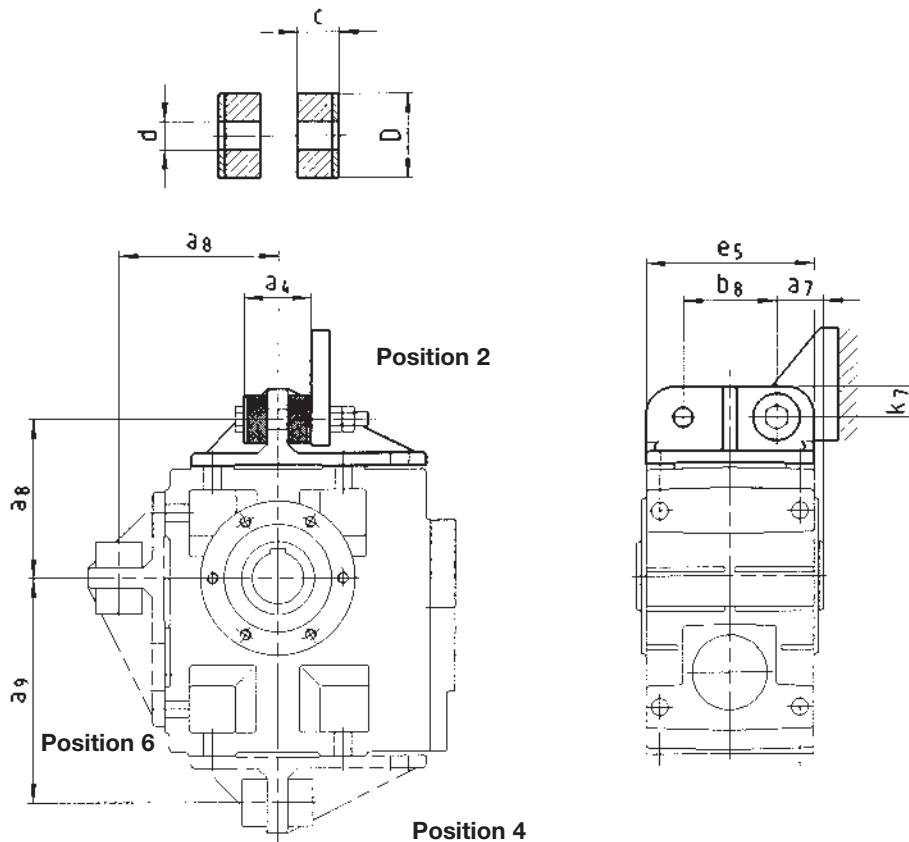
Dimensions in [mm]



Compact units

Additional dimensions GKS □ □

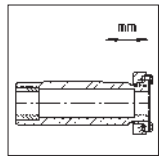
Torque plate at housing foot



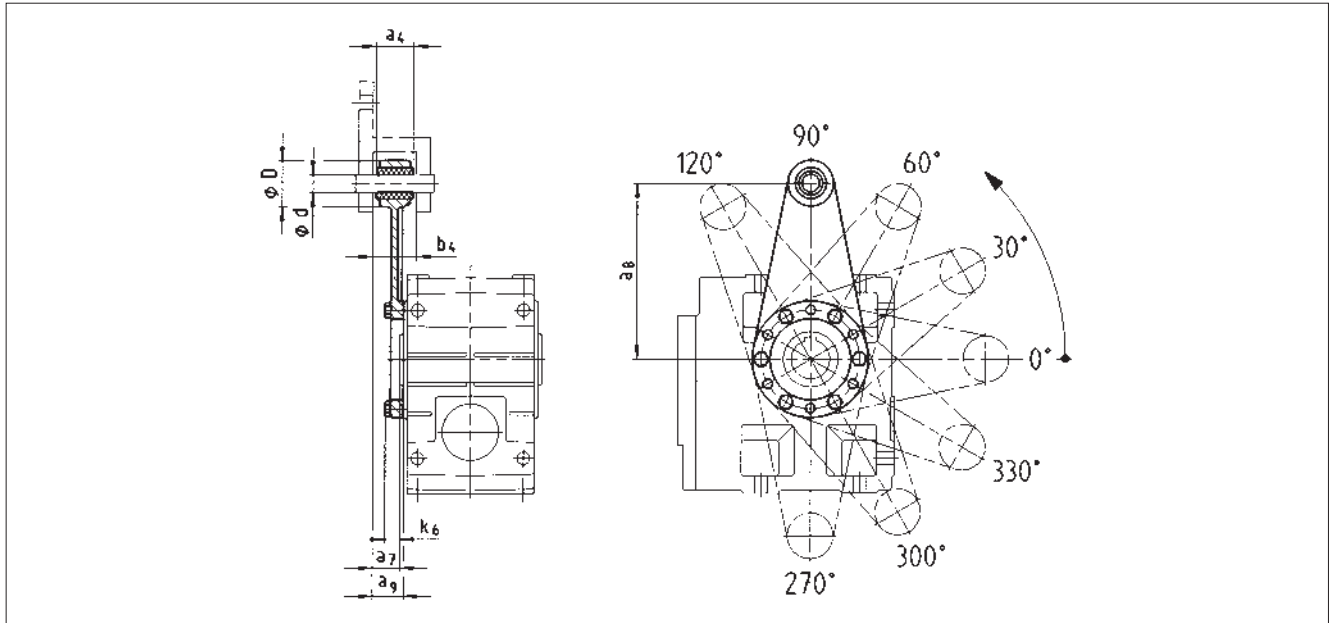
5

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

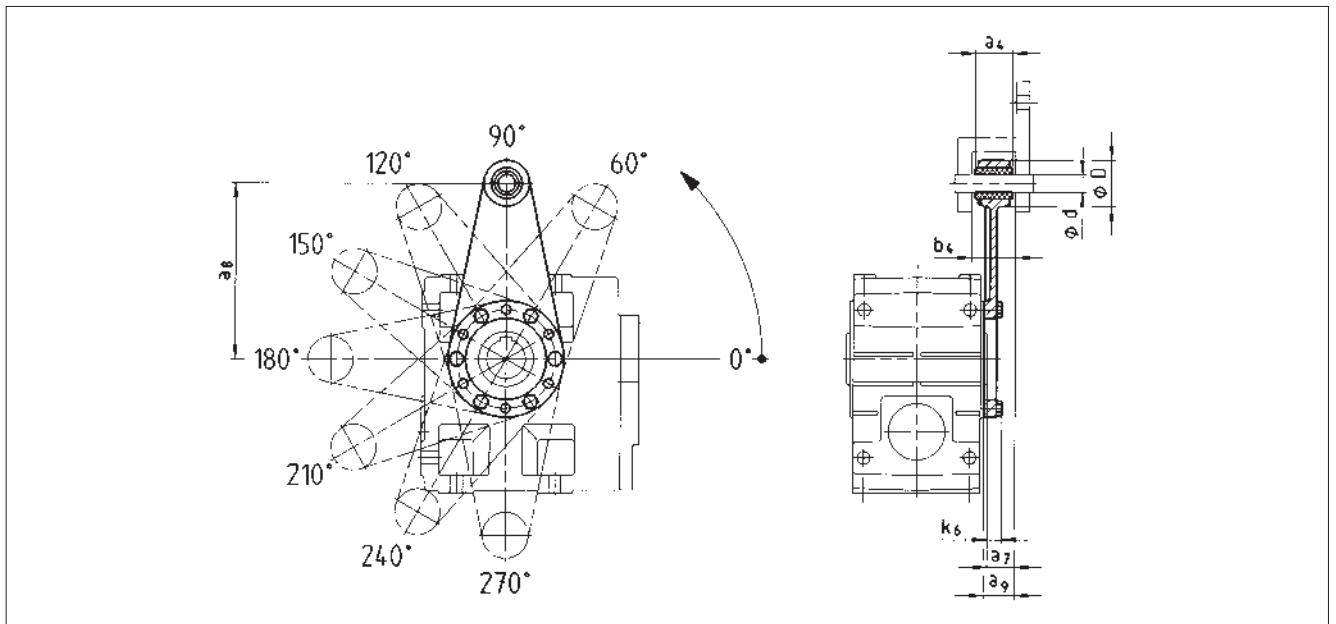
Dimensions in [mm]



Torque plate at pitch circle in position 3



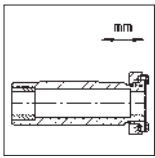
Torque plate at pitch circle in position 5



5

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

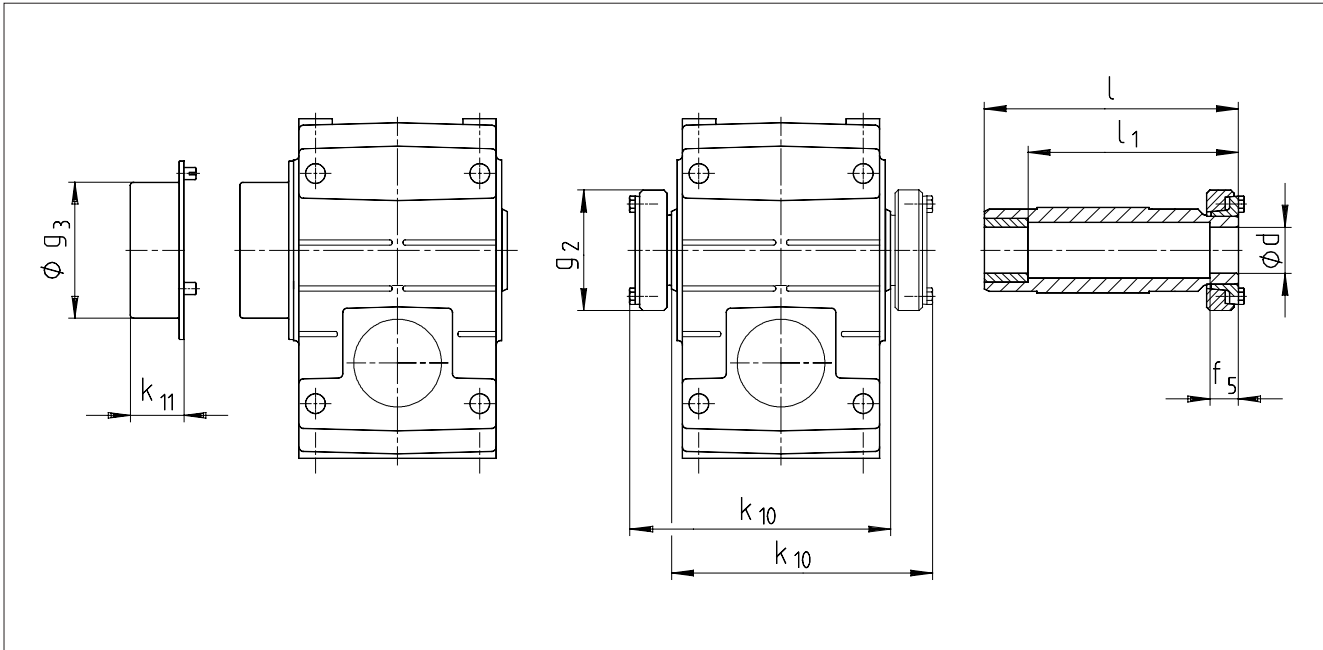
Dimensions in [mm]



Compact units

Additional dimensions GKS □ □

Hollow shaft with shrink disc

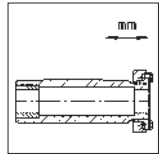


| Gearbox size | Machine shaft* | | Hollow shaft | | | Gearbox | | Protection cover | |
|--------------|----------------|-----|--------------|----------------|----------------|----------------|-----------------|------------------|-----------------|
| | d | Fit | l | l ₁ | f ₅ | G ₂ | k ₁₀ | g ₃ | k ₁₁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

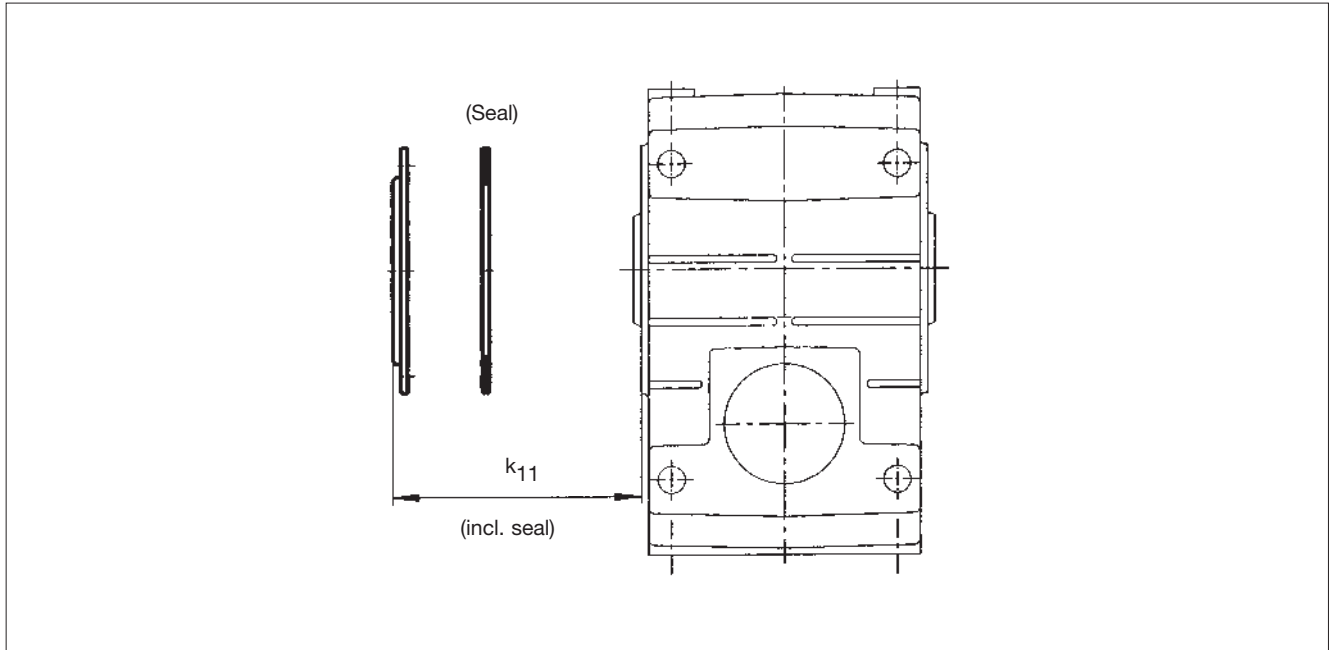
* Ensure sufficient strength of shaft material for shrink disc designs. When using customary steel (e.g. C45, 42CrMo4), the torques indicated in the selection tables can be transferred without any reservation. When using materials of a lower strength, please contact Lenze.

The average peak-to-valley height R_z should not exceed 15 μm . (Turning operation is sufficient).

Dimensions in [mm]

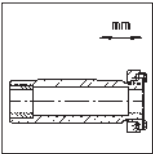


Hollow shaft retention – jet-proof



| Gearbox size | Protection cover k ₁₁ |
|--------------|-------------------------------------|
| GKS 04 | 9 |
| GKS 05 | 10 |
| GKS 06 | 11 |
| GKS 07 | 11 |
| GKS 09 | 54 |
| GKS 11 | 67 |
| GKS 14 | 80 |

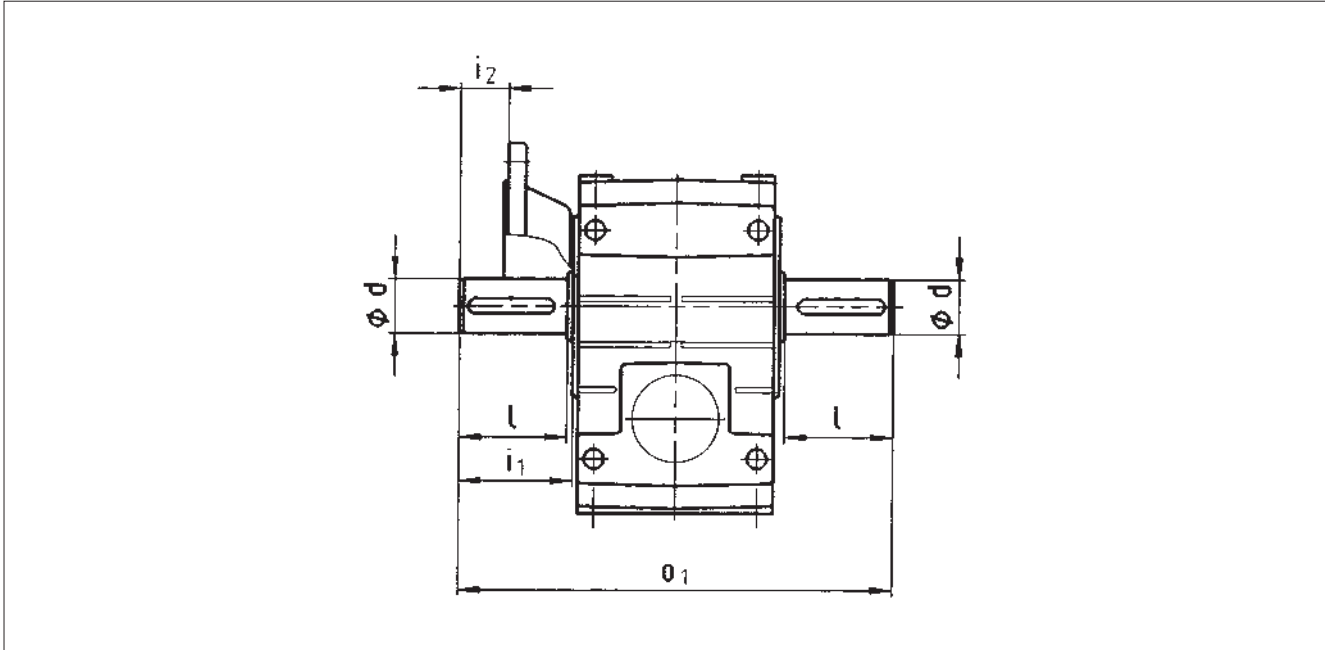
Dimensions in [mm]



Compact units

Additional dimensions GKS

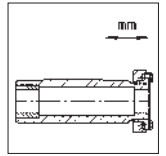
Gearbox with 2nd output shaft end



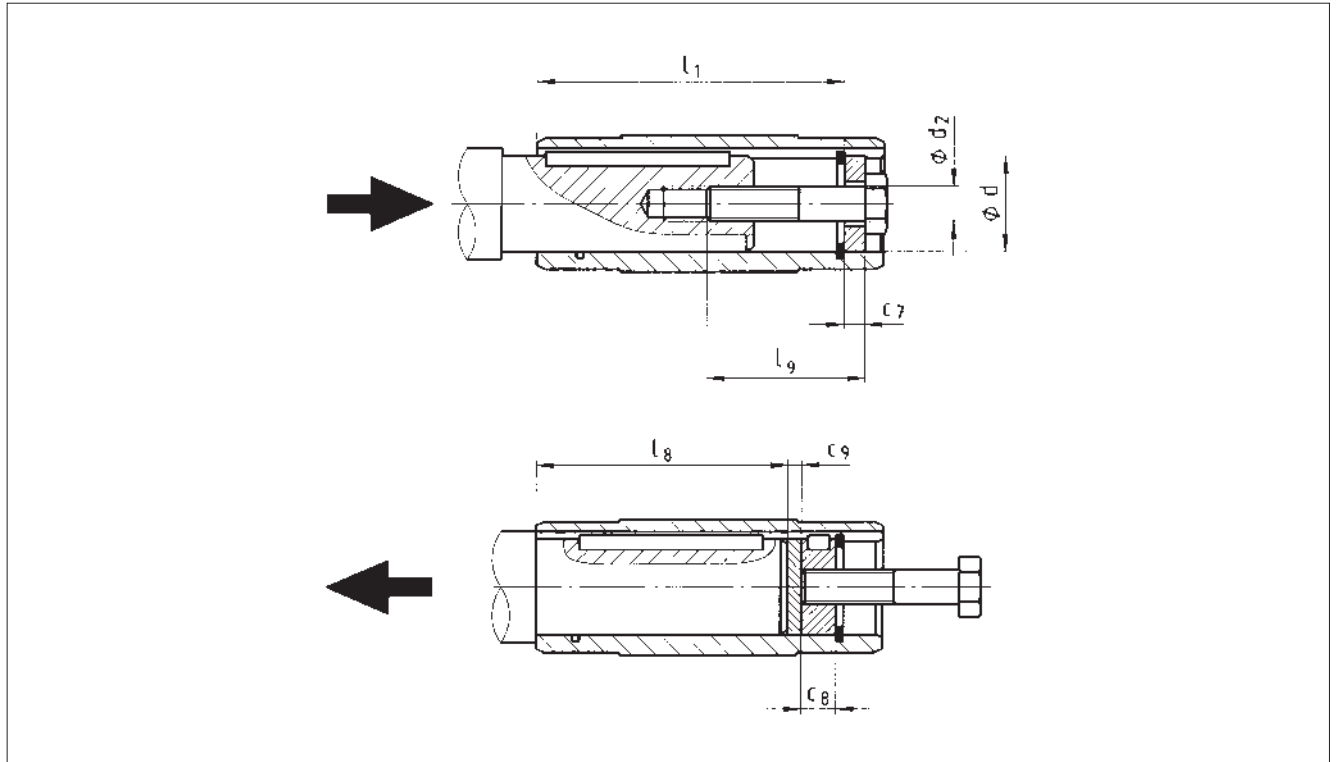
| Gearbox size | d | l | i_1 | i_2 | o_1 |
|--------------|-----|-----|-------|-------|-------|
| GKS 04 | 25 | 50 | 52.5 | 17 | 215 |
| GKS 05 | 30 | 60 | 64 | 27 | 260 |
| GKS 06 | 40 | 80 | 85 | 39 | 320 |
| GKS 07 | 50 | 100 | 105 | 45 | 400 |
| GKS 09 | 60 | 120 | 125 | 60 | 480 |
| GKS 11 | 80 | 160 | 166 | 100 | 610 |
| GKS 14 | 100 | 200 | 207 | 140 | 750 |

Dimensions in [mm]

5

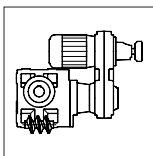


Mounting kit – hollow shaft retention · Design proposal for auxiliary tools



| Gearbox size | Hollow shaft (design H) | | | Mounting kit – hollow shaft retention (Auxiliary tool – mounting) | | | Auxiliary tool Disassembly | | Machine shaft max l ₈ |
|--------------|-------------------------|----------------|----------|--|----------------|----------------|-------------------------------|----------------|-------------------------------------|
| | l | l ₁ | d H7 | d ₂ | l ₉ | c ₇ | c ₈ | c ₉ | |
| GKS 04 | 115 | 100 | 25 30 | M10 M10 | 40 | 5 6 | 10 | 3 | 85 |
| GKS 05 | 140 | 124 | 30 35 | M10 M12 | 40 50 | 6 7 | 10 12 | 3 | 107 |
| GKS 06 | 160 | 140 | 40 45 | M16 | 60 | 8 9 | 16 | 4 | 118 |
| GKS 07 | 200 | 175 | 50 55 | M16 M20 | 60 80 | 10 11 | 16 20 | 5 | 148 |
| GKS 09 | 240 | 210 | 60 70 | M20 | 80 | 13 14 | 20 | 5 | 182 |
| GKS 11 | 290 | 250 | 70 80 | M20 | 80 | 14 16 | 20 | 6 | 221 |
| GKS 14 | 350 | 305 | 100 | M24 | 100 | 20 | 24 | 8 | 270 |

Dimensions in [mm]



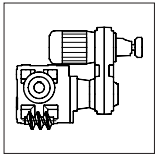
Compact units

Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.25 kW | | | | GSS □□ - 2K | 5-90 |
| | 597 - 108 | 2.2 - 16 | 5.639 | GSS04 - 2K □□□ 071-12 10B | |
| | 436 - 79 | 3.0 - 22 | 7.733 | GSS04 - 2K □□□ 071-12 10B | |
| | 340 - 62 | 3.7 - 28 | 9.897 | GSS04 - 2K □□□ 071-12 10B | |
| | 272 - 49 | 4.7 - 34 | 12.400 | GSS04 - 2K □□□ 071-12 10B | |
| | 212 - 38 | 6.0 - 43 | 15.869 | GSS04 - 2K □□□ 071-12 10B | |
| | 165 - 30 | 7.2 - 51 | 20.417 | GSS04 - 2K □□□ 071-12 10B | |
| | 136 - 25 | 9.3 - 63 | 24.800 | GSS04 - 2K □□□ 071-12 10B | |
| | 106 - 19 | 12 - 80 | 31.738 | GSS04 - 2K □□□ 071-12 10B | |
| | 86 - 16 | 15 - 97 | 39.200 | GSS04 - 2K □□□ 071-12 10B | |
| | 67 - 12 | 20 - 123 | 50.000 | GSS04 - 2K □□□ 071-12 10B | |
| | 55 - 9.9 | 25 - 149 | 61.250 | GSS04 - 2K □□□ 071-12 10B | |
| | 44 - 7.9 | 32 - 180 | 77.000 | GSS04 - 2K □□□ 071-12 10B | |
| | 34 - 6.1 | 41 - 180 | 99.167 | GSS04 - 2K □□□ 071-12 10B | |
| | 27 - 4.8 | 53 - 180 | 125.682 | GSS04 - 2K □□□ 071-12 10B | |
| | 21 - 3.9 | 66 - 180 | 157.500 | GSS04 - 2K □□□ 071-12 10B | |
| | | | | GSS □□ - 3K | 5-98 |
| | 22 - 4.0 | 64 - 310 | 153.708 | GSS05 - 3K □□□ 071-12 10B | |
| | 17 - 3.2 | 81 - 324 | 193.233 | GSS05 - 3K □□□ 071-12 10B | |
| | 13 - 2.4 | 104 - 352 | 250.952 | GSS05 - 3K □□□ 071-12 10B | |
| | 11 - 2.0 | 127 - 352 | 307.417 | GSS05 - 3K □□□ 071-12 10B | |
| | 8.7 - 1.6 | 159 - 352 | 386.467 | GSS05 - 3K □□□ 071-12 10B | |
| | 6.8 - 1.2 | 201 - 359 | 497.722 | GSS05 - 3K □□□ 071-12 10B | |
| | 5.3 - 1.0 | 250 - 360 | 630.803 | GSS05 - 3K □□□ 071-12 10B | |
| 4.3 - 0.8 | 304 - 360 | 790.500 | GSS05 - 3K □□□ 071-12 10B | | |
| 3.8 - 0.7 | 339 - 360 | 892.500 | GSS05 - 3K □□□ 071-12 10B | | |
| 0.37 kW | | | | GSS □□ - 2K | 5-90 |
| | 597 - 108 | 3.4 - 16 | 5.639 | GSS04 - 2K □□□ 071-32 10B | |
| | 583 - 110 | 3.5 - 23 | 5.639 | GSS04 - 2K □□□ 071-32 13C | |
| | 436 - 79 | 4.8 - 22 | 7.733 | GSS04 - 2K □□□ 071-32 10B | |
| | 425 - 80 | 4.7 - 32 | 7.733 | GSS04 - 2K □□□ 071-32 13C | |
| | 340 - 62 | 6.0 - 28 | 9.897 | GSS04 - 2K □□□ 071-32 10B | |
| | 332 - 63 | 6.1 - 40 | 9.897 | GSS04 - 2K □□□ 071-32 13C | |
| | 272 - 49 | 7.5 - 34 | 12.400 | GSS04 - 2K □□□ 071-32 10B | |
| | 265 - 50 | 7.5 - 49 | 12.400 | GSS04 - 2K □□□ 071-32 13C | |
| | 207 - 39 | 10.0 - 63 | 15.869 | GSS04 - 2K □□□ 071-32 13C | |
| | 212 - 38 | 9.7 - 43 | 15.869 | GSS04 - 2K □□□ 071-32 10B | |
| | 161 - 30 | 12 - 74 | 20.417 | GSS04 - 2K □□□ 071-32 13C | |
| | 165 - 30 | 11 - 51 | 20.417 | GSS04 - 2K □□□ 071-32 10B | |
| | 133 - 25 | 15 - 92 | 24.800 | GSS04 - 2K □□□ 071-32 13C | |
| | 136 - 25 | 15 - 63 | 24.800 | GSS04 - 2K □□□ 071-32 10B | |
| | 104 - 20 | 20 - 118 | 31.738 | GSS04 - 2K □□□ 071-32 13C | |
| | 106 - 19 | 19 - 81 | 31.738 | GSS04 - 2K □□□ 071-32 10B | |

Thermal limit not considered (see note on page 3-12)

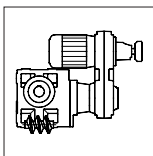
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.37 kW | | | | GSS □□ - 2K | 5-90 |
| | 84 - 16 | 24 - 143 | 39.200 | GSS04 - 2K □□□ 071-32 13C | |
| | 86 - 16 | 23 - 98 | 39.200 | GSS04 - 2K □□□ 071-32 10B | |
| | 66 - 12 | 31 - 180 | 50.000 | GSS04 - 2K □□□ 071-32 13C | |
| | 67 - 12 | 30 - 124 | 50.000 | GSS04 - 2K □□□ 071-32 10B | |
| | 54 - 10 | 39 - 180 | 61.250 | GSS04 - 2K □□□ 071-32 13C | |
| | 55 - 9.9 | 38 - 150 | 61.250 | GSS04 - 2K □□□ 071-32 10B | |
| | 43 - 8.1 | 49 - 180 | 77.000 | GSS04 - 2K □□□ 071-32 13C | |
| | 44 - 7.9 | 48 - 180 | 77.000 | GSS04 - 2K □□□ 071-32 10B | |
| | 33 - 6.3 | 64 - 180 | 99.167 | GSS04 - 2K □□□ 071-32 13C | |
| | 34 - 6.1 | 62 - 180 | 99.167 | GSS04 - 2K □□□ 071-32 10B | |
| | 27 - 4.8 | 79 - 180 | 125.682 | GSS04 - 2K □□□ 071-32 10B | |
| | 26 - 4.8 | 83 - 358 | 128.333 | GSS05 - 2K □□□ 071-32 13C | |
| | 21 - 3.9 | 99 - 180 | 157.500 | GSS04 - 2K □□□ 071-32 10B | |
| | 21 - 4.0 | 101 - 359 | 155.750 | GSS05 - 2K □□□ 071-32 13C | |
| | 17 - 3.2 | 126 - 667 | 196.875 | GSS06 - 2K □□□ 071-32 13C | |
| | | | | GSS □□ - 3K | 5-98 |
| | 13 - 2.4 | 156 - 352 | 250.952 | GSS05 - 3K □□□ 071-32 10B | |
| | 14 - 2.6 | 152 - 720 | 238.700 | GSS06 - 3K □□□ 071-32 13C | |
| | 11 - 2.0 | 190 - 352 | 307.417 | GSS05 - 3K □□□ 071-32 10B | |
| | 11 - 2.0 | 198 - 720 | 310.689 | GSS06 - 3K □□□ 071-32 13C | |
| | 8.7 - 1.6 | 237 - 352 | 386.467 | GSS05 - 3K □□□ 071-32 10B | |
| | 8.5 - 1.6 | 246 - 720 | 386.467 | GSS06 - 3K □□□ 071-32 13C | |
| | 6.8 - 1.2 | 299 - 359 | 497.722 | GSS05 - 3K □□□ 071-32 10B | |
| | 6.6 - 1.3 | 313 - 720 | 497.722 | GSS06 - 3K □□□ 071-32 13C | |
| | 5.3 - 1.0 | 359 - 360 | 630.803 | GSS05 - 3K □□□ 071-32 10B | |
| | 3.9 - 0.7 | 523 - 1250 | 833.556 | GSS07 - 3K □□□ 071-32 13C | |
| | 3.3 - 0.6 | 627 - 1250 | 1011.633 | GSS07 - 3K □□□ 071-32 13C | |
| 2.7 - 0.5 | 747 - 1250 | 1227.755 | GSS07 - 3K □□□ 071-32 13C | | |
| 2.4 - 0.5 | 834 - 1250 | 1386.175 | GSS07 - 3K □□□ 071-32 13C | | |
| 0.55 kW | | | | GSS □□ - 2K | 5-90 |
| | 583 - 110 | 5.5 - 35 | 5.639 | GSS04 - 2K □□□ 080-12 13C | |
| | 425 - 80 | 7.5 - 47 | 7.733 | GSS04 - 2K □□□ 080-12 13C | |
| | 332 - 63 | 9.7 - 61 | 9.897 | GSS04 - 2K □□□ 080-12 13C | |
| | 265 - 50 | 12 - 74 | 12.400 | GSS04 - 2K □□□ 080-12 13C | |
| | 207 - 39 | 16 - 95 | 15.869 | GSS04 - 2K □□□ 080-12 13C | |
| | 161 - 30 | 18 - 112 | 20.417 | GSS04 - 2K □□□ 080-12 13C | |
| | 133 - 25 | 23 - 138 | 24.800 | GSS04 - 2K □□□ 080-12 13C | |
| | 104 - 20 | 30 - 176 | 31.738 | GSS04 - 2K □□□ 080-12 13C | |
| | 84 - 16 | 37 - 180 | 39.200 | GSS04 - 2K □□□ 080-12 13C | |
| | 66 - 12 | 47 - 180 | 50.000 | GSS04 - 2K □□□ 080-12 13C | |
| | 54 - 10 | 58 - 180 | 61.250 | GSS04 - 2K □□□ 080-12 13C | |
| | 43 - 8.1 | 74 - 180 | 77.000 | GSS04 - 2K □□□ 080-12 13C | |
| | 33 - 6.3 | 96 - 180 | 99.167 | GSS04 - 2K □□□ 080-12 13C | |
| | 26 - 4.8 | 125 - 360 | 128.333 | GSS05 - 2K □□□ 080-12 13C | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



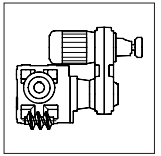
Compact units

Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|---------------------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 0.55 kW | | | | GSS □□ - 2K | 5-90 |
| | 21 - 4.0 | 152 - 360 | 155.750 | GSS05 - 2K □□□ 080-12 13C | |
| | 17 - 3.2 | 192 - 720 | 196.875 | GSS06 - 2K □□□ 080-12 13C | |
| | | | | GSS □□ - 3K | 5-98 |
| | 26 - 4.9 | 122 - 300 | 125.476 | GSS05 - 3K □□□ 080-12 13C | |
| | 21 - 4.0 | 149 - 313 | 153.708 | GSS05 - 3K □□□ 080-12 13C | |
| | 17 - 3.2 | 187 - 327 | 193.233 | GSS05 - 3K □□□ 080-12 13C | |
| | 13 - 2.5 | 241 - 355 | 250.952 | GSS05 - 3K □□□ 080-12 13C | |
| | 11 - 2.0 | 292 - 355 | 307.417 | GSS05 - 3K □□□ 080-12 13C | |
| | 8.5 - 1.6 | 358 - 354 | 386.467 | GSS05 - 3K □□□ 080-12 13C | |
| | 6.6 - 1.3 | 470 - 720 | 497.722 | GSS06 - 3K □□□ 080-12 13C | |
| | 5.9 - 1.1 | 528 - 720 | 561.944 | GSS06 - 3K □□□ 080-12 13C | |
| | 0.75 kW | | | | |
| 574 - 108 | | 7.8 - 39 | 5.639 | GSS04 - 2K □□□ 080-32 13C | |
| 419 - 79 | | 11 - 54 | 7.733 | GSS04 - 2K □□□ 080-32 13C | |
| 327 - 62 | | 14 - 69 | 9.897 | GSS04 - 2K □□□ 080-32 13C | |
| 261 - 49 | | 17 - 84 | 12.400 | GSS04 - 2K □□□ 080-32 13C | |
| 204 - 39 | | 22 - 107 | 15.869 | GSS04 - 2K □□□ 080-32 13C | |
| 159 - 30 | | 25 - 126 | 20.417 | GSS04 - 2K □□□ 080-32 13C | |
| 131 - 25 | | 32 - 156 | 24.800 | GSS04 - 2K □□□ 080-32 13C | |
| 102 - 19 | | 42 - 180 | 31.738 | GSS04 - 2K □□□ 080-32 13C | |
| 83 - 16 | | 51 - 180 | 39.200 | GSS04 - 2K □□□ 080-32 13C | |
| 65 - 12 | | 66 - 180 | 50.000 | GSS04 - 2K □□□ 080-32 13C | |
| 53 - 10.0 | | 82 - 180 | 61.250 | GSS04 - 2K □□□ 080-32 13C | |
| 42 - 7.9 | | 103 - 180 | 77.000 | GSS04 - 2K □□□ 080-32 13C | |
| 33 - 6.2 | | 134 - 180 | 99.167 | GSS04 - 2K □□□ 080-32 13C | |
| 29 - 5.4 | | 157 - 358 | 113.667 | GSS05 - 2K □□□ 080-32 13C | |
| 25 - 4.8 | | 175 - 359 | 128.333 | GSS05 - 2K □□□ 080-32 13C | |
| 24 - 4.4 | | 190 - 359 | 137.950 | GSS05 - 2K □□□ 080-32 13C | |
| 21 - 3.9 | | 212 - 360 | 155.750 | GSS05 - 2K □□□ 080-32 13C | |
| 16 - 3.1 | | 269 - 720 | 196.875 | GSS06 - 2K □□□ 080-32 13C | |
| | | | GSS □□ - 3K | 5-98 | |
| 26 - 4.9 | | 169 - 300 | 125.476 | | GSS05 - 3K □□□ 080-32 13C |
| 21 - 4.0 | | 208 - 312 | 153.708 | | GSS05 - 3K □□□ 080-32 13C |
| 17 - 3.2 | | 260 - 326 | 193.233 | | GSS05 - 3K □□□ 080-32 13C |
| 13 - 2.4 | 334 - 354 | 250.952 | GSS05 - 3K □□□ 080-32 13C | | |
| 10 - 2.0 | 417 - 720 | 310.689 | GSS06 - 3K □□□ 080-32 13C | | |
| 8.4 - 1.6 | 515 - 720 | 386.467 | GSS06 - 3K □□□ 080-32 13C | | |
| 6.5 - 1.2 | 653 - 720 | 497.722 | GSS06 - 3K □□□ 080-32 13C | | |

Thermal limit not considered (see note on page 3-12)

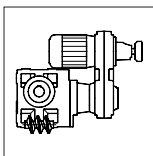
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page | |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | | |
| 0.75 kW | | | | GSS □□ - 3K | 5-98 | |
| | 5.8 - 1.1 | 720 - 720 | 561.944 | GSS06 - 3K □□□ 080-32 13C | | |
| 1.1 kW | | | | GSS □□ - 2K | 5-90 | |
| | 587 - 111 | 11 - 39 | 5.639 | GSS05 - 2K □□□ 090-12 14D | | |
| | 428 - 81 | 15 - 53 | 7.733 | GSS05 - 2K □□□ 090-12 14D | | |
| | 334 - 63 | 20 - 68 | 9.897 | GSS05 - 2K □□□ 090-12 14D | | |
| | 267 - 50 | 25 - 83 | 12.400 | GSS05 - 2K □□□ 090-12 14D | | |
| | 209 - 39 | 32 - 106 | 15.869 | GSS05 - 2K □□□ 090-12 14D | | |
| | 162 - 31 | 38 - 127 | 20.417 | GSS05 - 2K □□□ 090-12 14D | | |
| | 133 - 25 | 47 - 157 | 24.800 | GSS05 - 2K □□□ 090-12 14D | | |
| | 104 - 20 | 61 - 200 | 31.738 | GSS05 - 2K □□□ 090-12 14D | | |
| | 84 - 16 | 75 - 244 | 39.200 | GSS05 - 2K □□□ 090-12 14D | | |
| | 66 - 13 | 97 - 309 | 50.000 | GSS05 - 2K □□□ 090-12 14D | | |
| | 54 - 10 | 119 - 360 | 61.250 | GSS05 - 2K □□□ 090-12 14D | | |
| | 42 - 7.8 | 156 - 360 | 79.722 | GSS05 - 2K □□□ 090-12 14D | | |
| | 33 - 6.3 | 195 - 360 | 99.167 | GSS05 - 2K □□□ 090-12 14D | | |
| | 26 - 4.9 | 254 - 720 | 128.333 | GSS06 - 2K □□□ 090-12 14D | | |
| | 28 - 4.5 | 254 - 720 | 128.333 | GSS06 - 2K □□□ 090-12 16D | | |
| | 21 - 4.0 | 309 - 720 | 155.750 | GSS06 - 2K □□□ 090-12 14D | | |
| | 23 - 3.7 | 309 - 720 | 155.750 | GSS06 - 2K □□□ 090-12 16D | | |
| | 17 - 3.2 | 394 - 1180 | 196.875 | GSS07 - 2K □□□ 090-12 14D | | |
| | | | | GSS □□ - 3K | | 5-98 |
| | 16 - 3.1 | 397 - 1187 | 201.746 | GSS07 - 3K □□□ 090-12 14D | | |
| 13 - 2.5 | 488 - 1250 | 247.139 | GSS07 - 3K □□□ 090-12 14D | | | |
| 10 - 1.9 | 635 - 1250 | 321.673 | GSS07 - 3K □□□ 090-12 14D | | | |
| 8.4 - 1.6 | 776 - 1250 | 394.245 | GSS07 - 3K □□□ 090-12 14D | | | |
| 6.8 - 1.3 | 958 - 1250 | 490.403 | GSS07 - 3K □□□ 090-12 14D | | | |
| 6.0 - 1.1 | 1077 - 1250 | 553.681 | GSS07 - 3K □□□ 090-12 14D | | | |
| 1.5 kW | | | | GSS □□ - 2K | 5-90 | |
| | 591 - 112 | 15 - 39 | 5.639 | GSS05 - 2K □□□ 090-32 14D | | |
| | 431 - 81 | 21 - 53 | 7.733 | GSS05 - 2K □□□ 090-32 14D | | |
| | 337 - 64 | 28 - 68 | 9.897 | GSS05 - 2K □□□ 090-32 14D | | |
| | 269 - 51 | 34 - 83 | 12.400 | GSS05 - 2K □□□ 090-32 14D | | |
| | 210 - 40 | 44 - 106 | 15.869 | GSS05 - 2K □□□ 090-32 14D | | |
| | 163 - 31 | 52 - 127 | 20.417 | GSS05 - 2K □□□ 090-32 14D | | |
| | 134 - 25 | 64 - 157 | 24.800 | GSS05 - 2K □□□ 090-32 14D | | |
| | 105 - 20 | 83 - 200 | 31.738 | GSS05 - 2K □□□ 090-32 14D | | |
| | 85 - 16 | 102 - 244 | 39.200 | GSS05 - 2K □□□ 090-32 14D | | |
| | 67 - 13 | 132 - 309 | 50.000 | GSS05 - 2K □□□ 090-32 14D | | |
| | 54 - 10 | 163 - 360 | 61.250 | GSS05 - 2K □□□ 090-32 14D | | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



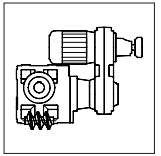
Compact units

Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 1.5 kW | 42 - 7.9 | 213 - 360 | 79.722 | GSS □□ - 2K GSS05 - 2K □□□ 090-32 14D | 5-90 |
| | 34 - 6.3 | 265 - 360 | 99.167 | GSS05 - 2K □□□ 090-32 14D | |
| | 26 - 4.9 | 346 - 720 | 128.333 | GSS06 - 2K □□□ 090-32 14D | |
| | 28 - 4.6 | 346 - 720 | 128.333 | GSS06 - 2K □□□ 090-32 16D | |
| | 21 - 4.0 | 421 - 720 | 155.750 | GSS06 - 2K □□□ 090-32 14D | |
| | 23 - 3.8 | 422 - 720 | 155.750 | GSS06 - 2K □□□ 090-32 16D | |
| | 17 - 3.2 | 538 - 1181 | 196.875 | GSS07 - 2K □□□ 090-32 14D | |
| | | | | GSS □□ - 3K | 5-98 |
| | 17 - 3.1 | 543 - 1188 | 201.746 | GSS07 - 3K □□□ 090-32 14D | |
| | 14 - 2.5 | 667 - 1250 | 247.139 | GSS07 - 3K □□□ 090-32 14D | |
| | 10 - 2.0 | 866 - 1250 | 321.673 | GSS07 - 3K □□□ 090-32 14D | |
| | 8.5 - 1.6 | 1057 - 1250 | 394.245 | GSS07 - 3K □□□ 090-32 14D | |
| | 7.5 - 1.4 | 1187 - 1250 | 445.116 | GSS07 - 3K □□□ 090-32 14D | |
| | 6.8 - 1.3 | 1250 - 1250 | 490.403 | GSS07 - 3K □□□ 090-32 14D | |
| 2.2 kW | 623 - 102 | 23 - 93 | 5.639 | GSS □□ - 2K GSS05 - 2K □□□ 100-12 16D | 5-90 |
| | 455 - 75 | 33 - 127 | 7.733 | GSS05 - 2K □□□ 100-12 16D | |
| | 355 - 58 | 42 - 163 | 9.897 | GSS05 - 2K □□□ 100-12 16D | |
| | 284 - 46 | 52 - 199 | 12.400 | GSS05 - 2K □□□ 100-12 16D | |
| | 222 - 36 | 67 - 254 | 15.869 | GSS05 - 2K □□□ 100-12 16D | |
| | 172 - 28 | 78 - 304 | 20.417 | GSS05 - 2K □□□ 100-12 16D | |
| | 142 - 23 | 96 - 360 | 24.800 | GSS05 - 2K □□□ 100-12 16D | |
| | 111 - 18 | 125 - 360 | 31.738 | GSS05 - 2K □□□ 100-12 16D | |
| | 90 - 15 | 153 - 360 | 39.200 | GSS05 - 2K □□□ 100-12 16D | |
| | 70 - 12 | 197 - 360 | 50.000 | GSS05 - 2K □□□ 100-12 16D | |
| | 57 - 9.4 | 243 - 360 | 61.250 | GSS05 - 2K □□□ 100-12 16D | |
| | 44 - 7.2 | 307 - 360 | 79.722 | GSS05 - 2K □□□ 100-12 16D | |
| | 35 - 5.8 | 400 - 720 | 99.167 | GSS06 - 2K □□□ 100-12 16D | |
| | 27 - 4.5 | 519 - 720 | 128.333 | GSS06 - 2K □□□ 100-12 16D | |
| | 23 - 3.7 | 631 - 720 | 155.750 | GSS06 - 2K □□□ 100-12 16D | |
| | 18 - 2.9 | 808 - 1250 | 196.875 | GSS07 - 2K □□□ 100-12 16D | |
| | | | | GSS □□ - 3K | |
| | 17 - 2.9 | 815 - 1250 | 201.746 | GSS07 - 3K □□□ 100-12 16D | |
| | 14 - 2.3 | 1000 - 1250 | 247.139 | GSS07 - 3K □□□ 100-12 16D | |
| | 11 - 1.8 | 1250 - 1250 | 321.673 | GSS07 - 3K □□□ 100-12 16D | |
| 3 kW | 623 - 102 | 32 - 93 | 5.639 | GSS □□ - 2K GSS05 - 2K □□□ 100-32 16D | 5-90 |
| | 455 - 75 | 45 - 127 | 7.733 | GSS05 - 2K □□□ 100-32 16D | |
| | 355 - 58 | 58 - 163 | 9.897 | GSS05 - 2K □□□ 100-32 16D | |

Thermal limit not considered (see note on page 3-12)

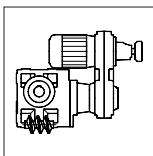
Marked in grey: Only swivel position 3 or 5 possible!



| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------------------------|---------------------------|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 3 kW | | | | GSS □□ - 2K | 5-90 |
| | 284 - 46 | 71 - 199 | 12.400 | GSS05 - 2K □□□ 100-32 16D | |
| | 222 - 36 | 92 - 254 | 15.869 | GSS05 - 2K □□□ 100-32 16D | |
| | 172 - 28 | 106 - 304 | 20.417 | GSS05 - 2K □□□ 100-32 16D | |
| | 142 - 23 | 132 - 360 | 24.800 | GSS05 - 2K □□□ 100-32 16D | |
| | 111 - 18 | 171 - 360 | 31.738 | GSS05 - 2K □□□ 100-32 16D | |
| | 90 - 15 | 210 - 360 | 39.200 | GSS05 - 2K □□□ 100-32 16D | |
| | 70 - 12 | 257 - 360 | 50.000 | GSS05 - 2K □□□ 100-32 16D | |
| | 57 - 9.4 | 336 - 720 | 61.250 | GSS06 - 2K □□□ 100-32 16D | |
| | 44 - 7.2 | 440 - 720 | 79.722 | GSS06 - 2K □□□ 100-32 16D | |
| | 35 - 5.8 | 549 - 720 | 99.167 | GSS06 - 2K □□□ 100-32 16D | |
| | 27 - 4.5 | 711 - 720 | 128.333 | GSS06 - 2K □□□ 100-32 16D | |
| | 23 - 3.7 | 876 - 1250 | 155.750 | GSS07 - 2K □□□ 100-32 16D | |
| | 23 - 3.6 | 847 - 1250 | 155.750 | GSS07 - 2K □□□ 100-32 20E | |
| | 18 - 2.9 | 1108 - 1250 | 196.875 | GSS07 - 2K □□□ 100-32 16D | |
| | | | GSS □□ - 3K | 5-98 | |
| 17 - 2.9 | 1117 - 1250 | 201.746 | GSS07 - 3K □□□ 100-32 16D | | |
| 14 - 2.3 | 1250 - 1250 | 247.139 | GSS07 - 3K □□□ 100-32 16D | | |
| 4 kW | | | | GSS □□ - 2K | 5-90 |
| | 634 - 98 | 43 - 153 | 5.833 | GSS06 - 2K □□□ 112-22 21E | |
| | 463 - 71 | 59 - 209 | 8.000 | GSS06 - 2K □□□ 112-22 21E | |
| | 362 - 56 | 76 - 269 | 10.238 | GSS06 - 2K □□□ 112-22 21E | |
| | 299 - 46 | 90 - 316 | 12.400 | GSS06 - 2K □□□ 112-22 21E | |
| | 233 - 36 | 116 - 405 | 15.869 | GSS06 - 2K □□□ 112-22 21E | |
| | 181 - 28 | 137 - 490 | 20.417 | GSS06 - 2K □□□ 112-22 21E | |
| | 149 - 23 | 168 - 594 | 24.800 | GSS06 - 2K □□□ 112-22 21E | |
| | 117 - 18 | 217 - 720 | 31.738 | GSS06 - 2K □□□ 112-22 21E | |
| | 94 - 15 | 270 - 720 | 39.200 | GSS06 - 2K □□□ 112-22 21E | |
| | 74 - 11 | 346 - 720 | 50.000 | GSS06 - 2K □□□ 112-22 21E | |
| | 60 - 9.3 | 426 - 720 | 61.250 | GSS06 - 2K □□□ 112-22 21E | |
| | 46 - 7.1 | 557 - 720 | 79.722 | GSS06 - 2K □□□ 112-22 21E | |
| | 37 - 5.7 | 663 - 720 | 99.167 | GSS06 - 2K □□□ 112-22 21E | |
| | 29 - 4.4 | 913 - 1250 | 128.333 | GSS07 - 2K □□□ 112-22 21E | |
| 24 - 3.7 | 1111 - 1250 | 155.750 | GSS07 - 2K □□□ 112-22 21E | | |
| 5.5 kW | | | | GSS □□ - 2K | 5-90 |
| | 639 - 98 | 59 - 153 | 5.833 | GSS06 - 2K □□□ 112-32 21E | |
| | 466 - 72 | 81 - 209 | 8.000 | GSS06 - 2K □□□ 112-32 21E | |
| | 364 - 56 | 105 - 269 | 10.238 | GSS06 - 2K □□□ 112-32 21E | |
| | 301 - 46 | 124 - 316 | 12.400 | GSS06 - 2K □□□ 112-32 21E | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



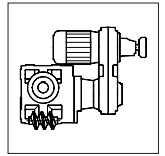
Compact units

Selection tables with helical-worm gearboxes

| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|---------|---|--------------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 5.5 kW | 235 - 36 | 159 - 405 | 15.869 | GSS □□ - 2K GSS06 - 2K □□□ 112-32 21E | 5-90 |
| | 183 - 28 | 188 - 490 | 20.417 | GSS06 - 2K □□□ 112-32 21E | |
| | 150 - 23 | 231 - 594 | 24.800 | GSS06 - 2K □□□ 112-32 21E | |
| | 117 - 18 | 298 - 720 | 31.738 | GSS06 - 2K □□□ 112-32 21E | |
| | 95 - 15 | 370 - 720 | 39.200 | GSS06 - 2K □□□ 112-32 21E | |
| | 75 - 12 | 475 - 720 | 50.000 | GSS06 - 2K □□□ 112-32 21E | |
| | 61 - 9.4 | 591 - 1250 | 61.250 | GSS07 - 2K □□□ 112-32 21E | |
| | 47 - 7.2 | 773 - 1250 | 79.722 | GSS07 - 2K □□□ 112-32 21E | |
| | 38 - 5.9 | 950 - 1250 | 97.708 | GSS07 - 2K □□□ 112-32 21E | |
| | 29 - 4.5 | 1250 - 1250 | 128.333 | GSS07 - 2K □□□ 112-32 21E | |
| 7.5 kW | 583 - 99 | 90 - 314 | 5.833 | GSS □□ - 2K GSS06 - 2K □□□ 132-22 26F | 5-90 |
| | 425 - 72 | 124 - 432 | 8.000 | GSS06 - 2K □□□ 132-22 26F | |
| | 332 - 56 | 160 - 522 | 10.238 | GSS06 - 2K □□□ 132-22 26F | |
| | 274 - 47 | 188 - 652 | 12.400 | GSS06 - 2K □□□ 132-22 26F | |
| | 214 - 36 | 242 - 720 | 15.869 | GSS06 - 2K □□□ 132-22 26F | |
| | 166 - 28 | 292 - 1026 | 20.517 | GSS07 - 2K □□□ 132-22 26F | |
| | 135 - 23 | 362 - 1250 | 25.188 | GSS07 - 2K □□□ 132-22 26F | |
| | 110 - 19 | 449 - 1250 | 31.000 | GSS07 - 2K □□□ 132-22 26F | |
| | 87 - 15 | 570 - 1250 | 39.200 | GSS07 - 2K □□□ 132-22 26F | |
| | 68 - 12 | 730 - 1250 | 50.000 | GSS07 - 2K □□□ 132-22 26F | |
| | 56 - 9.4 | 897 - 1250 | 61.250 | GSS07 - 2K □□□ 132-22 26F | |
| | 48 - 8.2 | 1031 - 1250 | 70.611 | GSS07 - 2K □□□ 132-22 26F | |
| 9.2 kW | 583 - 98 | 111 - 314 | 5.833 | GSS □□ - 2K GSS06 - 2K □□□ 132-32 26F | 5-90 |
| | 425 - 72 | 153 - 431 | 8.000 | GSS06 - 2K □□□ 132-32 26F | |
| | 332 - 56 | 196 - 522 | 10.238 | GSS06 - 2K □□□ 132-32 26F | |
| | 274 - 46 | 231 - 652 | 12.400 | GSS06 - 2K □□□ 132-32 26F | |
| | 214 - 36 | 298 - 720 | 15.869 | GSS06 - 2K □□□ 132-32 26F | |
| | 166 - 28 | 359 - 1026 | 20.517 | GSS07 - 2K □□□ 132-32 26F | |
| | 135 - 23 | 446 - 1250 | 25.188 | GSS07 - 2K □□□ 132-32 26F | |
| | 110 - 19 | 552 - 1250 | 31.000 | GSS07 - 2K □□□ 132-32 26F | |
| | 96 - 16 | 673 - 1250 | 35.306 | GSS07 - 2K □□□ 132-32 26F | |
| | 79 - 13 | 827 - 1250 | 43.271 | GSS07 - 2K □□□ 132-32 26F | |
| 11 kW | 583 - 99 | 133 - 314 | 5.833 | GSS □□ - 2K GSS06 - 2K □□□ 160-22 26F | 5-90 |
| | 425 - 72 | 183 - 432 | 8.000 | GSS06 - 2K □□□ 160-22 26F | |
| | 332 - 56 | 235 - 522 | 10.238 | GSS06 - 2K □□□ 160-22 26F | |

Thermal limit not considered (see note on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!



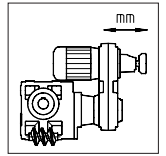
| P ₁ | 50 Hz | | i | Compact unit | Dim. Page |
|----------------|--|------------------------|-----------|---|-----------|
| | n ₂ [min ⁻¹] | M ₂ [Nm] | | | |
| 11 kW | 274 - 47 | 276 - 652 | 12.400 | GSS □□ - 2K GSS06 - 2K □□□ 160-22 26F | 5-90 |
| | 219 - 37 | 351 - 820 | 15.500 | GSS07 - 2K □□□ 160-22 26F | |
| | 166 - 28 | 430 - 1026 | 20.517 | GSS07 - 2K □□□ 160-22 26F | |
| | 154 - 26 | 504 - 1173 | 22.143 | GSS07 - 2K □□□ 160-22 26F | |
| | 125 - 21 | 619 - 1250 | 27.125 | GSS07 - 2K □□□ 160-22 26F | |
| | 96 - 16 | 808 - 1250 | 35.306 | GSS07 - 2K □□□ 160-22 26F | |
| | 79 - 13 | 991 - 1250 | 43.271 | GSS07 - 2K □□□ 160-22 26F | |
| 15 kW | 580 - 97 | 183 - 646 | 5.862 | GSS □□ - 2K GSS07 - 2K □□□ 160-32 31G | 5-90 |
| | 419 - 70 | 256 - 897 | 8.125 | GSS07 - 2K □□□ 160-32 31G | |
| | 340 - 57 | 316 - 1087 | 10.000 | GSS07 - 2K □□□ 160-32 31G | |
| | 270 - 45 | 389 - 1250 | 12.594 | GSS07 - 2K □□□ 160-32 31G | |
| | 219 - 37 | 481 - 1250 | 15.500 | GSS07 - 2K □□□ 160-32 31G | |
| | 196 - 33 | 530 - 1250 | 17.360 | GSS07 - 2K □□□ 160-32 31G | |
| | 18.5 kW | 580 - 96 | 227 - 646 | 5.862 | |
| 419 - 69 | | 316 - 897 | 8.125 | GSS07 - 2K □□□ 180-22 31G | |
| 340 - 56 | | 391 - 1087 | 10.000 | GSS07 - 2K □□□ 180-22 31G | |
| 238 - 39 | | 545 - 1101 | 14.286 | GSS07 - 2K □□□ 180-22 31G | |

Thermal limit not considered (see not on page 3-12)

Marked in grey: Only swivel position 3 or 5 possible!

Compact units

Combinations with helical-worm gearboxes



GSS □□ - 2 K

| Gearbox size | Compact unit | | | | | | | | | | | | | | | |
|--------------|----------------------------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|-----|---|
| | GSS □□ - 2 K □□□ with drive size | | | | | | | | | | | | | | | |
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 | |
| | -12 /-32 | -32 | -12 /-32 | | -12 /-32 | | -12 /-32 | | -22 /-32 | | -22 /-32 | | -22 | -32 | -22 | |
| 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | | 26F | | 26F | 31G | 31G | | |
| GSS 04 | ↔ | ● | ● | | | | | | | | | | | | | |
| GSS 05 | | ● | ↔ | ● | ● | | ● | | | | | | | | | |
| GSS 06 | | ↔ | ↔ | | ↔ | ● | ● | | ● | ● | ● | ● | | | | |
| GSS 07 | | | | ↔ | ↔ | | ↔ | ● | ● | ● | ● | ● | ● | ● | ● | ● |

GSS □□ - 3 K

| Gearbox size | Compact unit | | | | | |
|--------------|----------------------------------|-----|----------|-----|----------|----------|
| | GSS □□ - 3 K □□□ with drive size | | | | | |
| | 071 | | 080 | | 090 | 100 |
| | -12 /-32 | -32 | -12 /-32 | | -12 /-32 | -12 /-32 |
| 10B | 13C | 13C | 14D | 16D | 16D | |
| GSS 05 | ● | | ● | | | |
| GSS 06 | | ● | ● | | | |
| GSS 07 | | ↔ | | ● | ● | ● |

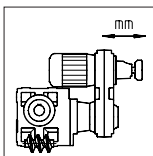
Motor position 1 (Z design):

■ All combinations possible in swivel positions 2, 3 or 5

Motor position 6 (U design):

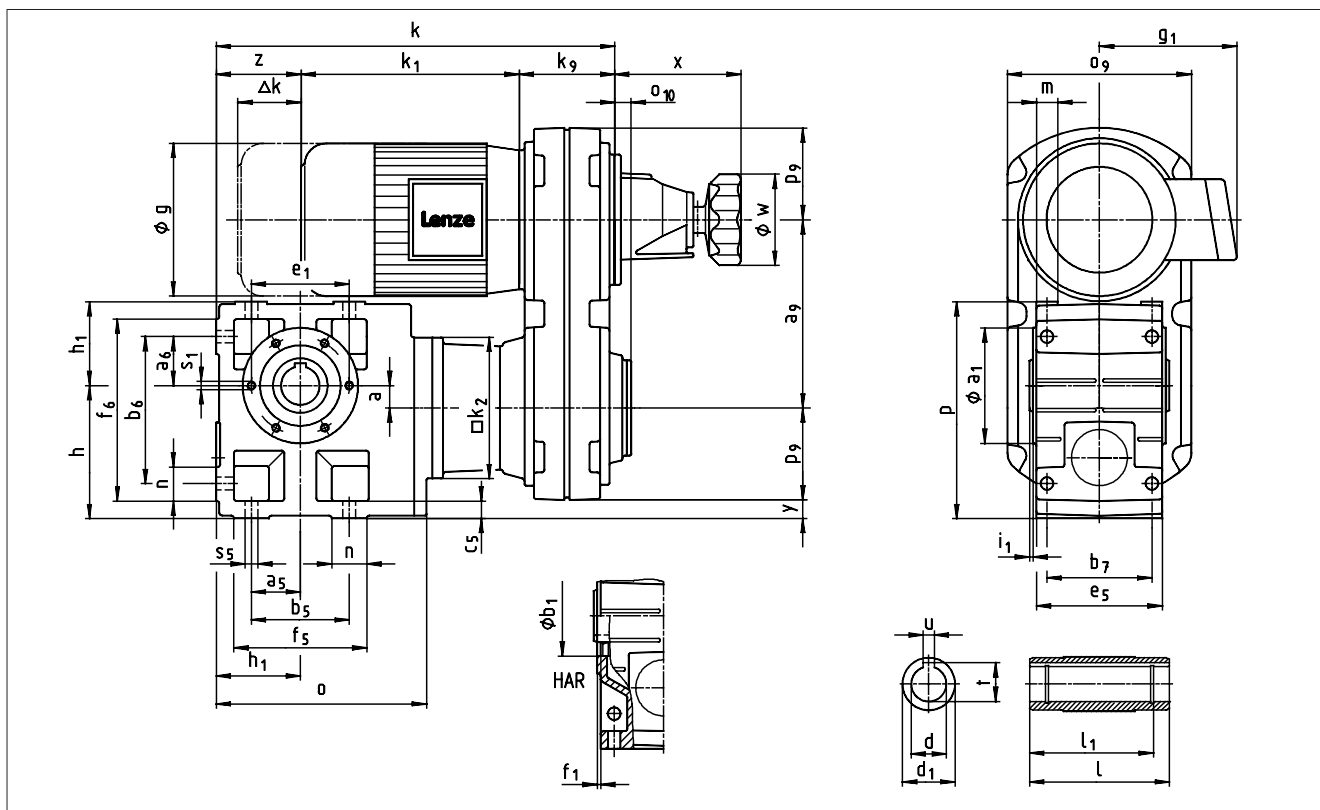
↔ Only swivel position 3 or 5 possible

● Swivel position 2, 3 or 5 possible



Compact units

Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------------|------------|-----|---------|----------------|---------|--------------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GSS □□ - 2 K H □ R | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 31G | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | | | | | |
| | g ₁ Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | | | | | |
| Variable speed drives | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | 222 | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | | | | | |
| | o | l* | p* | h | h ₁ | a | k | | | | | | | | | | | | | |
| | GSS 04 | 181 | 115 | 171 | 100 | 71 | 20 | 295 | 352 | 352 | | | | | | | | | | |
| | GSS 05 | 212 | 140 | 205 | 125 | 80 | 23 | | 374 | 374 | 392 | 392 | | 407 | | | | | | |
| | GSS 06 | 255 | 160 | 250 | 150 | 100 | 26 | | 414 | 414 | | 432 | 447 | 447 | | 497 | 528 | 530 | 530 | |
| GSS 07 | 305 | 200 | 310 | 190 | 120 | 33 | | | | 475 | 475 | | 490 | 540 | 540 | 571 | 573 | 573 | 587 | 587 |

| 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 | m | s ₅ |
| GSS 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 | 20 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

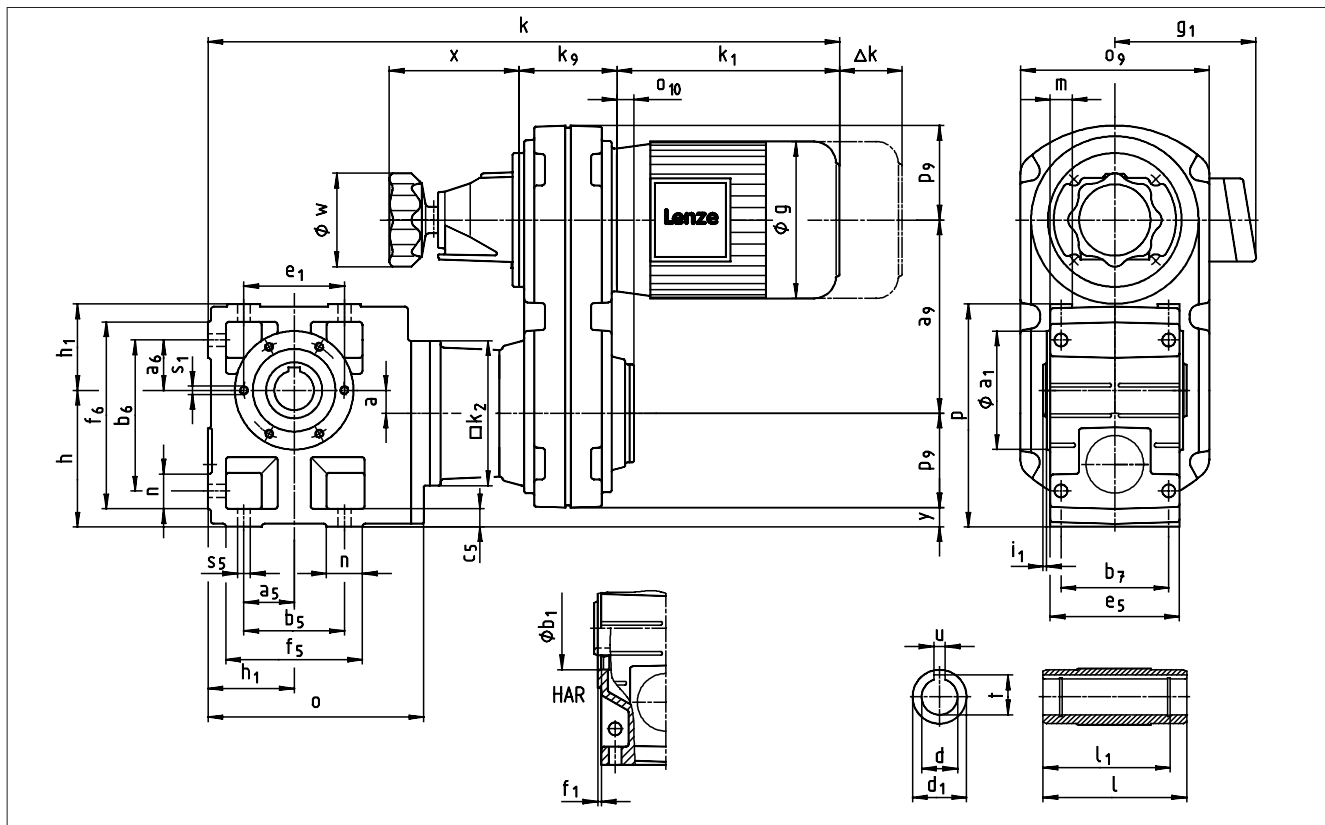
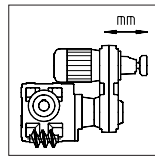
Dimensions in [mm] * Observe dimension k₂ ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

Observe dimensions z and y! (see page 5-106)

Only swivel positions 3 and 5 possible

Compact units

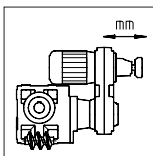
Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | |
|-----------------------|--------------------------------|------------|-----|---------|----------------|---------|--------------|---------|---------|---------|-----|-----|-----|-----|-----|
| GSS □□ - 2 K H □ R | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | |
| Motor position 1 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | | | | | |
| Variable speed drives | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | | | | | |
| | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | |
| | o | l* | p* | h | h ₁ | a | k | | | | | | | | |
| | GSS 04 | 181 | 115 | 171 | 100 | 71 | 20 | 532 | 589 | 619 | | | | | |
| | GSS 05 | 212 | 140 | 205 | 125 | 80 | 23 | | 611 | 641 | 659 | 742 | | 723 | |
| | GSS 06 | 255 | 160 | 250 | 150 | 100 | 26 | | 651 | 681 | | 782 | 797 | 763 | 876 |
| GSS 07 | 305 | 200 | 310 | 190 | 120 | 33 | | | | 742 | 825 | | 806 | 856 | 919 |

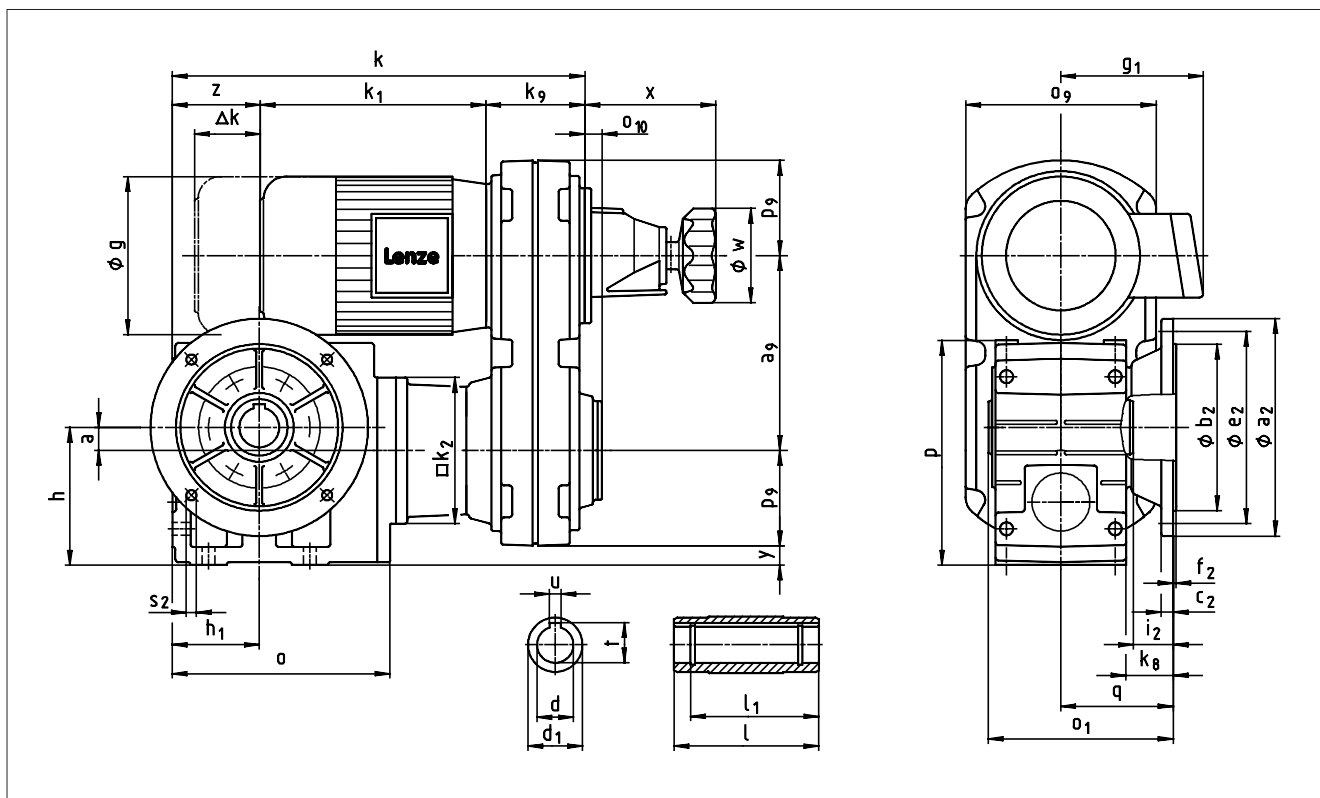
| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|--------------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | 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 | m | s ₅ |
| GSS 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 | 21 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-106)



Compact units

Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | |
|-----------------------|-----------------|------------------|-----|---------|----------------|---------|----------------|---------|--------------|---------|---------|-----|-----|-----|-----|-----|--|
| GSS □ □ - 2 K HAK | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 26F | 31G | 31G | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | | |
| | g ₁ | Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | |
| | | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | | |
| Δk | Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | | |
| Variable speed drives | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | |
| GSS 04 | 181 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 295 | 352 | 352 | | | | | | |
| GSS 05 | 212 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | | 374 | 374 | 392 | 392 | | 407 | | |
| GSS 06 | 255 | 201 | 250 | 150 | 100 | 26 | 49 | 121 | | 414 | 414 | | 432 | 447 | 447 | | |
| GSS 07 | 305 | 255 | 310 | 190 | 120 | 33 | 65 | 155 | | | | 475 | 475 | | 490 | 540 | |
| | | | | | | | | | | | | 540 | 571 | 573 | 573 | 587 | |

| Gearbox size | d H7 | l | Hollow shaft | | | | Output flange | | | | | | |
|--------------|----------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|------------------|
| | | | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ |
| GSS 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 |
| GSS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| GSS 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 |
| GSS 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 |

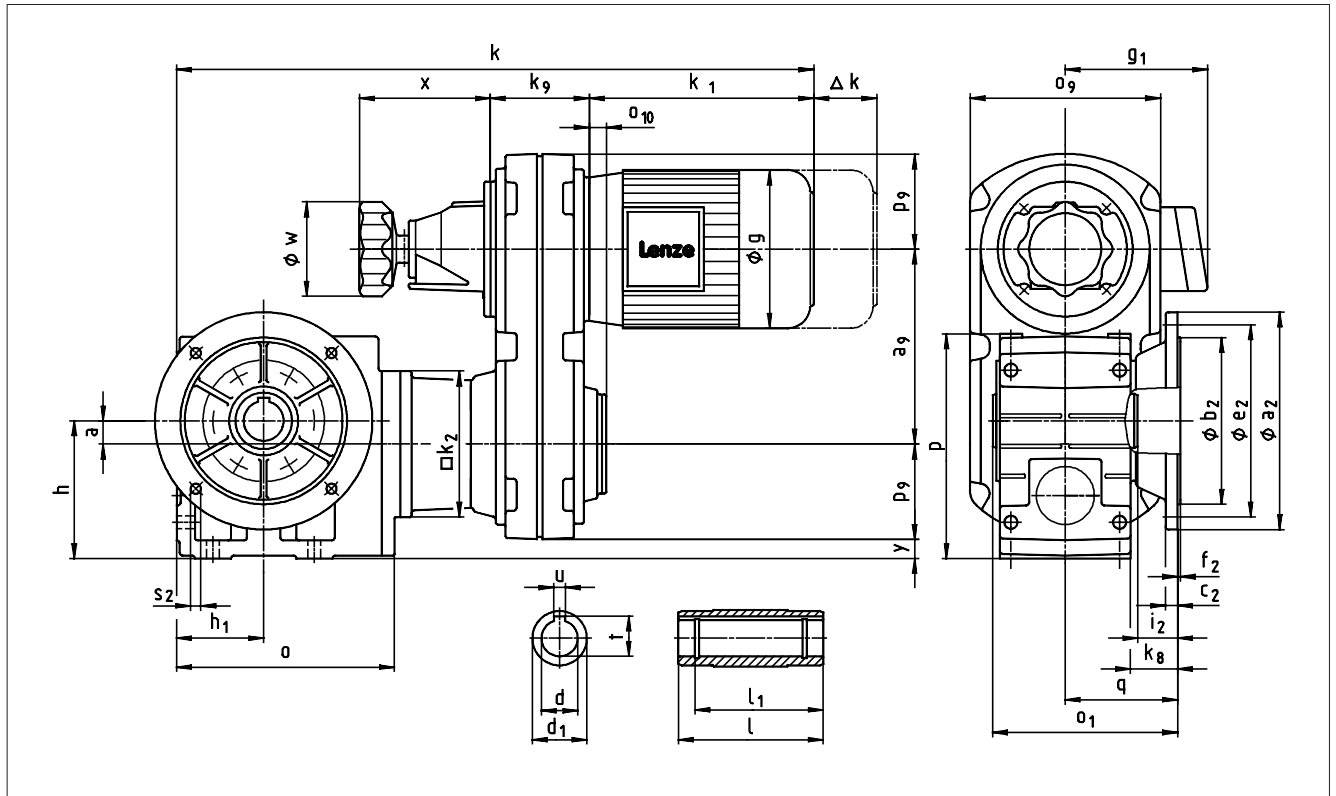
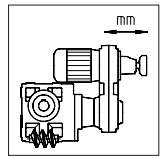
Dimensions in [mm] * Observe dimension k₂ ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

Observe dimensions z and y! (see page 5-106)

Only swivel positions 3 and 5 possible

Compact units

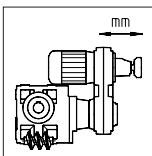
Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | |
|-----------------------|--------------------------------|------------------|-----|---------|----------------|---------|----------------|---------|--------------|---------|-----|-----|-----|-----|-----|
| GSS □□ - 2 K HAK | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | |
| Motor position 1 | | -12/-32 | -32 | -12/-32 | | -12/-32 | | -12/-32 | | -22/-32 | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | | | | | |
| Variable speed drives | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | |
| GSS 04 | 181 | 148 | 171 | 100 | 71 | 20 | 38 | 90.5 | 532 | 589 | 619 | | | | |
| GSS 05 | 212 | 173 | 205 | 125 | 80 | 23 | 40 | 103 | | 611 | 641 | 659 | 742 | | 723 |
| GSS 06 | 255 | 201 | 250 | 150 | 100 | 26 | 49 | 121 | | 651 | 681 | | 782 | 797 | 763 |
| GSS 07 | 305 | 255 | 310 | 190 | 120 | 33 | 65 | 155 | | | | 742 | 825 | | 806 |
| | | | | | | | | | | | | | | | 856 |
| | | | | | | | | | | | | | | | 919 |

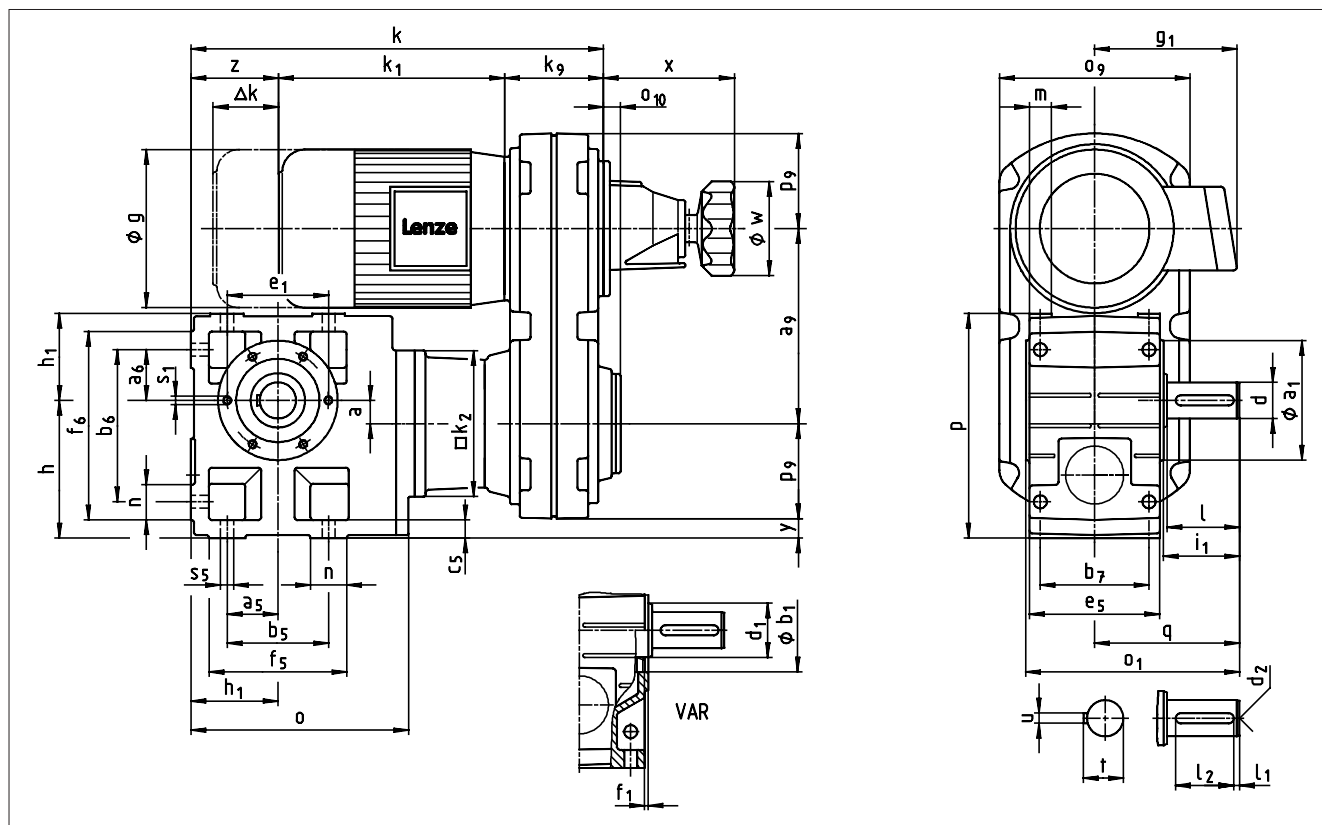
| Gearbox size | d H7 | l | Hollow shaft | | | | Output flange | | | | | | | |
|--------------|----------|-----|----------------|----------------|----------|--------------|----------------|----------------------|----------------|----------------|----------------|----------------|------------------|--|
| | | | d ₁ | l ₁ | u JS9 | t +0.2 | a ₂ | b ₂ j7 | c ₂ | e ₂ | f ₂ | i ₂ | s ₂ | |
| GSS 04 | 25 30 | 115 | 45 | 100 | 8 8 | 28.3 33.3 | 160 | 110 | 10 | 130 | 3.5 | 33 | 4 x 9 | |
| GSS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 | |
| GSS 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 | |
| GSS 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] * Observe dimension k₂ Observe dimension y! (see page 5-106)



Compact units

Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | | |
|-----------------------|--------------------------------|------------------|--------------|---------|----------------|---------|---------|---------|---------|---------|---------|-----|-----|-----|-----|-----|-----|
| GSS □□ - 2KV□□ | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 31G | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | | |
| | g ₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | | |
| | g ₁ Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | | |
| Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | | | |
| Variable speed drives | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | | | |
| Gearbox size | Gearbox | | Total length | | | | | | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | q | k | | | | | | | | | |
| | GSS 04 | 181 | 163 | 171 | 100 | 71 | 20 | 295 | 352 | 352 | | | | | | | |
| | GSS 05 | 212 | 197 | 205 | 125 | 80 | 23 | 374 | 374 | 392 | 392 | 407 | | | | | |
| | GSS 06 | 255 | 236 | 250 | 150 | 100 | 26 | 414 | 414 | 432 | 447 | 447 | 497 | 528 | 530 | 530 | |
| GSS 07 | 305 | 296 | 310 | 190 | 120 | 33 | | | 475 | 475 | 490 | 540 | 540 | 571 | 573 | 573 | 587 |

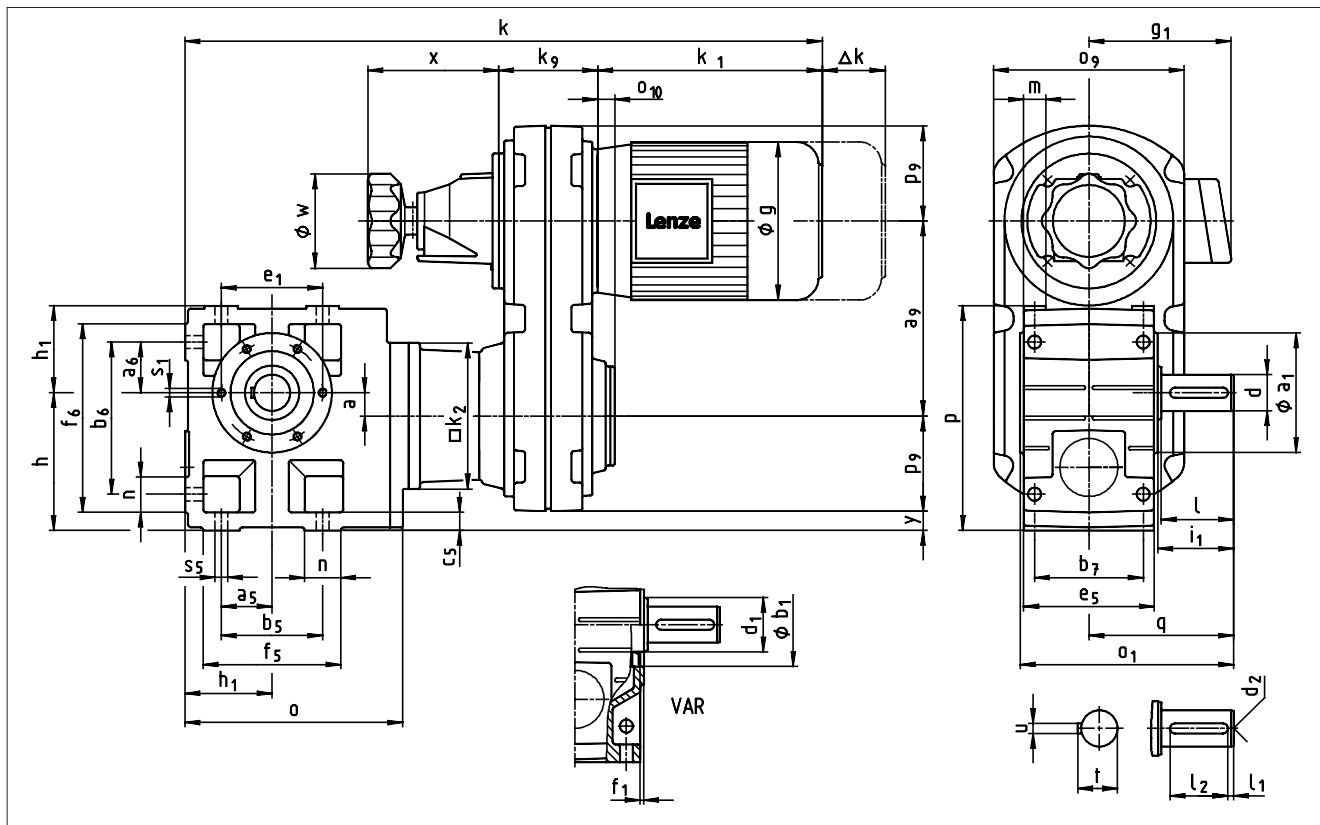
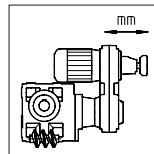
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|-------------------|----------------|----------------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | d k6 | 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 | m | s ₅ |
| GSS 04 | 25 | 50 | 45 | 4 | 40 | M10 | 8 | 28 | 105 | 75 | 90 | 3 | 52.5 | M6x12 | 45 | 45 | 90 | 119 | 85 | 14 | 105 | 112 | 141 | 22 | 21 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

Observe dimensions z and y! (see page 5-106) Only swivel positions 3 and 5 possible

Compact units

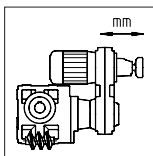
Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | |
|---------------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------|--------------|---------|---------|-----|-----|-----|-----|-----|
| GSS □□ - 2 K V □ R | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | |
| Motor position 1 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | q | k | | | | | | | |
| | GSS 04 | 181 | 163 | 171 | 100 | 71 | 20 | 532 | 589 | 619 | | | | | |
| | GSS 05 | 212 | 197 | 205 | 125 | 80 | 23 | | 611 | 641 | 659 | 742 | | 723 | |
| | GSS 06 | 255 | 236 | 250 | 150 | 100 | 26 | | 651 | 681 | | 782 | 797 | 763 | 876 |
| GSS 07 | 305 | 296 | 310 | 190 | 120 | 33 | | | | 742 | 825 | | 806 | 856 | 919 |

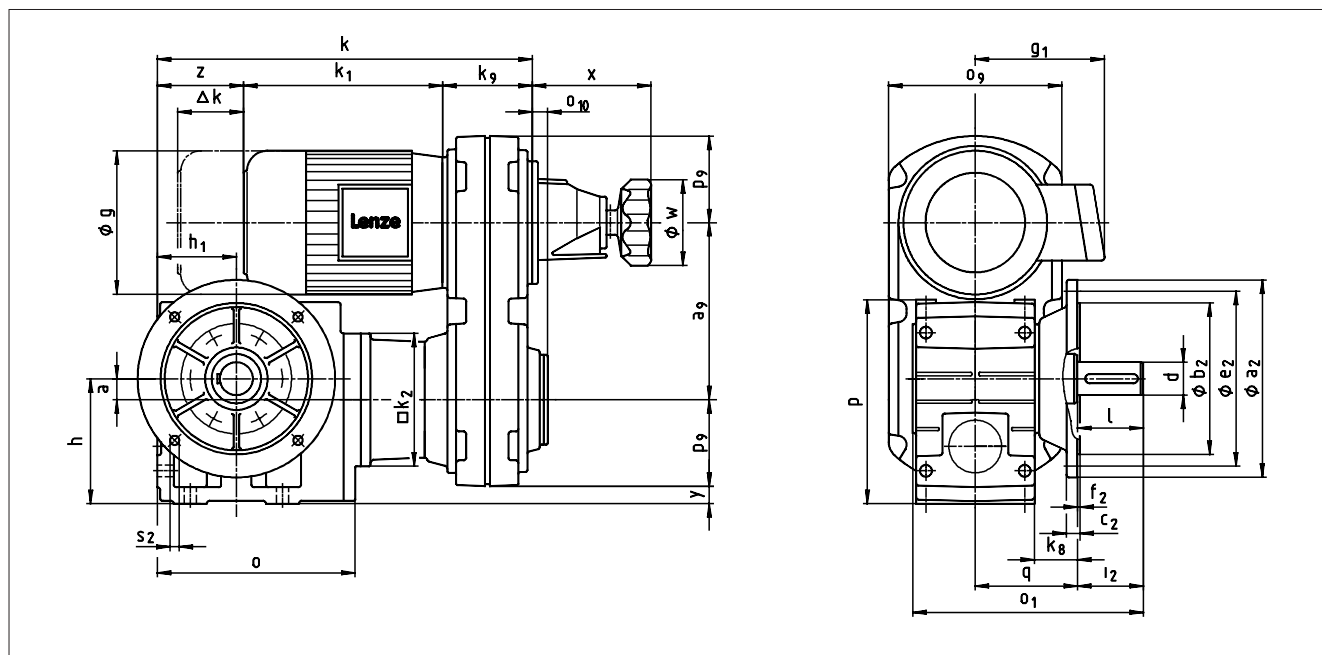
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d k6 | l | d₁ | l₁ | l₂ | d₂ | u | t | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ 6x60° | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GSS 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 | 21 | 9 |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-106)



Compact units

Dimensions with helical-worm gearboxes

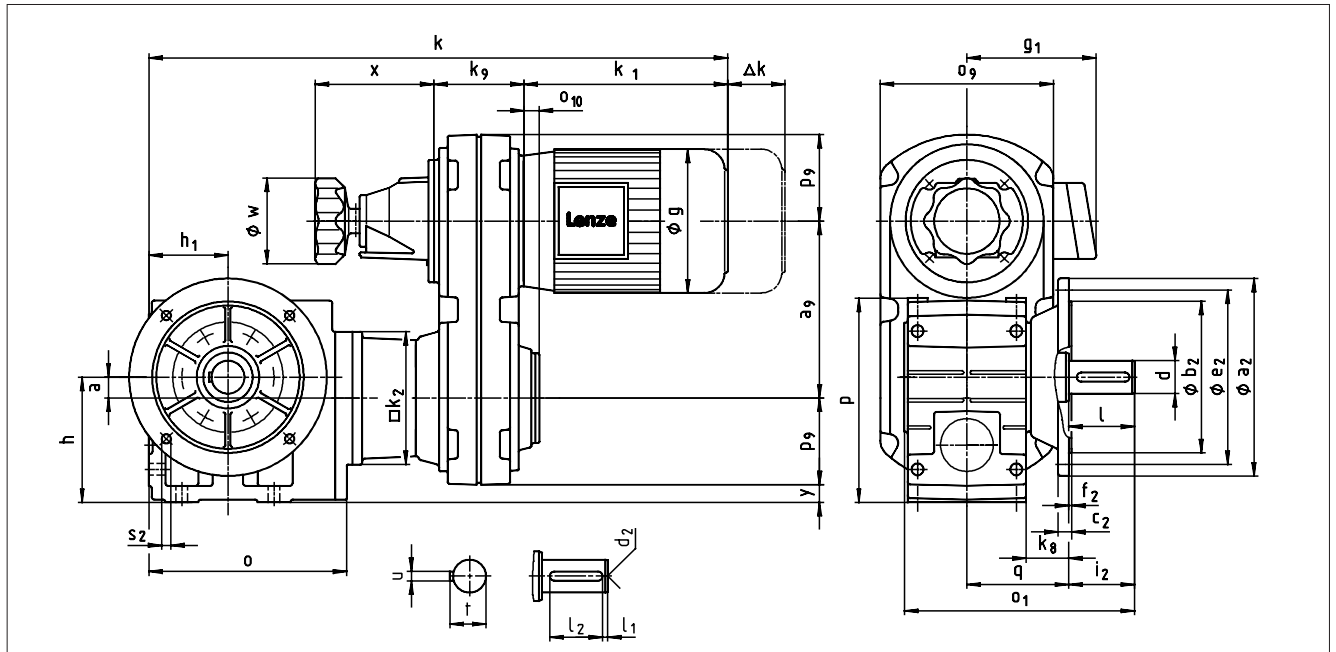
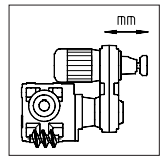


| Compact unit | | Drive size | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|---------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GSS □□ - 2 K VAK | | 071 | | 080 | | 090 | | 100** | | 112 | | 132 | | 160 | | 180 | | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | 31G | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 180 | 206 | 206 | 222 | 222 | 274 | 323 | 323 | 360 | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | 196 | 253 | 253 | 275 | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | 212 | 253 | 253 | 275 | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | 450 | 564 | 564 | 595 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | 63 | 120 | 120 | 122 | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 274 | 316 | 347 | 347 | 392 | 392 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 160 | 160 | 160 | 196 | 196 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 320 | 320 | 320 | 394 | 394 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 160 | 160 | 160 | 197 | 197 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 160 | 160 | 160 | 160 | 160 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 184 | 184 | 184 | 184 | 184 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 39 | 39 | 39 | 39 | 39 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 222 | 222 | 222 | 222 | 222 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | | | | | | | |
| | GSS 04 | 181 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 295 | 352 | 352 | | | | | | | | | | |
| | GSS 05 | 212 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | | 374 | 374 | 392 | 392 | | 407 | | | | | | |
| | GSS 06 | 255 | 277 | 250 | 150 | 100 | 26 | 49 | 121 | | 414 | 414 | | 432 | 447 | 447 | 497 | 528 | 530 | 530 | | |
| GSS 07 | 305 | 351 | 310 | 190 | 120 | 33 | 65 | 155 | | | | 475 | 475 | | 490 | 540 | 540 | 571 | 573 | 573 | 587 | 587 |

| Gearbox size | Solid shaft | | | | | | | Output 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 |
| GSS 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 |
| GSS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| GSS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 |
| GSS 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] * Observe dimension k₂ ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

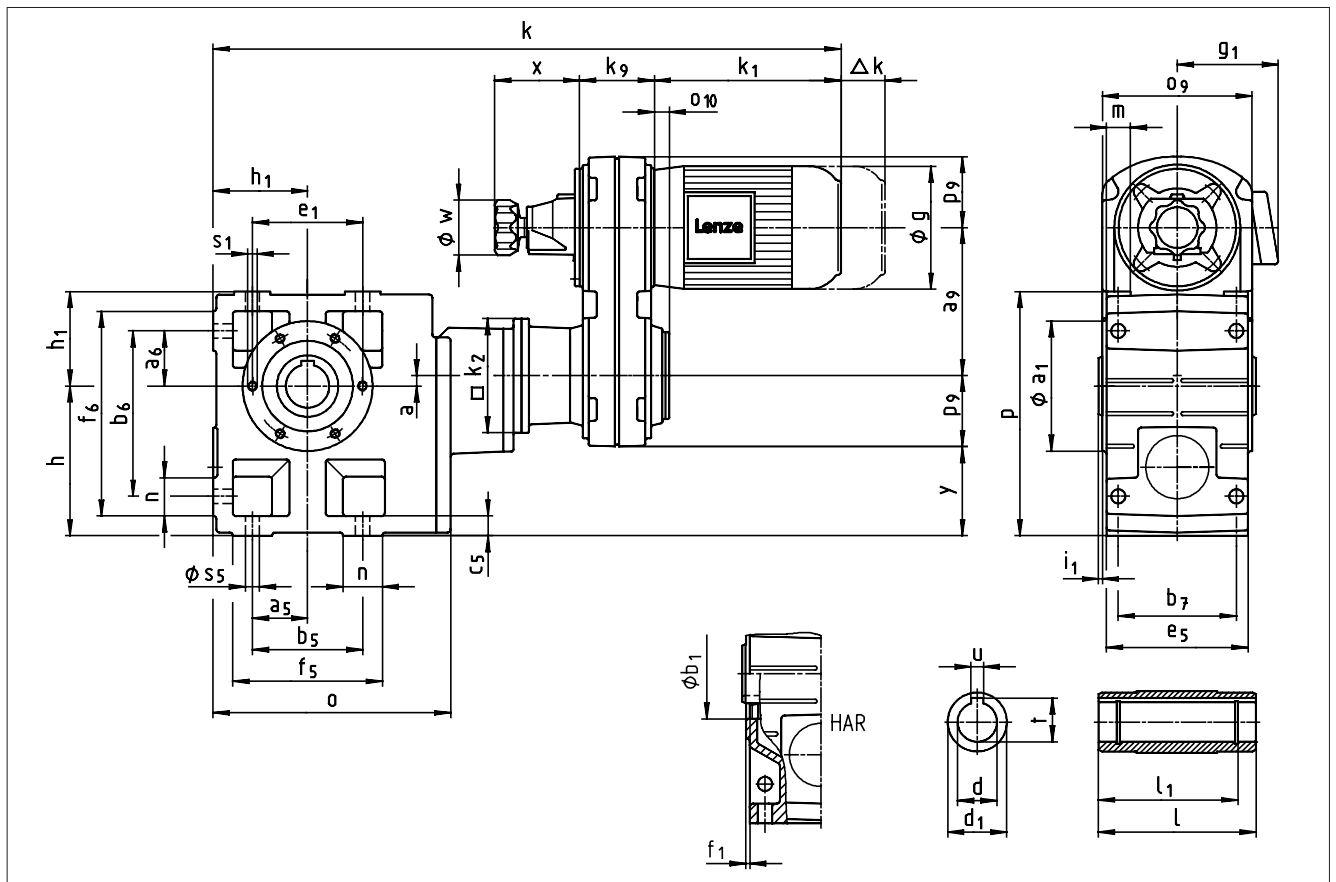
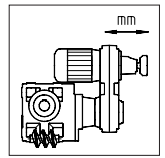
Observe dimensions z and y! (see page 5-106) Only swivel positions 3 and 5 possible



| Compact unit GSS □□ - 2 K VAK Motor position 1 | | Drive size | | | | | | | | | | | | | | | |
|---|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|----------|--------------|-----|-----|-----|-----|-----|-----|-----|
| | | 071 | | 080 | | 090 | | 100 | | 112 | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | | -12/-32 | | -12/-32 | | -22/-32 | | | | | | | |
| Motor | g | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 20E | 21E | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 147 | 140 | 140 | 174 | 174 | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 154 | 151 | 151 | 174 | 174 | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 350 | 316 | 316 | 379 | 379 | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 48 | 111 | 111 | 80 | 80 | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | 217 | 248 | 248 | 274 | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | 110 | 130 | 130 | 130 | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | 212 | 263 | 263 | 263 | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | 106 | 132 | 132 | 132 | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | 105 | 105 | 105 | 105 | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | 147 | 147 | 147 | 147 | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 27 | 27 | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | 145 | 180 | 180 | 180 | | | | | | |
| Gearbox size | Gearbox | | | | | | | | | Total length | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | | |
| | GSS 04 | 181 | 196 | 171 | 100 | 71 | 20 | 38 | 90.5 | 532 | 589 | 619 | | | | | |
| | GSS 05 | 212 | 230 | 205 | 125 | 80 | 23 | 40 | 103 | | 611 | 641 | 659 | 742 | | 723 | |
| | GSS 06 | 255 | 277 | 250 | 150 | 100 | 26 | 49 | 121 | | 651 | 681 | | 782 | 797 | 763 | |
| GSS 07 | 305 | 351 | 310 | 190 | 120 | 33 | 65 | 155 | | | | 742 | 825 | | 806 | 856 | 919 |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ | |
| GSS 04 | 25 | 50 | 4 | 40 | M10 | 8 | 28 | 160 | 110 | 10 | 130 | 3.5 | 50 | 4 x 9 | |
| GSS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GSS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GSS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |

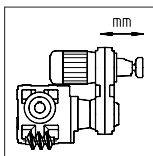
Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-106)



| Compact unit | | Drive size | | | | | | | | | | | | | | |
|---------------------------|--------------------------------------|------------|-----------|----------|----------------------|----------|--------------|--|-----|--|-----|--|-----|--|--|--|
| GSS □□ - 3 K H □ R | | 071 | | 080 | | 090 | 100 | | | | | | | | | |
| Motor position 1 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | Total length | | | | | | | | | |
| | o | l* | p* | h | h₁ | a | k | | | | | | | | | |
| GSS 05 | 209 | 140 | 205 | 125 | 80 | 13 | 630 | | 717 | | | | | | | |
| GSS 06 | 252 | 160 | 250 | 150 | 100 | 10 | 744 | | 744 | | | | | | | |
| GSS 07 | 299 | 200 | 310 | 190 | 120 | 12 | 798 | | 846 | | 929 | | 910 | | | |

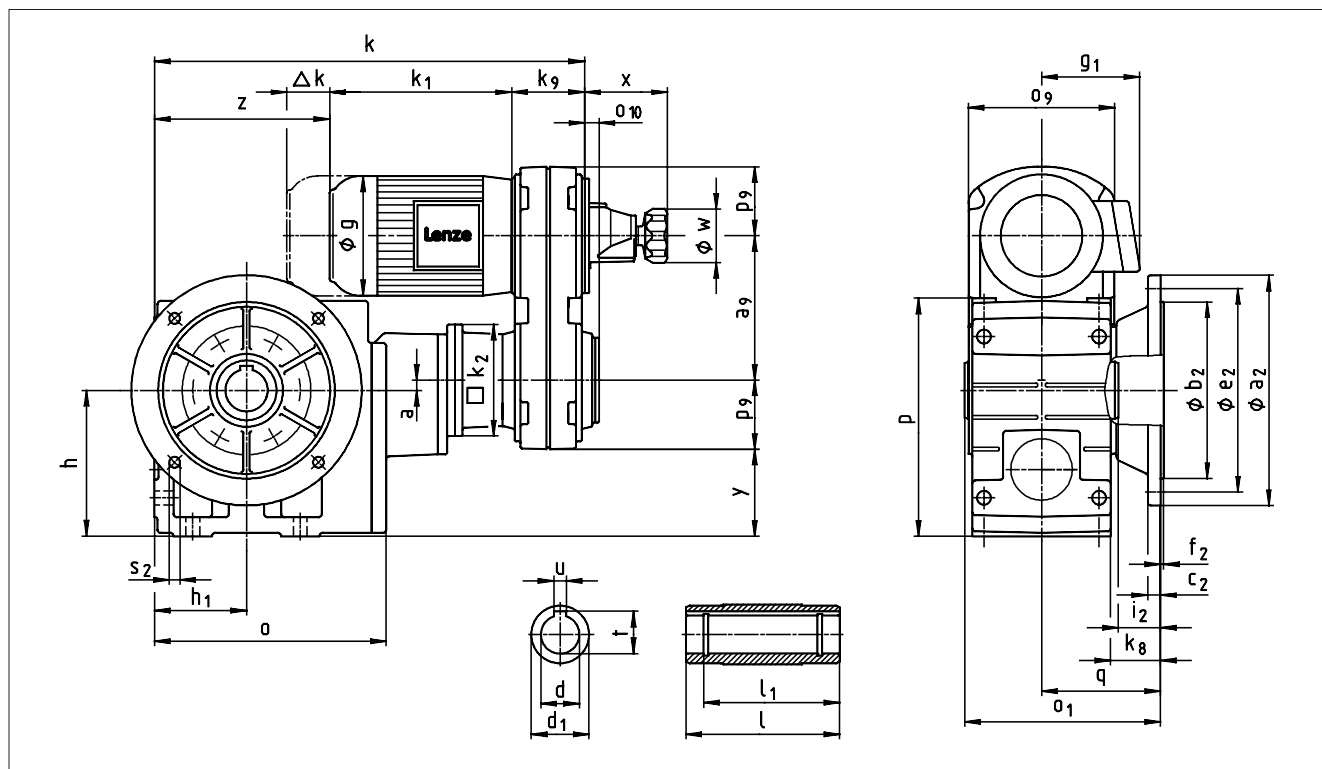
| Gearbox size | Hollow shaft | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|-----------------|------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|-------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|
| | d H7 | l | d₁ | l₁ | u JS9 | t +0.2 | a₁ | b₁ H7 | e₁ | f₁ | i₁ | s₁ 6x60° | a₅ | a₆ | b₅ | b₆ | b₇ | c₅ | e₅ | f₅ | f₆ | n | m | s₅ |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k_2 Observe dimension y ! (see page 5-107)



Compact units

Dimensions with helical-worm gearboxes



| Compact unit GSS <input type="checkbox"/> <input type="checkbox"/> - 3 K HAK Motor position 6 | | Drive size | | | | | | | | | | | | |
|--|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|-----|-----|-----|--|-----|
| | | 071 | | 080 | | 090 | 100** | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | | -12/-32 | -12/-32 | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | |
| GSS 05 | 209 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 393 | | | | | |
| GSS 06 | 252 | 201 | 250 | 150 | 100 | 10 | 49 | 121 | | 507 | | | | |
| GSS 07 | 299 | 255 | 310 | 190 | 120 | 12 | 65 | 155 | | 561 | 579 | 579 | | 594 |

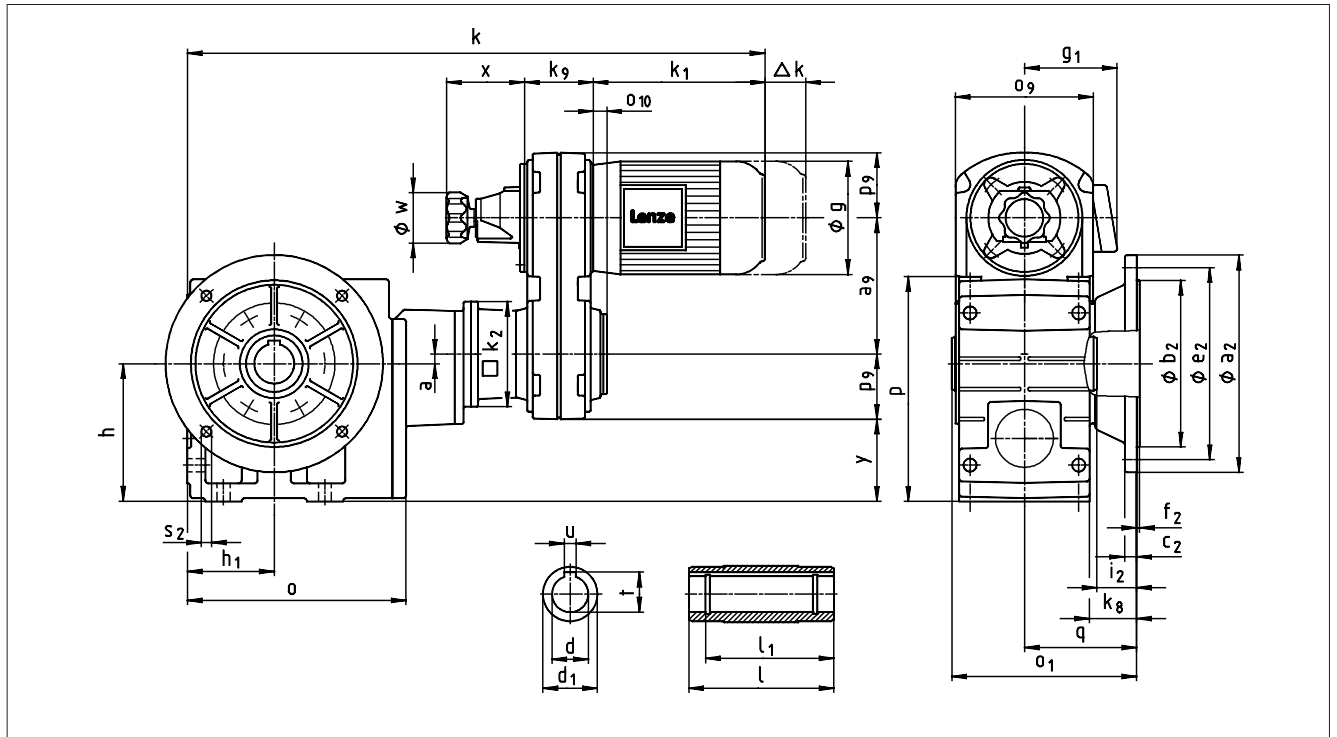
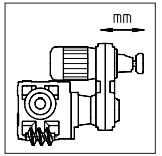
| Gearbox size | Hollow shaft | | | | | | Output flange | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|-----------------|------------------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | d H7 | l | d₁ | l₁ | u JS9 | t +0.2 | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ |
| GSS 05 | 30 35 | 140 | 50 | 124 | 8 10 | 33.3 38.3 | 200 | 130 | 12 | 165 | 3.5 | 33 | 4 x 11 |
| GSS 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 |
| GSS 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] * Observe dimension **k₂** ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

Observe dimensions **z** and **y**! (see page 5-107) Only swivel positions 3 and 5 possible

Compact units

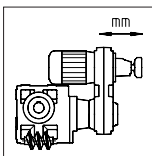
Dimensions with helical-worm gearboxes



| Compact unit GSS □□ - 3 K HAK Motor position 1 | | Drive size | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|------------------|-----|---------|----------------|---------|----------------|-----|--------------|-----|--|--|--|-----|-----|--|--|--|--|-----|
| | | 071 | | 080 | | 090 | 100 | | | | | | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | | -12/-32 | -12/-32 | | | | | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | | | | | | | |
| | g ₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | | | | | | | |
| | k ₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | | | | | | | |
| Variable speed drives | a ₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | | | | | | | |
| | k ₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | | | | | | | |
| | o ₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | | | | | | | |
| | p ₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | | | | | | | |
| | o ₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | | | | | |
| Housing | k ₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | | | | | |
| | o | o ₁ * | p* | h | h ₁ | a | k ₈ | q | k | | | | | | | | | | | |
| GSS 05 | 209 | 173 | 205 | 125 | 80 | 13 | 40 | 103 | 630 | | | | | | | | | | | |
| GSS 06 | 252 | 201 | 250 | 150 | 100 | 10 | 49 | 121 | | 744 | | | | | | | | | | |
| GSS 07 | 299 | 255 | 310 | 190 | 120 | 12 | 65 | 155 | | 798 | | | | 846 | 929 | | | | | 910 |

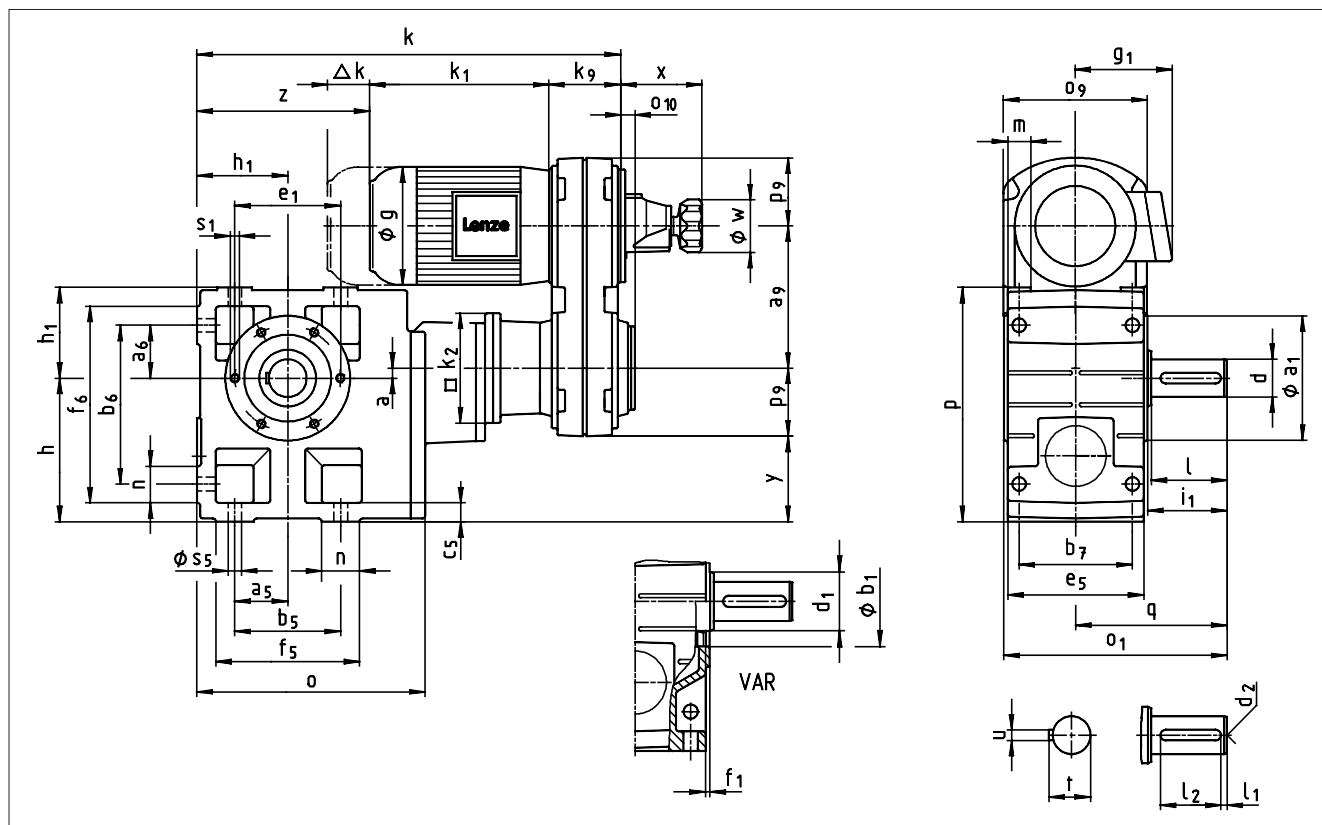
| Gearbox size | d H7 | l | Hollow shaft | | | | Output flange | | | | | | | |
|--------------|---------|-----|----------------|----------------|----------|-----------|----------------|----------------------|----------------|----------------|----------------|----------------|----------------|-----|
|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

Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-107)



Compact units

Dimensions with helical-worm gearboxes



| Compact unit | | Drive size | | | | | | | | | | | | | | |
|-----------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------|--------------|-----|-----|-----|-----|--|--|-----|--|
| GSS □□ - 3KV□□ | | 071 | | 080 | | 090 | 100** | | | | | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | | -12/-32 | -12/-32 | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | | | |
| Variable speed drives | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | | | |
| | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | |
| Housing | | | | | | | | | | | | | | | | |
| | | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | q | k | | | | | | | | |
| | GSS 05 | 209 | 197 | 205 | 125 | 80 | 13 | 130 | 393 | | 450 | | | | | |
| | GSS 06 | 252 | 236 | 250 | 150 | 100 | 10 | 160 | | 507 | 507 | | | | | |
| GSS 07 | 299 | 296 | 310 | 190 | 120 | 12 | 200 | | 561 | | 579 | 579 | | | 594 | |

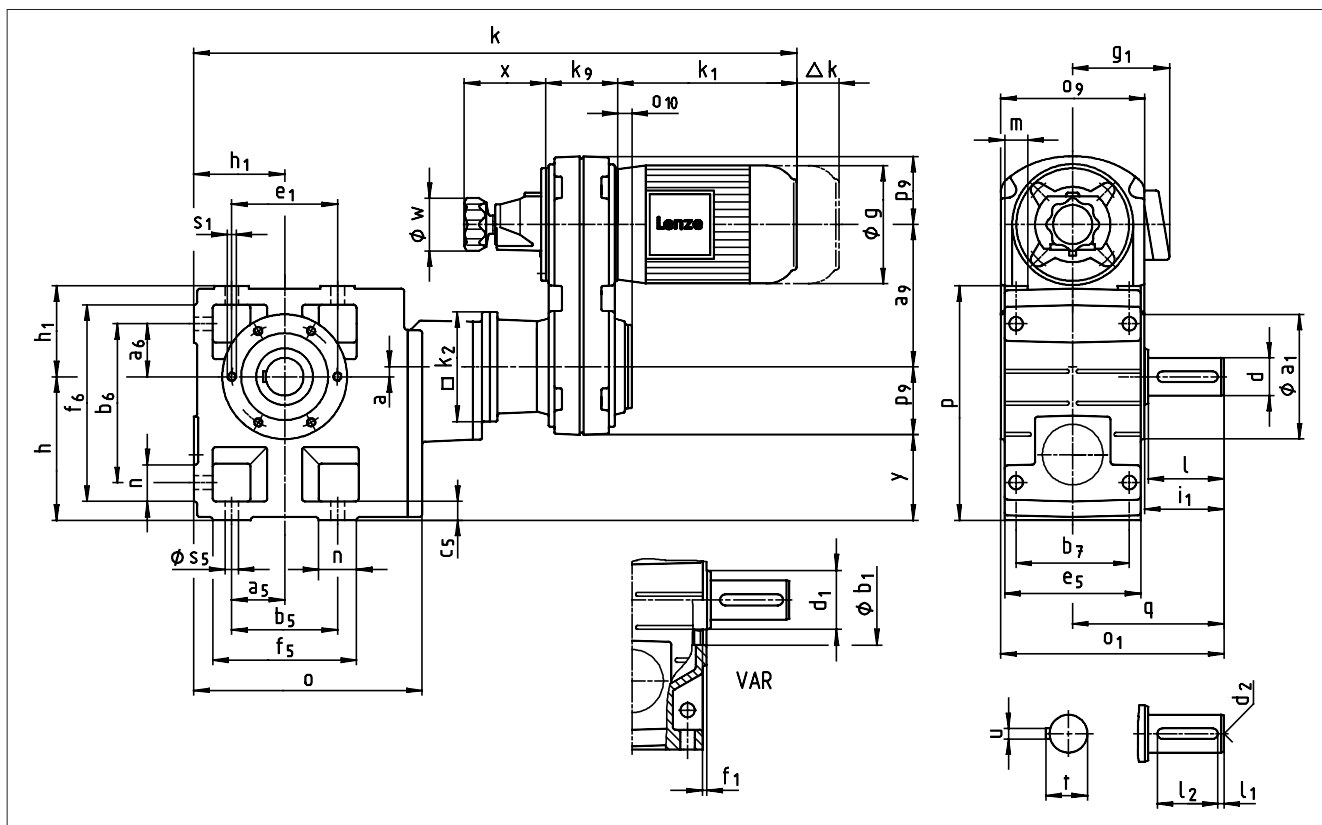
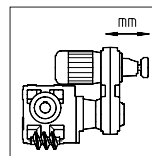
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | | Foot | | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | d | l | d ₁ | l ₁ | l ₂ | d ₂ | u | t | a ₁ | b ₁ | 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 | m | s ₅ |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

Observe dimensions z and y! (see page 5-107) Only swivel positions 3 and 5 possible

Compact units

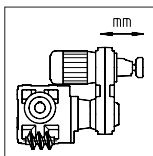
Dimensions with helical-worm gearboxes



| Compact unit GSS □□ - 3 K V □ R Motor position 1 | | Drive size | | | | | | | | | | | | | | | |
|---|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------|--------------|-----|-----|--|-----|-----|--|--|-----|--|
| | | 071 | | 080 | | 090 | 100 | | | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | | -12/-32 | -12/-32 | | | | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | Total length | | | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | q | k | | | | | | | | | |
| | GSS 05 | 209 | 197 | 205 | 125 | 80 | 13 | 130 | 630 | | | 717 | | | | | |
| | GSS 06 | 252 | 236 | 250 | 150 | 100 | 10 | 160 | | 744 | | 774 | | | | | |
| GSS 07 | 299 | 296 | 310 | 190 | 120 | 12 | 200 | | 798 | | | 846 | 929 | | | 910 | |

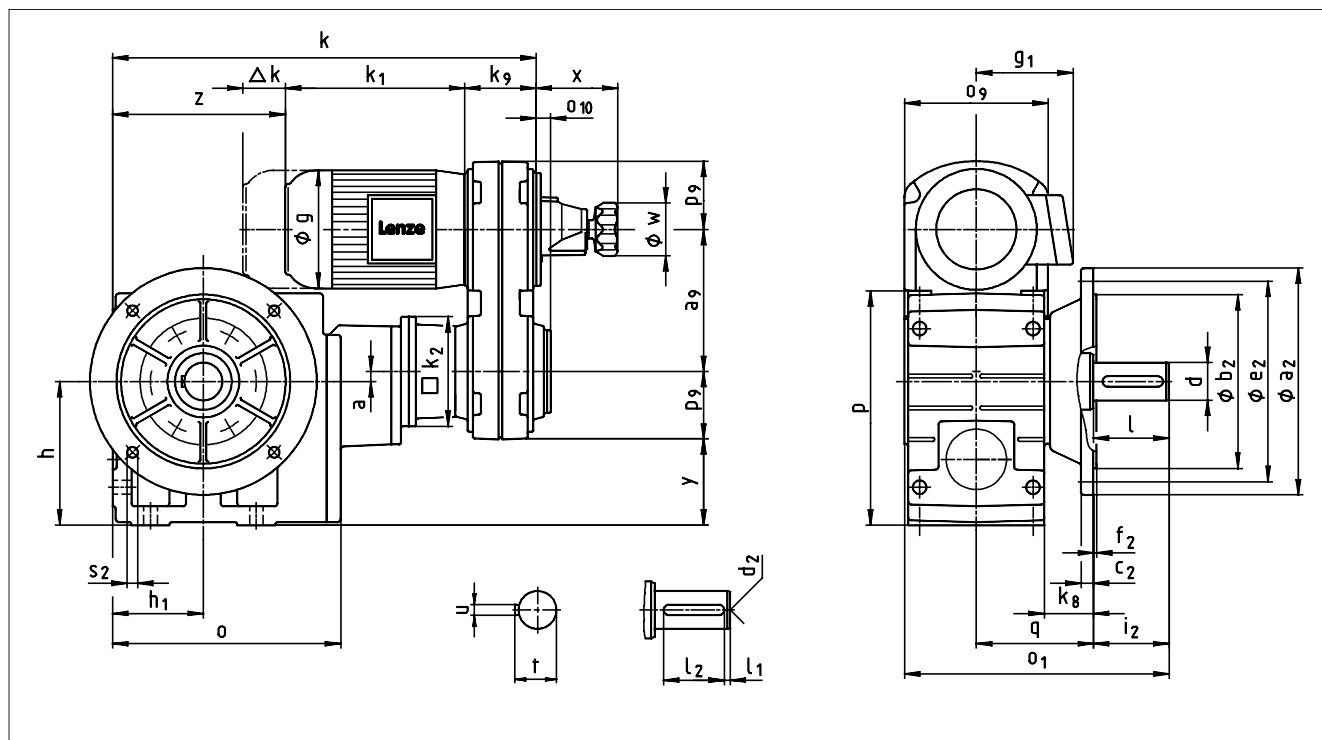
| Gearbox size | Solid shaft | | | | | | | | Pitch circle | | | | | Foot | | | | | | | | | | | | |
|--------------|-------------|-----|----------------|----------------|----------------|----------------|----|------|----------------|----------------------|----------------|----------------|----------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----------------|
| | d k6 | 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 | m | s ₅ |
| GSS 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 | 21 | 11 |
| GSS 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 | 23 | 14 |
| GSS 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 | 28 | 18 |

Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-107)



Compact units

Dimensions with helical-worm gearboxes

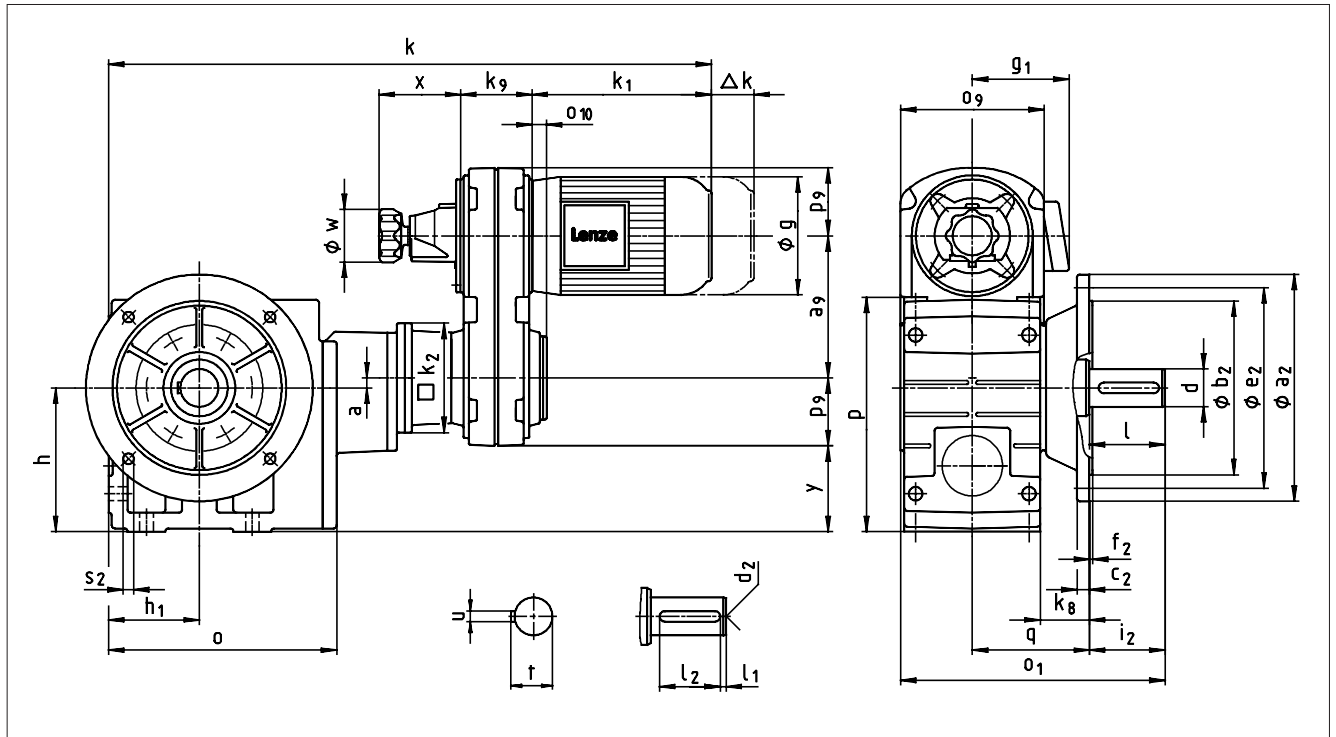
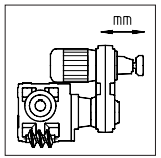


| Compact unit | | Drive size | | | | | | | | | | | | |
|--------------------------|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|-----|-----|-----|-----|-----|
| GSS □ □ - 3 K VAK | | 071 | | 080 | | 090 | 100** | | | | | | | |
| Motor position 6 | | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | | | | | | | |
| | | 10B | 13C | 13C | 14D | 14D | 16D | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | |
| GSS 05 | 209 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 393 | | 450 | | | |
| GSS 06 | 252 | 277 | 250 | 150 | 100 | 10 | 49 | 121 | | 507 | 507 | | | |
| GSS 07 | 299 | 351 | 310 | 190 | 120 | 12 | 65 | 155 | | 561 | | 579 | 579 | 594 |

| Gearbox size | Solid shaft | | | | | | | Output flange | | | | | | |
|--------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ |
| GSS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 |
| GSS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 |
| GSS 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] * Observe dimension k_2 ** with swivel position 2 only terminal box position 2 possible, fan cover flat on opposite side of terminal box, when using other motors: observe distance between motor and gearbox!

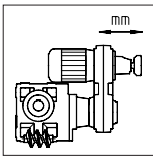
Observe dimensions z and y ! (see page 5-107) Only swivel positions 3 and 5 possible



| Compact unit GSS □□ - 3 K VAK Motor position 1 | | Drive size | | | | | | | | | | | | | | |
|---|--------------------------------------|-----------------------|-----------|----------|----------------------|----------|----------------------|----------|--------------|-----|-----|-----|-----|--|--|-----|
| | | 071 | | 080 | | 090 | 100 | | | | | | | | | |
| | | -12/-32 | -32 | -12/-32 | | -12/-32 | -12/-32 | | | | | | | | | |
| Motor | g | 143 | 143 | 160 | 160 | 180 | 206 | | | | | | | | | |
| | g₁ Without options | 128 | 128 | 137 | 137 | 147 | 140 | | | | | | | | | |
| | Brake motor | 131 | 131 | 142 | 142 | 154 | 151 | | | | | | | | | |
| | k₁ | 237 | 237 | 267 | 267 | 350 | 316 | | | | | | | | | |
| | Δk Brake | 54 | 54 | 36 | 36 | 48 | 111 | | | | | | | | | |
| Variable speed drives | a₉ | 136 | 173 | 173 | 193 | 193 | 217 | | | | | | | | | |
| | k₉ | 65 | 95 | 95 | 95 | 95 | 110 | | | | | | | | | |
| | o₉ | 135 | 180 | 180 | 180 | 180 | 212 | | | | | | | | | |
| | p₉ | 67 | 90 | 90 | 90 | 90 | 106 | | | | | | | | | |
| | w | 70 | 70 | 70 | 70 | 70 | 105 | | | | | | | | | |
| | x | 100 | 108 | 108 | 108 | 108 | 147 | | | | | | | | | |
| | o₁₀ | 17 | 17 | 17 | 17 | 17 | 17 | | | | | | | | | |
| Housing | k₂ | 115 | 145 | 145 | 145 | 145 | 145 | | | | | | | | | |
| Gearbox size | Gearbox | | | | | | | | Total length | | | | | | | |
| | o | o₁* | p* | h | h₁ | a | k₈ | q | k | | | | | | | |
| GSS 05 | 209 | 230 | 205 | 125 | 80 | 13 | 40 | 103 | 630 | | 717 | | | | | |
| GSS 06 | 252 | 277 | 250 | 150 | 100 | 10 | 49 | 121 | | 744 | 774 | | | | | |
| GSS 07 | 299 | 351 | 310 | 190 | 120 | 12 | 65 | 155 | | 798 | | 846 | 929 | | | 910 |

| Gearbox size | Solid shaft | | | | | | | | Output flange | | | | | | |
|---------------------|----------------|----------|----------------------|----------------------|----------------------|----------|----------|----------------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| | d k6 | l | l₁ | l₂ | d₂ | u | t | a₂ | b₂ j7 | c₂ | e₂ | f₂ | i₂ | s₂ | |
| GSS 05 | 30 | 60 | 6 | 45 | M10 | 8 | 33 | 200 | 130 | 12 | 165 | 3.5 | 60 | 4 x 11 | |
| GSS 06 | 40 | 80 | 7 | 63 | M16 | 12 | 43 | 250 | 180 | 14.5 | 215 | 4 | 80 | 4 x 14 | |
| GSS 07 | 50 | 100 | 8 | 80 | M16 | 14 | 53.5 | 250 300 | 180 230 | 14.5 16.5 | 215 265 | 4 | 100 | 4 x 14 | |

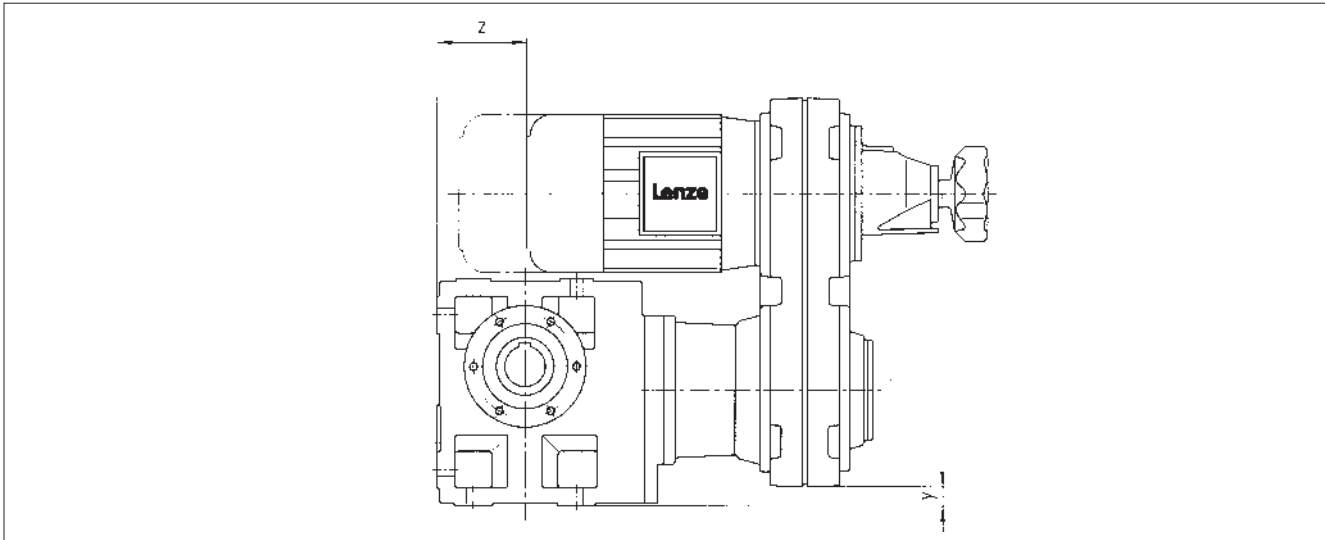
Dimensions in [mm] * Observe dimension k₂ Observe dimension y! (see page 5-107)



Compact units

Dimensions with helical-worm gearboxes

Test dimensions



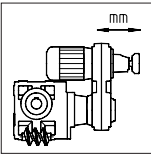
| Compact unit GSS □ □ - 2 K H □ R Motor position 6 | Drive size | | | | | | | | | | | | | | |
|--|-------------------------|-----|---------|---------|---------|---------|---------|---------|---------|---------|-----|------|------|------|-----|
| | 071 | | 080 | | 090 | | 100 | | 112 | | 132 | | 160 | | 180 |
| | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 | -22/-32 | -22/-32 | -22/-32 | -22/-32 | -22 | -32 | -22 | -32 | -22 |
| | 10B | 13C | 13C | 14D | 14D | 16D | 16D | 20E | 21E | 25F | 26F | 26F | 31G | 31G | |
| Gearbox size | Test dimension z | | | | | | | | | | | | | | |
| GSS 04 | -7 | 20 | -10 | | | | | | | | | | | | |
| GSS 05 | | 42 | 12 | 30 | -54 | | -20 | | | | | | | | |
| GSS 06 | | 82 | 52 | | -14 | -14 | 21 | | -13 | -12 | -81 | -195 | | | |
| GSS 07 | | | | 113 | 30 | | 64 | 94 | 31 | 32 | -38 | -152 | -174 | -205 | |
| | Test dimension y | | | | | | | | | | | | | | |
| GSS 04 | 13 | -10 | -10 | | | | | | | | | | | | |
| GSS 05 | | 12 | 12 | 12 | 12 | | -4 | | | | | | | | |
| GSS 06 | | 34 | 34 | | 34 | 18 | 18 | | -8 | -36 | -36 | -36 | | | |
| GSS 07 | | | | 67 | 67 | | 51 | 25 | 25 | -3 | -3 | -3 | -40 | -40 | |

Dimensions in [mm]

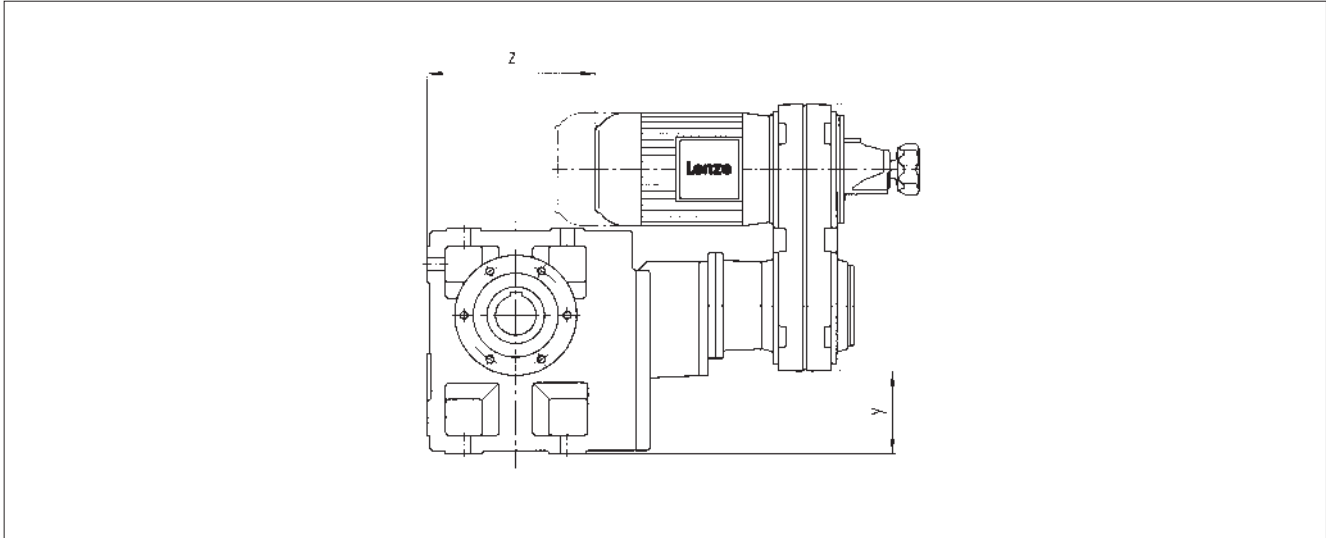
5

Compact units

Dimensions with helical-worm gearboxes

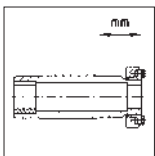


Test dimensions



| Compact unit GSS □ □ - 3 K □ □ □ □ | Drive size | | | | | |
|---|-------------------------|-----|---------|---------|---------|---------|
| | 071 | | 080 | | 090 | 100 |
| | -12/-32 | -32 | -12/-32 | -12/-32 | -12/-32 | -12/-32 |
| | 10B | 13C | 13C | 14D | 14D | 16D |
| Gearbox size | Test dimension z | | | | | |
| GSS 05 | 91 | | 88 | | | |
| GSS 06 | | 175 | 145 | | | |
| GSS 07 | | 229 | | 217 | 134 | 168 |
| | Test dimension y | | | | | |
| GSS 05 | 71 | | 48 | | | |
| GSS 06 | | 70 | 70 | | | |
| GSS 07 | | 112 | | 112 | 112 | 96 |

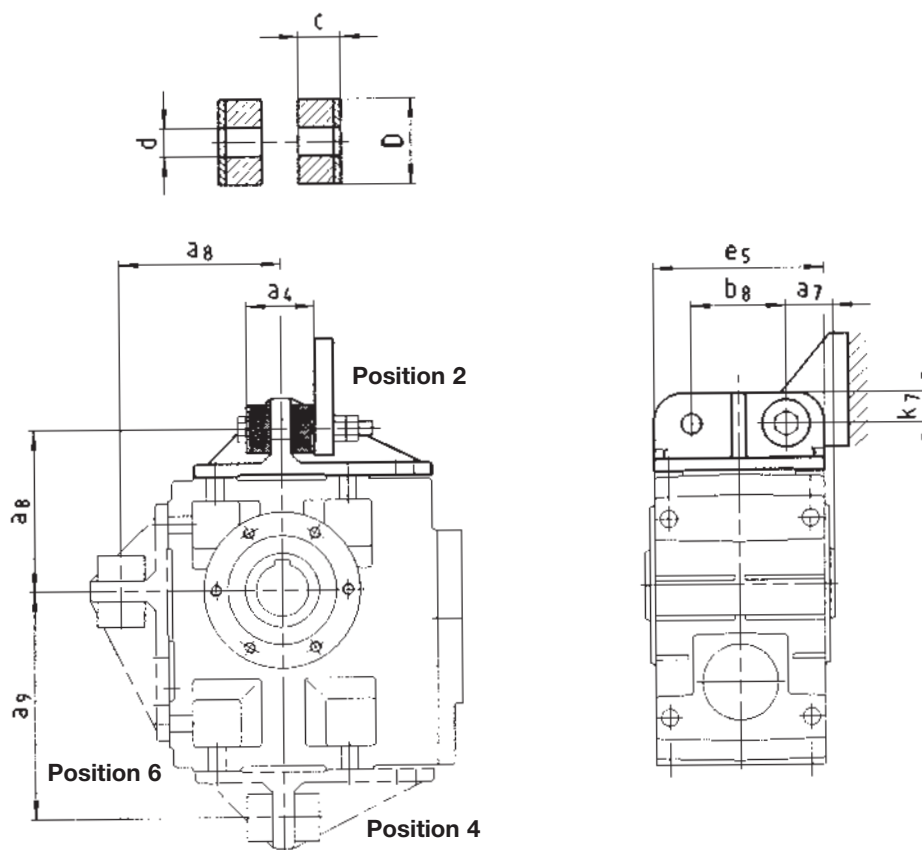
Dimensions in [mm]



Compact units

Additional dimensions GSS

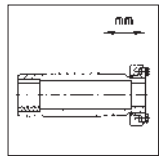
Torque plate at housing foot



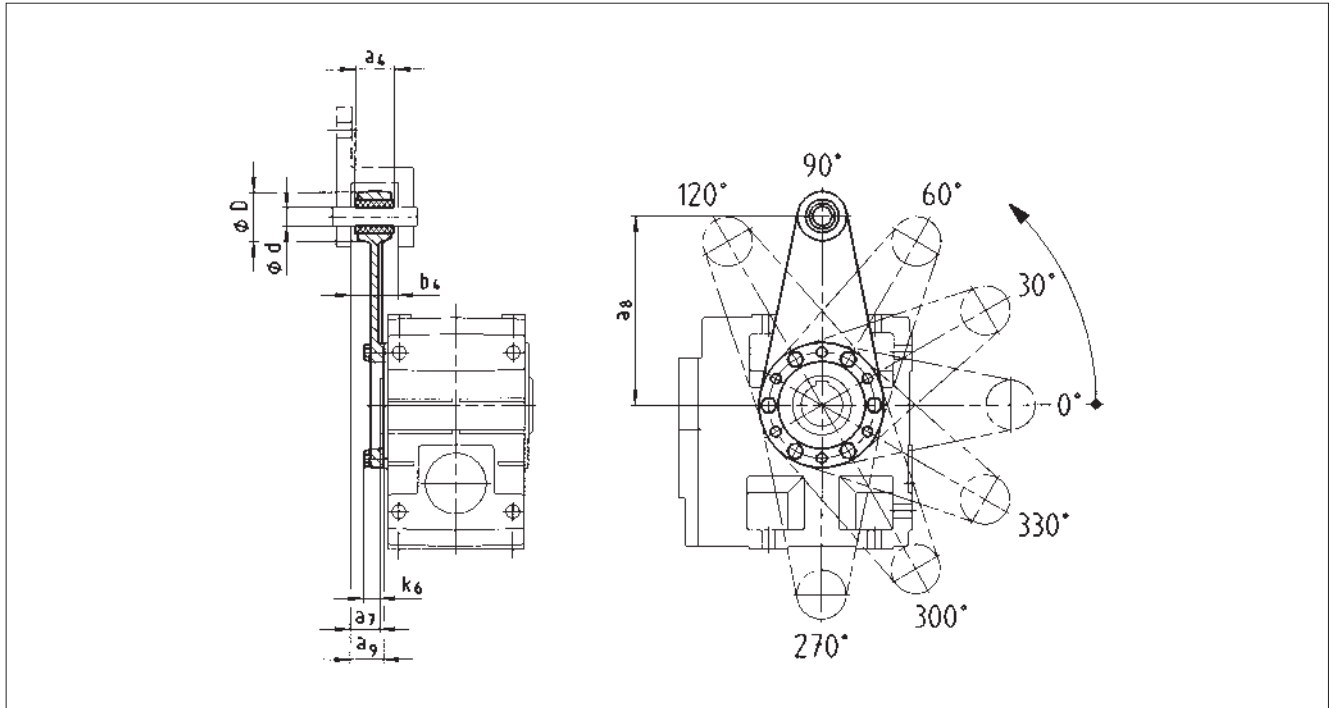
5

| Gearbox size | a ₄ | a ₇ | a ₈ | a ₉ | b ₈ | c | d | D | e ₅ | k ₇ |
|--------------|----------------|----------------|----------------|----------------|----------------|------|----|----|----------------|----------------|
| GSS 04 | 41 | 27.5 | 106 | 135 | 60 | 14.5 | 11 | 30 | 100 | 20 |
| GSS 05 | 45 | 35 | 115 | 160 | 70 | 15 | 13 | 40 | 127 | 25 |
| GSS 06 | 72 | 40 | 145 | 195 | 80 | 27 | 17 | 50 | 145 | 30 |
| GSS 07 | 78 | 50 | 170 | 240 | 100 | 28 | 21 | 60 | 180 | 35 |

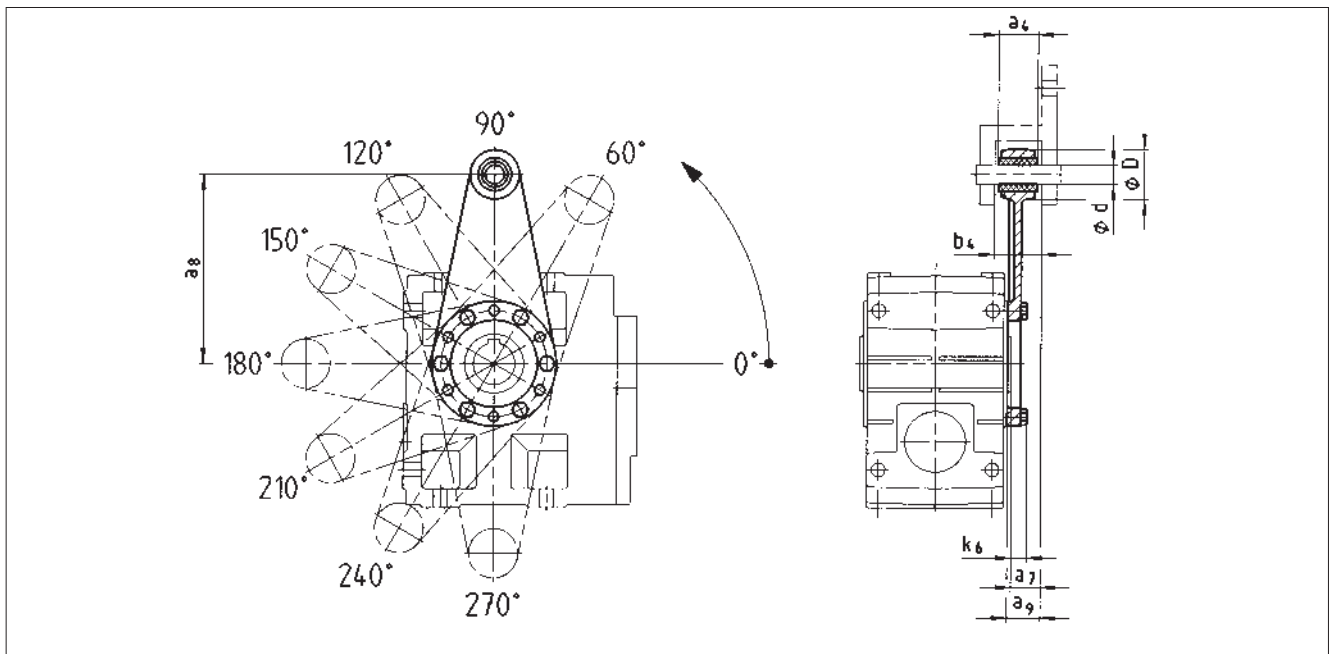
Dimensions in [mm]



Torque plate at pitch circle in position 3

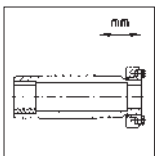


Torque plate at pitch circle in position 5



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

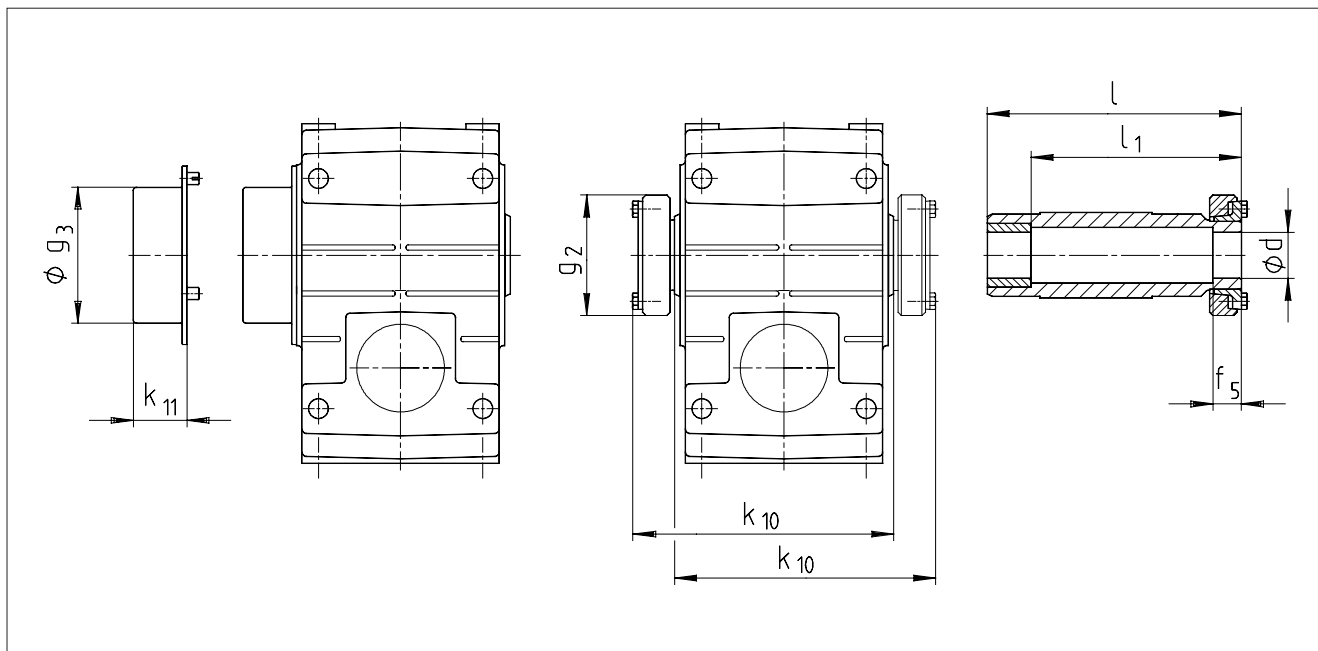
Dimensions in [mm]



Compact units

Additional dimensions GSS □ □

Hollow shaft with shrink disc

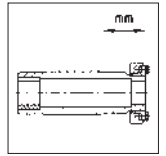


| Gearbox size | Machine shaft | | Hollow shaft | | | Gearbox* | | Protection cover | |
|--------------|---------------|-----|--------------|----------------|----------------|----------------|-----------------|------------------|-----------------|
| | d | Fit | l | l ₁ | f ₅ | g ₂ | k ₁₀ | g ₃ | k ₁₁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

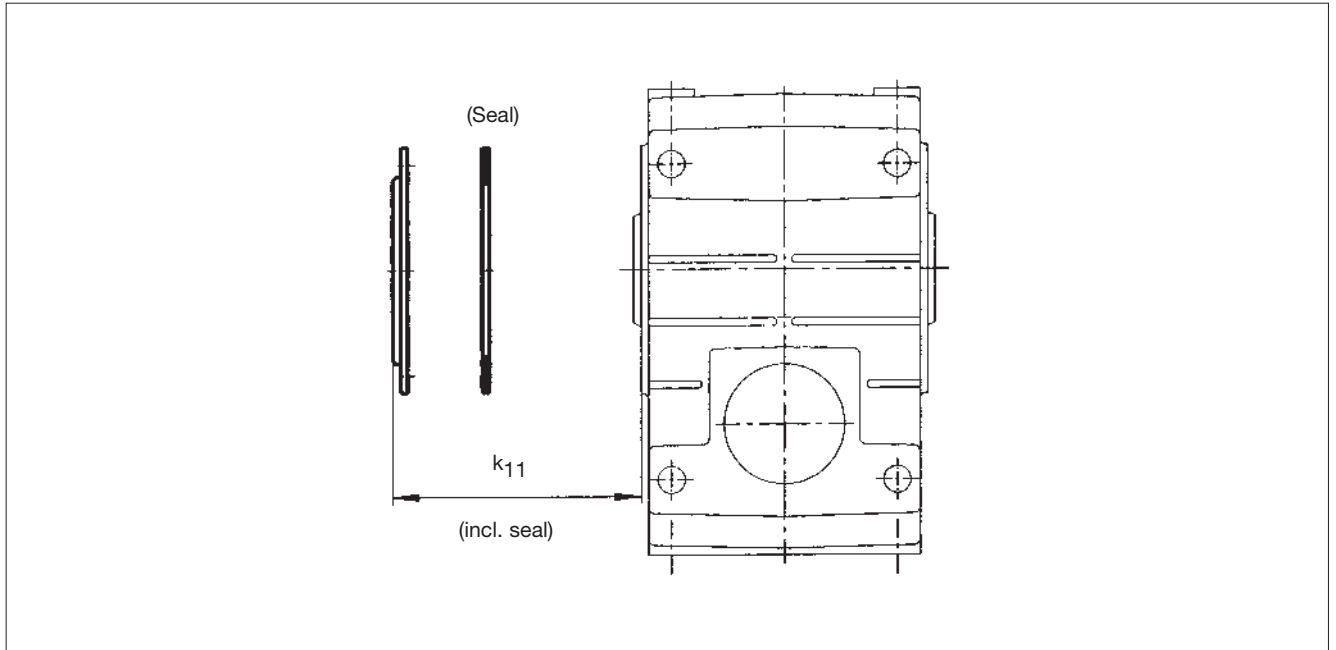
* Ensure sufficient strength of shaft material for shrink disc designs. When using customary steel (e.g. C45, 42CrMo4), the torques indicated in the selection tables can be transferred without any reservation. When using materials of a lower strength, please contact Lenze.

The average peak-to-valley height R_z should not exceed 15 μm . (Turning operation is sufficient).

Dimensions in [mm]

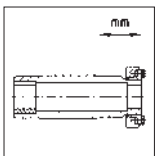


Hollow shaft protection cover – jet-proof



| Gearbox size | Protection cover k ₁₁ |
|--------------|-------------------------------------|
| GSS 04 | 9 |
| GSS 05 | 10 |
| GSS 06 | 11 |
| GSS 07 | 11 |

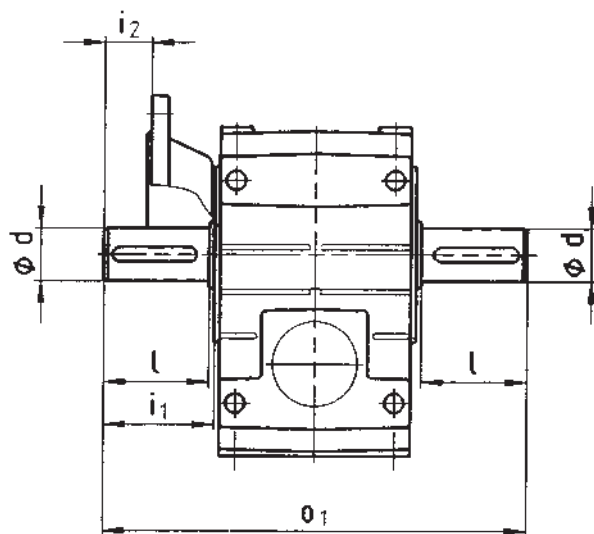
Dimensions in [mm]



Compact units

Additional dimensions GSS □ □

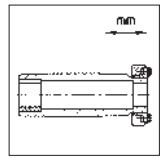
Gearboxes with 2nd output shaft end



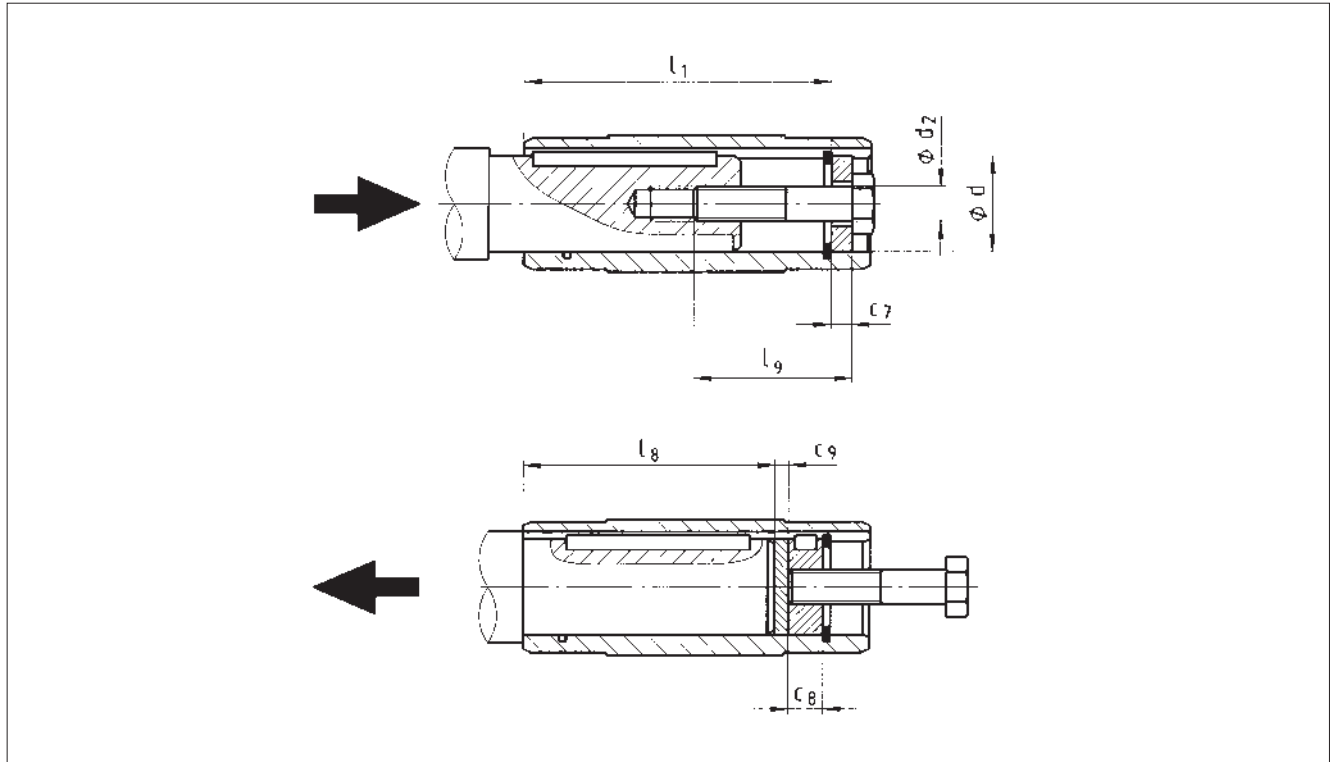
| Gearbox size | d | l | i ₁ | i ₂ | o ₁ |
|--------------|----|-----|----------------|----------------|----------------|
| GSS 04 | 25 | 50 | 52.5 | 17 | 215 |
| GSS 05 | 30 | 60 | 64 | 27 | 260 |
| GSS 06 | 40 | 80 | 85 | 39 | 320 |
| GSS 07 | 50 | 100 | 105 | 45 | 400 |

5

Dimensions in [mm]

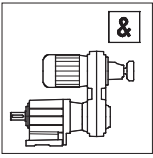


Mounting kit – hollow shaft retention · Design proposal for auxiliary tools



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

Dimensions in [mm]

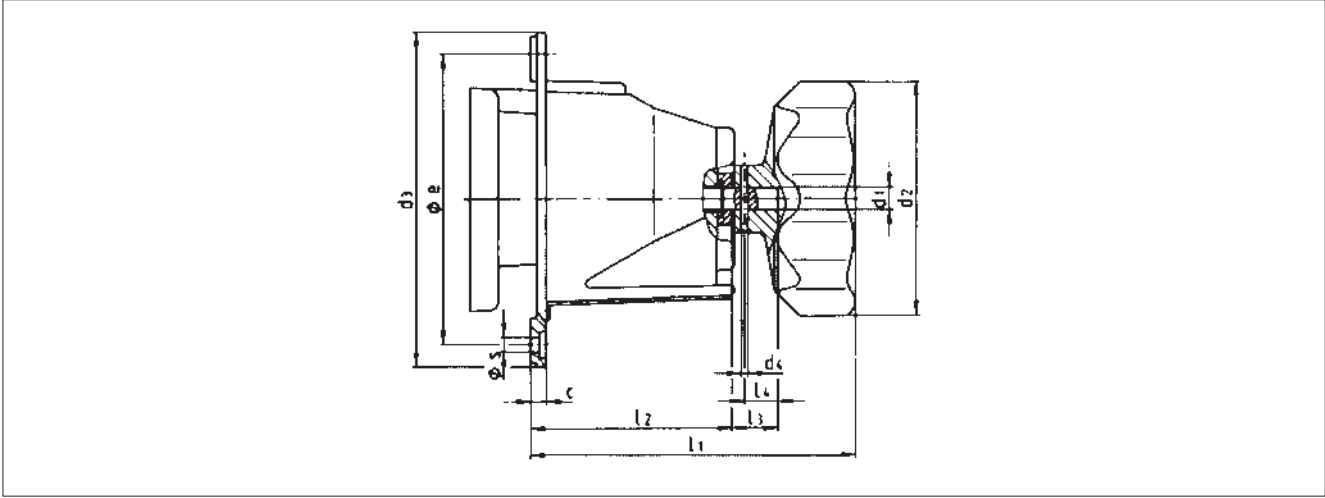


Compact units

Additional dimensions – attachments

Speed adjustment units

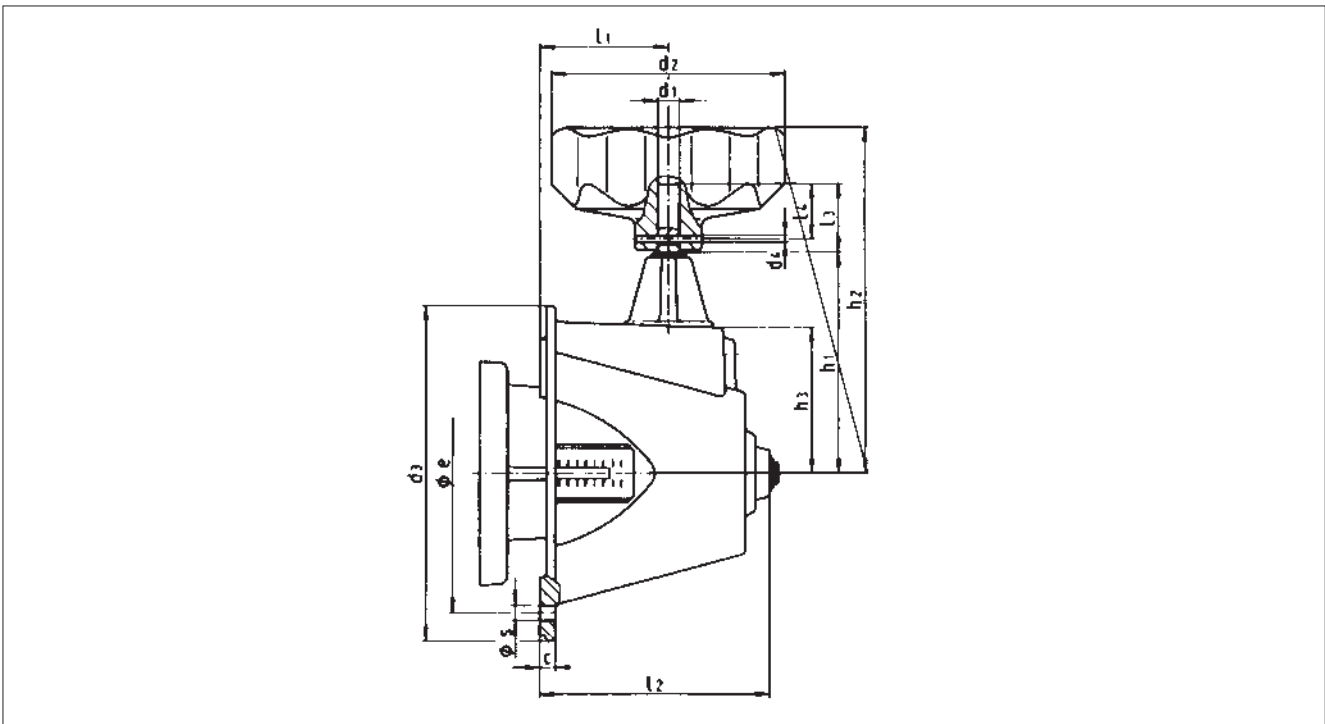
Front adjustment (standard)



| For compact unit size | c | d ₁ | d ₂ | d ₃ | d ₄ | e | l ₁ | l ₂ | l ₃ | l ₄ | s 4x90° | m [kg] |
|-----------------------|----|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-------------|-----------|
| 10 | 5 | 8 | 70 | 104 | 3 | 85 | 100 | 58 | 13 | 9 | 5.6 | 0.3 |
| 13/14 | 6 | 8 | 70 | 149 | 3 | 130 | 108 | 65 | 13 | 9 | 6.6 | 0.5 |
| 16/20/21 | 7 | 10 | 105 | 150 | 3 | 130 | 147 | 92 | 20 | 15 | 6.6 | 0.9 |
| 25/26/31 | 10 | 15 | 160 | 240 | 4 | 215 | 184 | 128 | 22 | 14 | 11 | 3.7 |
| 40 | 10 | 20 | 200 | 440 | 6 | 420 | 320 | 275 | 24 | 14 | 11 6x60° | 12 |

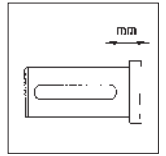
Angle adjustment (optionally)

5



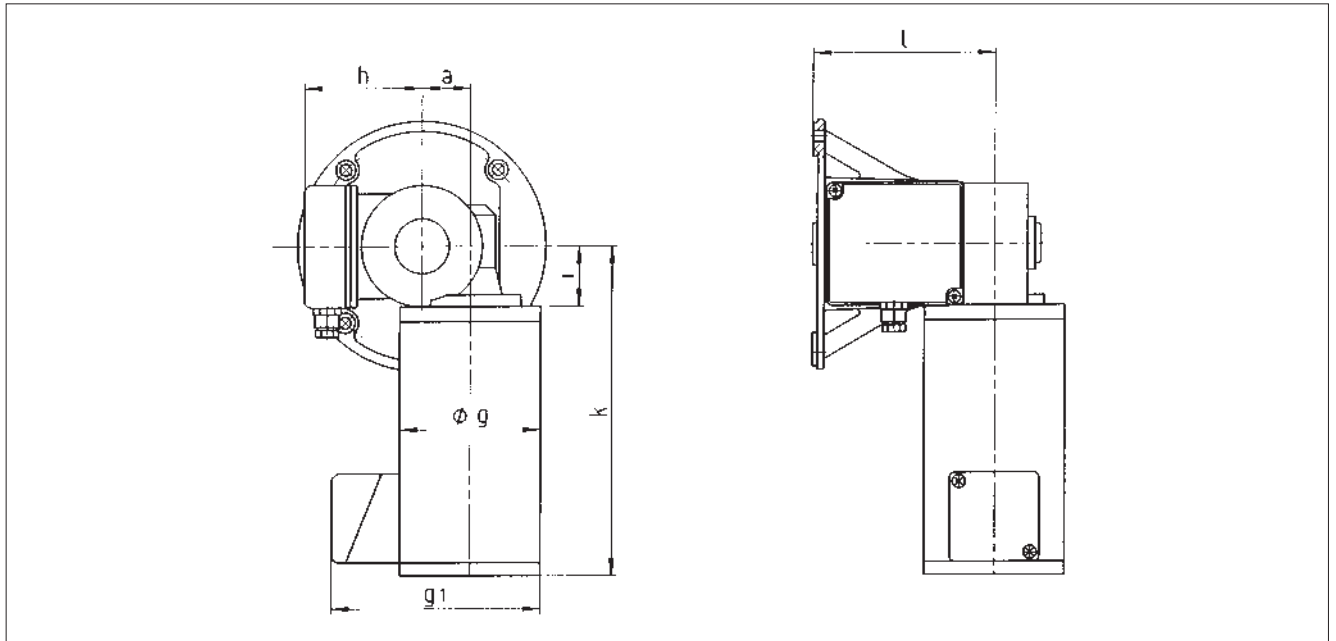
| For compact unit size | c | d ₁ | d ₂ | d ₃ | d ₄ | e | h ₁ | h ₂ | h ₃ | l ₁ | l ₂ | l ₃ | l ₄ | s 4x90° | m [kg] |
|-----------------------|----|----------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------------|-----------|
| 10 | 5 | 8 | 70 | 104 | 3 | 85 | 43 | 87 | – | 88 | 105 | 15 | 9 | 5.6 | 0.5 |
| 13/14 | 6 | 8 | 70 | 149 | 3 | 130 | 60 | 104 | 42 | 56 | 87 | 15 | 9 | 6.6 | 0.6 |
| 16/20/21 | 7 | 10 | 105 | 150 | 3 | 130 | 99 | 155 | 65 | 58 | 103 | 20 | 14 | 6.6 | 1.4 |
| 25/26/31 | 10 | 10 | 105 | 240 | 3 | 215 | 123 | 179 | 90 | 88 | 138 | 20 | 14 | 11 | 4 |

Dimensions in [mm]



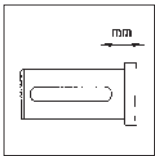
Speed adjustment units

Electrical remote control (optionally)



| For compact unit size | Electrical remote control | | | | | | | Weight m [kg] |
|-----------------------|---------------------------|-----|----------------|-----|----|-----|-----|---------------|
| | a | g | g ₁ | h | i | k | l | |
| 10 | 25 | 65 | 123 | 54 | 31 | 165 | 81 | 2.5 |
| 13/14 | 25 | 65 | 123 | 60 | 31 | 165 | 82 | 3.0 |
| 16 20/21 | 31 | 85 | 144 | 71 | 37 | 199 | 111 | 5.5 |
| 25/26 31 | 35 | 85 | 144 | 95 | 41 | 203 | 148 | 8 |
| 40 | 40 | 118 | 164 | 120 | 48 | 230 | 294 | 17 |

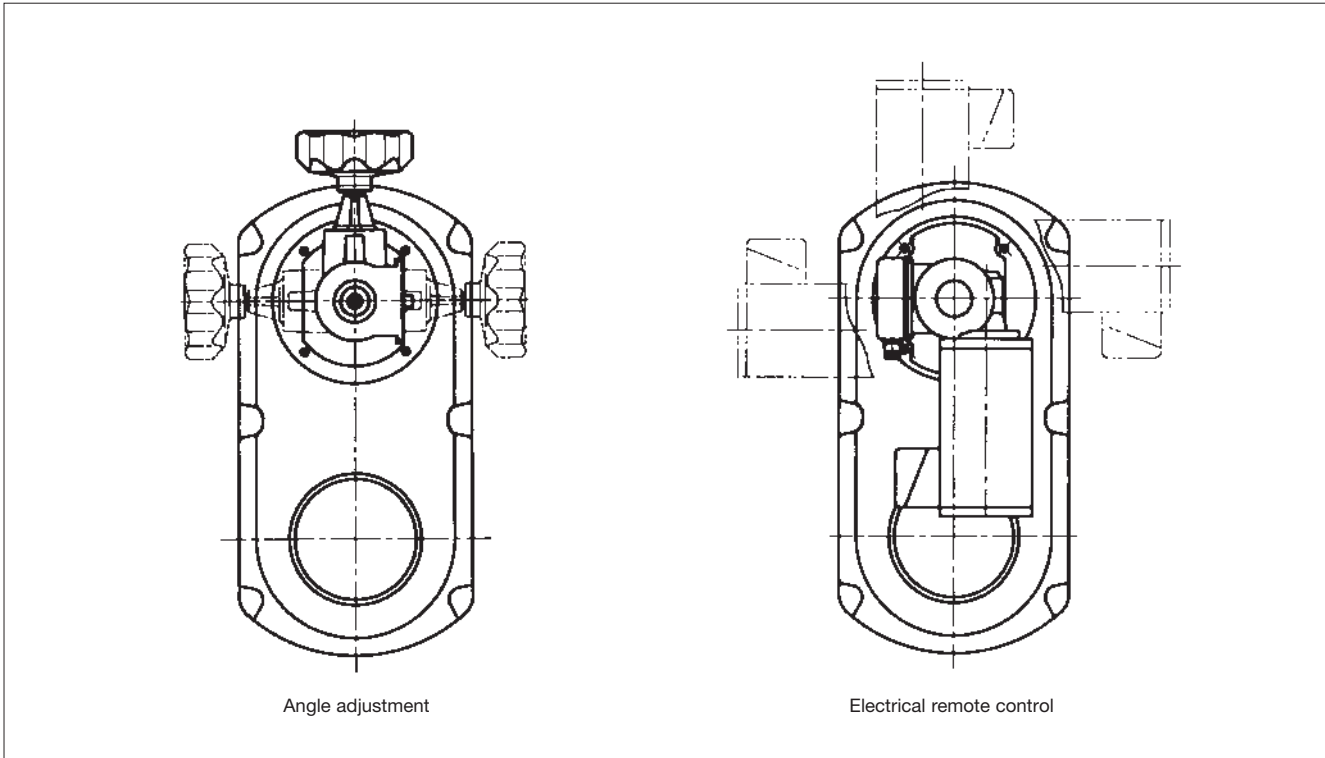
Dimensions in [mm]



Compact units

Additional dimensions – attachments

Speed adjustment units

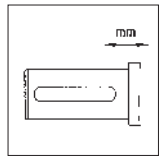


Angle adjustment

| Swivel position Variable speed belt drive | Permissible positions – adjustment unit | |
|--|---|-------------------------------|
| | for motor position 1 (Z type) | for motor position 6 (U type) |
| 2 | 2-3-5 | |
| 3 | 2-3-4 | |
| 4 | 3-4-5 | |
| 5 | 2-4-5 | |

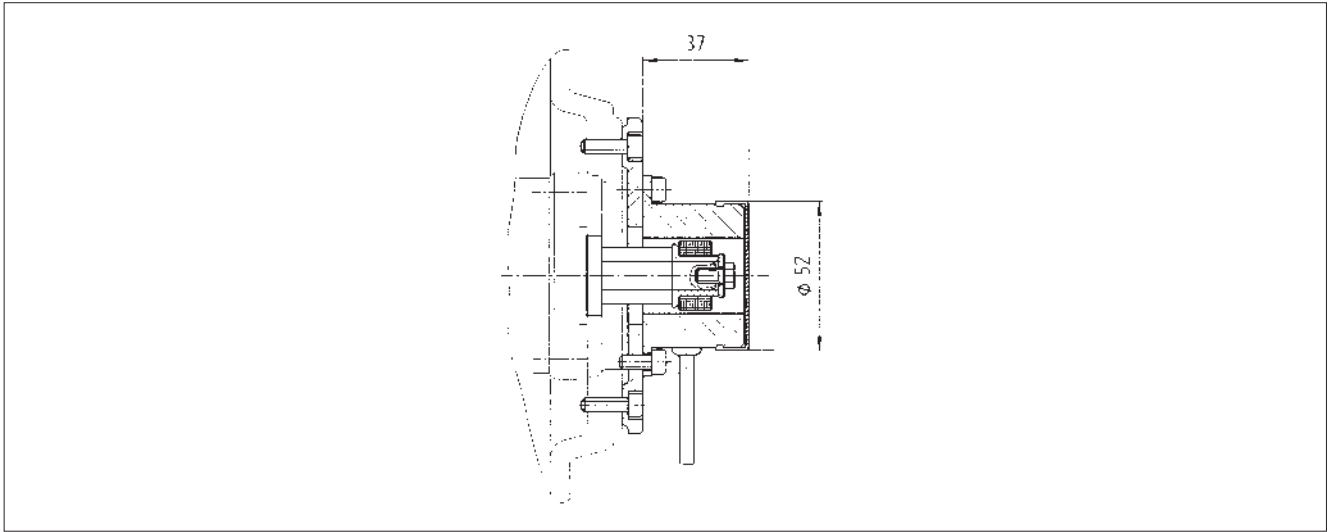
Electrical remote control

| Swivel position Variable speed belt drive | Permissible positions – adjustment unit | |
|--|---|-------------------------------|
| | for motor position 1 (Z type) | for motor position 6 (U type) |
| 2 | 2-3-5 | 2-3-4-5 |
| 3 | 2-3-4 | |
| 4 | 3-4-5 | |
| 5 | 2-4-5 | |

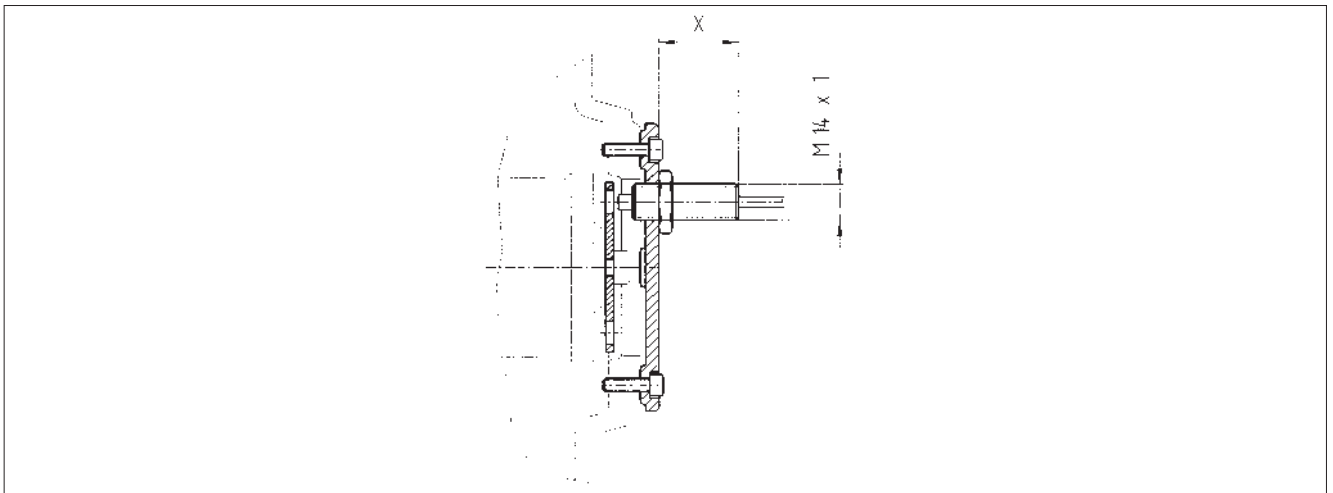


Speed adjustment units

DC speed encoder



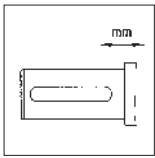
Pulse encoder



5

| Compact unit size | Pulse encoder x |
|----------------------|-----------------|
| 10 | approx 34 |
| 13/14 | approx 32 |
| 16 | approx 33 |
| 20/21 25/26 31 | approx 19 |
| 40 | approx 22 |

Dimensions in [mm]

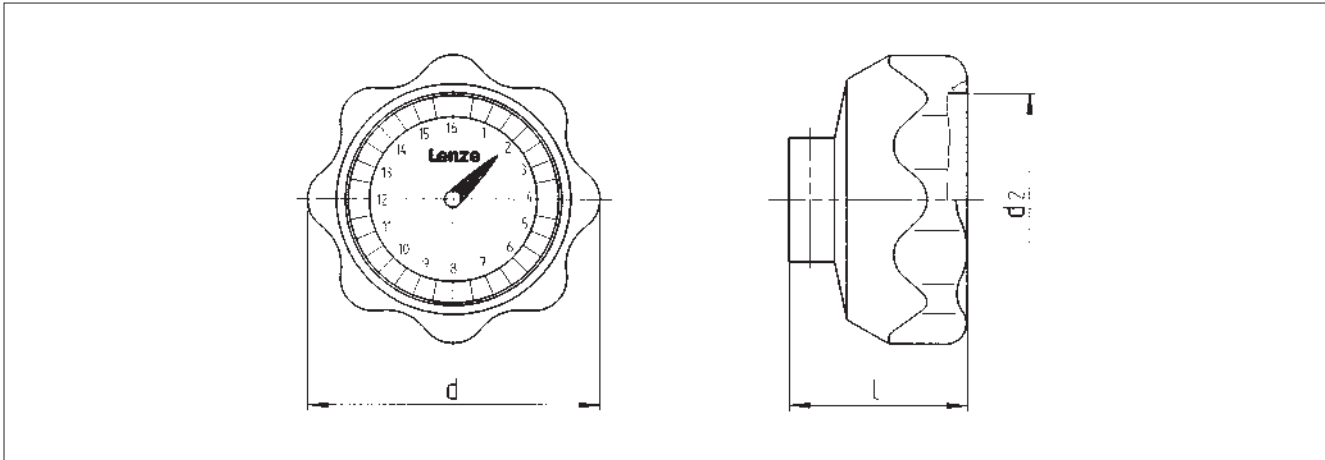


Compact units

Additional dimensions – attachments

Speed measuring units

Handwheel with position indicator



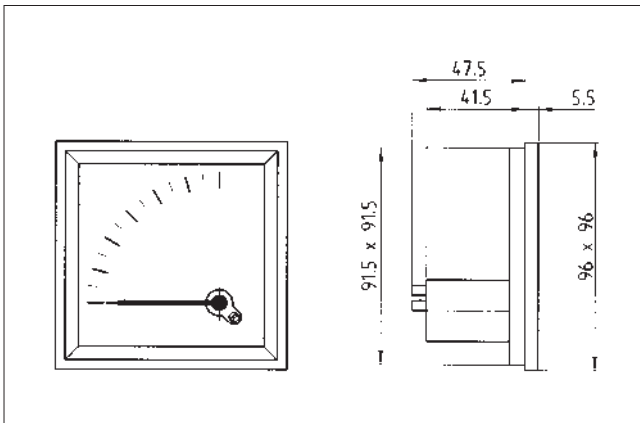
| Front adjustment | Angle adjustment | Handwheel with position indicator* | | |
|-----------------------|----------------------------|------------------------------------|----------------|----|
| for compact unit size | | d | d ₂ | l |
| 10 13/14 | 10 13/14 | 70 | 52 | 43 |
| 16 20/21 | 16 20/21 25/26 31 | 105 | 87 | 55 |
| 25/26 31 | – | 160 | 87 | 55 |
| 40 | – | 200 | 87 | 75 |

Dimensions in [mm]

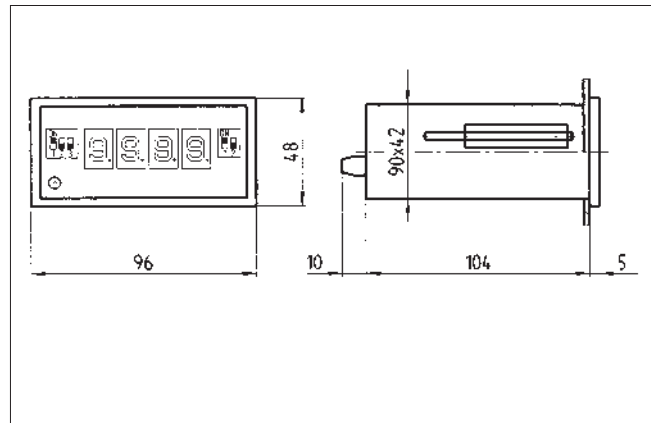
Display only with horizontal design ± 45°!

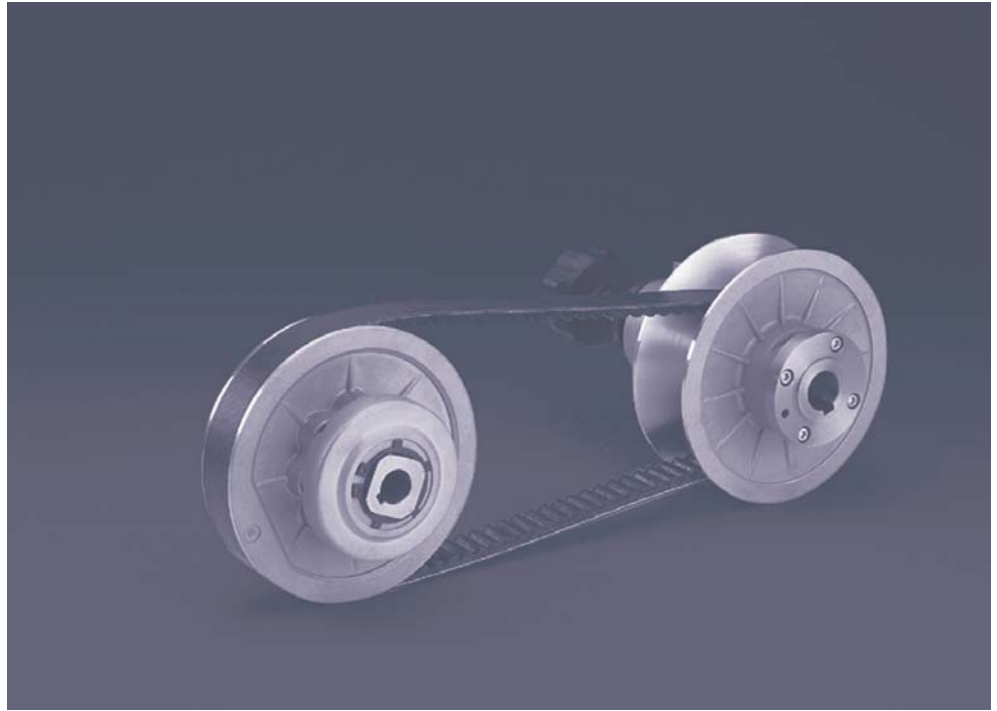
5

Analog display



Digital display





Variable speed pulleys

General information

| | |
|---------------------|-----|
| Product key | 6-2 |
| Product information | 6-3 |
| General data | 6-5 |

Variable speed drive type 11.101/104

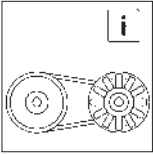
| | |
|--------------------|-----|
| Type 11.101 | |
| Selection tables | 6-6 |
| Dimensions | 6-7 |
| Axis distances | 6-8 |

| | |
|--|------|
| Type 11.104 | |
| Selection tables | 6-11 |
| Dimensions | 6-12 |
| Axis distances | 6-13 |
| Inner lengths of variable speed belt pulleys | 6-13 |

| | |
|-------------------------------------|------|
| Calculation of axis distance | 6-15 |
| Motor slide | 6-16 |
| Driven pulleys | 6-18 |

Variable speed pulleys type 11.213/218

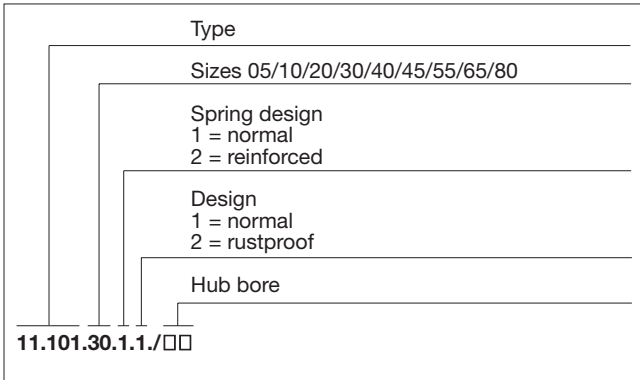
| | |
|------------------------|------|
| Type 11.213/218 | |
| Selection | 6-21 |
| Selection tables | 6-22 |
| Technical data | 6-23 |
| Central adjustments | 6-30 |



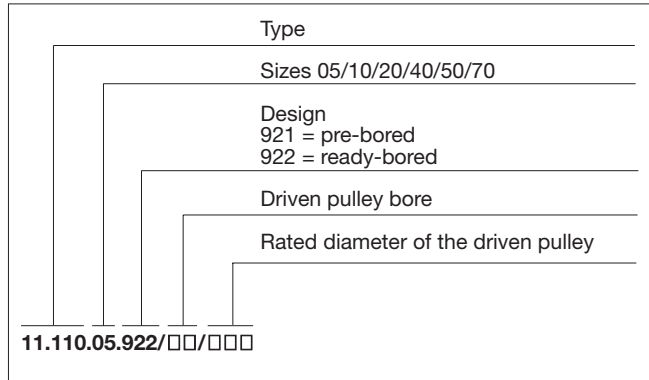
Variable speed pulleys

Product key

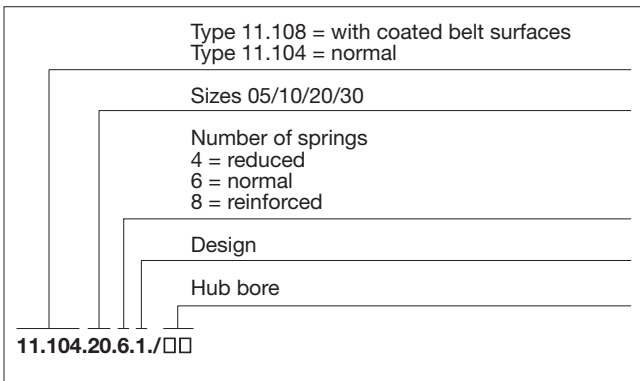
Variable speed pulleys 11.101



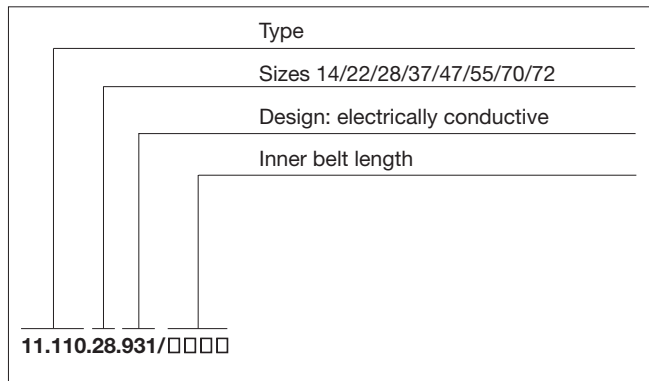
Driven pulleys



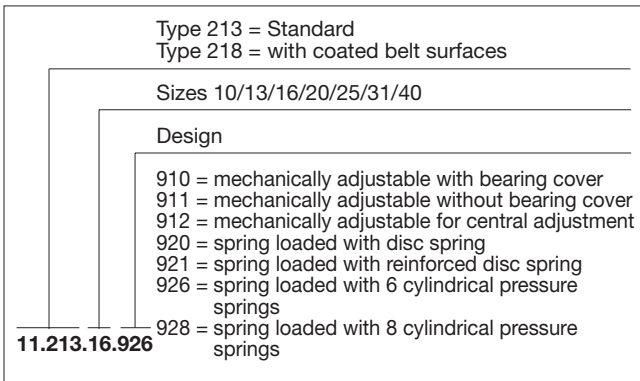
Variable speed pulleys 11.104



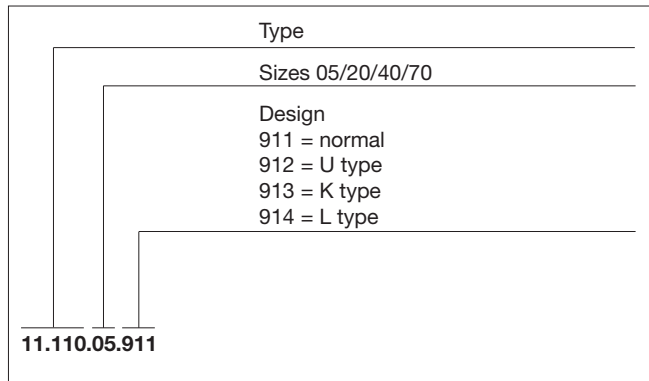
Variable speed belt



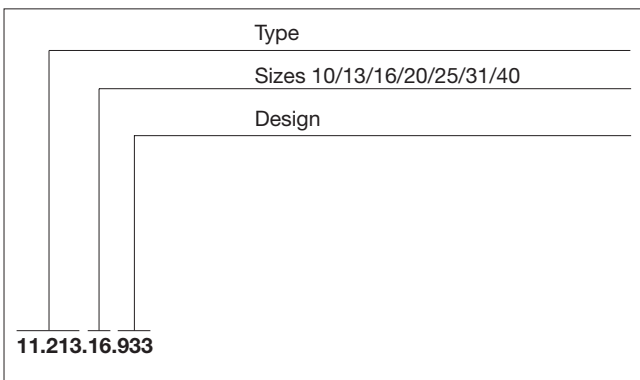
Variable speed pulleys 11.213

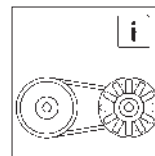


Motor slide



Central adjustment





Description

Spring-loaded variable speed pulleys types 11.101 and 11.104 are usually mounted onto the input side of the motor shaft end; the driven pulley is mounted onto the driven shaft. The output speed is determined by the diameter of the driven pulleys. Often additional gearboxes are not necessary.

Speed adjustment

The motor with the variable speed pulley is, for instance, mounted onto an adjustable slide. The variable speed belt is pushed into or pulled out of the spring-loaded variable speed pulley by changing the axis distance between the two shafts. Thus, the effective running diameter of the belt in the variable speed pulley and the speed of the driven pulley are changed. Motor slide, motor rocker and belt tighteners enable adjustment. Fine tuning of the speed is always possible by using a threaded spindle. The output speed range of SIMPLABELT variable speed drives (1 : 3) depends on the effective diameter of the driven pulley. The output speeds possible are indicated on pages 8 and 13. The power to be transmitted of the different pulley sizes at different motor speeds are also indicated on these pages.

For shock loaded operation a higher safety factor must be provided. The use of a larger variable speed pulley can be necessary. In case of doubt, please contact Lenze.

SIMPLABELT has been the name for variable speed belt drives for years and it is well established in national and international engineering.

Well-known machine and system manufacturers have used SIMPLABELT variable speed drives successfully for many years, even under difficult operating conditions.

Simplabelt variable speed pulleys type 11.101

Power range: 0.37–18.5 kW at $n_1=1500 \text{ min}^{-1}$

Thanks to their design – cast iron disc pulleys on both ends – and their high rotating mass, the variable speed pulleys type 11.101 provide good damping features which are advantageous for the use with changing loads, for instance for clock-pulse operating machines.

We recommend to use variable speed pulleys, if harsh operating conditions and exposure to humidity or dust are to be expected.

The pretension required for power transmission is generated by the disc springs which are located on both sides of the disc pulleys.

The forces resulting from the torque transmission are taken up by a well dimensioned serration. By this, the surface pressure is far below the permissible limit and thus the service life is very long.

Variable speed pulleys must be re-lubricated depending on their application.

Simplabelt variable speed pulleys type 11.104

Power range: 0.37–3kW at $n_1=1500 \text{ min}^{-1}$

With this type, the disc pulleys are made of a light-metal alloy especially developed for pulleys. Their main characteristic is a low moment of inertia.

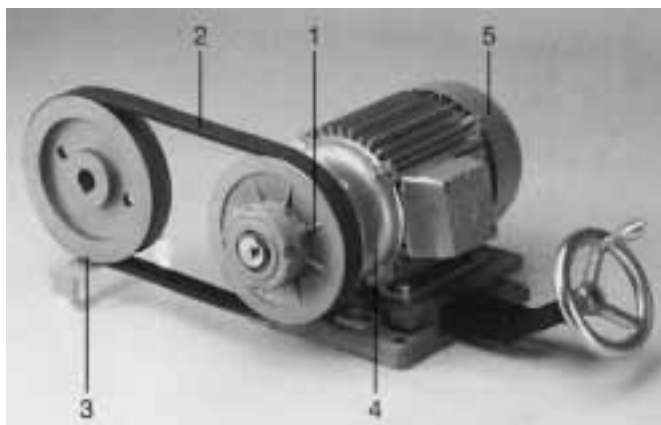
We also offer the economical type 11.104 for operating conditions where a low moment of inertia is favourable because of high switching frequencies or reversing operation.

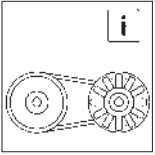
The pretension required for the power transmission is here generated by cylindrical pressure springs which are located rotation-symmetrically on both sides of the disc pulleys.

The variable speed pulleys are life lubricated and do not require further maintenance.

SIMPLABELT variable speed drives, design 1:3

SIMPLABELT variable speed drives, design 1:3 consist of a spring-loaded pulley (1), a variable speed belt with an especially bendable inner toothing (2), driven pulley (3), motor slide (4) and a three-phase AC motor to IEC standards (5).





Variable speed pulleys

Product information

Simplabelt variable speed pulleys type 11.213/218

Operation principle

The main part of variable speed pulleys type 11.213/218 is the slide fit. The coated hub as four-side polygon profile combined with disc pulleys made of aluminium cast iron is well established in mechanical engineering

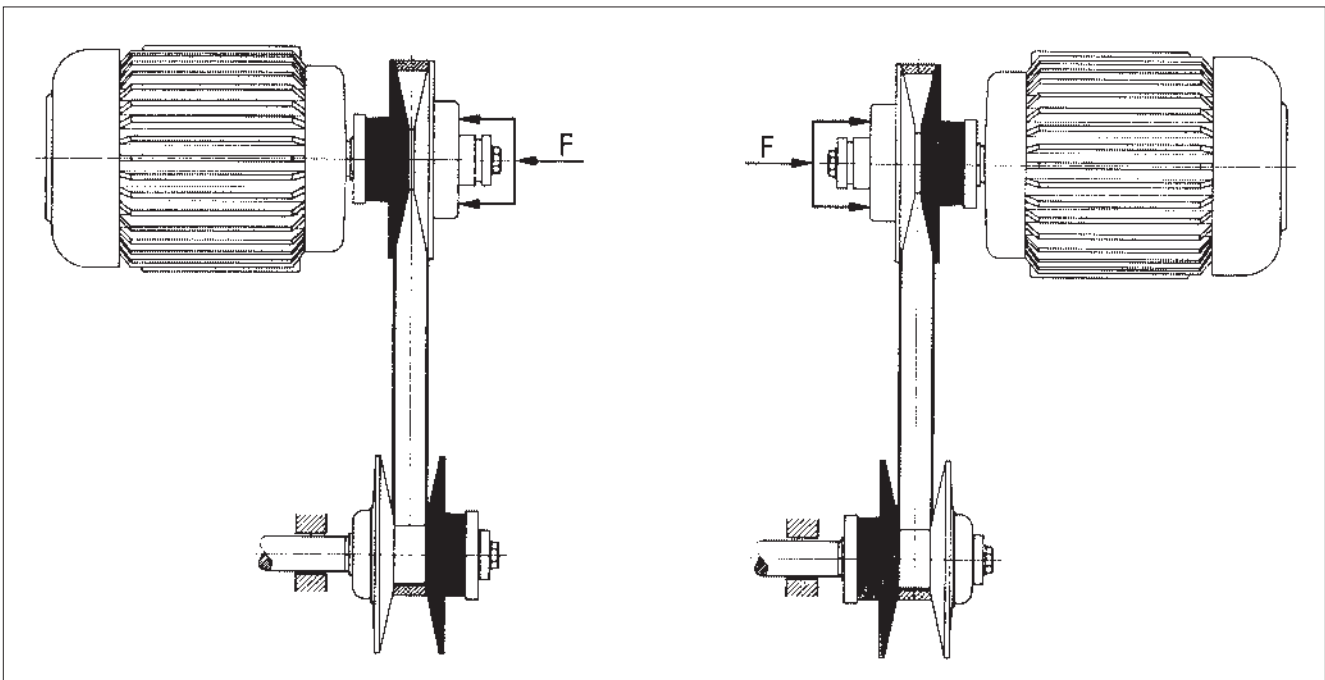
Advantages:

- large torque transmission surfaces, i.e. low surface pressure
- self-centering because of symmetrical backlash compensation, i.e. no toppling of disc pulleys

- even profile edges, i.e. very quiet running
- absolutely maintenance free
- long service life

The pretension required for power transmission is generated by screw springs which are located rotation-symmetrically and can be varied by changing the number of springs. All components are made of corrosion-resistant material and enable application even under difficult environmental conditions.

A version with hard-coated belt surfaces is available for application under unfavourable conditions.



6 U type

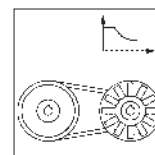
The mechanically adjustable variable speed pulley is mounted onto the driving shaft (motor shaft), the spring-loaded variable speed pulley is mounted onto the shaft to be driven. If the mounting is changed, the performance data of the drive will change. If so, please contact Lenze. All variable speed

Z type

pulleys can be mounted as U or Z type (except size 40). Please observe that the fixed disc pulleys (dark in the figure) must be mounted diagonally. Thus, the belts are aligned in any position. Simplabelt variable speed pulleys can be mounted independently of the mounting position.

Variable speed pulleys

General data



| Possible combinations | Variable speed pulley | | |
|-----------------------------------|-----------------------|--------|------------|
| | 11.101 | 11.104 | 11.213/218 |
| Driven pulley 11.110.□□.92□ | • | • | |
| Variable speed belt 11.110.□□.931 | • | • | • |
| Adjustment units | | | |
| Motor slide 11.110.□□.91□ | • | • | |
| Central adjustment 11.213.□□.93□ | | | • |

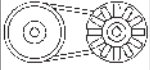
| Variable speed pulley | 11.101 | 11.104 | 11.213/218 |
|---|---|---|--|
| Power range at n ₁ =1500 min ⁻¹ | 0.37-18.5 kW | 0.37-3 kW | 0.25-45 kW |
| Speed adjustment | by changing the axis distance | | with constant axis distance |
| Corrosion protection | Option | Standard | Standard |
| Material f | Disc pulleys | Cast iron | Aluminium |
| | Hub | C45K | St52-3k |
| Tolerances | Standard: H7 with keyway to DIN | | |
| Machine shaft required | k6 | | |
| Features | High rotational mass damping | Low moment of inertia | |
| Suitable for | Clock-type operation Shock loaded/rough operation Humidity/dust | High operating frequency (reversing operation) | Clock-pulse operation Shock loaded/rough operation Humidity/dust |
| Torque transmission | Serration | Polygon | Polygon |
| Belt pretension by | Disc spring Location: on both sides | Pressure springs Location: on both sides | Pressure or disc springs Location: on one side |
| Maintenance | Re-lubrication required | Maintenance free | Maintenance free |
| Ambient temperature | -20 to +40° | | |
| Mechanical efficiency | 0.79 ≤ η ≤ 0.85 | | |

| | |
|------------------------------|---|
| Variable speed pulley | 11.110.□□.931 |
| Design | Sandwich design |
| Material | Compound: electrically conductive to ISO 1813 |

| | |
|----------------------|----------------------|
| Driven pulley | 11.110.□□.92□ |
| Material | Cast iron |

| | |
|--------------------|----------------------|
| Motor slide | 11.110.□□.91□ |
| Material | Cast iron |
| | Spindle |
| | 9S20K |

| | |
|---------------------------|---|
| Central adjustment | 11.110.□□.93□ |
| Material | Cast iron / aluminium / plastic depending on the size |
| | Spindle |
| | C45 |



Variable speed pulleys

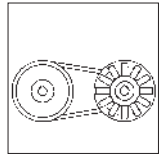
Type 11.101

Selection tables

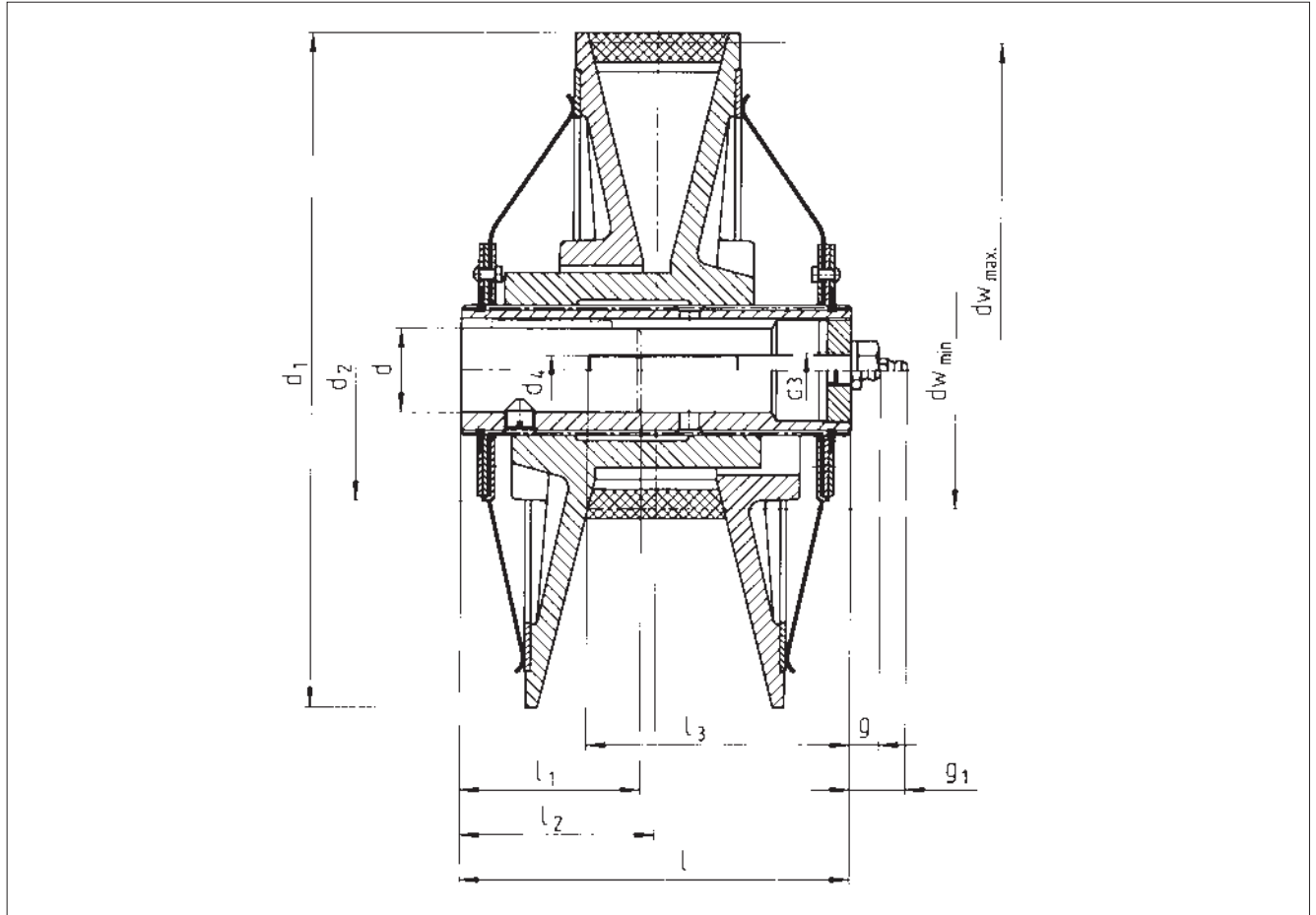
| Type | Motor speed [min ⁻¹] | Power [kw] | Inner counter pulley diameter [mm] | | | | | | | | | |
|-----------|----------------------------------|------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | 80 | 90 | 100 | 112 | 125 | 140 | 160 | 170 | 180 | 200 |
| | | | Output speed [min ⁻¹] | | | | | | | | | |
| 11.100.05 | 2720 | 0.55 | 3758-1295 | 3358-1158 | 3035-1048 | 2790-948 | 2444-844 | 2190-756 | 1925-664 | | 1715-592 | 1546-533 |
| | 1380 | 0.37 | 1960-657 | 1704-587 | 1540-531 | 1380-476 | 1241-428 | 1111-383 | 975-337 | | 870-300 | 784-271 |
| | 910 | 0.25 | 1258-434 | 1122-387 | 1014-350 | 910-314 | 819-282 | 733-253 | 644-222 | | 574-198 | 517-177 |
| | 680 | 0.18 | 939-324 | 839-289 | 759-261 | 680-234 | 611-211 | 548-189 | 481-166 | | 429-148 | 387-133 |
| 11.101.10 | 2820 | 1.1 | 5355-2320 | | 4330-1878 | 3865-1682 | 3495-1514 | 3133-1358 | 2752-1191 | | 2455-1062 | 2213-958 |
| | 1400 | 0.75 | 2658-1151 | | 2148-931 | 1928-835 | 1735-751 | 1555-673 | 1367-591 | | 1218-527 | 1098-476 |
| | 910 | 0.55 | 1730-750 | | 1400-606 | 1254-544 | 1129-489 | 1011-438 | 889-385 | | 792-343 | 714-309 |
| | 675 | 0.37 | 1282-555 | | 1038-450 | 930-403 | 836-362 | 750-325 | 659-285 | | 588-254 | 530-229 |
| 11.101.20 | 2800 | 2.2 | | | | | 3880-1681 | 3475-1508 | 3055-1324 | 2880-1249 | 2723-1181 | 2459-1065 |
| | 1410 | 1.5 | | | | | 1951-846 | 1750-759 | 1538-667 | 1450-629 | 1371-595 | 1238-537 |
| | 920 | 1.1 | | | | | 1274-552 | 1142-455 | 1004-435 | 947-410 | 894-388 | 808-350 |
| | 710 | 0.75 | | | | | 984-426 | 882-382 | 775-336 | 730-316 | 692-300 | 624-270 |
| 11.101.30 | 2830 | 3 | | | | | | 4220-1788 | 3720-1572 | | 3320-1403 | 2992-1267 |
| | 1425 | 2.2 | | | | | | 2123-900 | 1873-792 | | 1671-707 | 1509-638 |
| | 930 | 1.5 | | | | | | 1389-587 | 1221-516 | | 1091-461 | 948-416 |
| | 700 | 1.1 | | | | | | 1044-442 | 919-389 | | 821-347 | 740-314 |
| 11.101.40 | 1425 | 3 | | | | | | 2561-1027 | 2254-903 | | 2013-806 | 1850-728 |
| | 940 | 2.2 | | | | | | 1691-676 | 1488-595 | | 1328-531 | 1198-480 |
| | 690 | 1.5 | | | | | | 1241-497 | 1092-437 | | 975-390 | 880-352 |
| | | | | | | | | | | | | |
| 11.101.45 | 1430 | 4 | | | | | | 2570-1030 | 2260-906 | | 2019-809 | 1821-730 |
| | 960 | 3 | | | | | | 1727-691 | 1519-608 | | 1355-543 | 1223-490 |
| | 700 | 2.2 | | | | | | 1259-504 | 1108-443 | | 989-396 | 893-357 |
| | | | | | | | | | | | | |
| 11.101.55 | 1400 | 5.5 | | | | | | | | | | 2093-838 |
| | 960 | 4 | | | | | | | | | | 1395-559 |
| | 700 | 3 | | | | | | | | | | 1017-407 |
| | | | | | | | | | | | | |

| Type | Motor speed [min ⁻¹] | Power [kw] | Inner counter pulley diameter [mm] | | | | | | | | | |
|-----------|----------------------------------|------------|------------------------------------|-----------|-----------|----------|----------|----------|----------|----------|----------|---------|
| | | | 80 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 |
| | | | Output speed [min ⁻¹] | | | | | | | | | |
| 11.100.05 | 2720 | 0.55 | | 1383-477 | 1242-428 | 1110-383 | 989-341 | | | | | |
| | 1380 | 0.37 | | 702-242 | 630-217 | 564-194 | 502-173 | | | | | |
| | 910 | 0.25 | | 463-160 | 415-143 | 372-128 | 331-114 | | | | | |
| | 680 | 0.18 | | 346-119 | 311-107 | 278-96 | 247-85 | | | | | |
| 11.101.10 | 2820 | 1.1 | | 1980-858 | 1778-770 | 1418-688 | 1418-614 | 1260-545 | | | | |
| | 1400 | 0.75 | | 980-425 | 882-382 | 789-342 | 703-305 | 625-271 | | | | |
| | 910 | 0.55 | | 639-277 | 573-248 | 513-222 | 458-198 | 406-176 | | | | |
| | 675 | 0.37 | | 474-205 | 426-184 | 381-165 | 339-147 | 302-130 | | | | |
| 11.101.20 | 2800 | 2.2 | | 2200-954 | 1977-857 | 1768-766 | 1575-683 | 1400-607 | 1245-540 | 1108-480 | | |
| | 1410 | 1.5 | | 1108-480 | 994-431 | 890-396 | 793-344 | 705-306 | 626-272 | 557-242 | | |
| | 920 | 1.1 | | 724-314 | 650-282 | 581-252 | 518-224 | 460-199 | 409-177 | 364-158 | | |
| | 710 | 0.75 | | 558-242 | 504-217 | 449-194 | 400-173 | 355-154 | 316-137 | 281-122 | | |
| 11.101.30 | 2830 | 3 | 2882-1220 | 2681-1135 | 2410-1020 | 2159-913 | 1926-815 | 1711-724 | 1520-644 | 1354-573 | 1220-516 | |
| | 1425 | 2.2 | 1451-615 | 1350-571 | 1213-514 | 1088-460 | 970-411 | 865-365 | 766-324 | 681-289 | 614-260 | |
| | 930 | 1.5 | 948-401 | 882-373 | 792-335 | 710-300 | 633-268 | 563-328 | 500-212 | 445-188 | 401-170 | |
| | 700 | 1.1 | 713-302 | 664-281 | 596-252 | 534-226 | 476-201 | 424-179 | 376-159 | 335-142 | 302-128 | |
| 11.101.40 | 1425 | 3 | 1748-700 | 1625-651 | 1461-586 | 1309-525 | 1168-468 | 1039-416 | 922-369 | 820-329 | 740-296 | |
| | 940 | 2.2 | 1153-462 | 1073-430 | 965-386 | 863-346 | 770-308 | 685-274 | 608-244 | 542-217 | 488-195 | |
| | 690 | 1.5 | 847-339 | 788-316 | 709-284 | 634-254 | 566-226 | 503-202 | 447-179 | 398-159 | 359-144 | |
| | | | | | | | | | | | | |
| 11.101.45 | 1430 | 4 | 1752-703 | 1632-654 | 1467-588 | 1313-526 | 1171-469 | 1042-417 | 925-371 | 824-330 | 742-297 | |
| | 960 | 3 | 1179-472 | 1097-439 | 985-395 | 892-354 | 786-315 | 700-280 | 621-249 | 553-222 | 498-200 | |
| | 700 | 2.2 | 859-344 | 800-320 | 718-288 | 643-258 | 574-230 | 510-204 | 453-181 | 404-162 | 364-146 | |
| | | | | | | | | | | | | |
| 11.101.55 | 1440 | 5.5 | | 1875-751 | 1686-675 | 1510-605 | 1348-539 | 1199-480 | 1067-427 | 950-380 | 856-343 | 765-307 |
| | 960 | 4 | | 1250-501 | 1124-450 | 1007-403 | 893-360 | 799-320 | 710-285 | 633-254 | 571-229 | 510-205 |
| | 700 | 3 | | 911-365 | 820-328 | 735-294 | 655-262 | 583-233 | 519-208 | 462-185 | 416-167 | 373-149 |
| | | | | | | | | | | | | |
| 11.101.65 | 1450 | 11 | | | | 1740-714 | 1550-637 | 1378-567 | 1225-504 | 1093-449 | 983-406 | 881-362 |
| | 960 | 7.5 | | | | 1148-474 | 1025-423 | 912-376 | 812-335 | 723-298 | 653-269 | 583-241 |
| | 710 | 5.5 | | | | 846-351 | 754-313 | 672-279 | 598-248 | 532-221 | 480-199 | 430-178 |
| | | | | | | | | | | | | |
| 11.101.80 | 1455 | 18.5 | | | | 1806-812 | 1610-725 | 1435-644 | 1275-575 | 1138-512 | 1025-462 | 917-412 |
| | 960 | 12.5 | | | | 1200-540 | 1068-482 | 950-429 | 846-381 | 754-340 | 680-306 | 608-275 |
| | 720 | 9 | | | | 895-403 | 797-360 | 709-320 | 630-285 | 562-253 | 507-228 | 454-205 |
| | | | | | | | | | | | | |

| Type | Motor speed [min ⁻¹] | Power [kw] | Inner counter pulley diameter [mm] | | |
|-----------|----------------------------------|------------|------------------------------------|---------|---------|
| | | | 630 | 710 | 800 |
| | | | Output speed [min ⁻¹] | | |
| 11.101.65 | 1450 | 11 | 785-323 | 698-287 | 621-255 |
| | 960 | 7.5 | 519-215 | 462-190 | 411-169 |
| | 710 | 5.5 | 383-158 | 340-141 | 303-125 |
| 11.101.80 | 1455 | 18.5 | 817-367 | 725-326 | 645-291 |
| | 960 | 12.5 | 540-244 | 481-21 | 428-193 |
| | 720 | 9 | 405-182 | 359-162 | 319-144 |



Dimensions



| Type | Belt size | d ^{H7/2} | | dw | | d ₁ | d ₂ | d ₃ | Clamping screws ⁴⁾ | | g | g ₁ | l | l ₁ min | l ₂ | J [kgm ²] | m [kg] |
|--------------------------------|-----------|-------------------|------------------|-------|-------|----------------|----------------|----------------|-------------------------------|---------------------------------|------|----------------|-----|-----------------------|----------------|--------------------------|-----------|
| | | min. | Standard | min. | max. | | | | Bore | d ₄ x l ₃ | | | | | | | |
| 11.100.05.1.1 ¹⁾ | 22 | 8 | 14 ³⁾ | 40 | 116 | 120 | 44 | M10 | d<14 | M 6x 50 | 10.5 | 16.5 | 72 | 30 | 36 | 0.00044 | 1.0 |
| 11.101.10.1.1 | 28 | 14 | 19 | 69.5 | 160.5 | 165 | 66 | M12 | d<15 d>15 | M 6x 75 M 6x 70 | 10.5 | 16.5 | 94 | 35 | 47 | 0.00482 | 2.5 |
| 11.101.20.1.1 | 37 | 16 | 24 | 78 | 180 | 185 | 78 | M12 | d<19 d>19 | M 6x 85 M 8x 75 | 10.5 | 18 | 110 | 40 | 55 | 0.0098 | 3.5 |
| 11.101.30.1.1 | 47 | 18 | 28 | 92.5 | 218.5 | 225 | 87 | M12 | d<19 d>19≤24 d>24 | M 6x105 M 8x100 M10x 95 | 10.5 | 18 | 130 | 50 | 65 | 0.0313 | 6 |
| 11.101.40.1.1 11.101.45.1.1 | 47 | 20 | 28 | 105.5 | 263.5 | 270 | 103 96 | M16 | d>19≤24 d>24 | M 8x115 M10x110 | - | 19.5 | 148 | 60 | 74 | 0.0875 | 11 |
| 11.101.55.1.1 | 55 | 25 | 38 | 121 | 302 | 310 | 130 | M16 M20 | d<28 d>28≤38 d>38 | M10x145 M12x130 M16x105 | - | 19.5 21.5 | 180 | 75 | 90 | 0.16 | 19 |
| 11.101.65.1.1 | 70 | 32 | 38/42 | 142 | 351 | 360 | 130 | M16 M20 | d<38 d>38 | M12x130 M16x105 | - | 19.5 | 196 | 80 | 98 | 0.287 | 25.5 |
| 11.101.80.1.1 | 70 | 38 | 42/48 | 162 | 366 | 375 | 130 | M16 M20 | d<38 d>38 | M12x150 M16x120 | - | 21.5 | 200 | 80 | 98 | 0.353 | 33 |

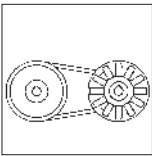
¹⁾ Does not correspond to the figure

²⁾ Keyway to DIN 6885 part 1

³⁾ Keyway to DIN 6885 part 3

⁴⁾ Up to size 30 either with clamping screws or threaded pin

Dimensions in [mm]



Variable speed pulleys

Type 11.101

Distance between axes

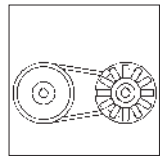
Type 11.100.05.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
| | | 80 | 90 | 100 | 112 | 125 | 140 | 160 | 180 | 200 | 224 | 250 | 280 | 315 | | | | | | |
| | | Smallest axis distance | | | | | | | | | | | | | | | | | | |
| Variable speed belt size 22 | Inner belt length | 610 | 166 | 159 | 151 | 142 | | | | | | | | | | | | | | |
| | | 650 | 186 | 179 | 171 | 162 | 151 | | | | | | | | | | | | | |
| | | 675 | 199 | 191 | 184 | 174 | 164 | 152 | | | | | | | | | | | | |
| | | 700 | 211 | 204 | 196 | 187 | 176 | 164 | | | | | | | | | | | | |
| | | 750 | 236 | 229 | 221 | 212 | 201 | 189 | 173 | | | | | | | | | | | |
| | | 800 | 261 | 254 | 246 | 237 | 226 | 214 | 198 | 181 | | | | | | | | | | |
| | | 850 | 286 | 279 | 271 | 262 | 252 | 241 | 223 | 206 | 188 | | | | | | | | | |
| | | 900 | 311 | 304 | 296 | 287 | 276 | 264 | 248 | 231 | 214 | 192 | | | | | | | | |
| | | 950 | 336 | 329 | 321 | 312 | 302 | 289 | 273 | 256 | 239 | 218 | 194 | | | | | | | |
| | | 1000 | 361 | 354 | 346 | 337 | 327 | 314 | 298 | 281 | 264 | 243 | 219 | | | | | | | |
| | | 1060 | 391 | 384 | 376 | 367 | 357 | 344 | 328 | 311 | 294 | 273 | 250 | 222 | | | | | | |
| | | 1120 | 421 | 414 | 406 | 397 | 387 | 374 | 358 | 341 | 324 | 303 | 280 | 253 | | | | | | |
| | | 1180 | 451 | 444 | 436 | 427 | 417 | 404 | 388 | 371 | 355 | 334 | 311 | 283 | 251 | | | | | |
| | | 1250 | 487 | 479 | 471 | 462 | 452 | 439 | 423 | 407 | 390 | 369 | 346 | 319 | 286 | | | | | |
| | | 1320 | 521 | 514 | 506 | 497 | 487 | 475 | 458 | 442 | 425 | 404 | 381 | 355 | 322 | | | | | |
| 1400 | 562 | 554 | 546 | 537 | 527 | 515 | 498 | 482 | 465 | 445 | 422 | 395 | 363 | | | | | | | |
| 1500 | 612 | 604 | 596 | 587 | 577 | 565 | 548 | 532 | 515 | 495 | 472 | 446 | 414 | | | | | | | |
| 1600 | 662 | 654 | 646 | 637 | 627 | 615 | 598 | 582 | 565 | 545 | 523 | 496 | 465 | | | | | | | |
| Adjustment path | | 44 | 44 | 43 | 43 | 42 | 41 | 41 | 40 | 40 | 39 | 38 | 37 | 36 | | | | | | |

Type 11.101.10.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
| | | 80 | 100 | 112 | 125 | 140 | 160 | 180 | 200 | 224 | 250 | 280 | 315 | 355 | | | | | | |
| | | Smallest axis distance | | | | | | | | | | | | | | | | | | |
| Variable speed belt size 28 | Inner belt length | 650 | 150 | 136 | | | | | | | | | | | | | | | | |
| | | 700 | 175 | 161 | 153 | | | | | | | | | | | | | | | |
| | | 750 | 200 | 186 | 178 | 168 | | | | | | | | | | | | | | |
| | | 800 | 226 | 211 | 203 | 193 | 182 | | | | | | | | | | | | | |
| | | 850 | 251 | 237 | 228 | 218 | 207 | 191 | 175 | | | | | | | | | | | |
| | | 900 | 276 | 262 | 253 | 243 | 232 | 216 | 200 | | | | | | | | | | | |
| | | 950 | 301 | 287 | 278 | 268 | 257 | 241 | 225 | 209 | | | | | | | | | | |
| | | 1000 | 326 | 312 | 303 | 293 | 282 | 266 | 250 | 234 | 214 | | | | | | | | | |
| | | 1060 | 356 | 342 | 333 | 323 | 312 | 296 | 280 | 264 | 244 | 222 | | | | | | | | |
| | | 1120 | 386 | 372 | 363 | 353 | 342 | 326 | 310 | 294 | 274 | 252 | 225 | | | | | | | |
| | | 1180 | 417 | 402 | 393 | 383 | 372 | 356 | 340 | 324 | 304 | 282 | 256 | | | | | | | |
| | | 1250 | 452 | 437 | 428 | 418 | 407 | 391 | 375 | 359 | 339 | 317 | 291 | 260 | | | | | | |
| | | 1320 | 487 | 472 | 463 | 453 | 442 | 426 | 410 | 394 | 374 | 352 | 326 | 295 | | | | | | |
| | | 1400 | 527 | 512 | 503 | 493 | 482 | 466 | 450 | 434 | 414 | 392 | 367 | 336 | 299 | | | | | |
| | | 1500 | 577 | 562 | 553 | 543 | 532 | 516 | 500 | 484 | 464 | 443 | 417 | 386 | 350 | | | | | |
| 1600 | 627 | 612 | 603 | 593 | 582 | 566 | 550 | 534 | 515 | 493 | 467 | 437 | 401 | | | | | | | |
| Adjustment path | | 73 | 72 | 72 | 71 | 70 | 69 | 68 | 67 | 65 | 64 | 62 | 60 | 58 | | | | | | |

Values in [mm]



Distance between axes

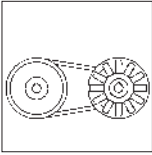
Type 11.101.20.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | 125 | 140 | 160 | 170 | 180 | 200 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 22 | Inner belt length | 800 | 179 | | | | | | | | | | | | |
| | | 850 | 204 | 193 | | | | | | | | | | | |
| | | 900 | 229 | 218 | 203 | 195 | | | | | | | | | |
| | | 950 | 254 | 243 | 228 | 220 | 212 | | | | | | | | |
| | | 1000 | 279 | 268 | 253 | 245 | 237 | 221 | | | | | | | |
| | | 1060 | 309 | 298 | 283 | 275 | 267 | 251 | 232 | | | | | | |
| | | 1120 | 339 | 328 | 313 | 305 | 297 | 281 | 262 | 240 | | | | | |
| | | 1180 | 369 | 358 | 343 | 335 | 327 | 311 | 292 | 270 | 244 | | | | |
| | | 1250 | 404 | 393 | 378 | 370 | 362 | 346 | 327 | 306 | 279 | | | | |
| | | 1320 | 439 | 428 | 413 | 405 | 397 | 381 | 362 | 340 | 315 | 284 | | | |
| | | 1400 | 479 | 468 | 453 | 445 | 437 | 421 | 402 | 380 | 355 | 324 | 289 | | |
| | | 1500 | 529 | 518 | 503 | 495 | 487 | 471 | 452 | 430 | 405 | 375 | 339 | | |
| 1600 | 580 | 568 | 553 | 545 | 537 | 521 | 502 | 480 | 455 | 425 | 390 | 349 | | | |
| 1700 | 630 | 618 | 603 | 595 | 587 | 571 | 552 | 531 | 505 | 476 | 441 | 400 | 354 | | |
| 1800 | 680 | 668 | 653 | 645 | 637 | 621 | 602 | 581 | 556 | 526 | 491 | 451 | 405 | | |
| Adjustment path | | 80 | 79 | 78 | 78 | 77 | 76 | 75 | 73 | 71 | 69 | 67 | 65 | 62 | |

Type 11.101.30.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | 140 | 160 | 180 | 200 | 208 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 28 | Inner belt length | 950 | 217 | 202 | | | | | | | | | | | |
| | | 1000 | 242 | 227 | 212 | | | | | | | | | | |
| | | 1060 | 272 | 257 | 242 | 227 | | | | | | | | | |
| | | 1120 | 302 | 287 | 272 | 257 | 251 | | | | | | | | |
| | | 1180 | 332 | 317 | 302 | 287 | 281 | 268 | 247 | | | | | | |
| | | 1250 | 367 | 352 | 337 | 322 | 316 | 303 | 282 | | | | | | |
| | | 1320 | 402 | 388 | 372 | 357 | 351 | 338 | 317 | 293 | | | | | |
| | | 1400 | 442 | 428 | 412 | 397 | 391 | 378 | 357 | 333 | 303 | | | | |
| | | 1500 | 493 | 478 | 462 | 447 | 441 | 428 | 407 | 383 | 353 | 319 | | | |
| | | 1600 | 543 | 528 | 513 | 497 | 491 | 478 | 457 | 433 | 404 | 369 | 329 | | |
| | | 1700 | 593 | 578 | 563 | 547 | 541 | 528 | 507 | 483 | 454 | 420 | 380 | | |
| | | 1800 | 643 | 628 | 613 | 597 | 591 | 578 | 557 | 533 | 504 | 470 | 431 | 386 | |
| 2000 | 743 | 728 | 713 | 697 | 691 | 678 | 658 | 633 | 604 | 570 | 532 | 487 | 441 | | |
| 2240 | 863 | 848 | 833 | 817 | 811 | 798 | 778 | 753 | 725 | 691 | 652 | 609 | 564 | | |
| Adjustment path | | 99 | 98 | 97 | 96 | 96 | 95 | 93 | 92 | 89 | 88 | 86 | 82 | 79 | |

Values in [mm]



Variable speed pulleys

Type 11.101

Distance between axes

Type 11.101.40/45.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 140 | 160 | 180 | 200 | 208 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 |
| | | Smallest axis distance | | | | | | | | | | | | |
| Variable speed belt size 47 | Inner belt length | 1120 | 263 | 249 | | | | | | | | | | |
| | | 1180 | 293 | 279 | 265 | | | | | | | | | |
| | | 1250 | 329 | 315 | 300 | 286 | 280 | 268 | | | | | | |
| | | 1320 | 364 | 350 | 335 | 321 | 315 | 303 | 283 | | | | | |
| | | 1400 | 404 | 390 | 375 | 361 | 355 | 343 | 323 | 299 | | | | |
| | | 1500 | 455 | 440 | 426 | 411 | 405 | 393 | 373 | 349 | 320 | | | |
| | | 1600 | 505 | 490 | 476 | 461 | 455 | 443 | 423 | 399 | 370 | 337 | | |
| | | 1700 | 555 | 541 | 526 | 511 | 505 | 493 | 473 | 449 | 421 | 387 | 349 | |
| | | 1800 | 605 | 591 | 576 | 561 | 555 | 543 | 523 | 499 | 471 | 438 | 399 | |
| | | 2000 | 706 | 691 | 676 | 661 | 655 | 643 | 623 | 599 | 571 | 538 | 500 | 457 |
| | 2240 | 826 | 811 | 796 | 781 | 775 | 763 | 743 | 719 | 691 | 658 | 620 | 577 | 533 |
| Adjustment path | | 127 | 125 | 124 | 123 | 122 | 121 | 119 | 117 | 114 | 112 | 109 | 106 | 102 |

Type 11.101.55.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 200 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 |
| | | Smallest axis distance | | | | | | | | | |
| Variable speed belt size 55 | Inner belt length | 1250 | 259 | | | | | | | | |
| | | 1320 | 294 | 277 | | | | | | | |
| | | 1400 | 334 | 317 | 298 | | | | | | |
| | | 1500 | 385 | 367 | 348 | 325 | | | | | |
| | | 1600 | 435 | 417 | 398 | 375 | 347 | | | | |
| | | 1700 | 485 | 467 | 448 | 425 | 397 | 365 | | | |
| | | 1800 | 535 | 517 | 498 | 475 | 447 | 415 | 377 | | |
| | | 2000 | 635 | 617 | 598 | 575 | 547 | 515 | 478 | 435 | |
| | | 2240 | 754 | 738 | 718 | 695 | 667 | 635 | 598 | 556 | 513 |
| Adjustment path | | 144 | 140 | 138 | 136 | 133 | 130 | 127 | 123 | 119 | 114 |

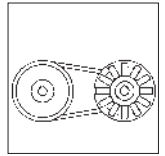
Type 11.101.65.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|
| | | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 7100 | 800 | |
| | | Smallest axis distance | | | | | | | | | | |
| Variable speed belt size 70 | Inner belt length | 1700 | 389 | 362 | | | | | | | | |
| | | 1800 | 439 | 412 | 381 | | | | | | | |
| | | 2000 | 539 | 512 | 481 | 445 | | | | | | |
| | | 2240 | 659 | 632 | 601 | 565 | 524 | 482 | | | | |
| | | 2500 | 789 | 762 | 731 | 695 | 654 | 613 | 561 | | | |
| | | 2800 | 939 | 913 | 881 | 845 | 805 | 763 | 712 | 651 | 579 | |
| | | 3150 | 1115 | 1088 | 1056 | 1020 | 980 | 939 | 888 | 828 | 757 | 675 |
| | | 3210 | 1145 | 1118 | 1086 | 1050 | 1010 | 969 | 918 | 858 | 787 | 705 |
| | | 3520 | 1300 | 1273 | 1241 | 1205 | 1165 | 1124 | 1074 | 1014 | 943 | 863 |
| | Adjustment path | | 161 | 159 | 157 | 155 | 152 | 149 | 145 | 141 | 137 | 131 |

Type 11.101.80.1.1

| Driven pulleys | | Rated diameter | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|
| | | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 710 | 800 | |
| | | Smallest axis distance | | | | | | | | | | |
| Variable speed belt size 70 | Inner belt length | 1700 | 377 | | | | | | | | | |
| | | 1800 | 427 | 400 | | | | | | | | |
| | | 2000 | 527 | 500 | 469 | 434 | | | | | | |
| | | 2240 | 647 | 620 | 589 | 554 | 513 | 471 | | | | |
| | | 2500 | 777 | 751 | 719 | 684 | 643 | 602 | 551 | | | |
| | | 2800 | 927 | 901 | 869 | 834 | 793 | 752 | 701 | 641 | 569 | |
| | | 3150 | 1102 | 1076 | 1044 | 1009 | 969 | 927 | 877 | 817 | 747 | 665 |
| | | 3210 | 1132 | 1106 | 1074 | 1039 | 999 | 958 | 907 | 847 | 777 | 695 |
| | | 3520 | 1288 | 1261 | 1229 | 1194 | 1154 | 1113 | 1063 | 1003 | 933 | 853 |
| | Adjustment path | | 158 | 156 | 155 | 152 | 149 | 146 | 143 | 139 | 135 | 129 |

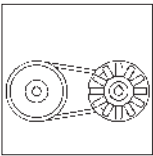
Values in [mm]



Selection tables

| Type | Motor speed [min ⁻¹] | Power [kW] | Inner counter pulley diameter [mm] | | | | | | | | |
|---------------|-------------------------------------|---------------|------------------------------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| | | | 80 | 90 | 100 | 112 | 125 | 140 | 160 | 170 | 180 |
| 11.104.05.6.1 | 2810 | 0.55 | 3961- 1591 | 3535- 1420 | 3192- 1282 | 2859- 1148 | 2569- 1032 | 2299- 924 | 2017- 810 | | 1797-722 |
| | 1380 | 0.37 | 1945- 781 | 1736- 697 | 1568- 630 | 1404- 564 | 1261- 507 | 1129- 454 | 991- 398 | | 882-354 |
| | 910 | 0.25 | 1283- 515 | 1145- 460 | 1034- 415 | 926- 372 | 832- 334 | 745- 299 | 653- 262 | | 582-234 |
| | 675 | 0.18 | 952- 382 | 849- 341 | 767- 308 | 687- 276 | 617- 248 | 552- 222 | 485- 195 | | 432-173 |
| 11.104.10.6.1 | 2820 | 1.1 | 5069- 1880 | | 4094- 1518 | 3671- 1361 | 3301- 1224 | 2957- 1097 | 2596- 963 | | 2314-858 |
| | 1400 | 0.75 | 2517- 933 | | 2033- 754 | 1822- 676 | 1639- 608 | 1468- 544 | 1289- 478 | | 1149-426 |
| | 920 | 0.55 | 1654- 613 | | 1336- 495 | 1198- 444 | 1077- 399 | 965- 358 | 874- 314 | | 755-280 |
| | 670 | 0.37 | 1204- 447 | | 973- 361 | 872- 323 | 784- 291 | 703- 261 | 617- 229 | | 550-204 |
| 11.104.20.6.1 | 2835 | 2.2 | | | | | 3868- 1407 | 3465- 1260 | 3042- 1106 | | 2712-986 |
| | 1410 | 1.5 | | | | | 1924- 700 | 1723- 627 | 1513- 520 | | 1349-490 |
| | 910 | 1.1 | | | | | 1242- 451 | 1112- 404 | 977- 355 | | 870-317 |
| | 670 | 0.55 | | | | | 914- 332 | 819- 298 | 719- 261 | | 641-233 |
| 11.104.30.6.1 | 2880 | 4 | | | | | | 4270- 1430 | 3753- 1257 | 3538- 1185 | 3347-1121 |
| | 1410 | 3 | | | | | | 2091- 700 | 1837- 615 | 1732- 580 | 1639-549 |
| | 950 | 1.5 | | | | | | 1409- 472 | 1238- 415 | 1167- 391 | 1104-370 |
| | 690 | 1.1 | | | | | | 1023- 343 | 899- 301 | 848- 284 | 802-269 |

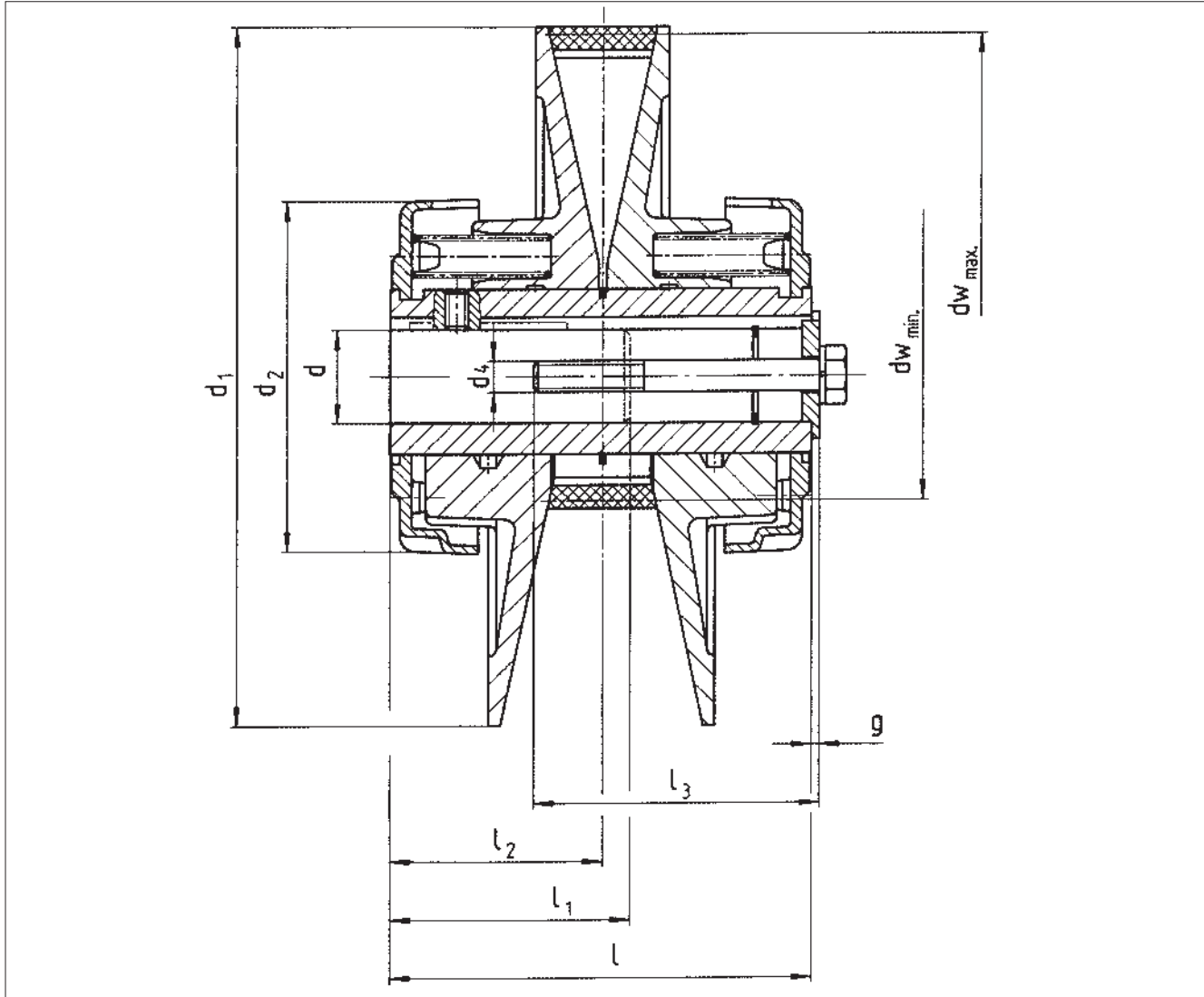
| Type | Motor speed [min ⁻¹] | Power [kW] | Inner counter pulley diameter [mm] | | | | | | | | |
|---------------|-------------------------------------|---------------|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| | | | 200 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 |
| 11.104.05.6.1 | 2810 | 0.55 | 1620- 651 | 1448- 582 | 1299- 522 | 1162- 467 | 1034- 415 | | | | |
| | 1380 | 0.37 | 795- 320 | 711- 286 | 638- 256 | 571- 229 | 508- 204 | | | | |
| | 910 | 0.25 | 524- 211 | 469- 188 | 421- 169 | 376- 151 | 335- 134 | | | | |
| | 675 | 0.18 | 389- 157 | 348- 140 | 312- 125 | 279- 112 | 248- 100 | | | | |
| 11.104.10.6.1 | 2820 | 1.1 | 2087- 774 | 1868- 693 | 1676- 622 | 1499- 556 | 1335- 495 | 1186- 440 | | | |
| | 1400 | 0.75 | 1036- 384 | 927- 344 | 832- 309 | 744- 276 | 663- 246 | 589- 218 | | | |
| | 920 | 0.55 | 681- 253 | 609- 226 | 547- 203 | 489- 181 | 435- 162 | 387- 144 | | | |
| | 670 | 0.37 | 496- 184 | 444- 165 | 398- 148 | 356- 132 | 317- 118 | 282- 105 | | | |
| 11.104.20.6.1 | 2835 | 2.2 | 2446- 889 | 2188- 796 | 1964- 713 | 1757- 639 | 1564- 569 | 1390- 505 | 1235- 449 | 1099- 400 | |
| | 1410 | 1.5 | 1216- 442 | 1088- 396 | 977- 355 | 874- 318 | 778- 283 | 691- 251 | 614- 223 | 547- 199 | |
| | 910 | 1.1 | 784- 285 | 702- 255 | 631- 229 | 564- 205 | 502- 183 | 446- 162 | 396- 144 | 353- 128 | |
| | 670 | 0.55 | 578- 210 | 517- 188 | 464- 169 | 415- 151 | 370- 134 | 328- 119 | 292- 106 | 260- 94 | |
| 11.104.30.6.1 | 2880 | 4 | 3020- 1016 | 2704- 906 | 2428- 813 | 2173- 728 | 1935- 648 | 1720- 576 | 1720- 512 | 1361- 456 | 1226-411 |
| | 1410 | 3 | 1479- 495 | 1324- 443 | 1189- 398 | 1064- 356 | 947- 317 | 842- 282 | 749- 251 | 666- 223 | 600-201 |
| | 950 | 1.5 | 996- 334 | 892- 299 | 801- 268 | 717- 240 | 638- 214 | 567- 190 | 504- 169 | 449- 150 | 404-135 |
| | 690 | 1.1 | 724- 242 | 648- 217 | 582- 195 | 521- 174 | 464- 155 | 412- 138 | 366- 123 | 326- 109 | 294- 98 |



Variable speed pulleys

Type 11.104

Dimensions



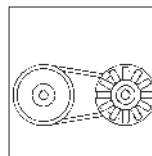
6

| Type | Belt size | d ^{H7} 1) | | d _w | | d ₁ | d ₂ | Clamping screw ²⁾ | | g | l | l ₁ min. | l ₂ | J [kg m ²] | m [kg] |
|---------------|-----------|--------------------|-------|----------------|------|----------------|----------------|------------------------------|---------------------------------|-----|-----|------------------------|----------------|---------------------------|-----------|
| | | min. | Stand | min. | max. | | | Bore | d ₄ x l ₃ | | | | | | |
| 11.104.05.6.1 | 22 | 11 | 14/19 | 47 | 117 | 120 | 68 | d < 14 d > 14 | M 6x 55 M 6x 50 | 1.5 | 72 | 30 | 36 | 0.00062 | 0.77 |
| 11.104.10.6.1 | 28 | 14 | 19/24 | 56 | 151 | 155 | 80 | d < 19 d > 19 | M 6x 70 M 8x 65 | 2 | 94 | 35 | 47 | 0.0022 | 1.4 |
| 11.104.20.6.1 | 28 | 19 | 24/28 | 64 | 176 | 180 | 90 | d < 24 d > 24 | M 8x 75 M 10x 70 | 2 | 108 | 40 | 54 | 0.0038 | 2 |
| 11.104.30.6.1 | 37 | 24 | 28 | 72 | 215 | 220 | 104 | d < 24 d > 24 | M 8x 100 M 10x 95 | 2 | 130 | 50 | 65 | 0.0093 | 3.2 |

1) Keyway to DIN 6885 part 1

2) Either with clamping screw or threaded pin

Dimensions in [mm]



Distance between axes

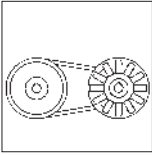
Type 11.104.05.6.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 80 | 90 | 100 | 112 | 125 | 140 | 160 | 180 | 200 | 224 | 250 | 280 | 315 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 37 | Inner belt length | 610 | 161 | 154 | 146 | 137 | | | | | | | | | |
| | | 650 | 181 | 174 | 166 | 157 | 147 | | | | | | | | |
| | | 675 | 194 | 186 | 179 | 169 | 159 | 147 | | | | | | | |
| | | 700 | 206 | 199 | 191 | 182 | 172 | 159 | | | | | | | |
| | | 750 | 231 | 224 | 216 | 207 | 197 | 185 | 168 | | | | | | |
| | | 800 | 256 | 249 | 241 | 232 | 222 | 210 | 193 | 176 | | | | | |
| | | 850 | 281 | 274 | 266 | 257 | 247 | 235 | 218 | 201 | 184 | | | | |
| | | 900 | 306 | 299 | 291 | 282 | 272 | 260 | 243 | 226 | 209 | 187 | | | |
| | | 950 | 331 | 324 | 316 | 307 | 297 | 285 | 268 | 251 | 234 | 213 | 189 | | |
| | | 1000 | 356 | 349 | 341 | 332 | 322 | 310 | 293 | 276 | 259 | 238 | 215 | | |
| | | 1060 | 387 | 379 | 371 | 362 | 352 | 340 | 323 | 307 | 289 | 268 | 245 | 217 | |
| | | 1120 | 417 | 409 | 401 | 392 | 382 | 370 | 353 | 337 | 320 | 299 | 276 | 248 | |
| | | 1180 | 447 | 439 | 431 | 422 | 412 | 400 | 383 | 367 | 350 | 329 | 306 | 277 | 246 |
| | | 1250 | 482 | 474 | 466 | 457 | 447 | 435 | 418 | 402 | 385 | 364 | 341 | 314 | 282 |
| | | 1320 | 517 | 509 | 501 | 492 | 482 | 470 | 453 | 437 | 420 | 400 | 377 | 350 | 318 |
| 1400 | 557 | 549 | 541 | 532 | 522 | 510 | 494 | 477 | 460 | 440 | 417 | 390 | 358 | | |
| 1500 | 607 | 599 | 591 | 582 | 572 | 560 | 544 | 527 | 510 | 490 | 468 | 441 | 409 | | |
| 1600 | 657 | 649 | 641 | 632 | 622 | 610 | 594 | 577 | 561 | 540 | 518 | 492 | 460 | | |
| Adjustment path | | 55 | 54 | 53 | 53 | 52 | 51 | 50 | 49 | 48 | 46 | 45 | 44 | 43 | |

Type 11.104.10.6.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 80 | 100 | 112 | 125 | 140 | 160 | 180 | 200 | 224 | 250 | 280 | 315 | 355 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 47 | Inner belt length | 650 | 156 | 142 | | | | | | | | | | | |
| | | 700 | 181 | 167 | 158 | | | | | | | | | | |
| | | 750 | 206 | 192 | 183 | 173 | | | | | | | | | |
| | | 800 | 231 | 217 | 208 | 198 | 187 | | | | | | | | |
| | | 850 | 257 | 242 | 233 | 223 | 212 | 196 | 180 | | | | | | |
| | | 900 | 282 | 267 | 258 | 248 | 237 | 221 | 205 | | | | | | |
| | | 950 | 307 | 292 | 283 | 274 | 262 | 246 | 230 | 213 | | | | | |
| | | 1000 | 332 | 317 | 308 | 299 | 287 | 271 | 255 | 239 | 218 | | | | |
| | | 1060 | 362 | 347 | 338 | 329 | 317 | 301 | 285 | 269 | 248 | 226 | | | |
| | | 1120 | 392 | 377 | 368 | 359 | 347 | 331 | 315 | 299 | 278 | 256 | 229 | | |
| | | 1180 | 422 | 407 | 398 | 389 | 377 | 361 | 345 | 329 | 309 | 286 | 260 | | |
| | | 1250 | 457 | 443 | 433 | 424 | 412 | 396 | 380 | 364 | 344 | 322 | 295 | 267 | |
| | | 1320 | 492 | 478 | 469 | 459 | 447 | 431 | 415 | 399 | 379 | 357 | 331 | 299 | |
| | | 1400 | 533 | 518 | 509 | 499 | 487 | 471 | 455 | 439 | 419 | 397 | 371 | 340 | 303 |
| | | 1500 | 583 | 568 | 559 | 549 | 537 | 521 | 505 | 489 | 469 | 447 | 421 | 390 | 354 |
| 1600 | 633 | 618 | 609 | 599 | 587 | 571 | 555 | 539 | 519 | 497 | 472 | 441 | 405 | | |
| Adjustment path | | 76 | 75 | 73 | 72 | 71 | 70 | 68 | 67 | 65 | 64 | 62 | 60 | 59 | |

Values in [mm]



Variable speed pulleys

Type 11.104

Distance between axes

Type 11.104.20.6.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | 125 | 140 | 160 | 180 | 200 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 47 | Inner belt length | 800 | 178 | | | | | | | | | | | | |
| | | 850 | 203 | 192 | | | | | | | | | | | |
| | | 900 | 228 | 217 | 202 | | | | | | | | | | |
| | | 950 | 253 | 242 | 227 | 211 | | | | | | | | | |
| | | 1000 | 278 | 267 | 252 | 236 | 220 | | | | | | | | |
| | | 1060 | 308 | 297 | 282 | 266 | 250 | 230 | | | | | | | |
| | | 1120 | 338 | 327 | 312 | 296 | 280 | 260 | 238 | | | | | | |
| | | 1180 | 368 | 357 | 342 | 326 | 310 | 290 | 269 | 243 | | | | | |
| | | 1250 | 403 | 392 | 377 | 361 | 345 | 325 | 304 | 278 | | | | | |
| | | 1320 | 438 | 427 | 412 | 396 | 380 | 360 | 339 | 313 | 282 | | | | |
| | | 1400 | 478 | 467 | 452 | 436 | 420 | 400 | 379 | 353 | 323 | 287 | | | |
| | | 1500 | 528 | 517 | 502 | 486 | 470 | 451 | 429 | 404 | 373 | 338 | | | |
| | | 1600 | 578 | 567 | 552 | 536 | 520 | 501 | 479 | 454 | 424 | 388 | 347 | | |
| 1700 | 628 | 617 | 602 | 586 | 570 | 551 | 529 | 504 | 474 | 439 | 398 | 352 | | | |
| 1800 | 679 | 667 | 652 | 636 | 620 | 601 | 579 | 554 | 524 | 489 | 449 | 402 | | | |
| Adjustment path | | 87 | 86 | 84 | 82 | 81 | 79 | 77 | 75 | 74 | 71 | 70 | 67 | | |

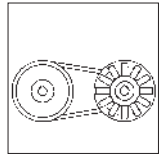
Type 11.104.30.6.1

| Driven pulleys | | Rated diameter | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 140 | 160 | 170 | 180 | 200 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | |
| | | Smallest axis distance | | | | | | | | | | | | | |
| Variable speed belt size 47 | Inner belt length | 950 | 213 | 199 | | | | | | | | | | | |
| | | 1000 | 239 | 224 | 217 | 209 | | | | | | | | | |
| | | 1060 | 269 | 254 | 247 | 239 | 224 | | | | | | | | |
| | | 1120 | 299 | 284 | 277 | 269 | 254 | | | | | | | | |
| | | 1180 | 329 | 314 | 307 | 299 | 284 | 265 | 244 | | | | | | |
| | | 1250 | 364 | 349 | 342 | 334 | 319 | 300 | 279 | | | | | | |
| | | 1320 | 399 | 384 | 377 | 369 | 354 | 335 | 314 | 289 | | | | | |
| | | 1400 | 439 | 424 | 417 | 409 | 394 | 375 | 354 | 329 | 300 | | | | |
| | | 1500 | 489 | 474 | 467 | 459 | 444 | 425 | 404 | 379 | 350 | 315 | | | |
| | | 1600 | 539 | 524 | 517 | 509 | 494 | 475 | 454 | 430 | 400 | 366 | 326 | | |
| | | 1700 | 590 | 575 | 567 | 559 | 544 | 525 | 504 | 480 | 450 | 416 | 377 | | |
| | | 1800 | 640 | 625 | 617 | 609 | 594 | 575 | 554 | 530 | 501 | 466 | 427 | 382 | |
| | | 2000 | 740 | 725 | 717 | 709 | 694 | 675 | 654 | 630 | 601 | 567 | 528 | 484 | 438 |
| 2240 | 860 | 845 | 837 | 829 | 814 | 795 | 774 | 750 | 721 | 688 | 649 | 605 | 560 | | |
| Adjustment path | | 112 | 110 | 108 | 108 | 106 | 105 | 102 | 100 | 98 | 96 | 93 | 90 | 88 | |

Values in [mm]

Variable speed pulleys

Calculation of axis distance



The tables on pages 6-8 to 6-10 and 6-13 to 6-14 list the smallest axis distance for different inner diameters of the driven wheel depending on different inner belt lengths.

Use the following equations for the calculation.

$$A \text{ or } A_1 = \frac{1}{2} \left[L_w - 1.57 (D_w + d_w) - \frac{(D_w - d_w)^2}{L_w} \right]$$

$$s = A_1 - A$$

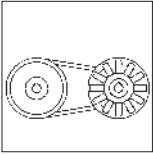
$$L_w = 2 A + 1.57 (D_w + d_w) + \frac{(D_w - d_w)^2}{4 A}$$

$$L_w = L_i + x$$

| | | | | | | |
|--------------------------|----|----|----|----|----|----|
| Variable speed belt size | 22 | 28 | 37 | 47 | 55 | 70 |
| X in mm | 28 | 38 | 47 | 61 | 75 | 85 |

- A = smallest axis distance for largest variable speed pulley diameter (max. output speed)
- A₁ = largest axis distance for smallest variable speed pulley diameter (min. output speed)
- s = adjustment path, roughly applicable: large adjustment path for small driven pulleys, small adjustment path for large driven pulleys. The tables on pages 6-8 to 6-10 and 6-13 to 6-14 give the values for the adjustment path.
- D_w = effective diameter of larger pulley (can be largest effective diameter of variable speed pulley or effective diameter of driven pulleys).

- d_w = effective diameter of smaller pulley (can be smallest effective diameter of variable speed pulley or effective diameter of driven pulleys). For d_w values see tables on pages 6-7, 6-12 and 6-19.
- L_w = effective length of variable speed belt
- L_i = inner length of variable speed belt



Variable speed pulleys

Motor slide

Simplabelt motor slides are rugged and very flat. The surface is very strong and ensures smooth running of the variable speed pulleys. The adjustment range is limited by two stops. 4 slide sizes in 4 designs are available.

Normal design

The spindle with belt wheel is bent by 30° to the top.

U design

Like normal design but the spindle is bent to the bottom.

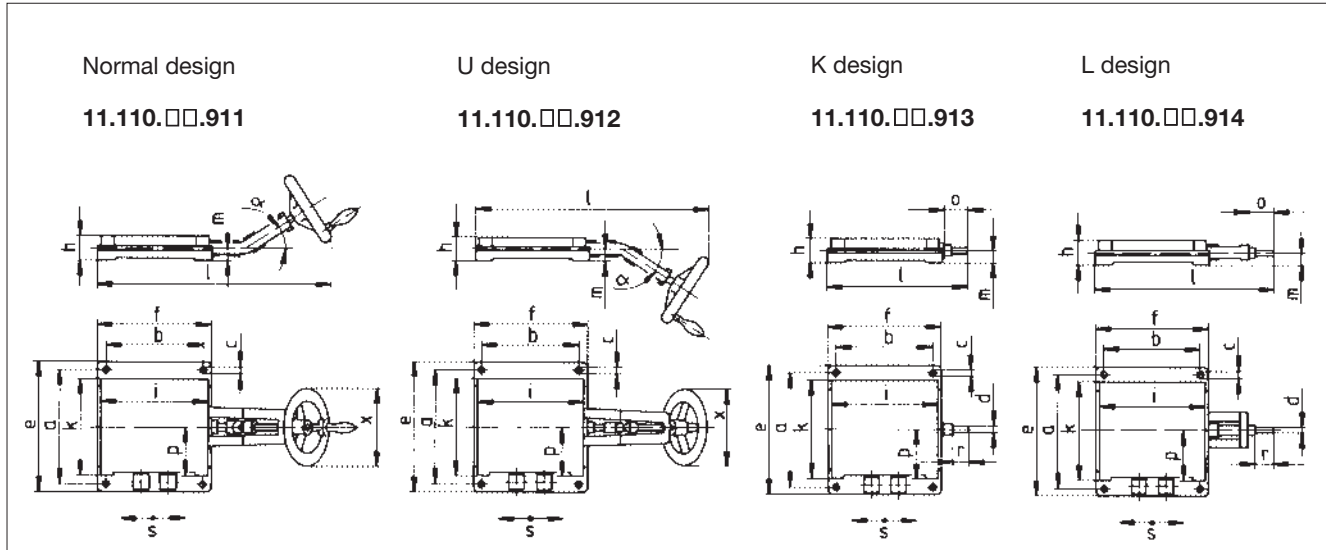
K design

Short spindle

This design is necessary to extend the spindle.

L design

Long spindle – for chain and bevel wheel adjustment.

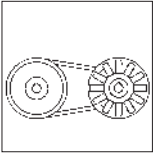


| Size | Type | a | b | c | d k ₆ | e | f | h | i | k | l | m | o | p | r | s* | x | α° | m kg |
|------|---------------|-----|-----|------|---------------------|-----|-----|----|-----|-----|-----|------|----|-----|-----|-----|-----|----|---------|
| 05 | 11.110.05.911 | 160 | 170 | 9 | - | 180 | 195 | 47 | 150 | 150 | 305 | 25 | - | 75 | - | 67 | 80 | 30 | 5 |
| | 11.110.05.912 | | | | 8 | | | | | | 13 | | - | | | | | | |
| | 11.110.05.913 | | | | 8 | | | | | | 23 | | - | | | | | | |
| | 11.110.05.914 | | | | 8 | | | | | | 23 | | - | | | | | | |
| 20 | 11.110.20.911 | 210 | 180 | 13 | - | 240 | 210 | 44 | 235 | 215 | 418 | 25.5 | - | 90 | - | 97 | 142 | 33 | 11 |
| | 11.110.20.912 | | | | - | | | | | | 48 | | 38 | | 142 | | 33 | | |
| | 11.110.20.913 | | | | 12 | | | | | | 46 | | 46 | | - | | - | | |
| | 11.110.20.914 | | | | 12 | | | | | | 46 | | 46 | | - | | - | | |
| 40 | 11.110.40.911 | 235 | 255 | 13.5 | - | 270 | 290 | 60 | 290 | 235 | 521 | 32 | - | 100 | - | 142 | 140 | 30 | 18.5 |
| | 11.110.40.912 | | | | - | | | | | | 62 | | 16 | | 140 | | 30 | | |
| | 11.110.40.913 | | | | 12 | | | | | | 47 | | 20 | | - | | - | | |
| | 11.110.40.914 | | | | 12 | | | | | | 47 | | 20 | | - | | - | | |
| 70 | 11.110.70.911 | 255 | 435 | 14 | - | 290 | 470 | 60 | 400 | 360 | 706 | 28 | - | 180 | - | 180 | 180 | 30 | 38 |
| | 11.110.70.912 | | | | - | | | | | | 53 | | 35 | | 180 | | 30 | | |
| | 11.110.70.913 | | | | 16 | | | | | | 22 | | 22 | | - | | - | | |
| | 11.110.70.914 | | | | 16 | | | | | | 22 | | 22 | | - | | - | | |

s* indicates the max. adjustment path. The adjustment path required is calculated according to the equation on page 6-15.

Roughly applicable: Large adjustment path for small driven pulleys, small adjustment path for large driven pulleys

Dimensions in [mm]



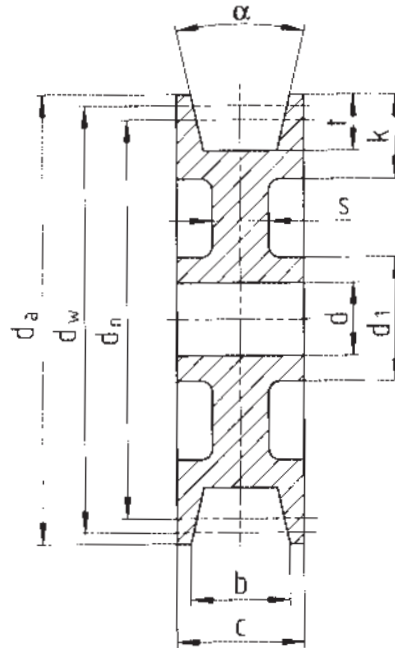
Variable speed pulleys

Driven pulleys

Simplabelt driven pulleys are made of cast iron and are statically balanced. The running grooves match the dimensions of the Simplabelt variable speed belts. The size designation refers to the corresponding spring-loaded variable speed pulley type 101 or 104.

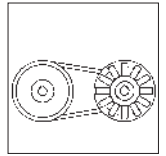
The ready-bored driven pulleys are delivered with keyway to DIN 6885 sheet 1 and ISO fit H 7. Therefore the shaft fit should be ISO-k 6. Please indicate in your order designation, rated diameter and bore.

The driven pulley is mounted onto the machine shaft to be driven or the input shaft of a reducing gearbox.



Variable speed pulleys

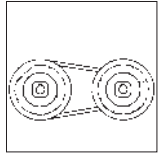
Driven pulleys



| Type | Variable speed pulley type 11.101 11.104 Size | | Variable speed belt size | b | c | k | s | t | §° |
|--------------------------------|--|-------|--------------------------|----|----|----|----|----|----|
| 11.110.05.921 11.110.05.922 | 05 | 05 | 22 | 22 | 26 | 25 | 13 | 17 | 25 |
| 11.110.10.921 11.110.10.922 | 10 | 10/20 | 28 | 28 | 32 | 28 | 13 | 18 | 25 |
| 11.110.20.921 11.110.20.922 | 20 | 30 | 37 | 37 | 43 | 39 | 13 | 20 | 28 |
| 11.110.40.921 11.110.40.922 | 30/40/45 | - | 47 | 47 | 52 | 32 | 13 | 22 | 28 |
| 11.110.50.921 11.110.50.922 | 55 | - | 55 | 55 | 70 | 40 | 14 | 28 | 28 |
| 11.110.70.921 11.110.70.922 | 65/80 | - | 70 | 70 | 85 | 49 | 15 | 37 | 28 |

| Type | dn | Inner diameter of driven pulleys | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------|----------------------------------|----|-----|-----|-----|-------|-------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-----|-----|-----|-----|-----|----|--|--|--|
| | | 80 | 90 | 100 | 112 | 125 | 140 | 160 | 170 | 180 | 200 | 208 | 224 | 250 | 280 | 315 | 355 | 400 | 450 | 500 | 560 | 630 | 710 | 800 | | | | | |
| 11.110.05.921 | d1) | | | | | | 10 | | 10 | 10 | | 10 | 10 | 10 | | | | | | | | | | | | | | | |
| | d max. | 28 | 28 | 28 | 28 | 30 | 30 | 30 | | 30 | 30 | | 35 | 35 | 35 | 40 | | | | | | | | | | | | | |
| 11.110.05.922 | d 1 | | | | 45 | 50 | 50 | 50 | | 55 | 55 | | 55 | 55 | 55 | 65 | | | | | | | | | | | | | |
| | da | 86 | 96 | 106 | 118 | 131 | 145 | 166 | | 186 | 206 | | 230 | 256 | 286 | 321 | | | | | | | | | | | | | |
| 11.110.10.921 | dw | 83 | 93 | 103 | 115 | 128 | 143 | 163 | | 183 | 203 | | 227 | 253 | 283 | 318 | | | | | | | | | | | | | |
| | d1) | | | | | | 10 | 10 | | 10 | 10 | | 10 | 10 | 12 | 12 | 12 | 12 | 12 | | | | | | | | | | |
| 11.110.10.922 | d max. | 30 | | 30 | 35 | 35 | 28* | 40 | | 40 | 40 | | 40 | 40 | 45 | 45 | 45 | 50 | 50 | | | | | | | | | | |
| | d1 | | | | | | 44 | 65 | | 65 | 65 | | 65 | 65 | 70 | 70 | 70 | 70 | 70 | | | | | | | | | | |
| 11.110.20.921 | da | 88 | | 108 | 120 | 133 | 148 | 168 | | 188 | 208 | | 232 | 258 | 288 | 323 | 363 | 408 | 458 | | | | | | | | | | |
| | dw | 84 | | 104 | 116 | 129 | 144 | 164 | | 184 | 204 | | 228 | 254 | 284 | 319 | 359 | 404 | 454 | | | | | | | | | | |
| 11.110.20.922 | d1) | | | | | 12 | 12 | 14 | 14 | 14 | 14 | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | | | | | | | | | |
| | d max. | | | | | 40 | 28* | 40 | 30* | 40 | 30* | | 45 | 45 | 45 | 45 | 50 | 50 | 50 | 50 | | | | | | | | | |
| 11.110.40.921 | d1 | | | | | | 48 | 65 | 48 | 65 | 50 | | 70 | 70 | 70 | 70 | 80 | 80 | 80 | 80 | | | | | | | | | |
| | da | | | | | 135 | 150 | 170 | 180 | 190 | 210 | | 234 | 260 | 290 | 325 | 365 | 410 | 460 | 510 | | | | | | | | | |
| 11.110.40.922 | dw | | | | | 130 | 145 | 165 | 175 | 185 | 205 | | 229 | 255 | 285 | 320 | 360 | 405 | 455 | 505 | | | | | | | | | |
| | d1) | | | | | | 14 | 16 | | 16 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 18 | 18 | | | | | | | | | |
| 11.110.50.921 | d max. | | | | | | 40 | 40 | | 40 | 50 | 50 | 50 | 50 | 50 | 40 | 55 | 60 | 60 | 65 | | | | | | | | | |
| | d1 | | | | | | | 75 | 75 | 85 | 85 | 85 | 85 | 85 | 85 | 64 | 95 | 95 | 95 | 105 | | | | | | | | | |
| 11.110.50.922 | da | | | | | | 153 | 173 | | 193 | 213 | 221 | 237 | 263 | 293 | 328 | 368 | 413 | 463 | 513 | | | | | | | | | |
| | dw | | | | | | 146.5 | 166.5 | | 186.5 | 206.5 | 214.5 | 230.5 | 256.5 | 286.5 | 321.5 | 361.5 | 406.5 | 456.5 | 506.5 | | | | | | | | | |
| 11.110.70.921 | d1) | | | | | | | | | | | 18 | 18 | 18 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 25 | 25 | 28 | 28 | | | |
| | d max. | | | | | | | | | | | 55 | 55 | 55 | 60 | 60 | 60 | 60 | 70 | 70 | 70 | 70 | 75 | 75 | 80 | 80 | | | |
| 11.110.70.922 | d1 | | | | | | | | | | | 90 | 90 | 90 | 95 | 95 | 95 | 95 | 110 | 110 | 110 | 120 | 120 | 130 | 130 | | | | |
| | da | | | | | | | | | | | 216 | 240 | 266 | 296 | 331 | 371 | 416 | 466 | 516 | 576 | | | | | | | | |
| 11.110.70.922 | dw | | | | | | | | | | | 208 | 232 | 258 | 288 | 323 | 363 | 408 | 458 | 508 | 568 | | | | | | | | |
| | d1) | | | | | | | | | | | | | | | 22 | 22 | 22 | 22 | 22 | 22 | 25 | 25 | 28 | 28 | | | | |
| 11.110.70.922 | d max. | | | | | | | | | | | | | | | 60 | 60 | 60 | 70 | 70 | 70 | 75 | 75 | 80 | 80 | | | | |
| | d1 | | | | | | | | | | | | | | | 95 | 95 | 95 | 110 | 110 | 110 | 120 | 120 | 130 | 130 | | | | |
| 11.110.70.922 | da | | | | | | | | | | | | | | | 298 | 333 | 373 | 418 | 468 | 518 | 578 | 648 | 728 | 818 | | | | |
| | dw | | | | | | | | | | | | | | | 289 | 324 | 364 | 409 | 459 | 509 | 569 | 639 | 719 | 809 | | | | |
| | | Full pulleys | | | | | | Full ground | | | | | | | | | | | | Spoke design | | | | | | | | | |

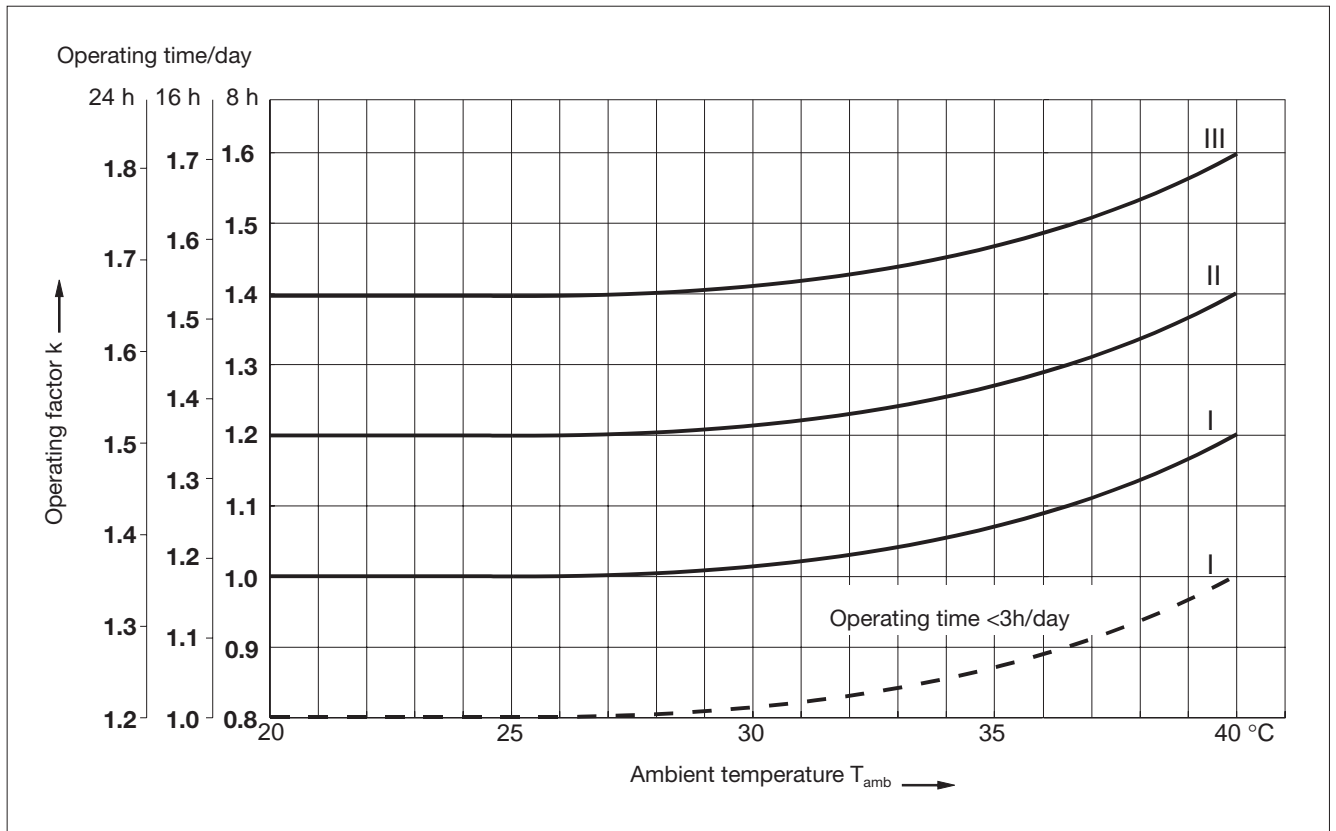
1) Pre-bored hole
 * Spoke design only in position 2
 Values in [mm]

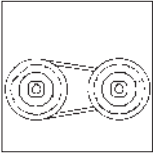


Selection

Simplabelt variable speed pulleys are selected according to the power P_2 and output speeds n_2 required. It is important to consider that the power and torque required for the machine to be driven might be different for max. and min. speeds. The power to be transmitted can be obtained from

the corresponding power characteristic of the variable speed pulleys. The power data given in these characteristics refer to an operating time of 8h/day and 100 % duty time and shock-free operation. For other operating conditions, please see the operating factors in the diagram.





Variable speed pulleys

Type 11.213/11.218

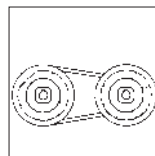
Selection table

| Three-phase AC motor | | | Variable speed pulleys | | |
|--|-------------|------------------------------|----------------------------------|-----------------------------------|---------------|
| Power kW | Size | Load speed min ⁻¹ | Output speed min ⁻¹ | Transm. power kW | Size |
| Variable speed pulleys 11.213/218 | | | | | |
| 0.37/0.25 0.25/0.18 0.18/0.12 | 71 | 1380 910 680 | 3320-600 2190-400 1635-300 | 0.35-0.2 0.22-0.15 0.18-0.1 | 10 SEF-920 |
| 1.5/1.1/0.75 1.1/0.75/0.55 /0.55/0.37 | 90/80 | 1400 920 675 | 3285-620 2160-410 1585-305 | 1.3-0.5 0.95-0.4 0.65-0.3 | 13 SEF-926 |
| 3/2.2/1.5 2.2/1.5/1.1 1.1/0.55 | 100/90 | 1410 920 710 | 3540-580 2310-380 1780-290 | 2.6-1.1 1.7-0.7 1.3-0.5 | 16 SEF-926 |
| 5.5 ¹⁾ /4/3 3/2.2/1.5 1.5/1.1 | 112/100 | 1420 940 700 | 3675-565 2435-375 1800-280 | 4.7-1.7 3.0-1.1 2.3-0.8 | 20 SEF-926 |
| 11/9.2/7.5 7.5/5.5/4 4/2.2 | 160/132 | 1440 960 710 | 3725-570 2485-380 1840-280 | 9.4-3.5 6.2-1.8 4.6-1.4 | 25 SEF-928 |
| 11/9.2/7.5 7.5/5.5 5.5/4 | 160/132 | 1460 965 720 | 3780-570 2500-380 1865-285 | 11-5 6.6-3 4.8-2.2 | 31 SEF-920 |
| 18.5/15 15/11 11/7.5 | 180/160 | 1460 965 720 | 3780-570 2500-380 1865-285 | 18.5-7.1 15-5.7 11-3.8 | 31 SEF-921 |
| 45/37/30/22 30/22/15 22/15/11 | 225/200/180 | 1460 954 720 | 2740-485 1810-320 1350-240 | 40-12 26-8 19-6 | 40 SEF-926 |

¹⁾ Motor with shaft like size 112

Variable speed pulleys

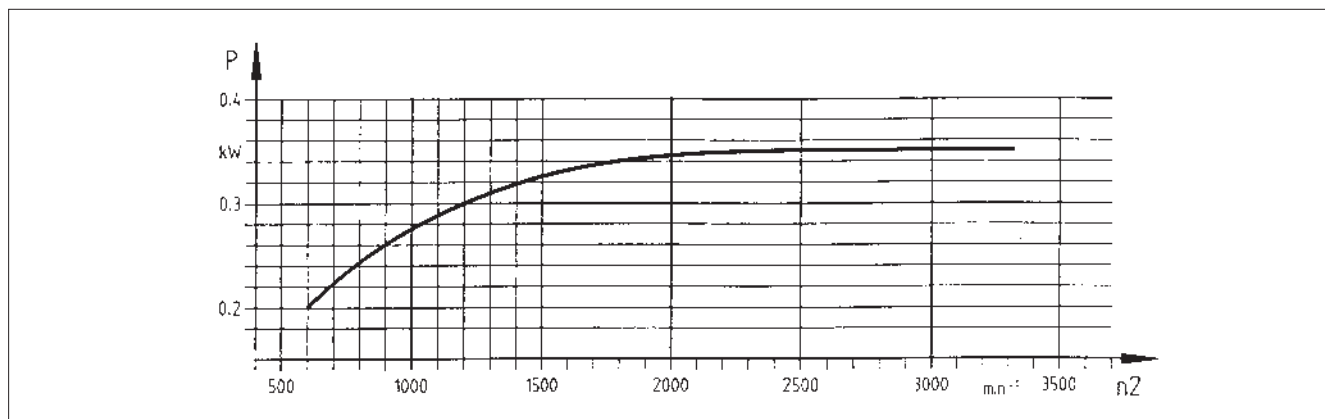
Type 11.213.10



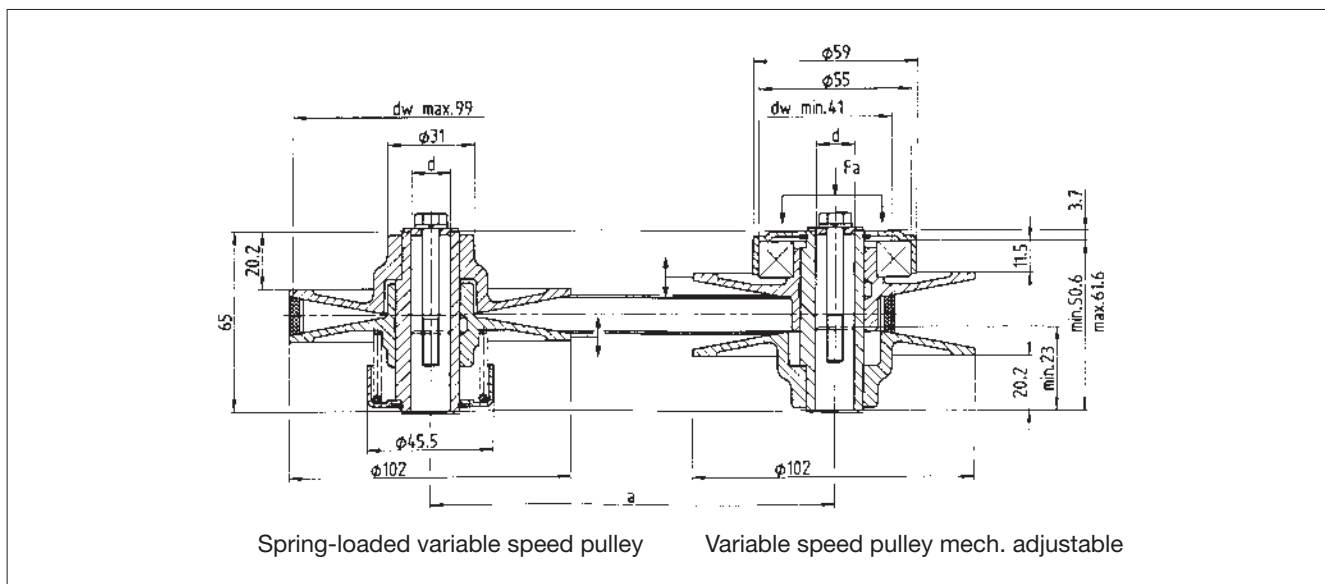
Technical data

| $P_1 = 0.25/0.37 \text{ kW}$ | | | |
|------------------------------|---------------------------|--|--|
| Adjustment range | R: | 5.8 | |
| Variable speed belt | : | 14x5mm | |
| Mass | m: | 0.46 kg 0.35 kg | (...910/911/912) (...920) |
| Moment of inertia | J: | 0.00025 kgm ² 0.00023 kgm ² | (...910/911/912) (...920) |
| Bores of ISO H7/keyway | min: standard: max: | 10 mm 14 mm 14 mm | DIN 6885/1 DIN 6885/1 DIN 6885/1 |
| Adjustment force | Fa max: | 300 N | |
| Belt tension | Fr max: | 120 N | |

Output power at $n_1 = 1450 \text{ min}^{-1}$

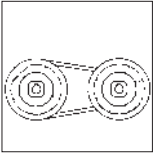


Dimensions



| | | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Axis distance a | 133 | 136 | 149 | 162 | 174 | 204 | 224 | 250 | 275 | 300 | 325 | 350 | 375 | 400 |
| Inner belt length | 468 | 475 | 500 | 525 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |

Dimensions in [mm]



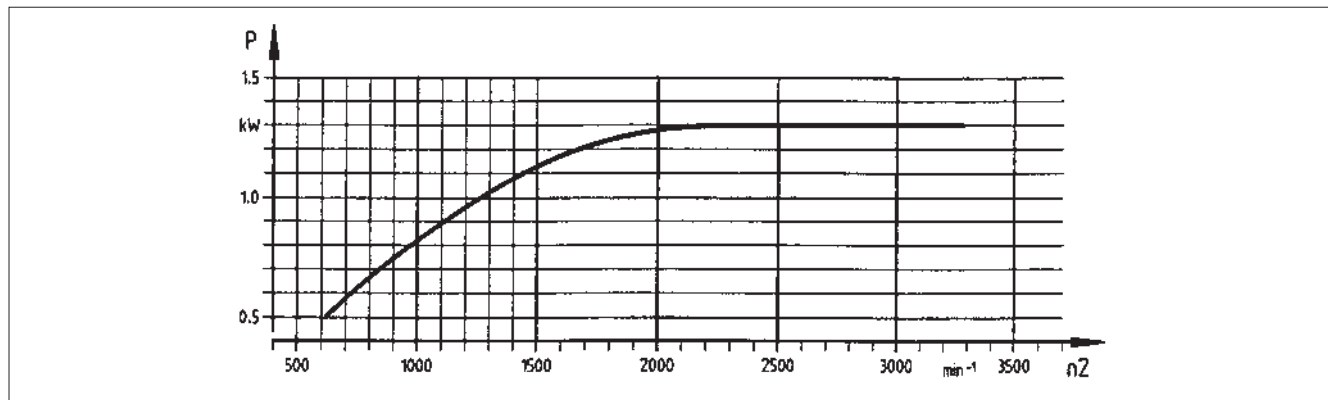
Variable speed pulleys

Type 11.213.13/11.218.13

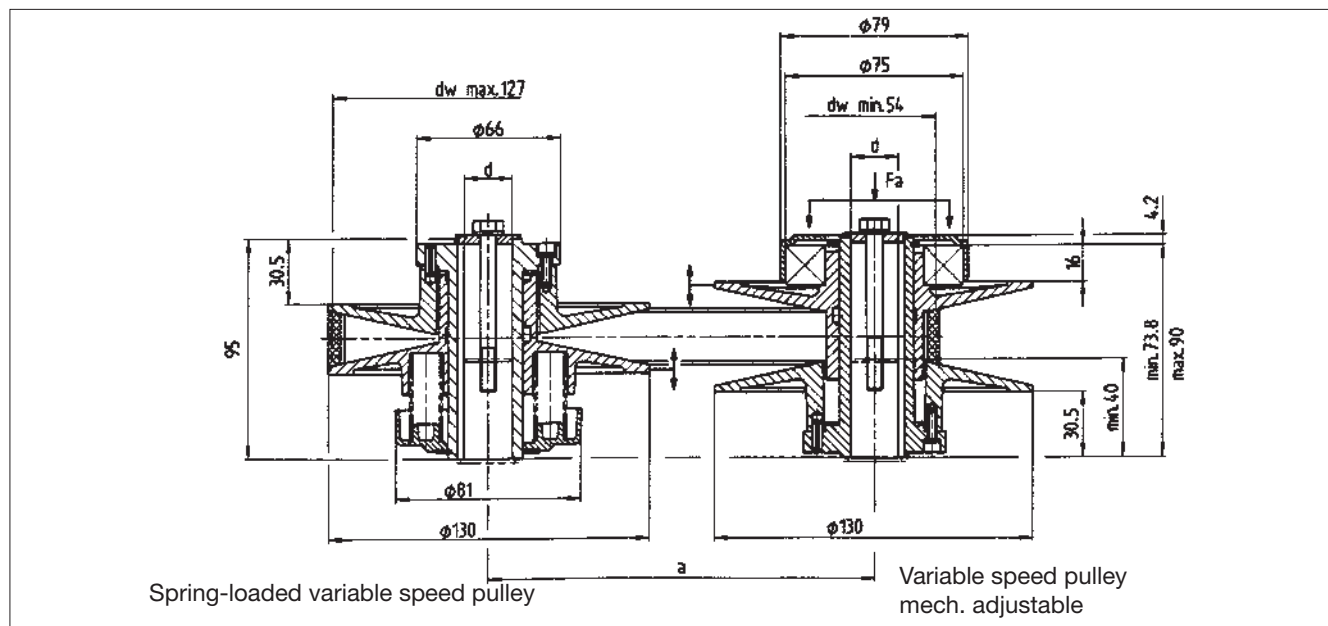
Technical data

| $P_1 = 0.55/0.75/1.1/1.5 \text{ kW}$ | | |
|--------------------------------------|---------------------------|---|
| Adjustment range | R: | 5.5 |
| Variable speed belt | : | 22x6mm |
| Mass | m: | 1.4 kg (...910/911/912) 1.2 kg (...926) |
| Moment of inertia | J: | 0.00020 kgm ² (...910/911/912) 0.00018 kgm ² (...926) |
| Bores of ISO H7/keyway | min: standard: max: | 14mm 14; 19; (24) mm 24 mm DIN 6885/1 DIN 6885/1 (/3) DIN 6885/3 |
| Adjustment force | Fa max: | 500 N |
| Belt tension | Fr max: | 250 N |

Output power at $n_1 = 1450 \text{ min}^{-1}$



Dimensions

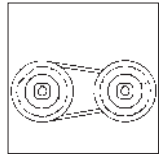


| | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Axis distance a | 142 | 173 | 193 | 218 | 244 | 269 | 294 | 319 | 344 | 369 | 400 | 430 | 460 |
| Inner belt length | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1060 | 1120 | 1180 |

Dimensions in [mm]

Variable speed pulleys

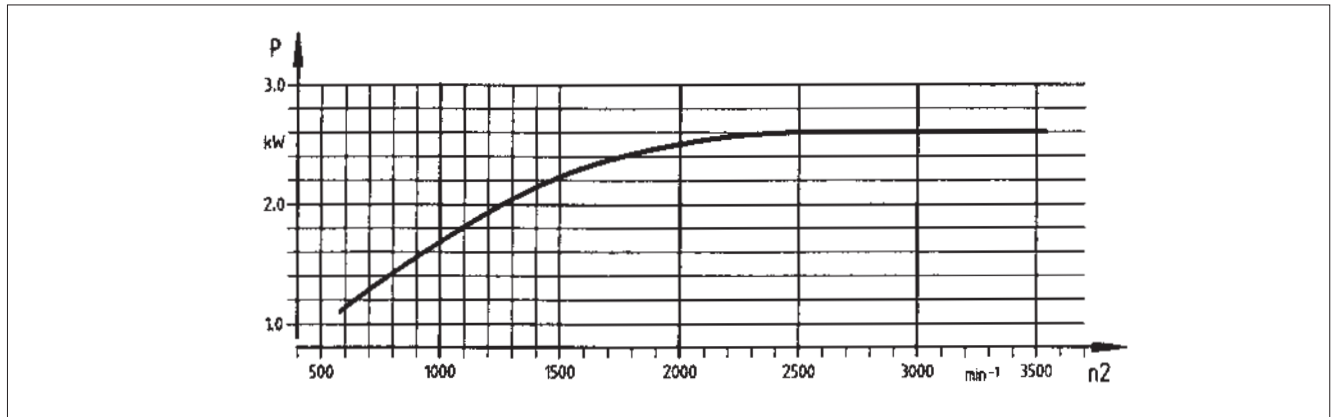
Type 11.213.16/11.218.16



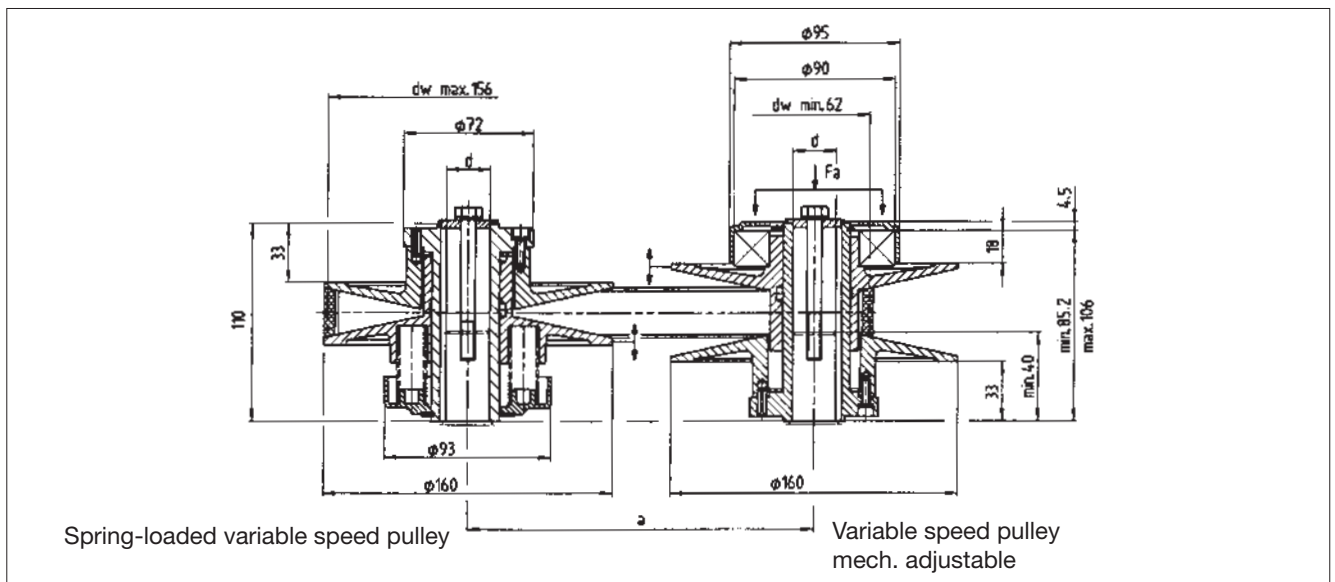
Technical data

| $P_1 = 2.2/3 \text{ kW}$ | | | |
|-------------------------------------|---------------------------|--|---|
| Adjustment range | R: | 6.3 | |
| Variable speed belt | : | 28x8mm | |
| Mass | m: | 2.2 kg 1.8 kg | (...910/911/912) (...926) |
| Moment of inertia | J: | 0.0032 kgm ² 0.0032 kgm ² | (...910/911/912) (...926) |
| Bores of ISO H7/keyway _t | min: standard: max: | 18mm 19; 24 (28) mm 28 mm | DIN 6885/1 DIN 6885/1 (/3) DIN 6885/3 |
| Adjustment force | Fa max: | 800 N | |
| Belt tension | Fr max: | 380 N | |

Output power at $n_1 = 1450 \text{ min}^{-1}$

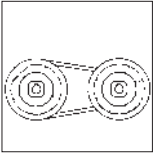


Dimensions



| | | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Axis distance a | 166 | 192 | 217 | 242 | 268 | 293 | 318 | 343 | 373 | 404 | 434 | 469 | 504 | 544 |
| Inner belt length | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1060 | 1120 | 1180 | 1250 | 1320 | 1400 |

Dimensions in [mm]



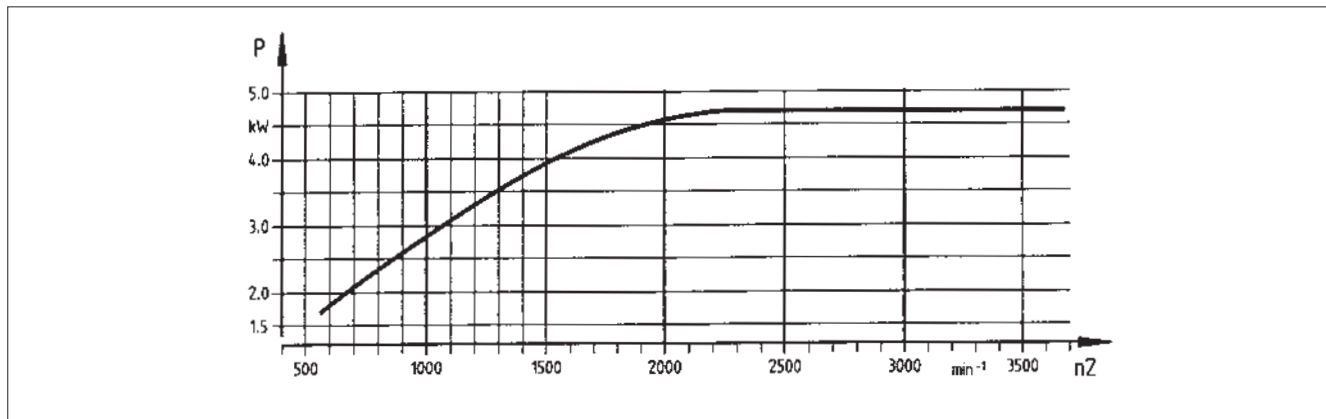
Variable speed pulleys

11.213.20/11.218.20

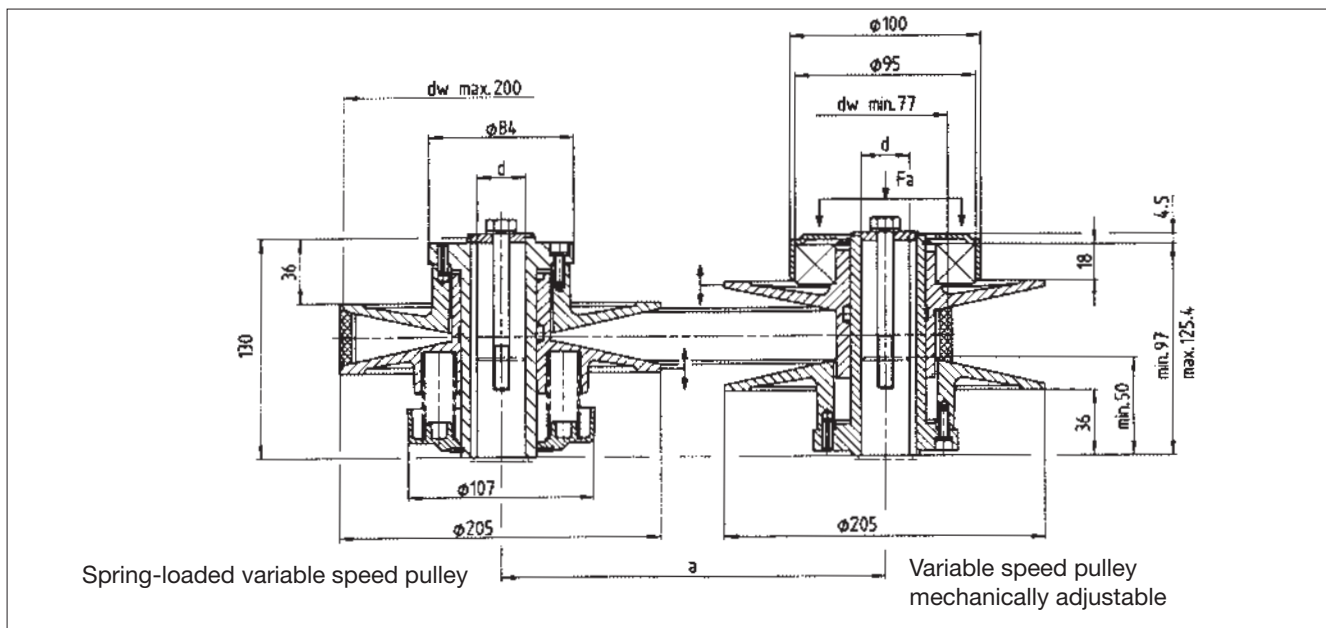
Technical data

| $P_1 = 4/5.5 \text{ kW}$ | | |
|--------------------------|---------------------------|--|
| Adjustment range | R: | 6.7 |
| Variable speed belt | : | 37x10 mm |
| Mass | m: | 3.4 kg (...910/911/912) 3.3 kg (...926) |
| Moment of inertia | J: | 0.0071 kgm ² (...910/911/912) 0.0092 kgm ² (...926) |
| Bores of ISO H7/keyway | min: standard: max: | 19mm 24; 28; (24) mm 28 mm DIN 6885/1 DIN 6885/1 DIN 6885/1 |
| Adjustment force | Fa max: | 1400 N |
| Belt tension | Fr max: | 600 N |

Output power at $n_1 = 1450 \text{ min}^{-1}$

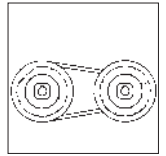


Dimensions



| | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Axis distance a | 223 | 248 | 274 | 299 | 329 | 360 | 390 | 425 | 461 | 501 | 551 | 602 | 652 |
| Inner belt length | 850 | 900 | 950 | 1000 | 1060 | 1120 | 1180 | 1250 | 1320 | 1400 | 1500 | 1600 | 1700 |

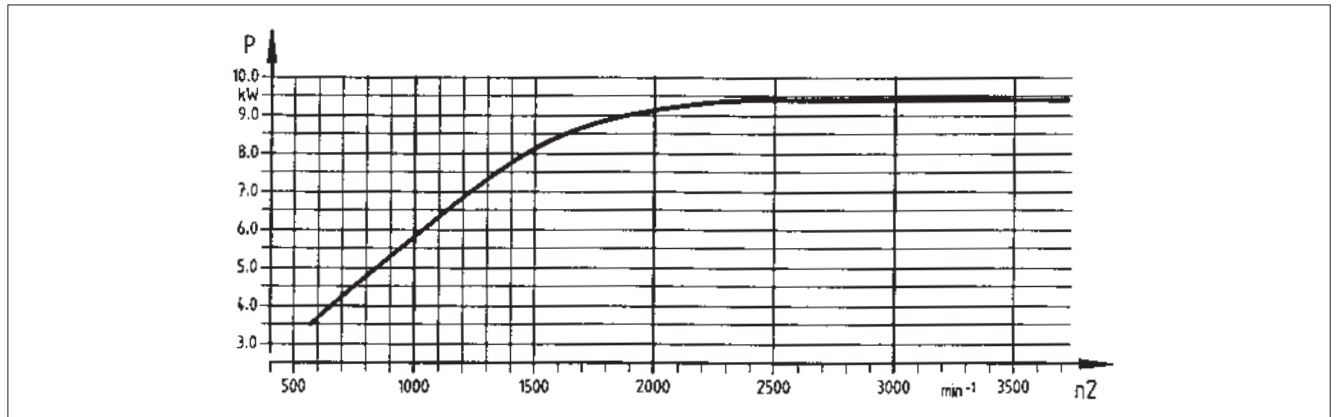
Dimensions in [mm]



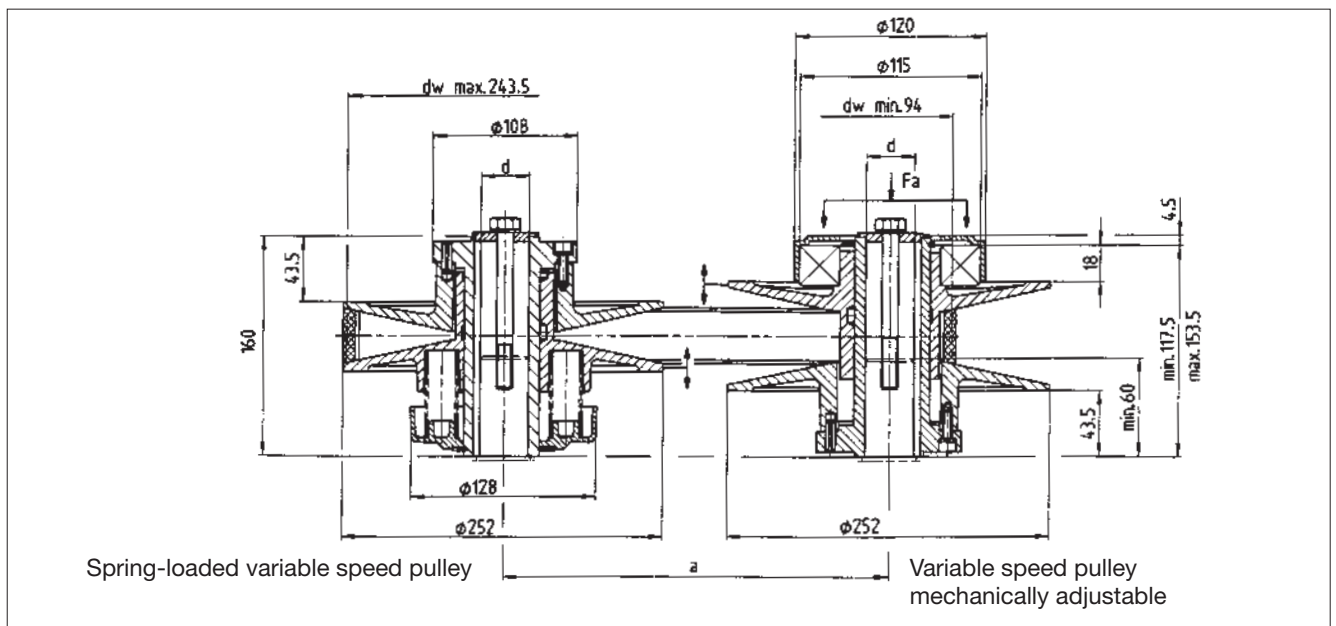
Technical data

| $P_1 = 7.5/9.2/11 \text{ kW}$ | | | |
|-------------------------------|---------------------------|--|--|
| Adjustment range | R: | 6.7 | |
| Variable speed drive | : | 47x13 mm | |
| Mass | m: | 6.6 kg 5.8 kg | (...910/911/912) (...928) |
| Moment of inertia | J: | 0.020 kgm ² 0.026 kgm ² | (...910/911/912) (...928) |
| Bores of ISO H7/keyway | min: standard: max: | 25 mm 28; 38; 42 mm 42 mm | DIN 6885/1 DIN 6885/1 DIN 6885/1 |
| Adjustment force | Fa max: | 2000 N | |
| Belt tension | Fr max: | 900 N | |

Output power at $n_1 = 1450 \text{ min}^{-1}$

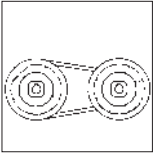


Dimensions



| | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|
| Axis distance a | 286 | 316 | 347 | 382 | 418 | 458 | 509 | 559 | 609 |
| Inner belt length | 1060 | 1120 | 1180 | 1250 | 1320 | 1400 | 1500 | 1600 | 1700 |

Dimensions in [mm]



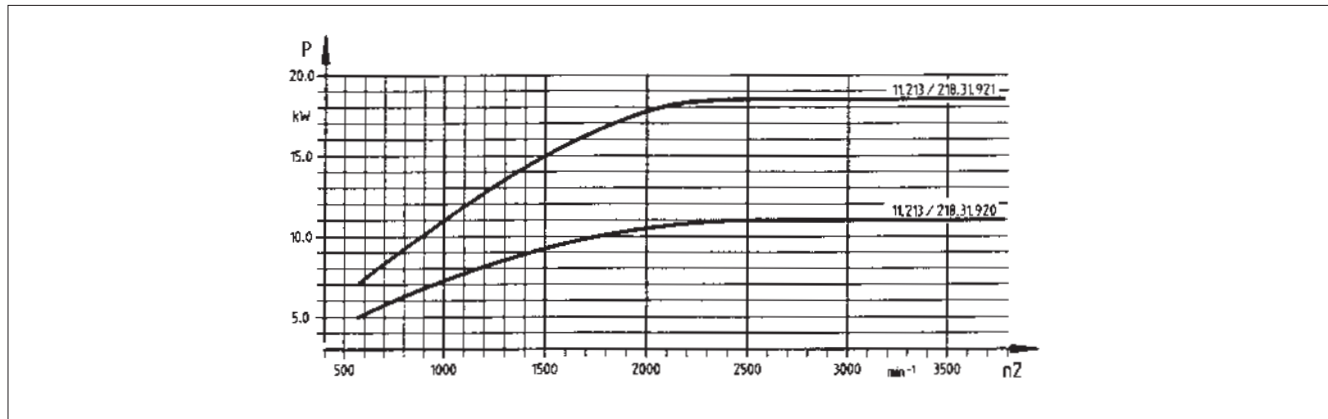
Variable speed pulleys

Type 11.213.31/11.218.31

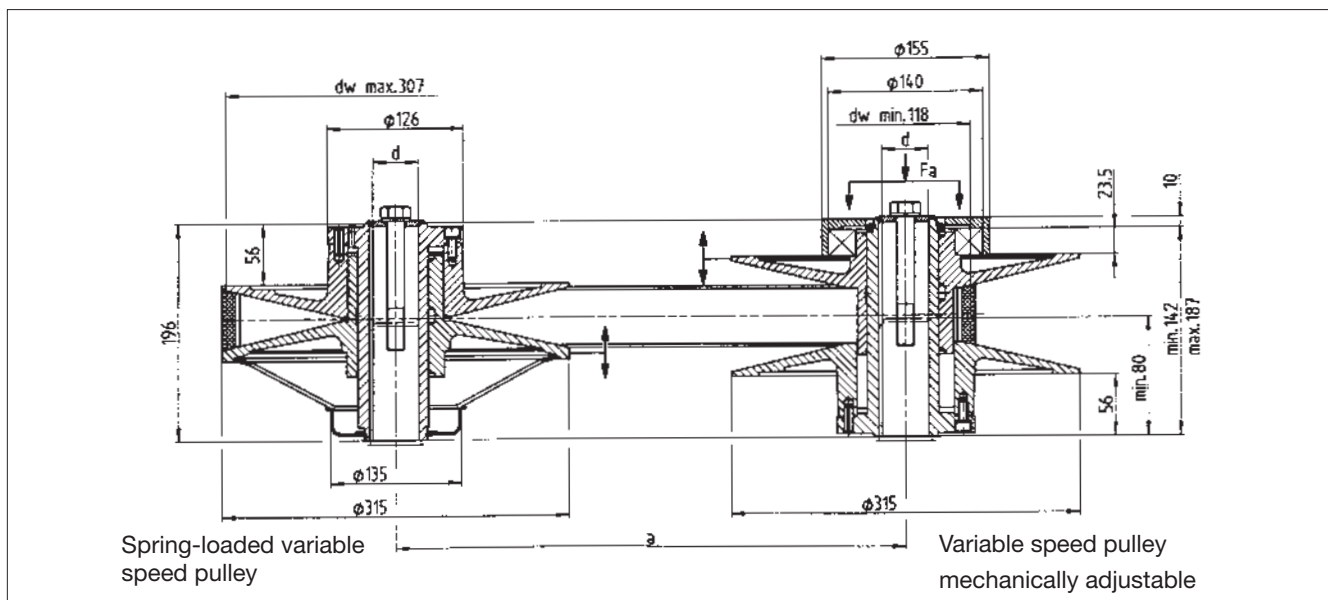
Technical data

| $P_1 = 15/18.5 \text{ kW}$ | | |
|----------------------------|---------------------------|--|
| Adjustment range | R: | 6.7 |
| Variable speed belt | : | 55x16 mm |
| Mass | m: | 12 kg (...910/911/912) 12 kg (...920/921) |
| Moment of inertia | J: | 0.073 kgm ² (...910/911/912) 0.073 kgm ² (...920/921) |
| Bores of ISO H7/keyway | min: standard: max: | 28 mm 38; 42 mm; (48) 48 mm DIN 6885/1 DIN 6885/1 (/3) DIN 6885/3 |
| Adjustment force | Fa max: | 3000 N |
| Belt tension | Fr max: | 1250 N |

Output power at $n_1 = 1450 \text{ min}^{-1}$



Dimensions

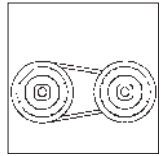


| | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|
| Axis distance a | 351 | 392 | 443 | 493 | 544 | 595 | 695 | 816 | 947 |
| Inner belt length | 1320 | 1400 | 1500 | 1600 | 1700 | 1800 | 2000 | 2240 | 2500 |

Dimensions in [mm]

Variable speed pulleys

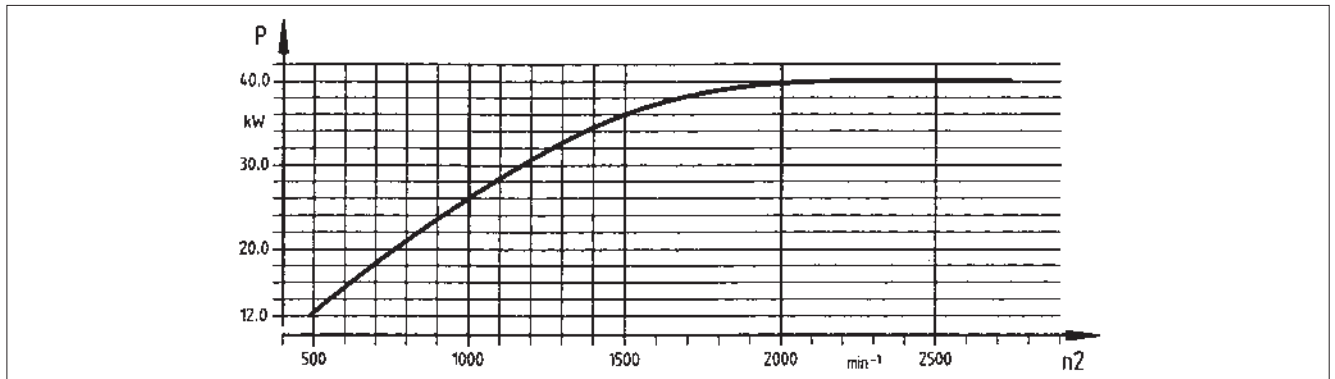
Type 11.213.40/11.218.40



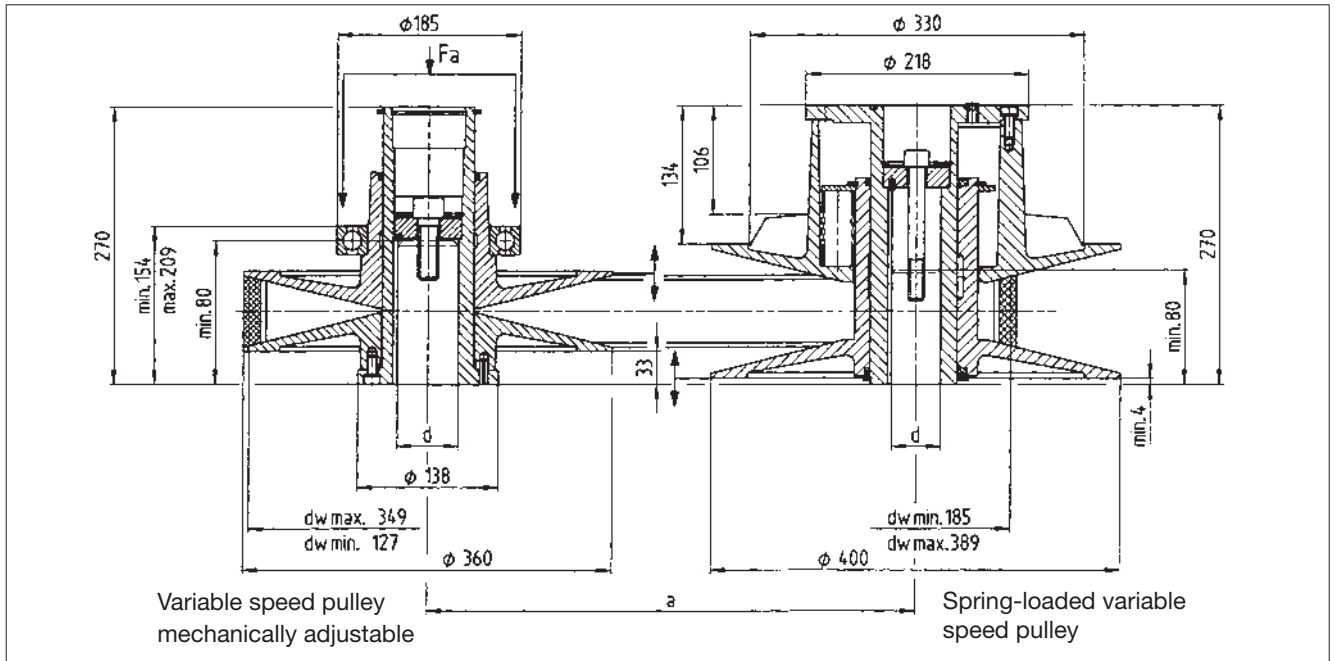
Technical data

| $P_1 = 22/30/37/45 \text{ kW}$ | | | |
|--------------------------------|---------------------------|--|--|
| Adjustment range | R: | 5.7 | |
| Variable speed belt | : | 72x22 mm | |
| Mass | m: | 20.5 kg 28.4 kg | (...912) (...926) |
| Moment of inertia | J: | 0.122 kgm ² 0.227 kgm ² | (...912) (...926) |
| Bores of ISO H7/keyway | min: standard: max: | 38 mm 38; 42; 48; 55; 60 mm 60 mm | DIN 6885/1 DIN 6885/1 DIN 6885/1 |
| Adjustment force | Fa max: | 4300 N | |
| Belt tension | Fr max: | 1900 N | |

Output power at $n_1 = 1450 \text{ min}^{-1}$

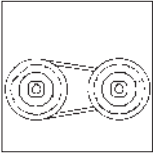


Dimensions



| | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|
| Axis distance a | 425 | 476 | 500 | 526 | 626 | 747 | 878 | 1028 | 1204 | 1334 | 1389 |
| Inner belt length | 1600 | 1700 | 1750 | 1800 | 2000 | 2240 | 2500 | 2800 | 3150 | 3210 | 3520 |

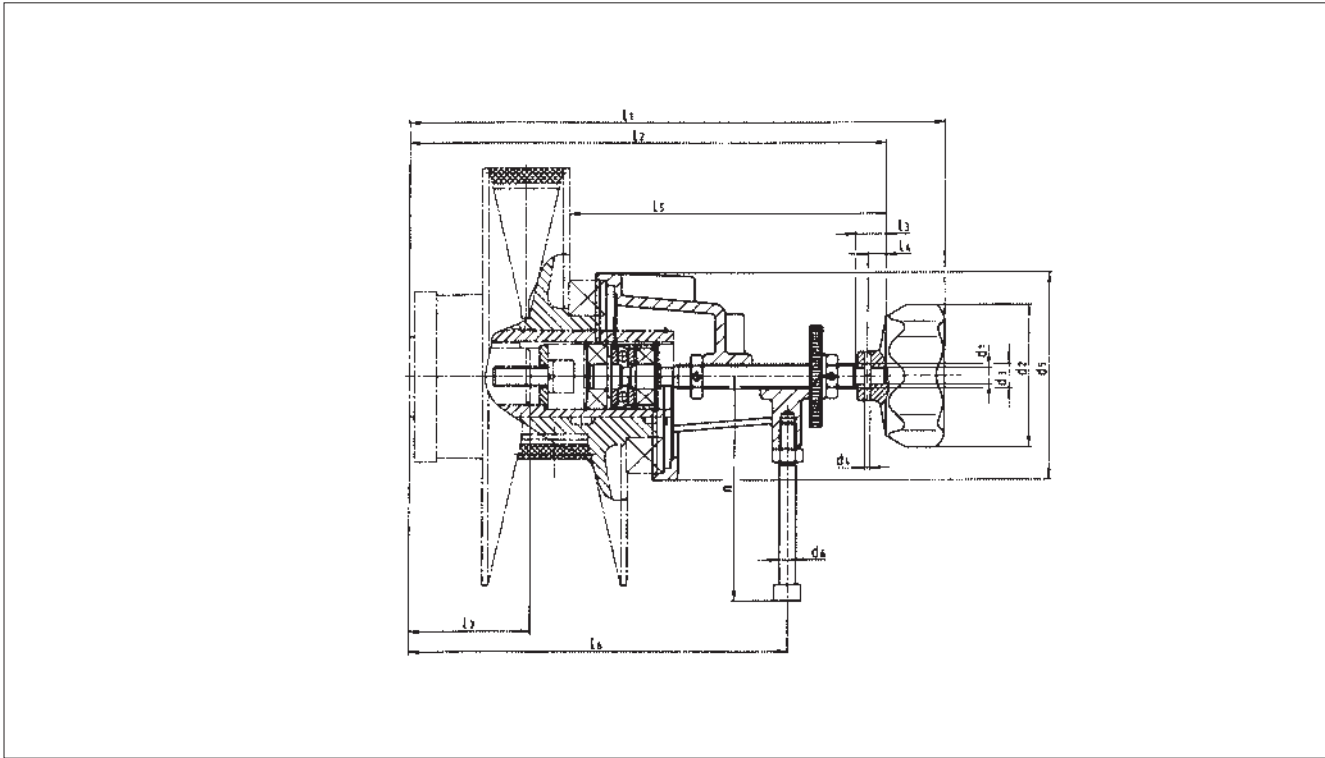
Dimensions in [mm]



Variable speed pulleys

Type 11.213/218

Central adjustment Dimensions



| Central adjustment | For variable speed pulleys | | | | | | | | | | | | | | | | | |
|--------------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|-------|------------------|-----|-----|
| Type | Type | d ₁ | d ₂ | d ₃ | d ₄ | d ₅ | d ₆ | l ₁ | l ₂ | l ₃ | l ₄ | l ₅ | | l ₆ | | l ₇ | n | m |
| | | | | | | | | | | | | max | min | max | min | max | | kg |
| 11.213.10.932 | 11.213/218.10.912 | 12 | 80 | 14x1.5 | 3 | 70 | M 6 | 165 | 152 | 16 | 11 | 113 | 102 | 126 | 115 | 30 | 80 | 1.0 |
| 11.213.13.933 | 11.213/218.13.912 | 8 | 70 | 12x2 | 3 | 80 | M 6 | 208 | 179 | 15 | 9 | 122 | 106 | 131 | 115 | 48 ²⁾ | 78 | 0.5 |
| 11.213.16.933 | 11.213/218.16.912 | 8 | 70 | 12x2 | 3 | 102 | M 8 | 244 | 215 | 15 | 9 | 148 | 127 | 163 | 142 | 52 ³⁾ | 110 | 1.0 |
| 11.213.20.933 | 11.213/218.20.912 | 8 | 70 | 12x2 | 3 | 102 | M 8 | 264 | 235 | 15 | 9 | 156 | 128 | 185 | 157 | 63 | 110 | 1.0 |
| 11.213.25.933 | 11.213/218.25.912 | 12 | 105 | 16x2 | 3 | 150 | M10 | 331 | 298 | 24 | 17 | 199 | 163 | 235 | 199 | 83 | 130 | 2.8 |
| 11.213.31.933 | 11.213/218.31.912 | 12 | 105 | 20x2 | 3 | 150 | M10 | 370 | 337 | 24 | 17 | 219 | 173.5 | 277 | 231.5 | 113 | 160 | 3.0 |
| 11.213.40.933 | 11.213/218.40.912 | 20 | 200 | 24x2 | 6 | 192 | M12 | 442 | 422 | 25 | 15 | 311 | 256 | 359 | 304 | 142 | 190 | 6.0 |

FAX ORDER FORM

Fax No. _____

Sender

Company

Street/Postfach

Postal code City

Date Signature

Customer No.

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

Order No.

Name of the person placing the order

Department

Telephone No.

Delivery address (if different from recipient's address)

Street

Postal code City

Invoice address (if different from recipient's address)

Street/Postfach

Postal code City

Delivery desired by _____

Delivery notes _____

Fax order

Compact units

Customer No.

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

Order No.

pcs. i =

| | | | | | | | | | |
|-------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------|---|-------------------|----------------------|----------------------|
| <input type="checkbox"/> GST | <input type="checkbox"/> 1 | <input type="checkbox"/> V | <input type="checkbox"/> A | <input type="checkbox"/> R | | | | | |
| <input type="checkbox"/> GKS | <input type="checkbox"/> 2 | <input type="checkbox"/> H | <input type="checkbox"/> B | <input type="checkbox"/> K | Motor frame size | - | Compact unit size | <input type="text"/> | <input type="text"/> |
| <input type="checkbox"/> GSS | <input type="checkbox"/> 3 | <input type="checkbox"/> S | <input type="checkbox"/> C | <input type="checkbox"/> L | | | | <input type="text"/> | <input type="text"/> |
| | <input type="checkbox"/> 4 | | | | | | | <input type="text"/> | <input type="text"/> |

| Position of system modules (non defined positions must be marked with 0) | | | | | Mounting position |
|--|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Shaft | Flange | Terminal box | Motor | Variable speed belt drive | |
| only for GKS / GSS | | | | | <input type="checkbox"/> A |
| <input type="checkbox"/> 0 | <input type="checkbox"/> 0 | <input type="checkbox"/> 2 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> B |
| <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 6 | <input type="checkbox"/> 3 | <input type="checkbox"/> C |
| <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 4 | | <input type="checkbox"/> 4 | <input type="checkbox"/> D |
| <input type="checkbox"/> 3+5 | <input type="checkbox"/> 3+5 | <input type="checkbox"/> 5 | | <input type="checkbox"/> 5 | <input type="checkbox"/> E |
| | | | | | <input type="checkbox"/> F |

Dimensions H Hollow shaft d H7= mm

K L Flange diameter a2= mm

Colour Varnish RAL 7012 Primer varnish grey

Options - gearbox

Special lubricant CLP HC 320 CLP H1 220 CLP E 320

Special varnish RAL

Shaft seal Viton

Helical gearbox

reinforced bearing - output shaft

7

Customer No.

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

Order No.

Right angle gearbox GKS / GSS

- Torque plate at housing foot
- Torque plate at pitch circle
- 2nd output shaft end
- Shrink disc cover
- Hollow shaft cover - jet-proof
- Mounting kit - hollow shaft retention

Options - compact units

Variable speed adjuster

- Angle adjustment Handwheel in position For permissible positions see page 5-116
- El. remote adjustment Actuating motor in position For permissible positions see page 5-116

Speed measuring unit

- DC speed encoder with analog display
- Pulse encoder with digital display
- Position indicator with handwheel

Options - motor

- Spring-operated brake Brake size Connection voltage V (AC / DC)
- Hand release with lever in position

Fax order

Disco variable speed drives with gearbox

Customer No.

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

Order No.

| | | |
|--|----------|--|
| | pcs. i = | |
|--|----------|--|

| | | | | | | | | | |
|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------|--|------------|--|--|
| <input type="checkbox"/> GST | <input type="checkbox"/> 1 | <input type="checkbox"/> V | <input type="checkbox"/> A | <input type="checkbox"/> R | | | | | |
| <input type="checkbox"/> GKS | <input type="checkbox"/> 2 | <input type="checkbox"/> H | <input type="checkbox"/> B | <input type="checkbox"/> K | Motor frame size | | DISCO size | | |
| <input type="checkbox"/> GSS | <input type="checkbox"/> 3 | <input type="checkbox"/> D | | | | | | | |
| | <input type="checkbox"/> 4 | <input type="checkbox"/> S | <input type="checkbox"/> C | <input type="checkbox"/> L | | | | | |

Position of system modules

(non defined positions must be marked with 0)

Mounting position

| | | | | | |
|------------------------------|------------------------------|----------------------------|------------------------------|--|----------------------------|
| Shaft only for GKS/GSS | Flange | Terminal box | Spindle box | Handwheel/adjuster | <input type="checkbox"/> A |
| <input type="checkbox"/> 0 | <input type="checkbox"/> 0 | <input type="checkbox"/> 2 | <input type="checkbox"/> 2 → | <input type="checkbox"/> 3 or <input type="checkbox"/> 5 | <input type="checkbox"/> B |
| <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 | <input type="checkbox"/> 3 → | <input type="checkbox"/> 2 or <input type="checkbox"/> 4 | <input type="checkbox"/> C |
| <input type="checkbox"/> 5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 4 | <input type="checkbox"/> 4 → | <input type="checkbox"/> 3 or <input type="checkbox"/> 5 | <input type="checkbox"/> D |
| <input type="checkbox"/> 3+5 | <input type="checkbox"/> 3+5 | <input type="checkbox"/> 5 | <input type="checkbox"/> 5 → | <input type="checkbox"/> 2 or <input type="checkbox"/> 4 | <input type="checkbox"/> E |
| | | | | | <input type="checkbox"/> F |

| | | | | |
|------------|---|--|----------------------|-------------------------|
| Dimensions | <input type="checkbox"/> H | Hollow shaft d H7= | <input type="text"/> | mm |
| | <input type="checkbox"/> K | <input type="checkbox"/> L | Flange diameter a2= | <input type="text"/> mm |
| Colour | <input type="checkbox"/> Varnish RAL 7012 | <input type="checkbox"/> Primer varnish grey | | |

Options - gearbox

Special lubricant CLP HC 320 CLP H1 220

Special varnish RAL

Shaft seal Viton

Helical gearbox

Reinforced bearing - output shaft

7

Disco variable speed drives with gearbox

Customer No.

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

Order No.

Right angle gearbox GKS / GSS

- Torque plate at housing foot
- Torque plate at pitch circle
- 2nd output shaft end
- Shrink disc cover
- Hollow shaft cover - jet-proof
- Mounting kit - hollow shaft retention

Options - Disco variable speed drives

Variable speed adjuster

- Handwheel adjustment
 - Bevel gearbox adjustment
 - El. Remote adjustment
 - Position indicator with handwheel
 - Position indicator with handwheel
- Actuating motor i= with analog display

Options - motor

- Spring-operated brake
- Brake size Connection voltage V (AC / DC)
- Hand release with lever in position

Fax order

Disco variable speed drives without gearbox

Customer No.

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

Order No.

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

 Pcs.

| | | | | | | | | | | | |
|---|---|---|---|--|---|---|--|--|---|---|---|
| 1 | 1 | . | 7 | | 0 | . | | | . | 0 | 0 |
|---|---|---|---|--|---|---|--|--|---|---|---|

Motor frame size

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

Position of system modules

(non defined positions must be marked with 0)

Mounting position

Terminal box

 0 2 3 4 5

Handwheel/adjuster

 3 5 A B C D E F

Design with foot

with flange

Colour Varnish RAL 7012

Primer varnish grey

Options

Flange diameter a2=

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

 mm

Special varnish

RAL

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

Variable speed adjuster

Handwheel adjustment

Position indicator with handwheel

Bevel gearbox adjustment

Position indicator with handwheel

El. Remote adjustment

Actuating motor i=

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

with analog display

Options - motor

Spring-operated brake

Brake size

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

Connection voltage

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

V (AC / DC)

Hand release with lever

in position

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

Customer No.

Fax order

Variable speed pulleys

Order No.

Pcs.

Variable speed pulley - mechanically adjustable

1 **1** . **2** **1** . . **9** **1**

Pre-bored

Bored Bore H7 mm

Pcs.

Variable speed pulley - spring-loaded

1 **1** . **2** **1** . . **9** **2**

Pre-bored

Bored Bore H7 mm

Pcs.

Central adjustment

1 **1** . **2** **1** **3** . . **9** **3**

Pcs.

Variable speed pulley

1 **1** . **1** **0** . . .

Pre-bored

Bored Bore H7 mm

Pcs.

Driven pulley

1 **1** . **1** **1** **0** . . **9** **2** **2**

Pre-bored

Bored

Pcs.

Motor slide

1 **1** . **1** **1** **0** . . **9** **1** **1**

Pcs.

Variable speed belt

1 **1** . **1** **1** **0** . . **9** **3** **1**

Inner length li = mm



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