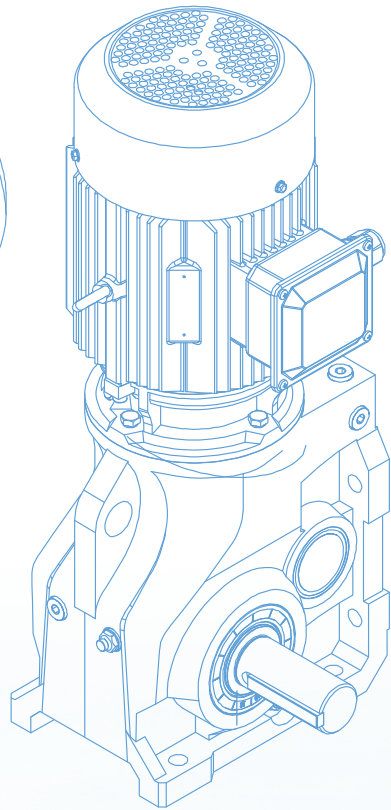
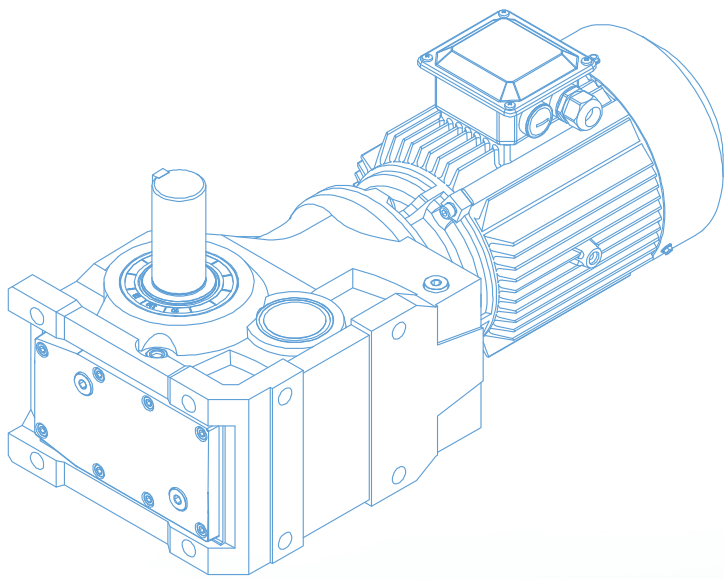


K Helical-Bevel Gearmotor

Modified date 04/2021



K Series Helical-bevel gear units

Power range: 0.12–200kW

Ratio: 3.5–191 (imax: 12889)

Torque: 155–50000 N.m

Features

- » Low backlash gearmotor designed with flexible and modular concept.
- » Small size and large center distance transmission structure, with 10% higher torque transmission capacity and load shock resistance.
- » The FEA design of the casting housing, which improves the running stability by 30% and effectively reduces the noise of the whole machine.
- » The large-modulus gear design and enhanced bearing arrangement ensure higher reliability and longer service life.
- » Up to 95% modular design, international production, faster production and logistics cycles.
- » Higher power density can save you mounting space and the overall structure is more compact.
- » High reliability and long design life can effectively reduce your use and maintenance costs.

Part characteristics

- » Housing materials are high strength grey cast iron and nodular cast iron.
- » Gears, pinions and bevel gears are made of high grade alloy with carburize-harden technology. Hardness of teeth surface reaches 58–62 HRC, grinding precision reaching class 5–6 and even 3 if required.
- » Shafts are made of alloy via heat treatment.
- » Standard accessories such as bearings and oil seals are provided by international and national famous brands.
- » Good assembly environment, standardized assembly technology, 100% strict quality assurance inspection and regular type test.

Main application

- » Harbor & ship building
- » Hoist & transport
- » Electric power & energy
- » Coal & Mining
- » Cement & material
- » Paper industry





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1 Type Designation

K 3 08 H A - C32 - D1 0 1 -

Series _____

Stages _____
2-stage/ 3-stage

Size _____

Mounting Mode _____
H=Horizontal foot-mounted
F=Flange-mounted
S=Short flange-mounted
A=Torque arm-mounted
T=Torque arm-mounted with accessory

Output Mode _____
A/B/D/E=Unidirectional output shaft
C/F=Bidirectional output shaft
G/H=Hollow shaft with parallel key
I/J=Hollow shaft with shrink disk
K/L=Hollow shaft with involute spline

Nominal Ratio Code _____

Mounting Positions _____
D1/D2/D3/D4/D5/D6

Accessories and Specific Configuration _____
0=None
1=Unconventional installation of gear
2=Strengthen gear shaft cover
6=Oil compensating tank
A=Unconventional installation of gear and strengthen gear shaft cover
B=Unconventional installation of gear and oil compensating tank
C=Strengthen gear shaft cover and oil compensating tank

Oil Code _____
0=Without oil filling(Please select this option when you do not need lubricating oil);
1=With mineral oil VG220(Please select this option when the ambient temperature is -20°C~+40°C, and K303~K312 need lubricating oil);
2=With mineral oil VG320(Please select this option when the ambient temperature is -20°C~+40°C, and K315~K318 need lubricating oil);
5=With synthetic lubricating oil VG220(It is recommended to select this option when you need lubricating oil and the ambient temperature is below 0°C);

Note ¹⁾ Motor Type/Frame Size/Poles/Power Code

| Power kW | 4-pole Type | 6-pole Type | Power kW | 4-pole Type | 6-pole Type | Power kW | 4-pole Type | 6-pole Type | Power kW | 4-pole Type | 6-pole Type |
|----------|--|--------------------------|----------|--|--------------------------|----------|--------------------------|--------------------------|----------|--------------------------|--------------------------|
| 0.09 | MS056M4A09 | | 1.1 | MS090S4B11 MH090S4B11 MP090S4B11 | MH090S6B11 MP090M6B11 | 11 | MH160S4C11 MP160M4C11 | MH160M6C11 MP160M6C11 | 55 | MH250M4C55 MP250M4C55 | MH280M6C55 MP280M6C55 |
| 0.12 | MH063M4A12 MP063M4A12 | | 1.5 | MS090S4B15 MH090S4B15 MP090M4B15 | MH100M6B15 MP100M6B15 | 15 | MH160M4C15 MP160L4C15 | MH180M6C15 MP180M6C15 | 75 | MH280S4C75 MP280S4C75 | MH315S6C75 MP315S6C75 |
| 0.18 | MH063M4A18 MP063M4A18 | MH071M6A18 MP071M6A18 | 2.2 | MS100M4B22 MH100M4B22 MP100M4B22 | MH112M6B22 MP112M6B22 | 18.5 | MH180M4C18 MP180M4C18 | MH200M6C18 MP200M6C18 | 90 | MH280M4C90 MP280M4C90 | MH315M6C90 MP315M6C90 |
| 0.25 | MH071M4A25 MP071M4A25 | MH071M6A25 MP071M6A25 | 3 | MS100M4B30 MH100M4B30 MP100M4B30 | MH132S6B30 MP132S6B30 | 22 | MH180L4C22 MP180L4C22 | MH200M6C22 MP200M6C22 | 110 | MH315S4D11 MP315S4D11 | MH315L6D11 |
| 0.37 | MH071M4A37 MP071M4A37 | MH080M6A37 MP080M6A37 | 4 | MS112M4B40 MH112L4B40 MP112L4B40 | MH132M6B40 MP132S6B40 | 30 | MH200M4C30 MP200M4C30 | MH225M6C30 MP225M6C30 | 132 | MH315M4D13 MP315M4D13 | MH315L6D13 |
| 0.55 | MS080M4A55 MH080M4A55 MP080M4A55 | MH080M6A55 MP080M6A55 | 5.5 | MS132S4B55 MH132S4B55 MP132M4B55 | MH132M6B55 MP132M6B55 | 37 | MH225M4C37 MP225M4C37 | MH250M6C37 MP250M6C37 | 160 | MH315L4D16 MP315L4D16 | |
| 0.75 | MS080M4A75 MH080M4A75 MP080M4A75 | MH090S6A75 MP090S6A75 | 7.5 | MS132M4B75 MH132M4B75 MP132L4B75 | MH160S6B75 MP160S6B75 | 45 | MH225M4C45 MP225M4C45 | MH280S6C45 MP280S6C45 | 200 | MH315L4D20 MP315L4D20 | |

MH 132S 4 B55 A C 3 - A 0 B 1 0 - 0 1 1

Cable Entry Position
1/2/3/4

Terminal Box Position
1/2/3/4

Motor mounting Position 0

Motor protection

0=IP55 Without rainproof cover 2=IP56 Without rainproof cover 4=IP65 Without rainproof cover
1=IP55 With rainproof cover 3=IP56 With rainproof cover 5=IP65 With rainproof cover

Thermal Protection and Heating Protection

0=Without thermal protection and heating Protection 2=Thermal switch 5=Thermistor and heating belt
1=Thermistor 3= PT100 temperature sensor 6=Thermal switch and heating belt
4=Heating belt 7= PT100 temperature sensor and heating belt

Brake

N=Without brake
A=Brake 220-240VAC G=Brake with self-lock device 220-240VAC P=Double-brakes 220-240VAC
B=Brake 380-415VAC H=Brake with self-lock device 380-415VAC Q=Double-brakes 380-415VAC
C=Brake 440-480VAC J=Brake with self-lock device 440-480VAC X=Double-brakes 440-480VAC
D=Brake with release handle 220-240VAC K=Brake with micro switch 220-240VAC R=Double-brakes with release handle 220-240VAC
E=Brake with release handle 380-415VAC L=Brake with micro switch 380-415VAC S=Double-brakes with release handle 380-415VAC
F=Brake with release handle 440-480VAC M=Brake with micro switch 440-480VAC T=Double-brakes with release handle 440-480VAC

Encoder

0=Without encoder 2=With standard encoder accessories 4=With encoder E25C
1=With encoder 3=With encoder E25B

Cooling

A=Self-fan cooling N=Natural cooling
F=Driven fan

Frequency/Voltage Code

1=50Hz 220VΔ/380VY B=50Hz 415VΔ C=60Hz 480VY
2=50Hz 230VΔ/400VY 5=60Hz 440VΔ D=60Hz 480VΔ
3=50Hz 380VΔ/660VY 6=60Hz 460VΔ E=60Hz 220VΔ/380VY
4=50Hz 400VΔ/690VY 7=60Hz 440VY F=60Hz 380VΔ
A=50Hz 240VΔ/415VY 8=60Hz 460VY

Note: 3kW and below "Y", alternative code: 1,2,7,8,A,C,E;
4kW and above "Δ", alternative code: 3,4,5,6,B,D,F.

Frame Material

L=Die-casting aluminum frame(standard configuration of 100 and below)
C=Grey cast iron frame(standard configuration of 112 and above)

Mounting Mode A

Power Code ¹⁾

Motor Poles ¹⁾
4=4-pole; 6=6-pole

Frame Size ¹⁾

Motor Type ¹⁾

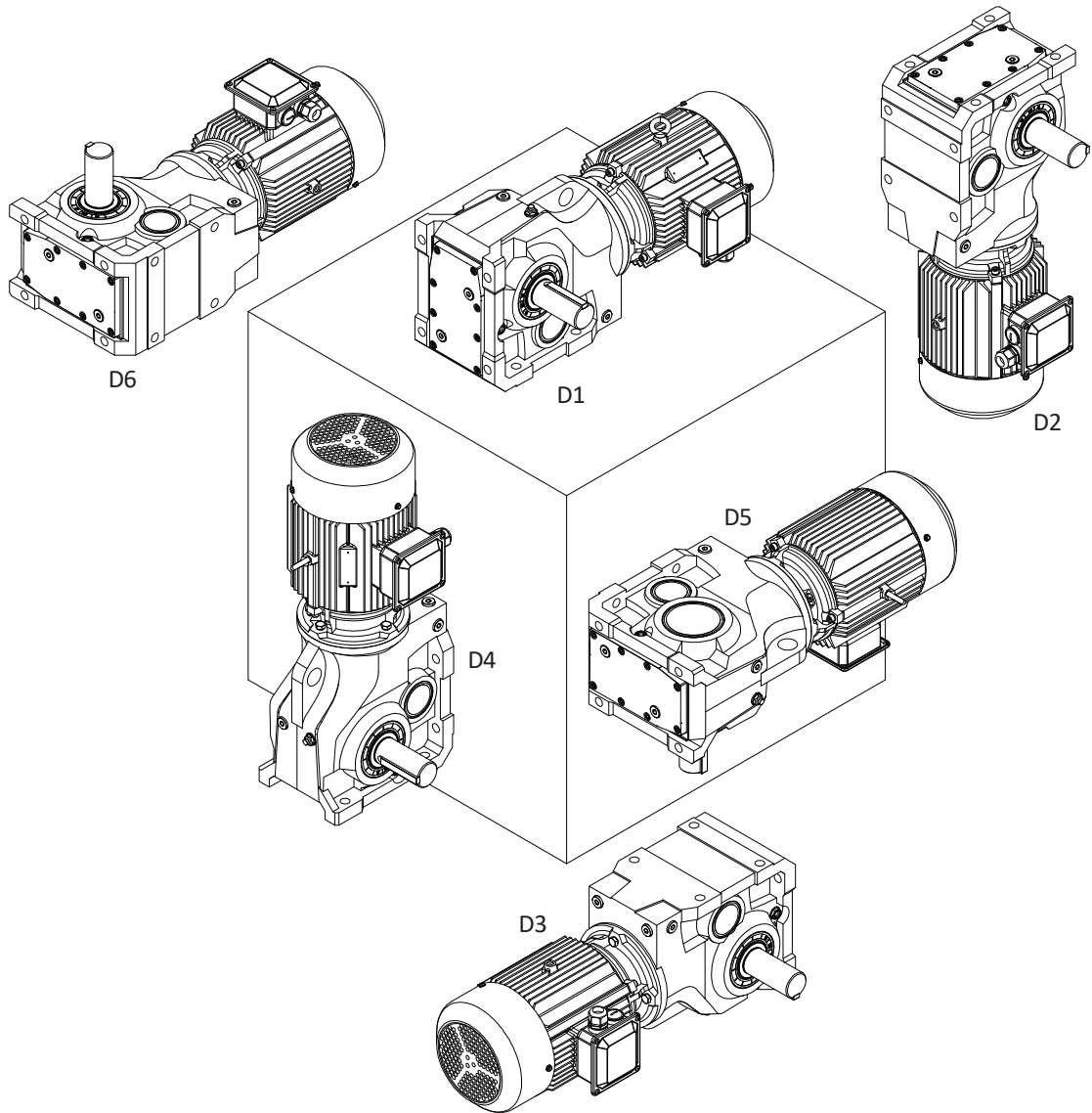
MS=Three-phase asynchronous motor (IE1)
MH=High efficiency three-phase asynchronous motor (IE2)
MP=Premium Efficiency three-phase asynchronous motor (IE3)

- Example of product type with input flange or input shaft: K308HA-C32-D101-AE3
- Example of product type with input flange and motor type: K308HA-C32-D101-AP132-MH132S4B55FC3-A0N10-011
- Combi-type designation: K308HA/C205-D28-D100-MH080M4A75AL1-A0N00-011

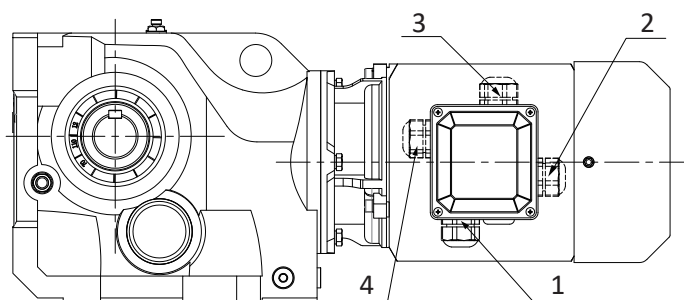
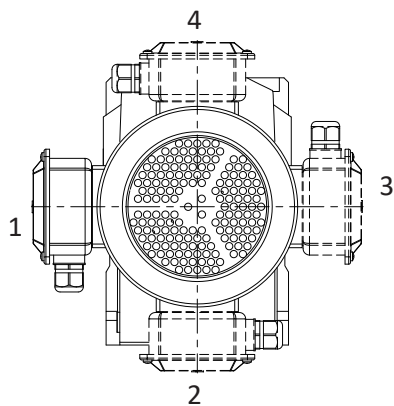


2 Mounting Positions

K



Motor terminal box and cable entry position (View: Motor afterbody)



Assembly colour of gearmotor: (RAL5015)

K



3 Type Selection and Example

| Step | Description | Symbol | Parameters Calculation and Guideline | | | |
|---|---|------------------------------------|--|-----------------------------|------------|------------|
| 1 | Driven Machine Factor | f_1 | Load Characteristic | Operating hours per day (h) | | |
| | | | | ≤ 2 | 2~10 | 10~24 |
| | | | Uniform | 1.00(1.00) | 1.00(1.25) | 1.25(1.50) |
| | | | Moderate | 1.00(1.25) | 1.25(1.50) | 1.50(1.75) |
| | | | Heavy | 1.25(1.50) | 1.50(1.75) | 1.75(2.00) |
| Note: Apply values in the brackets when starts per hour are 10 times or more. | | | | | | |
| 2 | Input Speed | n_1 | $\leq 1800\text{rpm}$ Consult us if higher speed required. | | | |
| 3 | Calculation of the Ratio | i | $i = n_1/n_2$ | | | |
| 4 | Transmission Efficiency | η | F2.. 2-stage: 96% F3.. 3-stage: 94% | | | |
| 5 | Calculation of the input power of the gearunit on basis of the torque and power required by the driven machine. | P_1 | $P_1 = T_2 \cdot n_1 / (9550 \cdot i \cdot \eta)$ or $P_1 = P_2 / \eta$ | | | |
| 6 | Determination of gearunit type referring to the table of transmission capacity after calculation, For directly-connected motor, require to refer to directly-connected motor power table. | T_{2N} P_{1N} | $T_{2N} \geq T_2 \cdot f_1$ or $P_{1N} \geq P_1 \cdot f_1$ | | | |
| 7 | Check the radial and axial forces on the shafts. | F_{r1}/F_{r2} F_{a1}/F_{a2} | See the table of Radial Force on Output Shaft (F_{r2}) on P15 | | | |
| 8 | Determination of Lubrication system | / | Generally Splash Lubrication | | | |
| 9 | Determination of Cooling System | / | Generally Air Cooling | | | |
| 10 | Determination of every item included in the Type Designation | / | For details about Type Designation, see P01 | | | |
| 11 | Normal ambient conditions | / | Ambient temperature -20 to 40°C , ample space, good ventilation, altitude not exceeding 1000m and common plant dust. | | | |
| 12 | Special ambient conditions | / | For higher or lower temperature, dusty sites, chemical reaction (acids, alkaline, etc), or open field (sunlight, ice, rain, etc), please consult us! | | | |

n_2 : The output speed required by the driven machine.
 T_2 : The output torque required by the driven machine.
 P_2 : The output power required by the driven machine.

T_{2N} : The rated output torque of gearmotor.
 P_{1N} : The rated input power of gearmotor.

Example

◆ Known Criteria:

1. Load characteristics by the driven machine:
Heavy, working 16 hours/d and starting 10 times/h;
2. Normal motor: 4-pole,
speed $n_1=1450\text{r/min}$;
3. The power required $P_2=10\text{KW}$,
speed $n_2=16\text{ r/min}$;
4. Mounting mode: flange-mounted, unidirectional output shaft A,
mounting position D1, motor terminal box 1, cable entry position 4.

◆ Selection steps:

1. By referring to the table of Load Characteristic,
we get the driven machine factor $f_1=1.75$;
2. Calculation of the Ratio i_N :
 $i=N_1/ n_2=1450/16=90.63$, nominal ratio $i_N=90$;
3. Calculation of the input power and determination of the motor power
(transmission efficiency $\eta=94\%$):
 $P_1 \geq P_2/\eta=10/0.94=10.64\text{kW}$, so 11kW motor is selected.
Refer to the directly-connected motor power table,
it can be directly-connected;
4. Determination of the nominal power of the geared motor P_{1N} :
 $P_{1N} \geq P_2 \cdot f_1/\eta=10 \times 1.75/0.94=18.62\text{kW}$;



4 Transmission Capacity

4.1 K Transmission capacity

K...(i_N=4-180)

| Nominal Input Speed | Nominal Output Speed | Nominal Ratio Code | Nominal Ratio | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power |
|----------------------------|----------------------------|--------------------|----------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|
| n _{1N} (r/min) | n _{2N} (r/min) | Code | i _N | T _{2N} (N.m) | i _{ex} | P _{1N} (kW) | T _{2N} (N.m) | i _{ex} | P _{1N} (kW) |
| K 1450 | | | | K303 | | | K304 | | |
| | 363 | B40 | 4 | 150 | 3.95 | 5.8 | 200 | 3.95 | 7.7 |
| | 322 | B45 | 4.5 | 150 | 4.46 | 5.1 | 230 | 4.43 | 7.9 |
| | 290 | B50 | 5 | 150 | 5.08 | 4.48 | 250 | 5.01 | 7.6 |
| | 259 | B56 | 5.6 | 160 | 5.74 | 4.23 | 260 | 5.56 | 7.1 |
| | 230 | B63 | 6.3 | 180 | 6.42 | 4.25 | 280 | 6.19 | 6.9 |
| | 204 | B71 | 7.1 | 180 | 7.24 | 3.77 | 280 | 6.95 | 6.1 |
| | 181 | B80 | 8 | 180 | 8.25 | 3.31 | 300 | 7.85 | 5.8 |
| | 161 | B90 | 9 | 180 | 9.33 | 2.93 | 310 | 8.71 | 5.4 |
| | 145 | C10 | 10 | 180 | 10.6 | 2.59 | 340 | 9.98 | 5.2 |
| | 129 | C11 | 11.2 | 180 | 11.4 | 2.40 | 360 | 11.0 | 4.98 |
| | 116 | C13 | 12.5 | 180 | 12.7 | 2.16 | 380 | 12.4 | 4.66 |
| | 104 | C14 | 14 | 200 | 14.3 | 2.13 | 400 | 13.5 | 4.48 |
| | 90.6 | C16 | 16 | 200 | 16.3 | 1.87 | 420 | 15.2 | 4.19 |
| | 80.6 | C18 | 18 | 210 | 18.4 | 1.73 | 420 | 17.2 | 3.71 |
| | 72.5 | C20 | 20 | 220 | 20.8 | 1.60 | 450 | 19.1 | 3.58 |
| | 64.7 | C22 | 22.4 | 225 | 22.4 | 1.52 | 450 | 21.8 | 3.13 |
| | 58.0 | C25 | 25 | 230 | 23.7 | 1.47 | 450 | 24.0 | 2.85 |
| | 51.8 | C28 | 28 | 230 | 28.9 | 1.21 | 450 | 27.1 | 2.53 |
| | 46.0 | C32 | 31.5 | 230 | 32.2 | 1.09 | 450 | 30.2 | 2.26 |
| | 40.8 | C36 | 35.5 | 230 | 36.3 | 0.96 | 450 | 37.2 | 1.83 |
| | 36.3 | C40 | 40 | 230 | 41.3 | 0.85 | 450 | 41.8 | 1.63 |
| | 32.2 | C45 | 45 | 230 | 46.7 | 0.75 | 450 | 47.2 | 1.45 |
| | 29.0 | C50 | 50 | 230 | 52.9 | 0.66 | 450 | 52.4 | 1.30 |
| | 25.9 | C56 | 56 | 230 | 57.0 | 0.61 | 450 | 60.1 | 1.14 |
| | 23.0 | C63 | 63 | 230 | 66.7 | 0.52 | 450 | 66.0 | 1.04 |
| | 20.4 | C71 | 71 | 230 | 75.6 | 0.46 | 450 | 74.4 | 0.92 |
| | 18.1 | C80 | 80 | 230 | 83.3 | 0.42 | 450 | 79.5 | 0.86 |
| | 16.1 | C90 | 90 | 230 | 91.1 | 0.38 | 450 | 92.4 | 0.74 |
| | 14.5 | D10 | 100 | 230 | 99.6 | 0.35 | 450 | 104.0 | 0.66 |
| | 12.9 | D11 | 112 | | | | 450 | 113.6 | 0.60 |
| | 11.6 | D13 | 125 | | | | 450 | 124.6 | 0.55 |
| 10.4 | D14 | 140 | | | | | | | |
| 9.06 | D16 | 160 | | | | | | | |
| 8.06 | D18 | 180 | | | | | | | |
| 960 | 15.2 | C63 | 63 | 230 | 66.7 | 0.35 | | | |
| | 13.5 | C71 | 71 | 230 | 75.6 | 0.31 | | | |
| | 12.0 | C80 | 80 | 230 | 83.3 | 0.28 | 450 | 79.5 | 0.57 |
| | 10.7 | C90 | 90 | 230 | 91.1 | 0.25 | 450 | 92.4 | 0.49 |
| | 9.6 | D10 | 100 | 230 | 99.6 | 0.23 | 450 | 104.0 | 0.43 |
| | 8.6 | D11 | 112 | | | | 450 | 113.6 | 0.40 |
| | 7.7 | D13 | 125 | | | | 450 | 124.6 | 0.36 |
| | 6.9 | D14 | 140 | | | | | | |
| | 6.00 | D16 | 160 | | | | | | |
| 5.33 | D18 | 180 | | | | | | | |

Note: (1) Actual output speed of the gearmotor: Actual input speed (n1)/Exact ratio (i_{ex});
 (2) Rated input power corresponding to actual input speed of the gearmotor: P_{1N}=T_{2N}*n1/ (9550*i_{ex}), the rated output torque T_{2N} in the formula remains unchanged.

| Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power |
|---------------------|-------------|-------------------|---------------------|-------------|-------------------|---------------------|-------------|-------------------|---------------------|-------------|-------------------|
| T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) |
| K305 | | | K306 | | | K307 | | | K308 | | |
| 360 | 4.08 | 13.4 | 680 | 4.20 | 24.6 | | | | | | |
| 360 | 4.58 | 11.9 | 680 | 4.82 | 21.4 | | | | | | |
| 360 | 5.18 | 10.6 | 700 | 5.14 | 20.7 | | | | | | |
| 380 | 5.75 | 10.0 | 730 | 5.59 | 19.8 | | | | | | |
| 400 | 6.56 | 9.3 | 750 | 6.02 | 18.9 | | | | | | |
| 420 | 7.41 | 8.6 | 750 | 6.90 | 16.5 | 1300 | 6.86 | 28.8 | 1800 | 7.07 | 38.6 |
| 420 | 8.23 | 7.7 | 750 | 8.00 | 14.2 | 1300 | 7.81 | 25.3 | 1800 | 8.04 | 34.0 |
| 430 | 9.43 | 6.9 | 750 | 9.17 | 12.4 | 1300 | 8.66 | 22.8 | 1800 | 9.33 | 29.3 |
| 450 | 10.4 | 6.6 | 750 | 9.78 | 11.6 | 1300 | 9.93 | 19.9 | 1800 | 10.2 | 26.9 |
| 460 | 10.7 | 6.5 | 750 | 11.4 | 10.0 | 1300 | 11.2 | 17.7 | 2100 | 11.4 | 27.9 |
| 500 | 12.0 | 6.3 | 750 | 13.0 | 8.7 | 1380 | 12.0 | 17.4 | 2350 | 12.5 | 28.5 |
| 550 | 13.6 | 6.1 | 850 | 13.9 | 9.3 | 1550 | 13.7 | 17.2 | 2350 | 14.0 | 25.5 |
| 600 | 15.1 | 6.0 | 850 | 16.6 | 7.8 | 1650 | 15.2 | 16.5 | 2600 | 15.9 | 24.8 |
| 620 | 17.3 | 5.4 | 850 | 19.0 | 6.8 | 1650 | 17.4 | 14.4 | 2600 | 18.5 | 21.4 |
| 650 | 19.0 | 5.2 | 850 | 20.2 | 6.4 | 1650 | 19.6 | 12.8 | 2600 | 20.1 | 19.6 |
| 680 | 21.4 | 4.82 | 950 | 22.0 | 6.6 | 1650 | 22.4 | 11.2 | 2850 | 22.6 | 19.1 |
| 680 | 22.9 | 4.51 | 950 | 25.2 | 5.7 | 1750 | 25.7 | 10.4 | 3000 | 25.9 | 17.6 |
| 680 | 29.5 | 3.50 | 950 | 26.9 | 5.4 | 1750 | 28.9 | 9.2 | 3000 | 29.1 | 15.6 |
| 680 | 33.1 | 3.12 | 950 | 31.2 | 4.62 | 1750 | 31.0 | 8.6 | 3000 | 32.0 | 14.3 |
| 680 | 37.4 | 2.76 | 950 | 35.8 | 4.03 | 1750 | 35.3 | 7.5 | 3000 | 36.9 | 12.3 |
| 680 | 41.5 | 2.49 | 950 | 38.2 | 3.78 | 1750 | 39.2 | 6.8 | 3000 | 39.4 | 11.6 |
| 680 | 47.5 | 2.17 | 950 | 45.5 | 3.17 | 1750 | 44.9 | 5.9 | 3000 | 47.0 | 9.7 |
| 680 | 52.3 | 1.98 | 950 | 50.7 | 2.85 | 1750 | 50.5 | 5.3 | 3000 | 51.3 | 8.9 |
| 680 | 58.9 | 1.75 | 950 | 55.7 | 2.59 | 1750 | 56.5 | 4.71 | 3000 | 57.7 | 7.9 |
| 630 | 62.9 | 1.52 | 950 | 63.3 | 2.28 | 1750 | 62.9 | 4.23 | 3000 | 63.2 | 7.2 |
| 520 | 73.2 | 1.08 | 950 | 69.1 | 2.09 | 1750 | 68.9 | 3.86 | 3000 | 73.0 | 6.2 |
| 520 | 82.3 | 0.96 | 950 | 78.7 | 1.83 | 1750 | 74.9 | 3.55 | 3000 | 77.9 | 5.8 |
| 520 | 89.9 | 0.88 | 900 | 83.6 | 1.63 | 1750 | 84.2 | 3.15 | 3000 | 90.0 | 5.1 |
| 520 | 98.6 | 0.80 | 850 | 96.7 | 1.33 | 1750 | 92.3 | 2.88 | 3000 | 102.3 | 4.45 |
| 520 | 107.1 | 0.74 | 850 | 115.0 | 1.12 | 1750 | 108.3 | 2.45 | 3000 | 113.6 | 4.01 |
| | | | 850 | 122.3 | 1.05 | 1700 | 120.4 | 2.14 | 3000 | 127.8 | 3.56 |
| | | | | | | 1650 | 132.5 | 1.89 | 3000 | 140.6 | 3.24 |
| | | | | | | 1600 | 149.3 | 1.63 | 2500 | 153.7 | 2.47 |
| | | | | | | 1600 | 175.7 | 1.38 | 2000 | 177.9 | 1.71 |

K

| | | | | | | | | | | | |
|-----|-------|------|-----|-------|------|------|-------|------|------|-------|------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 520 | 82.3 | 0.63 | | | | | | | | | |
| 520 | 89.9 | 0.58 | | | | | | | | | |
| 520 | 98.6 | 0.53 | 850 | 96.7 | 0.88 | 1750 | 92.3 | 1.91 | 3000 | 102.3 | 2.95 |
| 520 | 107.1 | 0.49 | 850 | 115.0 | 0.74 | 1750 | 108.3 | 1.62 | 3000 | 113.6 | 2.65 |
| | | | 850 | 122.3 | 0.70 | 1700 | 120.4 | 1.42 | 3000 | 127.8 | 2.36 |
| | | | | | | 1650 | 132.5 | 1.25 | 3000 | 140.6 | 2.14 |
| | | | | | | 1600 | 149.3 | 1.08 | 2500 | 153.7 | 1.64 |
| | | | | | | 1600 | 175.7 | 0.92 | 2000 | 177.9 | 1.13 |



4.1 K Transmission capacity

K...(i_N=4-180)

| Nominal Input Speed | Nominal Output Speed | Nominal Ratio Code | Nominal Ratio | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power |
|----------------------------|----------------------------|--------------------|----------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|
| n _{1N} (r/min) | n _{2N} (r/min) | Code | i _N | T _{2N} (N.m) | i _{ex} | P _{1N} (kW) | T _{2N} (N.m) | i _{ex} | P _{1N} (kW) |
| | | | | K309 | | | K310 | | |
| 1450 | 363 | B40 | 4 | | | | | | |
| | 322 | B45 | 4.5 | | | | | | |
| | 290 | B50 | 5 | | | | | | |
| | 259 | B56 | 5.6 | | | | | | |
| | 230 | B63 | 6.3 | | | | | | |
| | 204 | B71 | 7.1 | 3500 | 7.24 | 73 | | | |
| | 181 | B80 | 8 | 3500 | 7.93 | 67 | 6000 | 8.14 | 112 |
| | 161 | B90 | 9 | 3800 | 9.37 | 62 | 6000 | 9.11 | 100 |
| | 145 | C10 | 10 | 4000 | 10.5 | 58 | 6000 | 10.7 | 85 |
| | 129 | C11 | 11.2 | 4000 | 11.2 | 54 | 6500 | 11.7 | 85 |
| | 116 | C13 | 12.5 | 4500 | 12.8 | 53 | 7500 | 12.5 | 91 |
| | 104 | C14 | 14 | 5000 | 14.3 | 53 | 7900 | 14.0 | 86 |
| | 90.6 | C16 | 16 | 5000 | 16.2 | 46.9 | 8300 | 16.5 | 76 |
| | 80.6 | C18 | 18 | 5000 | 18.1 | 41.9 | 8300 | 17.9 | 70 |
| | 72.5 | C20 | 20 | 5000 | 19.4 | 39.2 | 8300 | 20.9 | 60 |
| | 64.7 | C22 | 22.4 | 5000 | 22.2 | 34.3 | 8300 | 23.2 | 54 |
| | 58.0 | C25 | 25 | 5000 | 24.6 | 30.8 | 8300 | 24.6 | 51 |
| | 51.8 | C28 | 28 | 5000 | 27.9 | 27.2 | 8300 | 27.9 | 45.1 |
| | 46.0 | C32 | 31.5 | 5000 | 31.3 | 24.2 | 8300 | 31.2 | 40.3 |
| | 40.8 | C36 | 35.5 | 5000 | 34.5 | 22.0 | 8300 | 34.5 | 36.6 |
| | 36.3 | C40 | 40 | 5000 | 37.8 | 20.1 | 8300 | 38.6 | 32.7 |
| | 32.2 | C45 | 45 | 5000 | 44.6 | 17.0 | 8300 | 45.5 | 27.7 |
| | 29.0 | C50 | 50 | 5000 | 50.0 | 15.2 | 8500 | 49.4 | 26.1 |
| | 25.9 | C56 | 56 | 5000 | 53.4 | 14.2 | 9000 | 57.6 | 23.7 |
| 23.0 | C63 | 63 | 5000 | 61.1 | 12.4 | 9000 | 63.9 | 21.4 | |
| 20.4 | C71 | 71 | 5000 | 67.9 | 11.2 | 9000 | 67.7 | 20.2 | |
| 18.1 | C80 | 80 | 5000 | 77.1 | 9.9 | 9000 | 77.0 | 17.7 | |
| 16.1 | C90 | 90 | 5000 | 86.4 | 8.8 | 9000 | 86.2 | 15.9 | |
| 14.5 | D10 | 100 | 5000 | 98.6 | 7.7 | 9000 | 95.7 | 14.3 | |
| 12.9 | D11 | 112 | 5000 | 105.1 | 7.2 | 9000 | 112.0 | 12.2 | |
| 11.6 | D13 | 125 | 4300 | 120.8 | 5.4 | 9000 | 120.4 | 11.3 | |
| 10.4 | D14 | 140 | 4300 | 135.8 | 4.81 | 9000 | 135.3 | 10.1 | |
| 9.06 | D16 | 160 | 4300 | 150.0 | 4.35 | 8500 | 155.8 | 8.3 | |
| 8.06 | D18 | 180 | 4300 | 168.7 | 3.87 | 8500 | 173.3 | 7.4 | |
| 960 | 15.2 | C63 | 63 | | | | | | |
| | 13.5 | C71 | 71 | | | | | | |
| | 12.0 | C80 | 80 | | | | | | |
| | 10.7 | C90 | 90 | | | | | | |
| | 9.6 | D10 | 100 | | | | | | |
| | 8.6 | D11 | 112 | | | | | | |
| | 7.7 | D13 | 125 | 4300 | 120.8 | 3.58 | 9000 | 120.4 | 7.5 |
| | 6.9 | D14 | 140 | 4300 | 135.8 | 3.18 | 9000 | 135.3 | 6.7 |
| | 6.00 | D16 | 160 | 4300 | 150.0 | 2.88 | 8500 | 155.8 | 5.5 |
| 5.33 | D18 | 180 | 4300 | 168.7 | 2.56 | 8500 | 173.3 | 4.93 | |

Note: (1) Actual output speed of the gearmotor: Actual input speed (n₁)/Exact ration (i_{ex});

(2) Rated input power corresponding to actual input speed of the gearmotor: P_{1N}=T_{2N}*n₁/(9550*i_{ex}), the rated output torque T_{2N} in the formula remains unchanged.

| Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power |
|---------------------|-------------|-------------------|---------------------|-------------|-------------------|---------------------|-------------|-------------------|---------------------|-------------|-------------------|
| T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) | T_{2N} (N.m) | i_{ex} | P_{1N} (kW) |
| K312 | | | K315 | | | K316 | | | K318 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 9500 | 7.14 | 202 | | | | | | | | | |
| 9500 | 8.11 | 178 | | | | | | | | | |
| 9500 | 9.45 | 153 | | | | | | | | | |
| 9500 | 10.5 | 137 | 20000 | 10.1 | 299 | 36000 | 9.97 | 548 | 47000 | 10.1 | 704 |
| 10500 | 11.7 | 136 | 20000 | 11.5 | 264 | 38000 | 11.2 | 517 | 47000 | 11.4 | 624 |
| 12000 | 12.6 | 145 | 20000 | 13.4 | 226 | 38000 | 12.4 | 465 | 47000 | 13.2 | 541 |
| 13100 | 14.3 | 140 | 20000 | 14.9 | 204 | 38000 | 14.0 | 413 | 47000 | 15.1 | 474 |
| 14500 | 16.6 | 133 | 20000 | 16.6 | 183 | 38000 | 16.1 | 358 | 47000 | 16.1 | 442 |
| 14500 | 18.5 | 119 | 20000 | 18.4 | 165 | 38000 | 17.8 | 325 | 47000 | 17.4 | 409 |
| 14500 | 20.6 | 107 | 20000 | 19.9 | 152 | 38000 | 19.7 | 293 | 50000 | 20.2 | 376 |
| 14500 | 22.7 | 97 | 20000 | 22.9 | 133 | 38000 | 21.7 | 265 | 53000 | 22.5 | 357 |
| 14500 | 24.6 | 89 | 20000 | 24.1 | 126 | 38000 | 24.3 | 237 | 53000 | 24.1 | 334 |
| 14500 | 28.3 | 78 | 20000 | 27.4 | 111 | 38000 | 27.0 | 213 | 58000 | 27.1 | 324 |
| 14500 | 32.1 | 69 | 20000 | 31.9 | 95 | 38000 | 30.5 | 189 | 58000 | 31.4 | 281 |
| 14500 | 34.6 | 64 | 20000 | 35.4 | 86 | 38000 | 35.1 | 164 | 58000 | 35.8 | 246 |
| 14500 | 39.3 | 56 | 20000 | 39.5 | 77 | 38000 | 38.7 | 149 | 58000 | 38.3 | 230 |
| 14500 | 45.8 | 48.1 | 20000 | 43.6 | 70 | 38000 | 43.9 | 131 | 58000 | 47.3 | 186 |
| 14500 | 50.9 | 43.3 | 20000 | 50.3 | 60 | 38000 | 50.6 | 114 | 58000 | 50.7 | 174 |
| 14500 | 56.7 | 38.8 | 20000 | 56.0 | 54 | 38000 | 55.8 | 103 | 58000 | 54.8 | 161 |
| 14500 | 62.6 | 35.1 | 20000 | 61.9 | 49.1 | 38000 | 61.9 | 93 | 58000 | 63.4 | 139 |
| 14500 | 68.0 | 32.4 | 20000 | 67.1 | 45.2 | 38000 | 68.8 | 84 | 58000 | 70.8 | 124 |
| 14500 | 78.1 | 28.2 | 20000 | 77.2 | 39.3 | 38000 | 78.1 | 74 | 58000 | 79.8 | 110 |
| 14500 | 88.5 | 24.9 | 20000 | 87.4 | 34.7 | 38000 | 86.8 | 67 | 58000 | 88.2 | 100 |
| 14500 | 98.5 | 22.3 | 20000 | 97.3 | 31.2 | 38000 | 98.6 | 59 | 58000 | 99.2 | 89 |
| 14500 | 109.1 | 20.2 | 20000 | 107.7 | 28.2 | 38000 | 113.1 | 51 | 58000 | 109.8 | 80 |
| 14500 | 127.3 | 17.3 | 20000 | 125.7 | 24.2 | 38000 | 127.9 | 45.1 | 58000 | 124.0 | 71 |
| 14500 | 135.0 | 16.3 | 20000 | 133.4 | 22.8 | 38000 | 140.4 | 41.1 | 58000 | 141.6 | 62 |
| 14500 | 153.1 | 14.4 | | | | 38000 | 155.1 | 37.2 | 58000 | 159.1 | 55 |
| 14500 | 174.8 | 12.6 | | | | | | | | | |

K

| | | | | | | | | | | | |
|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 14500 | 127.3 | 11.5 | 20000 | 125.7 | 16.0 | 38000 | 127.9 | 29.9 | 58000 | 124.0 | 47.0 |
| 14500 | 135.0 | 10.8 | 20000 | 133.4 | 15.1 | 38000 | 140.4 | 27.2 | 58000 | 141.6 | 41.2 |
| 14500 | 153.1 | 9.5 | | | | 38000 | 155.1 | 24.6 | 58000 | 159.1 | 36.7 |
| 14500 | 174.8 | 8.3 | | | | | | | | | |



4.2 K.../C... Combi-type transmission capacity

K.../C...(i_N=112-14000)

| Nominal Input Speed | Nominal Output Speed | Nominal Ratio Code | Nominal Ratio | Rated Output Torque | Nominal Ratio | Rated Input Power | Rated Output Torque | Nominal Ratio | Rated Input Power | Rated Output Torque | Nominal Ratio | Rated Input Power | |
|----------------------------|----------------------------|--------------------|----------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|--|
| n _{1N} (r/min) | n _{2N} (r/min) | Code | i _N | T _{2N} (N·m) | i _{ex} | P _{1N} (kW) | T _{2N} (N·m) | i _{ex} | P _{1N} (kW) | T _{2N} (N·m) | i _{ex} | P _{1N} (kW) | |
| 1450 | | | | K303/C201 | | | K304/C203 | | | K305/C203 | | | |
| | 12.90 | D11 | 112 | 230 | 116.2 | 0.30 | 450 | 110.4 | 0.62 | 680 | 106.8 | 0.97 | |
| | 11.60 | D13 | 125 | 230 | 129.5 | 0.27 | 450 | 126.5 | 0.54 | 680 | 122.4 | 0.84 | |
| | 10.36 | D14 | 140 | 230 | 144.8 | 0.24 | 450 | 138.9 | 0.49 | 680 | 134.4 | 0.77 | |
| | 9.06 | D16 | 160 | 230 | 153.7 | 0.23 | 450 | 156.2 | 0.44 | 680 | 151.2 | 0.68 | |
| | | | | | K303/C301 | | | | | | | | |
| | 8.06 | D18 | 180 | 230 | 182.9 | 0.19 | 450 | 167.4 | 0.41 | 680 | 162.0 | 0.64 | |
| | | | | | | | | K304/C303 | | | K305/C303 | | |
| | 7.25 | D20 | 200 | 230 | 209.6 | 0.17 | 450 | 189.7 | 0.36 | 680 | 183.6 | 0.56 | |
| | 6.47 | D22 | 224 | 230 | 238.8 | 0.15 | 450 | 214.5 | 0.32 | 680 | 207.6 | 0.50 | |
| | | | | | K303/C201 | | | K304/C203 | | | K305/C203 | | |
| | 5.80 | D25 | 250 | 230 | 248.3 | 0.14 | 450 | 264.1 | 0.26 | 680 | 265.5 | 0.39 | |
| | 5.18 | D28 | 280 | 230 | 281.3 | 0.12 | 450 | 298.3 | 0.23 | 680 | 299.9 | 0.34 | |
| | 4.60 | D32 | 315 | 230 | 332.1 | 0.11 | 450 | 331.1 | 0.21 | 680 | 332.9 | 0.31 | |
| | 4.08 | D36 | 355 | 230 | 370.3 | | 450 | 379.4 | 0.18 | 680 | 381.5 | 0.27 | |
| | 3.63 | D40 | 400 | 230 | 413.8 | | 450 | 416.6 | 0.16 | 680 | 418.9 | 0.25 | |
| | 3.22 | D45 | 450 | 230 | 439.2 | | 450 | 468.7 | 0.15 | 680 | 471.2 | 0.22 | |
| | | | | | K303/C301 | | | | | | | | |
| | 2.90 | D50 | 500 | 230 | 522.7 | | 450 | 502.2 | 0.14 | 680 | 504.9 | 0.20 | |
| | | | | | | | | K304/C303 | | | K305/C303 | | |
| | 2.59 | D56 | 560 | 230 | 599.0 | | 450 | 569.2 | 0.12 | 680 | 572.2 | 0.18 | |
| | 2.30 | D63 | 630 | 230 | 682.4 | | 450 | 643.6 | 0.11 | 680 | 647.0 | 0.16 | |
| | 2.04 | D71 | 710 | 230 | 740.5 | | 450 | 732.8 | | 680 | 736.8 | 0.14 | |
| | | | | | | | | | | | | | |
| | 1.81 | D80 | 800 | 230 | 805.9 | | 450 | 825.8 | | 680 | 830.3 | 0.12 | |
| | 1.61 | D90 | 900 | 230 | 893.0 | | 450 | 937.4 | | 680 | 942.5 | 0.11 | |
| | 1.45 | E10 | 1000 | 230 | 998.3 | | 450 | 1001 | | 680 | 1006 | | |
| | 1.29 | E11 | 1120 | 230 | 1172 | | 450 | 1127 | | 680 | 1133 | | |
| | 1.16 | E13 | 1250 | 230 | 1285 | | 450 | 1283 | | 680 | 1290 | | |
| | 1.04 | E14 | 1400 | 230 | 1394 | | 450 | 1455 | | 680 | 1462 | | |
| | 0.91 | E16 | 1600 | 230 | 1681 | | 450 | 1644 | | 680 | 1653 | | |
| | 0.81 | E18 | 1800 | 230 | 1880 | | 450 | 1771 | | 680 | 1780 | | |
| | 0.73 | E20 | 2000 | 230 | 1997 | | 450 | 2072 | | 680 | 2083 | | |
| | 0.65 | E22 | 2240 | 230 | 2207 | | 450 | 2351 | | 680 | 2364 | | |
| | 0.58 | E25 | 2500 | 230 | 2561 | | 450 | 2581 | | 680 | 2459 | | |
| | 0.52 | E28 | 2800 | 230 | 3088 | | 450 | 2917 | | 680 | 2780 | | |
| | 0.46 | E32 | 3150 | 230 | 3455 | | 450 | 3142 | | 680 | 2994 | | |
| | 0.41 | E36 | 3550 | 230 | 3669 | | 450 | 3676 | | 680 | 3504 | | |
| | 0.36 | E40 | 4000 | 230 | 4055 | | 450 | 4171 | | 680 | 3975 | | |
| | 0.32 | E45 | 4500 | 230 | 4756 | | 450 | 4594 | | 680 | 4378 | | |
| | 0.29 | E50 | 5000 | 230 | 5403 | | 450 | 5023 | | 680 | 4787 | | |
| | 0.26 | E56 | 5600 | 230 | 5830 | | 450 | 5491 | | 680 | 5233 | | |
| 0.23 | E63 | 6300 | | | | 450 | 6431 | | 680 | 6257 | | | |
| 0.20 | E71 | 7100 | | | | 450 | 7032 | | 680 | 6841 | | | |
| 0.18 | E80 | 8000 | | | | 450 | 7688 | | 680 | 7480 | | | |
| 0.16 | E90 | 9000 | | | | | | | | | | | |
| 0.15 | F10 | 10000 | | | | | | | | | | | |
| 0.13 | F11 | 11200 | | | | | | | | | | | |
| 0.12 | F13 | 12500 | | | | | | | | | | | |
| 0.10 | F14 | 14000 | | | | | | | | | | | |

| Rated Output Torque | Nominal Ratio | Rated Input Power | Rated Output Torque | Nominal Ratio | Rated Input Power | Rated Output Torque | Nominal Ratio | Rated Input Power |
|---------------------|-----------------|-------------------|---------------------|-----------------|-------------------|---------------------|-----------------|-------------------|
| T_{2N} (N·m) | ie _x | P_{1N} (kW) | T_{2N} (N·m) | ie _x | P_{1N} (kW) | T_{2N} (N·m) | ie _x | P_{1N} (kW) |
| K306/C203 | | | K307/C203 | | | K308/C205 | | |
| 950 | 115.7 | 1.25 | 1750 | 106.8 | 2.49 | 3000 | 113.3 | 4.02 |
| 950 | 132.6 | 1.09 | 1750 | 122.4 | 2.17 | 3000 | 120.8 | 3.77 |
| 950 | 145.6 | 0.99 | 1750 | 134.4 | 1.98 | 3000 | 135.0 | 3.37 |
| 950 | 163.8 | 0.88 | 1750 | 151.2 | 1.76 | 3000 | 150.0 | 3.04 |
| 950 | 175.5 | 0.82 | 1750 | 162.0 | 1.64 | 3000 | 187.5 | 2.43 |
| K306/C303 | | | K307/C303 | | | | | |
| 950 | 198.9 | 0.73 | 1750 | 183.6 | 1.45 | 3000 | 205.0 | 2.22 |
| 950 | 224.9 | 0.64 | 1750 | 207.6 | 1.28 | 3000 | 233.8 | 1.95 |
| K306/C203 | | | K307/C203 | | | | | |
| 950 | 254.2 | 0.57 | 1750 | 250.6 | 1.06 | 3000 | 267.5 | 1.70 |
| 950 | 287.1 | 0.50 | 1750 | 283.1 | 0.94 | 3000 | 294.5 | 1.55 |
| 950 | 318.6 | 0.45 | 1750 | 314.2 | 0.85 | 3000 | 334.3 | 1.36 |
| 950 | 365.2 | 0.40 | 1750 | 360.1 | 0.74 | 3000 | 356.5 | 1.28 |
| 950 | 401.0 | 0.36 | 1750 | 395.4 | 0.67 | 3000 | 398.5 | 1.14 |
| 950 | 451.1 | 0.32 | 1750 | 444.8 | 0.60 | 3000 | 442.8 | 1.03 |
| 950 | 483.3 | 0.30 | 1750 | 476.6 | 0.56 | 3000 | 553.5 | 0.82 |
| K306/C303 | | | K307/C303 | | | | | |
| 950 | 547.7 | 0.26 | 1750 | 540.1 | 0.49 | 3000 | 605.2 | 0.75 |
| 950 | 619.3 | 0.23 | 1750 | 610.7 | 0.44 | 3000 | 690.0 | 0.66 |
| 950 | 705.3 | 0.20 | 1750 | 695.4 | 0.38 | 3000 | 734.3 | 0.62 |
| | | | | | | K308/C305 | | |
| 950 | 794.8 | 0.18 | 1750 | 783.7 | 0.34 | 3000 | 826.6 | 0.55 |
| 950 | 902.2 | 0.16 | 1750 | 889.6 | 0.30 | 3000 | 929.9 | 0.49 |
| 950 | 963.0 | 0.15 | 1750 | 949.6 | 0.28 | 3000 | 1048 | 0.43 |
| 950 | 1085 | 0.13 | 1750 | 1070 | 0.25 | 3000 | 1162 | 0.39 |
| 950 | 1235 | 0.12 | 1750 | 1218 | 0.22 | 3000 | 1332 | 0.34 |
| 950 | 1400 | 0.10 | 1750 | 1380 | 0.19 | 3000 | 1465 | 0.31 |
| 950 | 1582 | | 1750 | 1560 | 0.17 | 3000 | 1738 | 0.26 |
| 950 | 1704 | | 1750 | 1680 | 0.16 | 3000 | 1930 | 0.24 |
| 950 | 1994 | | 1750 | 1966 | 0.14 | 3000 | 2210 | 0.21 |
| 950 | 2263 | | 1750 | 2231 | 0.12 | 3000 | 2428 | 0.19 |
| 950 | 2475 | | 1750 | 2459 | 0.11 | 3000 | 2509 | 0.18 |
| 950 | 2798 | | 1750 | 2780 | | 3000 | 2977 | 0.15 |
| 950 | 3013 | | 1750 | 2994 | | 3000 | 3305 | 0.14 |
| 950 | 3526 | | 1750 | 3504 | | 3000 | 3786 | 0.12 |
| 950 | 4001 | | 1750 | 3975 | | 3000 | 4159 | 0.11 |
| 950 | 4406 | | 1750 | 4378 | | 3000 | 4689 | |
| 950 | 4817 | | 1750 | 4787 | | 3000 | 5012 | |
| 950 | 5267 | | 1750 | 5233 | | 3000 | 5827 | |
| 950 | 5819 | | 1750 | 5860 | | 3000 | 6678 | |
| 950 | 6362 | | 1750 | 6408 | | 3000 | 7137 | |
| 950 | 6956 | | 1750 | 7005 | | 3000 | 8298 | |
| | | | | | | 3000 | 9333 | |
| | | | | | | 3000 | 10197 | |
| | | | | | | 3000 | 11178 | |
| | | | | | | 3000 | 12150 | |

K



K.../C... Combi-type transmission capacity

K.../C...(i_N=112-14000)

| Nominal Input Speed | Nominal Output Speed | Nominal Ratio Code | Nominal Ratio | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | |
|----------------------------|----------------------------|--------------------|----------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|--------------------------|-----------------|-------------------------|--|
| n _{1N} (r/min) | n _{2N} (r/min) | Code | i _N | T _{2N} (N·m) | ie _x | P _{1N} (kW) | T _{2N} (N·m) | ie _x | P _{1N} (kW) | T _{2N} (N·m) | ie _x | P _{1N} (kW) | |
| | | | | K309/C205 | | | K310/C207 | | | K312/C208 | | | |
| 1450 | 12.90 | D11 | 112 | 5000 | 116.0 | 6.5 | 9000 | 112.6 | 12.1 | 14500 | 115.9 | 19.0 | |
| | 11.60 | D13 | 125 | 5000 | 123.6 | 6.1 | 9000 | 128.8 | 10.6 | 14500 | 131.0 | 16.8 | |
| | 10.36 | D14 | 140 | 5000 | 138.2 | 5.5 | 9000 | 145.0 | 9.4 | 14500 | 142.4 | 15.5 | |
| | | | | | | | | K310/C307 | | | | | |
| | 9.06 | D16 | 160 | 5000 | 153.6 | 4.94 | 9000 | 157.5 | 8.7 | 14500 | 160.0 | 13.8 | |
| | 8.06 | D18 | 180 | 5000 | 192.0 | 3.95 | 9000 | 181.3 | 7.5 | 14500 | 175.1 | 12.6 | |
| | 7.25 | D20 | 200 | 5000 | 209.9 | 3.62 | 9000 | 192.5 | 7.1 | 14500 | 202.9 | 10.9 | |
| | 6.47 | D22 | 224 | 5000 | 239.4 | 3.17 | 9000 | 221.3 | 6.2 | 14500 | 216.7 | 10.2 | |
| | | | | | | | | K310/C207 | | | K312/C207 | | |
| | 5.80 | D25 | 250 | 5000 | 250.1 | 3.04 | 9000 | 246.3 | 5.5 | 14500 | 247.0 | 8.9 | |
| | 5.18 | D28 | 280 | 5000 | 275.3 | 2.76 | 9000 | 280.5 | 4.87 | 14500 | 281.3 | 7.8 | |
| | 4.60 | D32 | 315 | 5000 | 312.6 | 2.43 | 9000 | 310.8 | 4.40 | 14500 | 311.7 | 7.1 | |
| | 4.08 | D36 | 355 | 5000 | 333.3 | 2.28 | 9000 | 355.4 | 3.85 | 14500 | 356.4 | 6.2 | |
| | 3.63 | D40 | 400 | 5000 | 372.6 | 2.04 | 9000 | 400.2 | 3.41 | 14500 | 401.4 | 5.5 | |
| | | | | | | | | K310/C307 | | | K312/C307 | | |
| | 3.22 | D45 | 450 | 5000 | 414.0 | 1.83 | 9000 | 434.7 | 3.14 | 14500 | 436.0 | 5.0 | |
| | 2.90 | D50 | 500 | 5000 | 517.5 | 1.47 | 9000 | 500.3 | 2.73 | 14500 | 501.7 | 4.39 | |
| | 2.59 | D56 | 560 | 5000 | 565.8 | 1.34 | 9000 | 531.3 | 2.57 | 14500 | 532.8 | 4.13 | |
| | 2.30 | D63 | 630 | 5000 | 645.2 | 1.18 | 9000 | 610.7 | 2.24 | 14500 | 612.4 | 3.59 | |
| | 2.04 | D71 | 710 | 5000 | 686.6 | 1.11 | 9000 | 714.2 | 1.91 | 14500 | 716.2 | 3.07 | |
| | | | | | | | | K309/C305 | | | | | |
| | 1.81 | D80 | 800 | 5000 | 772.8 | 0.98 | 9000 | 800.4 | 1.71 | 14500 | 802.7 | 2.74 | |
| | 1.61 | D90 | 900 | 5000 | 869.4 | 0.87 | 9000 | 914.3 | 1.49 | 14500 | 916.9 | 2.40 | |
| | | | | | | | | | | | | | |
| | 1.45 | E10 | 1000 | 5000 | 979.8 | 0.77 | 9000 | 976.4 | 1.40 | 14500 | 979.2 | 2.25 | |
| | 1.29 | E11 | 1120 | 5000 | 1087 | 0.70 | 9000 | 1118 | 1.22 | 14500 | 1121 | 1.96 | |
| | 1.16 | E13 | 1250 | 5000 | 1245 | 0.61 | 9000 | 1273 | 1.07 | 14500 | 1277 | 1.72 | |
| | 1.04 | E14 | 1400 | 5000 | 1370 | 0.55 | 9000 | 1311 | 1.04 | 14500 | 1315 | 1.67 | |
| | 0.91 | E16 | 1600 | 5000 | 1625 | 0.47 | 9000 | 1504 | 0.91 | 14500 | 1509 | 1.46 | |
| | 0.81 | E18 | 1800 | 5000 | 1804 | 0.42 | 9000 | 1708 | 0.80 | 14500 | 1713 | 1.29 | |
| | 0.73 | E20 | 2000 | 5000 | 2067 | 0.37 | 9000 | 1911 | 0.71 | 14500 | 1917 | 1.15 | |
| | 0.65 | E22 | 2240 | 5000 | 2270 | 0.33 | 9000 | 2129 | 0.64 | 14500 | 2135 | 1.03 | |
| | 0.58 | E25 | 2500 | 5000 | 2426 | 0.31 | 9000 | 2428 | 0.56 | 14500 | 2379 | 0.93 | |
| | 0.52 | E28 | 2800 | 5000 | 2878 | 0.26 | 9000 | 2786 | 0.49 | 14500 | 2729 | 0.81 | |
| | 0.46 | E32 | 3150 | 5000 | 3196 | 0.24 | 9000 | 3163 | 0.43 | 14500 | 3099 | 0.71 | |
| | 0.41 | E36 | 3550 | 5000 | 3660 | 0.21 | 9000 | 3540 | 0.39 | 14500 | 3468 | 0.63 | |
| | 0.36 | E40 | 4000 | 5000 | 4020 | 0.19 | 9000 | 3943 | 0.35 | 14500 | 3862 | 0.57 | |
| | 0.32 | E45 | 4500 | 5000 | 4534 | 0.17 | 9000 | 4332 | 0.32 | 14500 | 4244 | 0.52 | |
| | 0.29 | E50 | 5000 | 5000 | 4845 | 0.16 | 9000 | 4920 | 0.28 | 14500 | 4820 | 0.46 | |
| | 0.26 | E56 | 5600 | 5000 | 5633 | 0.13 | 9000 | 6122 | 0.22 | 14500 | 5997 | 0.37 | |
| | 0.23 | E63 | 6300 | 5000 | 6411 | 0.12 | 9000 | 8775 | 0.16 | 14500 | 9009 | 0.24 | |
| | 0.20 | E71 | 7100 | 5000 | 6852 | 0.11 | 9000 | 6637 | 0.21 | 14500 | 6815 | 0.32 | |
| 0.18 | E80 | 8000 | 5000 | 7966 | | 9000 | 8258 | 0.17 | 14500 | 8478 | 0.26 | | |
| 0.16 | E90 | 9000 | 5000 | 8960 | | 9000 | 8775 | 0.16 | 14500 | 9009 | 0.24 | | |
| 0.15 | F10 | 10000 | 5000 | 9789 | | 9000 | 10146 | 0.13 | 14500 | 10416 | 0.21 | | |
| 0.13 | F11 | 11200 | 5000 | 10731 | | 9000 | 10732 | 0.13 | 14500 | 11018 | 0.20 | | |
| 0.12 | F13 | 12500 | 5000 | 11664 | | 9000 | 12068 | 0.11 | 14500 | 12390 | 0.18 | | |
| 0.10 | F14 | 14000 | | | | 9000 | 12835 | | 14500 | 13178 | 0.17 | | |

| Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power | Rated Output Torque | Exact Ratio | Rated Input Power |
|---------------------|-----------------|-------------------|---------------------|-----------------|-------------------|---------------------|-----------------|-------------------|
| T_{2N} (N·m) | ie _x | P_{1N} (kW) | T_{2N} (N·m) | ie _x | P_{1N} (kW) | T_{2N} (N·m) | ie _x | P_{1N} (kW) |
| K315/C210 | | | K316/C210 | | | K318/C210 | | |
| 20000 | 115.8 | 26.2 | 38000 | 107.1 | 53.9 | 58000 | 114.0 | 77.2 |
| 20000 | 129.6 | 23.4 | 38000 | 119.9 | 48.1 | 58000 | 127.6 | 69.0 |
| 20000 | 143.4 | 21.2 | 38000 | 132.7 | 43.5 | 58000 | 141.2 | 62.3 |
| 20000 | 167.5 | 18.1 | 38000 | 155.0 | 37.2 | 58000 | 165.0 | 53.4 |
| 20000 | 184.9 | 16.4 | 38000 | 171.1 | 33.7 | 58000 | 182.2 | 48.3 |
| 20000 | 195.6 | 15.5 | 38000 | 181.0 | 31.9 | 58000 | 192.7 | 45.7 |
| 20000 | 222.4 | 13.7 | 38000 | 205.8 | 28.0 | 58000 | 219.1 | 40.2 |
| K315/C209 | | | K316/C209 | | | K318/C209 | | |
| 20000 | 249.9 | 12.2 | 38000 | 247.8 | 23.3 | 58000 | 252.7 | 34.8 |
| 20000 | 277.9 | 10.9 | 38000 | 275.5 | 20.9 | 58000 | 281.0 | 31.3 |
| 20000 | 315.4 | 9.6 | 38000 | 312.7 | 18.4 | 58000 | 319.0 | 27.6 |
| 20000 | 357.5 | 8.5 | 38000 | 354.5 | 16.3 | 58000 | 361.6 | 24.4 |
| 20000 | 403.6 | 7.5 | 38000 | 400.1 | 14.4 | 58000 | 408.1 | 21.6 |
| 20000 | 428.3 | 7.1 | 38000 | 424.7 | 13.6 | 58000 | 433.2 | 20.3 |
| 20000 | 492.1 | 6.2 | 38000 | 487.9 | 11.8 | 58000 | 497.6 | 17.7 |
| 20000 | 545.2 | 5.6 | 38000 | 540.5 | 10.7 | 58000 | 551.3 | 16.0 |
| 20000 | 619.5 | 4.90 | 38000 | 614.3 | 9.4 | 58000 | 626.5 | 14.1 |
| 20000 | 693.8 | 4.38 | 38000 | 688.0 | 8.4 | 58000 | 701.7 | 12.6 |
| 20000 | 793.0 | 3.83 | 38000 | 786.2 | 7.3 | 58000 | 801.9 | 11.0 |
| 20000 | 846.1 | 3.59 | 38000 | 838.9 | 6.9 | 58000 | 855.6 | 10.3 |
| K315/C309 | | | K316/C309 | | | K318/C309 | | |
| 20000 | 987.7 | 3.07 | 38000 | 979.3 | 5.9 | 58000 | 998.8 | 8.8 |
| 20000 | 1143 | 2.66 | 38000 | 1134 | 5.1 | 58000 | 1156 | 7.6 |
| 20000 | 1246 | 2.44 | 38000 | 1236 | 4.67 | 58000 | 1260 | 7.0 |
| 20000 | 1402 | 2.17 | 38000 | 1390 | 4.15 | 58000 | 1418 | 6.2 |
| 20000 | 1536 | 1.98 | 38000 | 1523 | 3.79 | 58000 | 1554 | 5.7 |
| 20000 | 1774 | 1.71 | 38000 | 1759 | 3.28 | 58000 | 1794 | 4.91 |
| 20000 | 1894 | 1.60 | 38000 | 1878 | 3.07 | 58000 | 1915 | 4.60 |
| 20000 | 2244 | 1.35 | 38000 | 2225 | 2.59 | 58000 | 2270 | 3.88 |
| 20000 | 2451 | 1.24 | 38000 | 2451 | 2.35 | 58000 | 2511 | 3.51 |
| 20000 | 2686 | 1.13 | 38000 | 2686 | 2.15 | 58000 | 2752 | 3.20 |
| 20000 | 3101 | 0.98 | 38000 | 3101 | 1.86 | 58000 | 3176 | 2.77 |
| 20000 | 3312 | 0.92 | 38000 | 3312 | 1.74 | 58000 | 3392 | 2.60 |
| 20000 | 3924 | 0.77 | 38000 | 3924 | 1.47 | 58000 | 4020 | 2.19 |
| 20000 | 4277 | 0.71 | 38000 | 4277 | 1.35 | 58000 | 4381 | 2.01 |
| 20000 | 4816 | 0.63 | 38000 | 4816 | 1.20 | 58000 | 4933 | 1.79 |
| 20000 | 5274 | 0.58 | 38000 | 5274 | 1.09 | 58000 | 5402 | 1.63 |
| 20000 | 6039 | 0.50 | 38000 | 5998 | 0.96 | 58000 | 6095 | 1.44 |
| 20000 | 6800 | 0.45 | 38000 | 6753 | 0.85 | 58000 | 6862 | 1.28 |
| 20000 | 7446 | 0.41 | 38000 | 7395 | 0.78 | 58000 | 7515 | 1.17 |
| 20000 | 8609 | 0.35 | 38000 | 8550 | 0.67 | 58000 | 8688 | 1.01 |
| 20000 | 9177 | 0.33 | 38000 | 9114 | 0.63 | 58000 | 9261 | 0.95 |
| 20000 | 10602 | 0.29 | 38000 | 10529 | 0.55 | 58000 | 10699 | 0.82 |
| 20000 | 12052 | 0.25 | 38000 | 11970 | 0.48 | 58000 | 12163 | 0.72 |
| 20000 | 13390 | 0.23 | 38000 | 13298 | 0.43 | 58000 | 13512 | 0.65 |

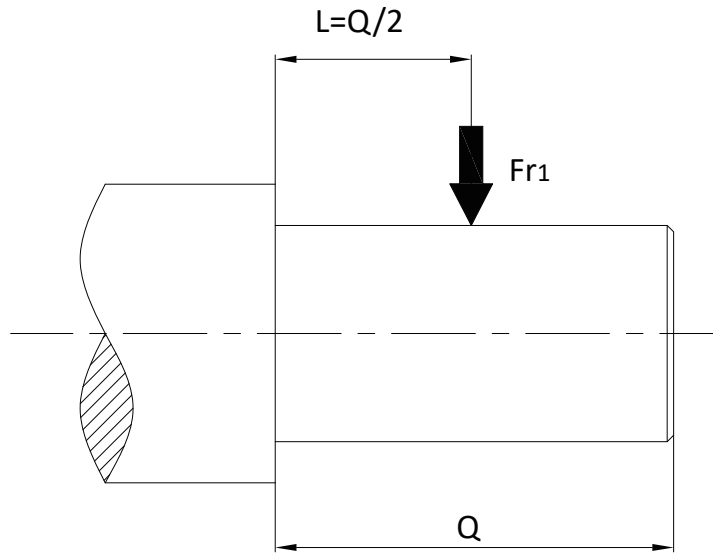
K



5 Permissible Radial Force

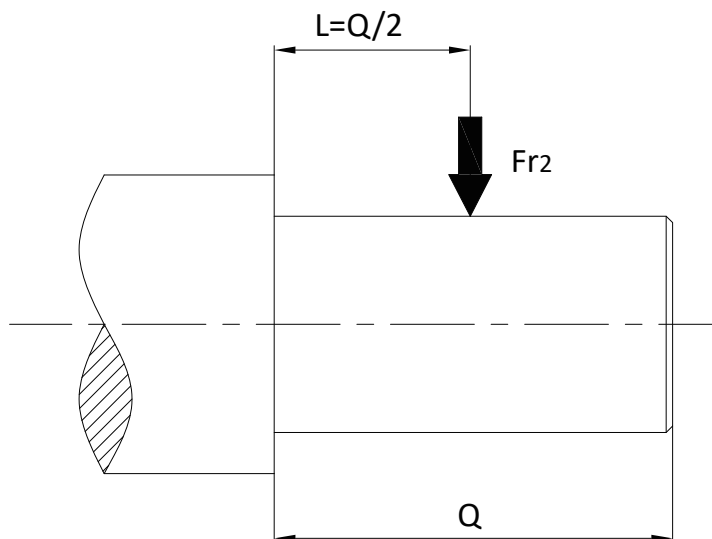
5.1 Radial force on input shaft (Fr1) (N)

K



| | Fr1(N) | | | | | | | | | | | |
|-----|--------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| | K303 | K304 | K305 | K306 | K307 | K308 | K309 | K310 | K312 | K315 | K316 | K318 |
| AE2 | 803 | 803 | 803 | 803 | 803 | 803 | / | / | / | / | / | / |
| AE3 | / | 1504 | 1504 | 1504 | 1504 | 1504 | 1504 | 1504 | / | / | / | / |
| AE4 | / | / | / | / | 2188 | 2188 | 2188 | 2188 | 2188 | / | / | / |
| AE5 | / | / | / | / | / | 4207 | 4207 | 4207 | 4207 | 4207 | 4207 | 4207 |
| AE6 | / | / | / | / | / | / | 5664 | 5664 | 5664 | 5664 | 5664 | 5664 |
| AE7 | / | / | / | / | / | / | / | / | 9957 | 9957 | 9957 | 9957 |
| AE8 | / | / | / | / | / | / | / | / | 12546 | 12546 | 12546 | 12546 |

5.2 Radial force on output shaft (Fr2) (N)



| n_{2N} (r/min) | Fr2(N) | | | | | | | | | | | |
|---------------------|--------|------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | K303 | K304 | K305 | K306 | K307 | K308 | K309 | K310 | K312 | K315 | K316 | K318 |
| 315~425 | 1466 | 2430 | 4330 | 7715 | / | / | / | / | / | / | / | / |
| 280~315 | 1600 | 2650 | 4720 | 8410 | / | / | / | / | / | / | / | / |
| 225~280 | 1750 | 2890 | 5150 | 9165 | / | / | / | / | / | / | / | / |
| 160~225 | 1899 | 3150 | 5610 | 9990 | 11135 | 12150 | 14220 | 22140 | 29250 | / | / | / |
| 140~160 | 2070 | 3240 | 5791 | 10350 | 12510 | 12780 | 14760 | 23220 | 29700 | 30400 | 52180 | 58530 |
| 125~140 | 2250 | 3510 | 6105 | 10620 | 12960 | 13410 | 14580 | 24300 | 30510 | 31920 | 54790 | 61450 |
| 112~125 | 2340 | 3348 | 6088 | 11070 | 13590 | 13320 | 14470 | 25200 | 31860 | 33520 | 57500 | 64530 |
| 90~112 | 2430 | 3510 | 6001 | 10260 | 13500 | 13770 | 15300 | 19710 | 28620 | 35190 | 60400 | 67750 |
| 80~90 | 2610 | 3807 | 6139 | 9900 | 14490 | 14670 | 16020 | 21240 | 30240 | 36950 | 63420 | 71140 |
| 71~80 | 2799 | 3960 | 6204 | 9720 | 14130 | 15120 | 17190 | 23490 | 31500 | 38800 | 66600 | 74700 |
| 63~71 | 2880 | 4239 | 6419 | 9720 | 13860 | 16110 | 18810 | 26010 | 34200 | 42300 | 69750 | 76770 |
| 56~63 | 2997 | 4500 | 6490 | 9360 | 13860 | 16200 | 19800 | 28800 | 36900 | 46800 | 73500 | 78120 |
| 50~56 | 3150 | 4770 | 6650 | 9270 | 13860 | 16650 | 20970 | 29700 | 38700 | 48600 | 79740 | 81180 |
| 45~50 | 3285 | 5040 | 6835 | 9270 | 13860 | 17280 | 22050 | 31500 | 41340 | 51300 | 81900 | 85050 |
| 35.5~45 | 3375 | 5328 | 7028 | 9270 | 13860 | 19260 | 23130 | 33300 | 44460 | 54000 | 89730 | 92700 |
| 31.5~35.5 | 3960 | 5328 | 7028 | 9270 | 13860 | 20520 | 25470 | 36450 | 48600 | 60300 | 96660 | 101430 |
| 28~31.5 | 4194 | 5328 | 7028 | 9270 | 13860 | 21150 | 27900 | 37980 | 52200 | 65250 | 105300 | 113400 |
| 25~28 | 4410 | 5328 | 7028 | 9270 | 13860 | 22500 | 29070 | 39960 | 53910 | 67410 | 108000 | 113490 |
| 22.4~25 | 4662 | 5328 | 7028 | 9270 | 13860 | 23580 | 30420 | 41220 | 57600 | 71100 | 114300 | 123300 |
| 20~22.4 | 4968 | 5328 | 7028 | 9270 | 13860 | 24570 | 32040 | 43200 | 60930 | 75780 | 126000 | 130500 |
| 18~20 | 5076 | 5328 | 7028 | 9270 | 13860 | 24570 | 33390 | 45450 | 63000 | 79200 | 126090 | 132300 |
| 16~18 | 5076 | 5328 | 7028 | 9270 | 13860 | 24570 | 34920 | 47700 | 66150 | 82710 | 132480 | 143100 |
| ≤16 | 5076 | 5328 | 7028 | 9270 | 13860 | 24570 | 36000 | 51300 | 71280 | 88200 | 135000 | 152910 |

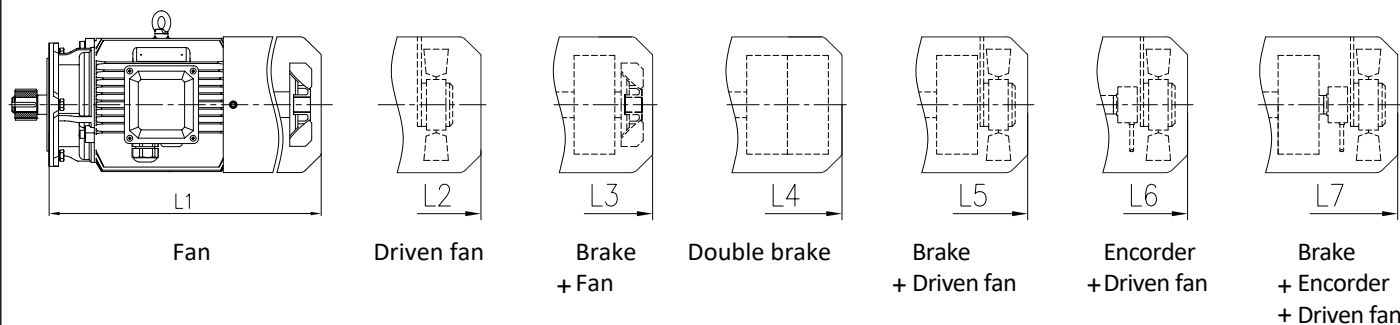


6 Dimensions

| Mounting Mode | K303 Dimensions | | | | | | | |
|-------------------------|--|--|--|---|--|--|--|---|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 12.7kg (Without motor and oil)</p> | | <p>K303HA Unidirectional output shaft K303HB Unidirectional output shaft K303HC Bidirectional output shaft</p> | | | | | |
| | <p>K303HG Hollow shaft with parallel key K303HH Hollow shaft with parallel key</p> | | <p>K303HI Hollow shaft with shrink disk</p> | <p>K303HJ Hollow shaft with shrink disk</p> | <p>K303HK Hollow shaft with involute spline K303HL Hollow shaft with involute spline</p> | | | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 13.5kg (Without motor and oil)</p> | | <p>K303FA Unidirectional output shaft K303FB Unidirectional output shaft K303FC Bidirectional output shaft</p> | | <p>K303FD Unidirectional output shaft K303FE Unidirectional output shaft K303FF Bidirectional output shaft</p> | | | |
| | <p>K303FG Hollow shaft with parallel key K303FH Hollow shaft with parallel key</p> | | <p>K303FI Hollow shaft with shrink disk</p> | <p>K303FJ Hollow shaft with shrink disk</p> | <p>K303FK Hollow shaft with involute spline K303FL Hollow shaft with involute spline</p> | | | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 12kg (Without motor and oil)</p> | | <p>K303SG Hollow shaft with parallel key K303SH Hollow shaft with parallel key</p> | <p>K303SI Hollow shaft with shrink disk</p> | <p>K303SJ Hollow shaft with involute spline</p> | <p>K303SK Hollow shaft with involute spline K303SL Hollow shaft with involute spline</p> | | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 26kg (Without motor and oil)</p> | | <p>Torque arm-mounted without accessory (A) Weight: 16kg (Without motor and oil)</p> | | <p>K303AG Hollow shaft with parallel key K303AH Hollow shaft with parallel key K303TG Hollow shaft with parallel key K303TH Hollow shaft with parallel key</p> | <p>K303AI Hollow shaft with involute spline K303TI Hollow shaft with involute spline</p> | <p>K303AJ Hollow shaft with involute spline K303TJ Hollow shaft with involute spline</p> | <p>K303AK Hollow shaft with involute spline K303TK Hollow shaft with involute spline K303TL Hollow shaft with involute spline</p> |

Note: Involute spline size DIN5480: m1.25 × Z22 × α30 × D30 × 9H

Corresponding motor dimension table for K303



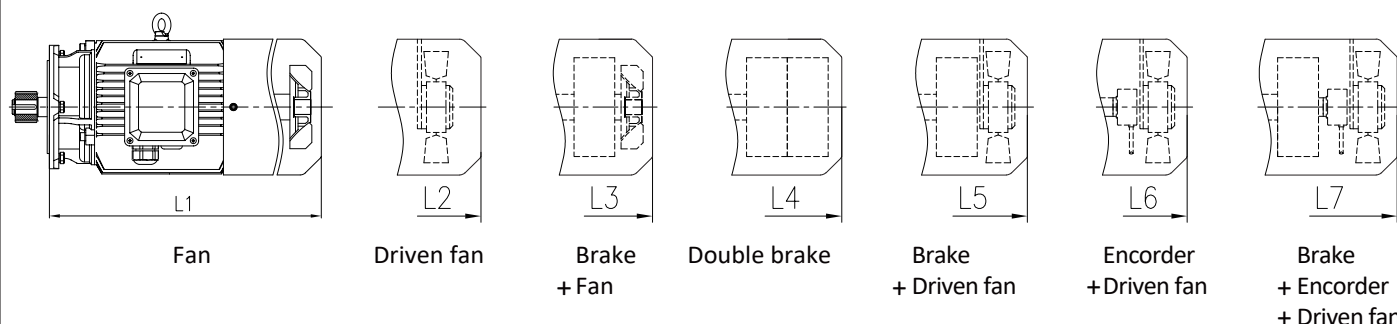
Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | | |
| 0.12 | 4-100 | / | 261 | 241 | / | 296 | / | / | 206 | 261 | 241 | 296 | / | / | 206 | 261 | 241 | 296 | / | / | 124 | | |
| 0.18 | 4-100 | / | 261 | 241 | / | 296 | / | / | 206 | 261 | 241 | 296 | / | / | 206 | 261 | 241 | 296 | / | / | 124 | | |
| 0.25 | 4-100 | / | 268 | 263 | / | 313 | 313 | 353 | 223 | 268 | 263 | 313 | 313 | 353 | 223 | 268 | 263 | 313 | 313 | 353 | 139 | | |
| 0.37 | 4-100 | / | 268 | 263 | / | 313 | 313 | 353 | 223 | 268 | 263 | 313 | 313 | 353 | 223 | 268 | 263 | 313 | 313 | 353 | 139 | | |
| 0.55 | 4-71 | 299 | 344 | 359 | 419 | 404 | 404 | 454 | 299 | 344 | 359 | 404 | 404 | 454 | 299 | 344 | 359 | 404 | 404 | 454 | 162 | | |
| 0.75 | 4-56 | 299 | 344 | 359 | 419 | 404 | 404 | 454 | 299 | 344 | 359 | 404 | 404 | 454 | 299 | 344 | 359 | 404 | 404 | 454 | 162 | | |
| 1.1 | 4-35.5 | 322 | 367 | 377 | 437 | 422 | 422 | 477 | 322 | 367 | 377 | 422 | 422 | 477 | 322 | 367 | 377 | 422 | 422 | 477 | 176 | | |
| 1.5 | 4-28 | 322 | 367 | 377 | 437 | 422 | 422 | 477 | 322 | 367 | 377 | 422 | 422 | 477 | 347 | 392 | 402 | 447 | 447 | 502 | 176 | | |
| 2.2 | 4-16 | 394 | 434 | 469 | 529 | 509 | 509 | 564 | 394 | 434 | 469 | 509 | 509 | 564 | 394 | 434 | 469 | 509 | 509 | 564 | 202 | | |
| 3 | 4-11.2 | 394 | 434 | 469 | 529 | 509 | 509 | 564 | 394 | 434 | 469 | 509 | 509 | 564 | 394 | 434 | 469 | 509 | 509 | 564 | 202 | | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | | |
| 0.12 | 4-100 | / | 8 | 9 | / | 9 | / | / | 7 | 8 | 9 | 9 | / | / | 7 | 8 | 9 | 9 | / | / | | |
| 0.18 | 4-100 | / | 8 | 9 | / | 9 | / | / | 7 | 8 | 9 | 9 | / | / | 8 | 9 | 10 | 10 | / | / | | |
| 0.25 | 4-100 | / | 9 | 10 | / | 11 | 10 | 12 | 8 | 9 | 10 | 11 | 10 | 12 | 9 | 10 | 11 | 12 | 11 | 13 | | |
| 0.37 | 4-100 | / | 10 | 11 | / | 12 | 11 | 13 | 9 | 10 | 11 | 12 | 11 | 13 | 10 | 11 | 12 | 13 | 12 | 14 | | |
| 0.55 | 4-71 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | | |
| 0.75 | 4-56 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | | |
| 1.1 | 4-35.5 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | | |
| 1.5 | 4-28 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | | |
| 2.2 | 4-16 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | | |
| 3 | 4-11.2 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | | |

Corresponding motor dimension table for K304



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | | |
| 0.12 | 4-125 | / | 262 | 242 | / | 297 | / | / | 207 | 262 | 242 | 297 | / | / | 207 | 262 | 242 | 297 | / | / | 124 | | |
| 0.18 | 4-125 | / | 262 | 242 | / | 297 | / | / | 207 | 262 | 242 | 297 | / | / | 207 | 262 | 242 | 297 | / | / | 124 | | |
| 0.25 | 4-125 | / | 269 | 264 | / | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 139 | | |
| 0.37 | 4-125 | / | 269 | 264 | / | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 139 | | |
| 0.55 | 4-125 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 0.75 | 4-112 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 1.1 | 4-71 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 176 | | |
| 1.5 | 4-50 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 348 | 393 | 403 | 448 | 448 | 503 | 176 | | |
| 2.2 | 4-35.5 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 3 | 4-28 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 4 | 4-20 | 391 | 441 | 466 | 526 | 516 | 516 | 571 | 459 | 509 | 534 | 584 | 584 | 639 | 459 | 509 | 534 | 584 | 584 | 639 | 220 | | |

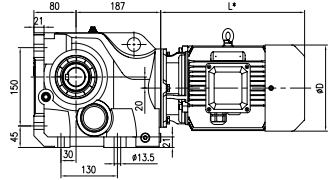
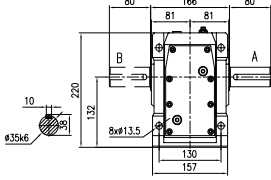
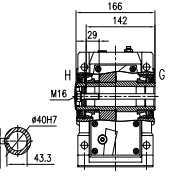
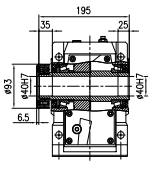
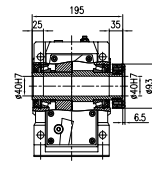
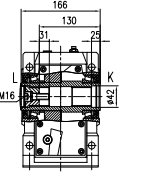
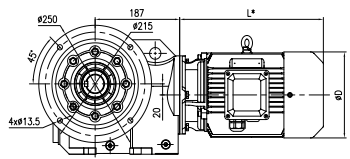
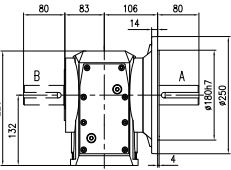
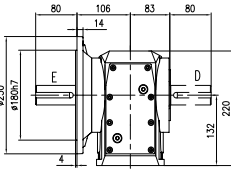
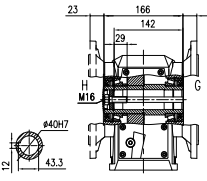
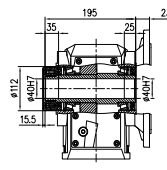
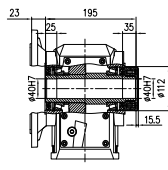
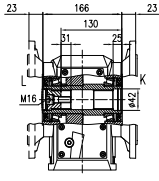
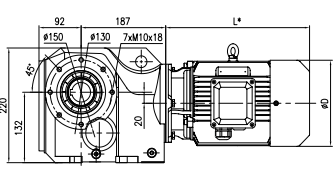
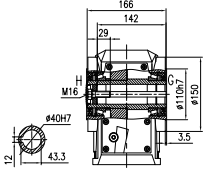
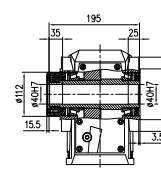
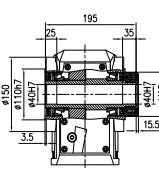
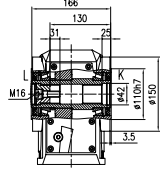
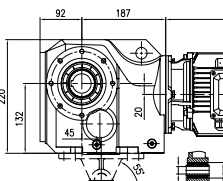
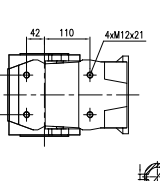
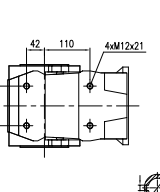
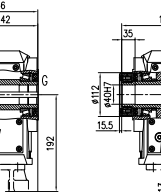
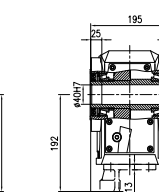
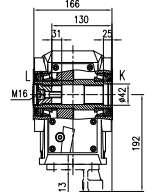
Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | | |
| 0.12 | 4-125 | / | 8 | 9 | / | 9 | / | / | 7 | 8 | 9 | 9 | / | / | 7 | 8 | 9 | 9 | / | / | | |
| 0.18 | 4-125 | / | 8 | 9 | / | 9 | / | / | 7 | 8 | 9 | 9 | / | / | 8 | 9 | 10 | 10 | / | / | | |
| 0.25 | 4-125 | / | 9 | 10 | / | 11 | 10 | 12 | 8 | 9 | 10 | 11 | 10 | 12 | 9 | 10 | 11 | 12 | 11 | 13 | | |
| 0.37 | 4-125 | / | 10 | 11 | / | 12 | 11 | 13 | 9 | 10 | 11 | 12 | 11 | 13 | 10 | 11 | 12 | 13 | 12 | 14 | | |
| 0.55 | 4-125 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | | |
| 0.75 | 4-112 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | | |
| 1.1 | 4-71 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | | |
| 1.5 | 4-50 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | | |
| 2.2 | 4-35.5 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | | |
| 3 | 4-28 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | | |
| 4 | 4-20 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | | |



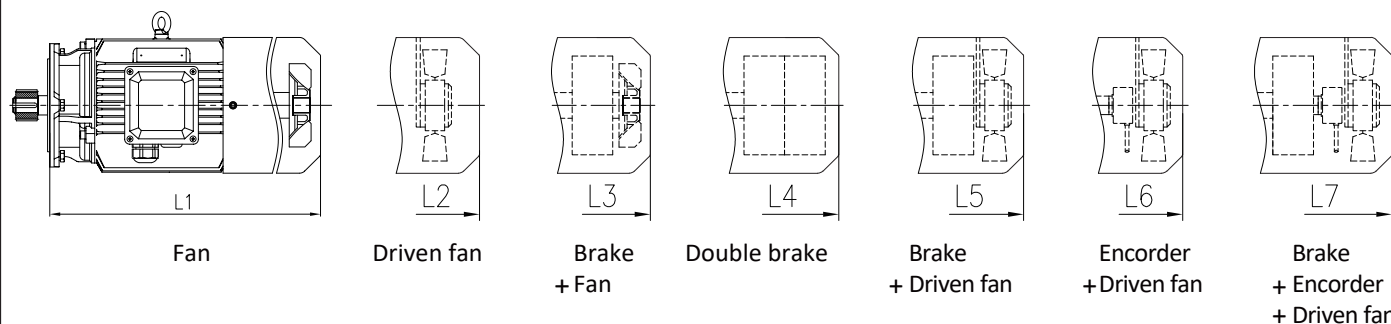
K

K305 Dimensions

| Mounting Mode | K305 Dimensions | | | | |
|-------------------------|--|--|--|--|--|
| Horizontal foot-mounted |  <p>Horizontal foot-mounted (H) Weight: 26kg (Without motor and oil)</p> |  <p>K305HA Unidirectional output shaft K305HB Unidirectional output shaft K305HC Bidirectional output shaft</p> | |  <p>K305HG Hollow shaft with parallel key K305HH Hollow shaft with parallel key</p>  <p>K305HI Hollow shaft with shrink disk</p>  <p>K305HJ Hollow shaft with shrink disk</p>  <p>K305HK Hollow shaft with involute spline K305HL Hollow shaft with involute spline</p> | |
| Flange-mounted |  <p>Flange-mounted (F) Weight: 32kg (Without motor and oil)</p> |  <p>K305FA Unidirectional output shaft K305FB Unidirectional output shaft K305FC Bidirectional output shaft</p> | |  <p>K305FD Unidirectional output shaft K305FE Unidirectional output shaft K305FF Bidirectional output shaft</p>  <p>K305FG Hollow shaft with parallel key K305FH Hollow shaft with parallel key</p>  <p>K305FI Hollow shaft with shrink disk</p>  <p>K305FJ Hollow shaft with shrink disk</p>  <p>K305FK Hollow shaft with involute spline K305FL Hollow shaft with involute spline</p> | |
| Short flange-mounted |  <p>Short flange-mounted (S) Weight: 28kg (Without motor and oil)</p> |  <p>K305SG Hollow shaft with parallel key K305SH Hollow shaft with parallel key</p>  <p>K305SI Hollow shaft with shrink disk</p> | |  <p>K305SJ Hollow shaft with shrink disk</p>  <p>K305SK Hollow shaft with involute spline K305SL Hollow shaft with involute spline</p> | |
| Torque arm-mounted |  <p>Torque arm-mounted with accessory (T) Weight: 31kg (Without motor and oil)</p>  <p>Torque arm-mounted without accessory (A) Weight: 28kg (Without motor and oil)</p>  <p>K305AG Hollow shaft with parallel key K305AH Hollow shaft with parallel key K305TG Hollow shaft with parallel key K305TH Hollow shaft with parallel key</p>  <p>K305AI Hollow shaft with shrink disk K305TI Hollow shaft with shrink disk</p>  <p>K305AJ Hollow shaft with shrink disk K305TJ Hollow shaft with shrink disk</p>  <p>K305AK Hollow shaft with involute spline K305AL Hollow shaft with involute spline K305TK Hollow shaft with involute spline K305TL Hollow shaft with involute spline</p> | | | | |

Note: Involute spline size DIN 5480 : m2×Z16×α30×D35×H

Corresponding motor dimension table for K305



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | | |
| 0.25 | 4-112 | / | 269 | 264 | / | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 139 | | |
| 0.37 | 4-112 | / | 269 | 264 | / | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 139 | | |
| 0.55 | 4-112 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 0.75 | 4-112 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 1.1 | 4-63 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 176 | | |
| 1.5 | 4-63 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 348 | 393 | 403 | 448 | 448 | 503 | 176 | | |
| 2.2 | 4-56 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 3 | 4-40 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 4 | 4-28 | 391 | 441 | 466 | 526 | 516 | 516 | 571 | 459 | 509 | 534 | 584 | 584 | 639 | 459 | 509 | 534 | 584 | 584 | 639 | 220 | | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | | |
| 0.25 | 4-112 | / | 9 | 10 | / | 11 | 10 | 12 | 8 | 9 | 10 | 11 | 10 | 12 | 9 | 10 | 11 | 12 | 11 | 13 | | |
| 0.37 | 4-112 | / | 10 | 11 | / | 12 | 11 | 13 | 9 | 10 | 11 | 12 | 11 | 13 | 10 | 11 | 12 | 13 | 12 | 14 | | |
| 0.55 | 4-112 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | | |
| 0.75 | 4-112 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | | |
| 1.1 | 4-63 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | | |
| 1.5 | 4-63 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | | |
| 2.2 | 4-56 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | | |
| 3 | 4-40 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | | |
| 4 | 4-28 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | | |



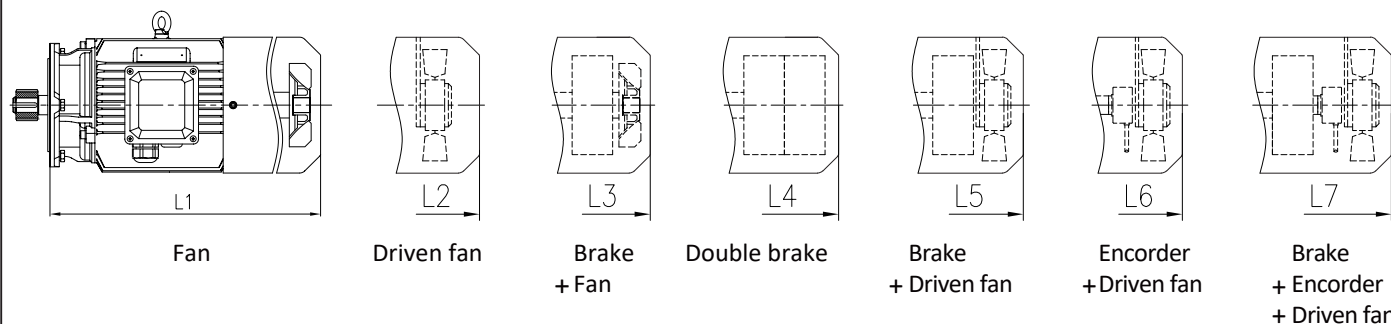
K

K306 Dimensions

| Mounting Mode | K306 Dimensions | | | | | |
|-----------------------------------|--|--|--|--|--|---|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 32kg (Without motor and oil)</p> | | | | | <p>K306HA Unidirectional output shaft K306HB Unidirectional output shaft K306HC Bidirectional output shaft</p> |
| | <p>K306HG Hollow shaft with parallel key K306HH Hollow shaft with parallel key</p> | <p>K306HI Hollow shaft with shrink disk</p> | <p>K306HJ Hollow shaft with shrink disk</p> | <p>K306HK Hollow shaft with involute spline K306HL Hollow shaft with involute spline</p> | | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 39kg (Without motor and oil)</p> | | | | | <p>K306FA Unidirectional output shaft K306FB Unidirectional output shaft K306FC Bidirectional output shaft</p> |
| | <p>K306FG Hollow shaft with parallel key K306FH Hollow shaft with parallel key</p> | <p>K306FI Hollow shaft with shrink disk</p> | <p>K306FJ Hollow shaft with shrink disk</p> | <p>K306FK Hollow shaft with involute spline K306FL Hollow shaft with involute spline</p> | | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 34kg (Without motor and oil)</p> | <p>K306SG Hollow shaft with parallel key K306SH Hollow shaft with parallel key</p> | <p>K306SI Hollow shaft with shrink disk</p> | <p>K306SJ Hollow shaft with shrink disk</p> | <p>K306SK Hollow shaft with involute spline K306SL Hollow shaft with involute spline</p> | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 37kg (Without motor and oil)</p> | <p>Torque arm-mounted without accessory (A) Weight: 34kg (Without motor and oil)</p> | | | | |
| Torque arm-mounted with accessory | | | <p>K306AG Hollow shaft with parallel key K306AH Hollow shaft with parallel key K306TG Hollow shaft with parallel key K306TH Hollow shaft with parallel key</p> | <p>K306AJ Hollow shaft with shrink disk K306TI Hollow shaft with shrink disk</p> | <p>K306AJ Hollow shaft with shrink disk K306TJ Hollow shaft with shrink disk</p> | <p>K306AK Hollow shaft with involute spline K306TK Hollow shaft with involute spline K306TL Hollow shaft with involute spline</p> |

Note: Involute spline size DIN 5480 : m2xZ16xα30xD35x9H

Corresponding motor dimension table for K306



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | | |
| 0.37 | 90-125 | / | 269 | 264 | / | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 224 | 269 | 264 | 314 | 314 | 354 | 139 | | |
| 0.55 | 63-125 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 0.75 | 45-125 | 300 | 345 | 360 | 420 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 300 | 345 | 360 | 405 | 405 | 455 | 162 | | |
| 1.1 | 31.5-90 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 176 | | |
| 1.5 | 22.4-90 | 323 | 368 | 378 | 438 | 423 | 423 | 478 | 323 | 368 | 378 | 423 | 423 | 478 | 348 | 393 | 403 | 448 | 448 | 503 | 176 | | |
| 2.2 | 14-80 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 3 | 9-56 | 395 | 435 | 470 | 530 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 395 | 435 | 470 | 510 | 510 | 565 | 202 | | |
| 4 | 7.1-40 | 391 | 441 | 466 | 526 | 516 | 516 | 571 | 459 | 509 | 534 | 584 | 584 | 639 | 459 | 509 | 534 | 584 | 584 | 639 | 220 | | |
| 5.5 | 4-31.5 | 432 | 482 | 512 | 577 | 557 | 557 | 612 | 432 | 482 | 512 | 557 | 557 | 612 | 470 | 520 | 550 | 595 | 595 | 650 | 259 | | |
| 7.5 | 4-22.4 | 470 | 520 | 550 | 615 | 595 | 595 | 650 | 470 | 520 | 550 | 595 | 595 | 650 | 508 | 558 | 588 | 633 | 633 | 688 | 259 | | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----|-----|--|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | | |
| 0.37 | 90-125 | / | 10 | 11 | / | 12 | 11 | 13 | 9 | 10 | 11 | 12 | 11 | 13 | 10 | 11 | 12 | 13 | 12 | 14 | | |
| 0.55 | 63-125 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | | |
| 0.75 | 45-125 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | | |
| 1.1 | 31.5-90 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | | |
| 1.5 | 22.4-90 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | | |
| 2.2 | 14-80 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | | |
| 3 | 9-56 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | | |
| 4 | 7.1-40 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | | |
| 5.5 | 4-31.5 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | | |
| 7.5 | 4-22.4 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | | |



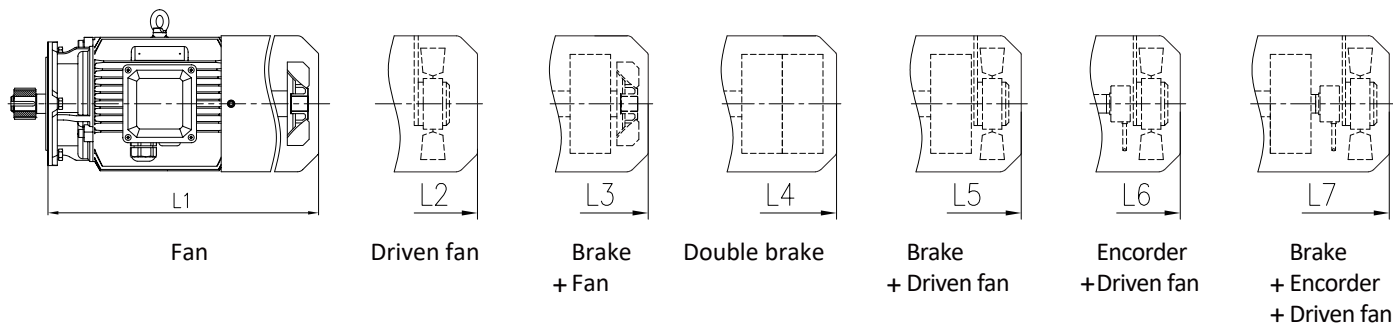
K

K307 Dimensions

| Mounting Mode | K307 Dimensions | | | | | |
|-------------------------|--|--|--|--|--|--|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 59kg (Without motor and oil)</p> | | | | | <p>K307HA Unidirectional output shaft K307HB Unidirectional output shaft K307HC Bidirectional output shaft</p> |
| | <p>K307HG Hollow shaft with parallel key K307HH Hollow shaft with parallel key</p> | <p>K307HI Hollow shaft with shrink disk</p> | <p>K307HJ Hollow shaft with shrink disk</p> | <p>K307HK Hollow shaft with involute spline K307HL Hollow shaft with involute spline</p> | | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 67kg (Without motor and oil)</p> | <p>K307FA Unidirectional output shaft K307FB Unidirectional output shaft K307FC Bidirectional output shaft</p> | <p>K307FD Unidirectional output shaft K307FE Unidirectional output shaft K307FF Bidirectional output shaft</p> | | | |
| | <p>K307FG Hollow shaft with parallel key K307FH Hollow shaft with parallel key</p> | <p>K307FI Hollow shaft with shrink disk</p> | <p>K307FJ Hollow shaft with shrink disk</p> | <p>K307FK Hollow shaft with involute spline K307FL Hollow shaft with involute spline</p> | | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 60kg (Without motor and oil)</p> | <p>K307SG Hollow shaft with parallel key K307SH Hollow shaft with parallel key</p> | <p>K307SI Hollow shaft with shrink disk</p> | <p>K307SJ Hollow shaft with shrink disk</p> | <p>K307SK Hollow shaft with involute spline K307SL Hollow shaft with involute spline</p> | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 64kg (Without motor and oil)</p> | <p>Torque arm-mounted without accessory (A) Weight: 60kg (Without motor and oil)</p> | <p>K307AG Hollow shaft with parallel key K307AH Hollow shaft with parallel key K307TG Hollow shaft with parallel key K307TH Hollow shaft with parallel key</p> | <p>K307AI Hollow shaft with shrink disk K307TI Hollow shaft with shrink disk</p> | <p>K307AJ Hollow shaft with involute spline K307AL Hollow shaft with involute spline K307TK Hollow shaft with involute spline K307TL Hollow shaft with involute spline</p> | |

Note: Involute spline size DIN 5480 : m2xZ24xα30xD50xH9

Corresponding motor dimension table for K307



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 0.37 | 160-180 | / | 261 | 256 | / | 306 | 306 | 346 | 216 | 261 | 256 | / | 306 | 306 | 346 | 216 | 261 | 256 | 306 | 306 | 346 | 139 | |
| 0.55 | 112-180 | 292 | 337 | 352 | 412 | 397 | 397 | 447 | 292 | 337 | 352 | / | 397 | 397 | 447 | 292 | 337 | 352 | 397 | 397 | 447 | 162 | |
| 0.75 | 90-180 | 292 | 337 | 352 | 412 | 397 | 397 | 447 | 292 | 337 | 352 | / | 397 | 397 | 447 | 292 | 337 | 352 | 397 | 397 | 447 | 162 | |
| 1.1 | 56-112 | 315 | 360 | 370 | 430 | 415 | 415 | 470 | 315 | 360 | 370 | / | 415 | 415 | 470 | 315 | 360 | 370 | 415 | 415 | 470 | 176 | |
| 1.5 | 40-112 | 315 | 360 | 370 | 430 | 415 | 415 | 470 | 315 | 360 | 370 | / | 415 | 415 | 470 | 340 | 385 | 395 | 440 | 440 | 495 | 176 | |
| 2.2 | 28-112 | 387 | 427 | 462 | 522 | 502 | 502 | 557 | 387 | 427 | 462 | / | 502 | 502 | 557 | 387 | 427 | 462 | 502 | 502 | 557 | 202 | |
| 3 | 20-112 | 387 | 427 | 462 | 522 | 502 | 502 | 557 | 387 | 427 | 462 | / | 502 | 502 | 557 | 387 | 427 | 462 | 502 | 502 | 557 | 202 | |
| 4 | 16-80 | 383 | 433 | 458 | 518 | 508 | 508 | 563 | 451 | 501 | 526 | / | 576 | 576 | 631 | 451 | 501 | 526 | 576 | 576 | 631 | 220 | |
| 5.5 | 9-50 | 421 | 471 | 501 | 566 | 546 | 546 | 601 | 421 | 471 | 501 | / | 546 | 546 | 601 | 459 | 509 | 539 | 584 | 584 | 639 | 259 | |
| 7.5 | 7.1-40 | 459 | 509 | 539 | 604 | 584 | 584 | 639 | 459 | 509 | 539 | / | 584 | 584 | 639 | 497 | 547 | 577 | 622 | 622 | 677 | 259 | |
| 11 | 7.1-28 | / | 542 | 602 | / | 632 | 632 | 682 | 507 | 542 | 602 | 652 | 632 | 632 | 682 | 551 | 586 | 646 | 676 | 676 | 726 | 314 | |
| 15 | 7.1-20 | / | 586 | 646 | / | 676 | 676 | 726 | 551 | 586 | 646 | 696 | 676 | 676 | 726 | 581 | 616 | 676 | 706 | 706 | 756 | 314 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 0.37 | 160-180 | / | 10 | 11 | / | 12 | 11 | 13 | 9 | 10 | 11 | / | 12 | 11 | 13 | 10 | 11 | 12 | 13 | 12 | 14 | |
| 0.55 | 112-180 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | / | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | |
| 0.75 | 90-180 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | / | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | |
| 1.1 | 56-112 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | / | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | |
| 1.5 | 40-112 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | / | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | |
| 2.2 | 28-112 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | / | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | |
| 3 | 20-112 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | / | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | |
| 4 | 16-80 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | / | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | |
| 5.5 | 9-50 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | / | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | |
| 7.5 | 7.1-40 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | |
| 11 | 7.1-28 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 7.1-20 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |



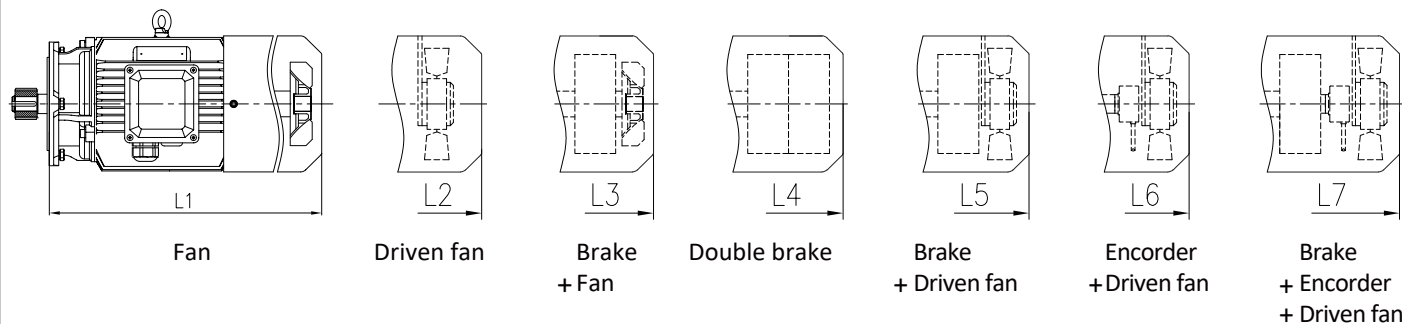
K

K308 Dimensions

| Mounting Mode | K308 Dimensions | | | | | | | |
|-------------------------|--|--|---|--|--|--|--|--|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 89kg (Without motor and oil)</p> | | | | <p>K308HA Unidirectional output shaft K308HB Unidirectional output shaft K308HC Bidirectional output shaft</p> | | | |
| | <p>K308HG Hollow shaft with parallel key K308HH Hollow shaft with parallel key</p> | | <p>K308HI Hollow shaft with shrink disk</p> | | <p>K308HJ Hollow shaft with shrink disk</p> | | <p>K308HK Hollow shaft with involute spline K308HL Hollow shaft with involute spline</p> | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 108kg (Without motor and oil)</p> | | | | <p>K308FA Unidirectional output shaft K308FB Unidirectional output shaft K308FC Bidirectional output shaft</p> <p>K308FD Unidirectional output shaft K308FE Unidirectional output shaft K308FF Bidirectional output shaft</p> | | | |
| | <p>K308FG Hollow shaft with parallel key K308FH Hollow shaft with parallel key</p> | | <p>K308FI Hollow shaft with shrink disk</p> | | <p>K308FJ Hollow shaft with shrink disk</p> | | <p>K308FK Hollow shaft with involute spline K308FL Hollow shaft with involute spline</p> | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 97kg (Without motor and oil)</p> | | | | <p>K308SG Hollow shaft with parallel key K308SH Hollow shaft with parallel key</p> <p>K308SI Hollow shaft with shrink disk</p> <p>K308SJ Hollow shaft with shrink disk</p> <p>K308SK Hollow shaft with involute spline K308SL Hollow shaft with involute spline</p> | | | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 105kg (Without motor and oil)</p> | | | | <p>Torque arm-mounted without accessory (A) Weight: 97kg (Without motor and oil)</p> <p>K308AG Hollow shaft with parallel key K308AH Hollow shaft with parallel key K308TG Hollow shaft with parallel key K308TH Hollow shaft with parallel key</p> <p>K308AI Hollow shaft with shrink disk K308TI Hollow shaft with shrink disk</p> <p>K308AJ Hollow shaft with shrink disk K308TJ Hollow shaft with shrink disk</p> <p>K308AK Hollow shaft with involute spline K308AL Hollow shaft with involute spline K308TK Hollow shaft with involute spline K308TL Hollow shaft with involute spline</p> | | | |

Note: Involute spline size DIN 5480 : m2xZ31xα30xD65x9H

Corresponding motor dimension table for K308



K

Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 0.55 | 160-180 | 283 | 328 | 343 | 403 | 388 | 388 | 438 | 283 | 328 | 343 | / | 388 | 388 | 438 | 283 | 328 | 343 | 388 | 388 | 438 | 162 | |
| 0.75 | 140-180 | 283 | 328 | 343 | 403 | 388 | 388 | 438 | 283 | 328 | 343 | / | 388 | 388 | 438 | 283 | 328 | 343 | 388 | 388 | 438 | 162 | |
| 1.1 | 100-160 | 306 | 351 | 361 | 421 | 406 | 406 | 461 | 306 | 351 | 361 | / | 406 | 406 | 461 | 306 | 351 | 361 | 406 | 406 | 461 | 176 | |
| 1.5 | 71-160 | 306 | 351 | 361 | 421 | 406 | 406 | 461 | 306 | 351 | 361 | / | 406 | 406 | 461 | 331 | 376 | 386 | 431 | 431 | 486 | 176 | |
| 2.2 | 50-160 | 378 | 418 | 453 | 513 | 493 | 493 | 548 | 378 | 418 | 453 | / | 493 | 493 | 548 | 378 | 418 | 453 | 493 | 493 | 548 | 202 | |
| 3 | 35.5-160 | 378 | 418 | 453 | 513 | 493 | 493 | 548 | 378 | 418 | 453 | / | 493 | 493 | 548 | 378 | 418 | 453 | 493 | 493 | 548 | 202 | |
| 4 | 25-140 | 374 | 424 | 449 | 509 | 499 | 499 | 554 | 442 | 492 | 517 | / | 567 | 567 | 622 | 442 | 492 | 517 | 567 | 567 | 622 | 220 | |
| 5.5 | 16-80 | 413 | 463 | 493 | 558 | 538 | 538 | 593 | 413 | 463 | 493 | / | 538 | 538 | 593 | 451 | 501 | 531 | 576 | 576 | 631 | 259 | |
| 7.5 | 8-71 | 451 | 501 | 531 | 596 | 576 | 576 | 631 | 451 | 501 | 531 | / | 576 | 576 | 631 | 489 | 539 | 569 | 614 | 614 | 669 | 259 | |
| 11 | 7.1-50 | / | 541 | 601 | / | 631 | 631 | 681 | 506 | 541 | 601 | 651 | 631 | 631 | 681 | 550 | 585 | 645 | 675 | 675 | 725 | 314 | |
| 15 | 7.1-35.5 | / | 585 | 645 | / | 675 | 675 | 725 | 550 | 585 | 645 | 695 | 675 | 675 | 725 | 580 | 615 | 675 | 705 | 705 | 755 | 314 | |
| 18.5 | 7.1-28 | / | 651 | 731 | / | 756 | 756 | 796 | 621 | 651 | 731 | 786 | 731 | 756 | 801 | 621 | 651 | 731 | 756 | 756 | 801 | 356 | |
| 22 | 7.1-25 | / | 699 | 779 | / | 804 | 804 | 849 | 669 | 699 | 779 | 834 | 779 | 804 | 849 | 669 | 699 | 779 | 804 | 804 | 849 | 356 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 0.55 | 160-180 | 13 | 14 | 17 | 21 | 18 | 15 | 19 | 14 | 15 | 18 | / | 19 | 16 | 20 | 15 | 16 | 19 | 20 | 17 | 21 | |
| 0.75 | 140-180 | 14 | 15 | 18 | 22 | 19 | 16 | 20 | 15 | 16 | 19 | / | 20 | 17 | 21 | 16 | 17 | 20 | 21 | 18 | 22 | |
| 1.1 | 100-160 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | / | 23 | 20 | 24 | 21 | 22 | 25 | 26 | 23 | 27 | |
| 1.5 | 71-160 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | / | 24 | 21 | 25 | 23 | 24 | 27 | 28 | 25 | 29 | |
| 2.2 | 50-160 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | / | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | |
| 3 | 35.5-160 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | / | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | |
| 4 | 25-140 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | / | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | |
| 5.5 | 16-80 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | / | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | |
| 7.5 | 8-71 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | |
| 11 | 7.1-50 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 7.1-35.5 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 7.1-28 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 7.1-25 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |



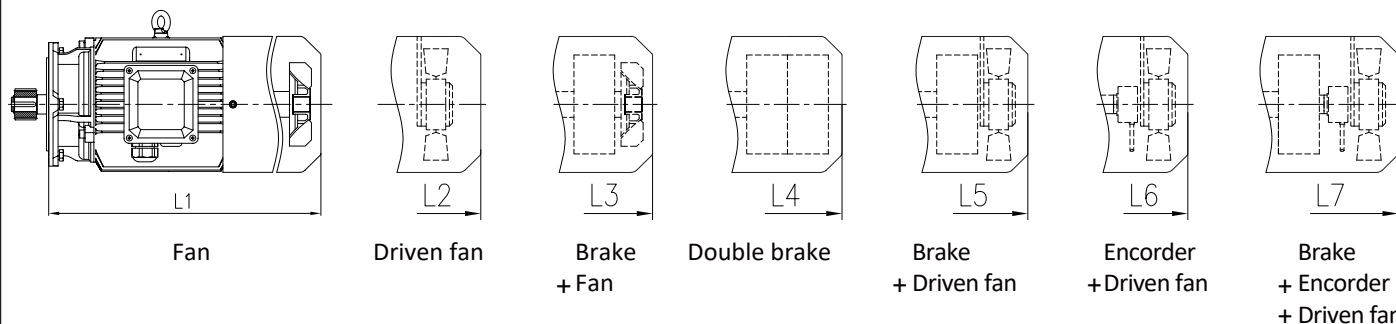
K

K309 Dimensions

| Mounting Mode | K309 Dimensions | | | | | | | | | | | |
|-----------------------------------|--|--|---|--|--|--|--|--|--|--|--|--|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 155kg (Without motor and oil)</p> | | | | <p>K309HA Unidirectional output shaft K309HB Unidirectional output shaft K309HC Bidirectional output shaft</p> | | | | | | | |
| | <p>K309HG Hollow shaft with parallel key K309HH Hollow shaft with parallel key</p> | | <p>K309HI Hollow shaft with shrink disk</p> | | <p>K309HJ Hollow shaft with shrink disk</p> | | <p>K309HK Hollow shaft with involute spline K309HL Hollow shaft with involute spline</p> | | | | | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 174kg (Without motor and oil)</p> | | | | <p>K309FA Unidirectional output shaft K309FB Unidirectional output shaft K309FC Bidirectional output shaft</p> | | | | | | | |
| | <p>K309FG Hollow shaft with parallel key K309FH Hollow shaft with parallel key</p> | | <p>K309FI Hollow shaft with shrink disk</p> | | <p>K309FJ Hollow shaft with shrink disk</p> | | <p>K309FK Hollow shaft with involute spline K309FL Hollow shaft with involute spline</p> | | | | | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 154kg (Without motor and oil)</p> | | | | <p>K309SG Hollow shaft with parallel key K309SH Hollow shaft with parallel key</p> | | | | | | | |
| | <p>K309SI Hollow shaft with shrink disk</p> | | <p>K309SJ Hollow shaft with shrink disk</p> | | <p>K309SK Hollow shaft with involute spline K309SL Hollow shaft with involute spline</p> | | | | | | | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 167kg (Without motor and oil)</p> | | | | <p>Torque arm-mounted without accessory (A) Weight: 154kg (Without motor and oil)</p> | | | | | | | |
| Torque arm-mounted with accessory | <p>Torque arm-mounted with accessory (T) Weight: 167kg (Without motor and oil)</p> | | <p>Torque arm-mounted without accessory (A) Weight: 154kg (Without motor and oil)</p> | | <p>K309AG Hollow shaft with parallel key K309AH Hollow shaft with parallel key K309TG Hollow shaft with parallel key K309TH Hollow shaft with parallel key</p> | | <p>K309AI Hollow shaft with shrink disk K309TI Hollow shaft with shrink disk</p> | | <p>K309AJ Hollow shaft with shrink disk K309TJ Hollow shaft with shrink disk</p> | | <p>K309AK Hollow shaft with involute spline K309AL Hollow shaft with involute spline K309TK Hollow shaft with involute spline K309TL Hollow shaft with involute spline</p> | |

Note: Involute spline size DIN 5480 : m2xZ34xα30xD70xH

Corresponding motor dimension table for K309



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 1.1 | 140-180 | 303 | 348 | 358 | 418 | 403 | 403 | 458 | 303 | 348 | 358 | / | 403 | 403 | 458 | 303 | 348 | 358 | 403 | 403 | 458 | 176 | |
| 1.5 | 112-180 | 303 | 348 | 358 | 418 | 403 | 403 | 458 | 303 | 348 | 358 | / | 403 | 403 | 458 | 328 | 373 | 383 | 428 | 428 | 483 | 176 | |
| 2.2 | 90-180 | 374 | 414 | 449 | 509 | 489 | 489 | 544 | 374 | 414 | 449 | / | 489 | 489 | 544 | 374 | 414 | 449 | 489 | 489 | 544 | 202 | |
| 3 | 63-180 | 374 | 414 | 449 | 509 | 489 | 489 | 544 | 374 | 414 | 449 | / | 489 | 489 | 544 | 374 | 414 | 449 | 489 | 489 | 544 | 202 | |
| 4 | 45-180 | 370 | 420 | 445 | 505 | 495 | 495 | 550 | 438 | 488 | 513 | / | 563 | 563 | 618 | 438 | 488 | 513 | 563 | 563 | 618 | 220 | |
| 5.5 | 35.5-112 | 412 | 462 | 492 | 557 | 537 | 537 | 592 | 412 | 462 | 492 | / | 537 | 537 | 592 | 450 | 500 | 530 | 575 | 575 | 630 | 259 | |
| 7.5 | 25-112 | 450 | 500 | 530 | 595 | 575 | 575 | 630 | 450 | 500 | 530 | / | 575 | 575 | 630 | 488 | 538 | 568 | 613 | 613 | 668 | 259 | |
| 11 | 16-90 | / | 535 | 595 | / | 625 | 625 | 675 | 500 | 535 | 595 | 645 | 625 | 625 | 675 | 544 | 579 | 639 | 669 | 669 | 719 | 314 | |
| 15 | 9-63 | / | 579 | 639 | / | 669 | 669 | 719 | 544 | 579 | 639 | 689 | 669 | 669 | 719 | 574 | 609 | 669 | 699 | 699 | 749 | 314 | |
| 18.5 | 7.1-50 | / | 645 | 725 | / | 750 | 750 | 795 | 615 | 645 | 725 | 780 | 725 | 750 | 795 | 615 | 645 | 725 | 750 | 750 | 795 | 356 | |
| 22 | 7.1-40 | / | 693 | 773 | / | 798 | 798 | 843 | 663 | 693 | 773 | 828 | 773 | 798 | 843 | 663 | 693 | 773 | 798 | 798 | 843 | 356 | |
| 30 | 7.1-28 | / | 710 | 820 | / | 825 | 825 | 870 | 705 | 710 | 820 | 845 | 825 | 825 | 870 | 705 | 710 | 820 | 825 | 825 | 870 | 398 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 1.1 | 140-180 | 16 | 17 | 20 | 24 | 21 | 18 | 22 | 18 | 19 | 22 | / | 23 | 20 | 24 | 20 | 21 | 24 | 25 | 22 | 26 | |
| 1.5 | 112-180 | 17 | 18 | 21 | 25 | 22 | 19 | 23 | 19 | 20 | 23 | / | 24 | 21 | 25 | 22 | 23 | 26 | 27 | 24 | 28 | |
| 2.2 | 90-180 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | / | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | |
| 3 | 63-180 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | / | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | |
| 4 | 45-180 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | / | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | |
| 5.5 | 35.5-112 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | / | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | |
| 7.5 | 25-112 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | |
| 11 | 16-90 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 9-63 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 7.1-50 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 7.1-40 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |
| 30 | 7.1-28 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | |



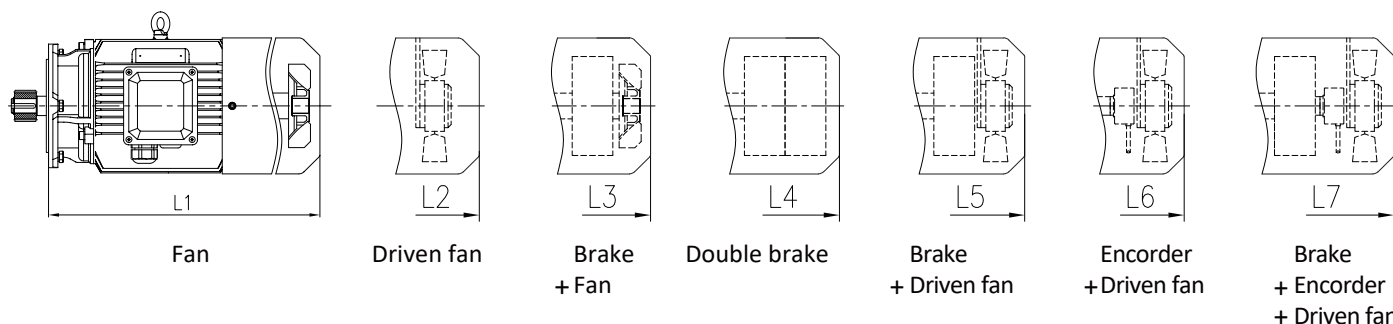
K

K310 Dimensions

| Mounting Mode | K310 Dimensions | | | | | |
|-------------------------|--|---|--|--|--|--|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 271kg (Without motor and oil)</p> | | <p>K310HA Unidirectional output shaft K310HB Unidirectional output shaft K310HC Bidirectional output shaft</p> | | | |
| | <p>K310HG Hollow shaft with parallel key K310HH Hollow shaft with parallel key</p> | <p>K310HI Hollow shaft with shrink disk</p> | <p>K310HJ Hollow shaft with shrink disk</p> | <p>K310HK Hollow shaft with involute spline K310HL Hollow shaft with involute spline</p> | | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 280kg (Without motor and oil)</p> | | <p>K310FA Unidirectional output shaft K310FB Unidirectional output shaft K310FC Bidirectional output shaft</p> | | <p>K310FD Unidirectional output shaft K310FE Unidirectional output shaft K310FF Bidirectional output shaft</p> | |
| | <p>K310FG Hollow shaft with parallel key K310FH Hollow shaft with parallel key</p> | <p>K310FI Hollow shaft with shrink disk</p> | <p>K310FJ Hollow shaft with shrink disk</p> | <p>K310FK Hollow shaft with involute spline K310FL Hollow shaft with involute spline</p> | | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 261kg (Without motor and oil)</p> | | <p>K310SG Hollow shaft with parallel key K310SH Hollow shaft with parallel key</p> | <p>K310SI Hollow shaft with shrink disk</p> | <p>K310SJ Hollow shaft with shrink disk</p> | <p>K310SK Hollow shaft with involute spline K310SL Hollow shaft with involute spline</p> |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 283kg (Without motor and oil)</p> <p>Torque arm-mounted without accessory (A) Weight: 261kg (Without motor and oil)</p> | | <p>K310AG Hollow shaft with parallel key K310AH Hollow shaft with parallel key K310TG Hollow shaft with parallel key K310TH Hollow shaft with parallel key</p> | <p>K310AI Hollow shaft with shrink disk K310TI Hollow shaft with shrink disk</p> | <p>K310AJ Hollow shaft with shrink disk K310TJ Hollow shaft with shrink disk</p> | <p>K310AK Hollow shaft with involute spline K310AL Hollow shaft with involute spline K310TK Hollow shaft with involute spline K310TL Hollow shaft with involute spline</p> |

Note: Involute spline size DIN 5480 : m3xZ27xα30xD85x9H

Corresponding motor dimension table for K310



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 2.2 | 140-180 | 370 | 410 | 445 | 505 | 485 | 485 | 540 | 370 | 410 | 445 | / | 485 | 485 | 540 | 370 | 410 | 445 | 485 | 485 | 540 | 202 | |
| 3 | 112-180 | 370 | 410 | 445 | 505 | 485 | 485 | 540 | 370 | 410 | 445 | / | 485 | 485 | 540 | 370 | 410 | 445 | 485 | 485 | 540 | 202 | |
| 4 | 80-180 | 366 | 416 | 441 | 501 | 491 | 491 | 546 | 434 | 484 | 509 | / | 559 | 559 | 614 | 434 | 484 | 509 | 559 | 559 | 614 | 220 | |
| 5.5 | 56-125 | 401 | 451 | 481 | 546 | 526 | 526 | 581 | 401 | 451 | 481 | / | 526 | 526 | 581 | 439 | 489 | 519 | 564 | 564 | 619 | 259 | |
| 7.5 | 40-125 | 439 | 489 | 519 | 584 | 564 | 564 | 619 | 439 | 489 | 519 | / | 564 | 564 | 619 | 477 | 527 | 557 | 602 | 602 | 657 | 259 | |
| 11 | 28-125 | / | 524 | 584 | / | 614 | 614 | 664 | 489 | 524 | 584 | 634 | 614 | 614 | 664 | 533 | 568 | 628 | 658 | 658 | 708 | 314 | |
| 15 | 20-112 | / | 568 | 628 | / | 658 | 658 | 708 | 533 | 568 | 628 | 678 | 658 | 658 | 708 | 563 | 598 | 658 | 688 | 688 | 738 | 314 | |
| 18.5 | 16-90 | / | 634 | 714 | / | 739 | 739 | 784 | 604 | 634 | 714 | 769 | 714 | 739 | 784 | 604 | 634 | 714 | 739 | 739 | 784 | 356 | |
| 22 | 12.5-80 | / | 682 | 762 | / | 787 | 787 | 832 | 652 | 682 | 762 | 817 | 762 | 787 | 832 | 652 | 682 | 762 | 787 | 787 | 832 | 356 | |
| 30 | 8-50 | / | 710 | 820 | / | 825 | 825 | 870 | 705 | 710 | 820 | 845 | 825 | 825 | 870 | 705 | 710 | 820 | 825 | 825 | 870 | 398 | |
| 37 | 8-40 | / | 776 | 861 | / | 891 | 891 | 936 | 746 | 776 | 861 | / | 891 | 891 | 936 | 746 | 776 | 861 | 891 | 891 | 936 | 446 | |
| 45 | 8-35.5 | / | 776 | 861 | / | 891 | 891 | 936 | 746 | 776 | 861 | / | 891 | 891 | 936 | 746 | 776 | 861 | 891 | 891 | 936 | 446 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | | |
| 2.2 | 140-180 | 27 | 28 | 35 | 42 | 36 | 29 | 37 | 30 | 31 | 38 | / | 39 | 32 | 40 | 32 | 33 | 40 | 41 | 34 | 42 | | |
| 3 | 112-180 | 30 | 31 | 38 | 45 | 39 | 32 | 40 | 33 | 34 | 41 | / | 42 | 35 | 43 | 36 | 37 | 44 | 45 | 38 | 46 | | |
| 4 | 80-180 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | / | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | | |
| 5.5 | 56-125 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | / | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | | |
| 7.5 | 40-125 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | | |
| 11 | 28-125 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | | |
| 15 | 20-112 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | | |
| 18.5 | 16-90 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | | |
| 22 | 12.5-80 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | | |
| 30 | 8-50 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | | |
| 37 | 8-40 | / | 332 | 380 | / | 381 | 334 | 383 | 330 | 332 | 380 | / | 381 | 334 | 383 | 345 | 347 | 395 | 396 | 349 | 398 | | |
| 45 | 8-35.5 | / | 347 | 395 | / | 396 | 349 | 398 | 345 | 347 | 395 | / | 396 | 349 | 398 | 365 | 367 | 415 | 416 | 369 | 418 | | |



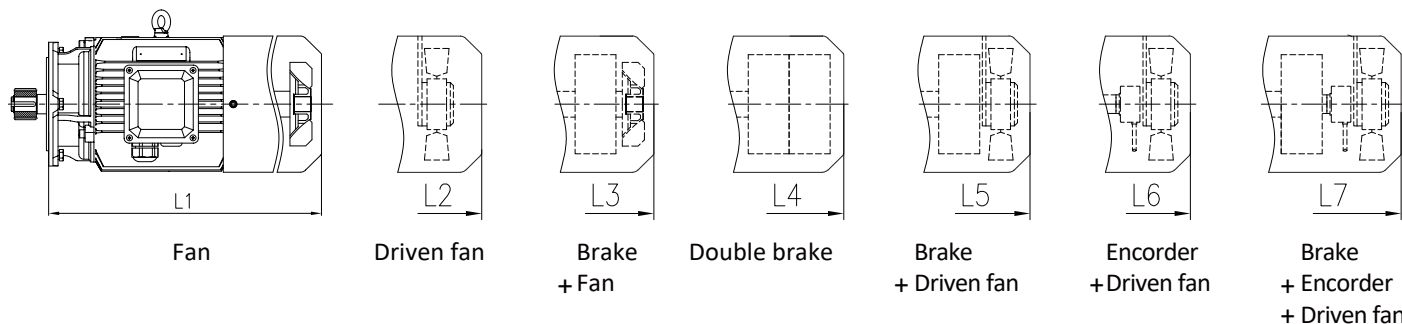
K

K312 Dimensions

| Mounting Mode | K312 Dimensions | | | | |
|-------------------------|--|--|--|--|--|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 462kg (Without motor and oil)</p> | <p>K312HA Unidirectional output shaft K312HB Unidirectional output shaft K312HC Bidirectional output shaft</p> | | <p>K312HI Hollow shaft with parallel key K312HH Hollow shaft with parallel key K312HI Hollow shaft with shrink disk K312HJ Hollow shaft with shrink disk K312HK Hollow shaft with involute spline K312HL Hollow shaft with involute spline</p> | |
| Flange-mounted | <p>Flange-mounted (F) Weight: 496kg (Without motor and oil)</p> | <p>K312FA Unidirectional output shaft K312FB Unidirectional output shaft K312FC Bidirectional output shaft</p> | | <p>K312FD Unidirectional output shaft K312FE Unidirectional output shaft K312FF Bidirectional output shaft</p> | |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 462kg (Without motor and oil)</p> | <p>K312SG Hollow shaft with parallel key K312SH Hollow shaft with parallel key K312SI Hollow shaft with shrink disk</p> | | <p>K312SJ Hollow shaft with shrink disk K312SK Hollow shaft with involute spline K312SL Hollow shaft with involute spline</p> | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 527kg (Without motor and oil)</p> <p>Torque arm-mounted without accessory (A) Weight: 462kg (without motor and oil)</p> | <p>K312AG Hollow shaft with parallel key K312AH Hollow shaft with parallel key K312AG Hollow shaft with parallel key K312TH Hollow shaft with parallel key</p> | | <p>K312AI Hollow shaft with shrink disk K312TI Hollow shaft with shrink disk K312AJ Hollow shaft with involute spline K312AL Hollow shaft with involute spline K312TK Hollow shaft with involute spline K312TL Hollow shaft with involute spline</p> | |

Note: Involute spline size DIN 5480 : m3×Z30×α30×D95×9H

Corresponding motor dimension table for K312



K

Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|------|-----|------|------|------|-----|-----|------|-----|------|------|------|-----|-----|------|------|------|------|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 4 | 140-180 | 355 | 405 | 430 | 490 | 480 | 480 | 535 | 423 | 473 | 498 | / | 548 | 548 | 603 | 423 | 473 | 498 | 548 | 548 | 603 | 220 | |
| 5.5 | 100-140 | 391 | 441 | 471 | 536 | 516 | 516 | 571 | 391 | 441 | 471 | / | 516 | 516 | 571 | 429 | 479 | 509 | 554 | 554 | 609 | 259 | |
| 7.5 | 71-140 | 429 | 479 | 509 | 574 | 554 | 554 | 609 | 429 | 479 | 509 | / | 554 | 554 | 609 | 467 | 517 | 547 | 592 | 592 | 647 | 259 | |
| 11 | 45-140 | / | 508 | 568 | / | 598 | 598 | 648 | 473 | 508 | 568 | 618 | 598 | 598 | 648 | 517 | 552 | 612 | 642 | 642 | 692 | 314 | |
| 15 | 35.5-140 | / | 552 | 612 | / | 642 | 642 | 692 | 517 | 552 | 612 | 662 | 642 | 642 | 692 | 547 | 582 | 642 | 672 | 672 | 722 | 314 | |
| 18.5 | 28-140 | / | 618 | 698 | / | 723 | 723 | 768 | 588 | 618 | 698 | 753 | 698 | 723 | 768 | 588 | 618 | 698 | 723 | 723 | 768 | 356 | |
| 22 | 25-112 | / | 666 | 746 | / | 771 | 771 | 816 | 636 | 666 | 746 | 801 | 746 | 771 | 816 | 636 | 666 | 746 | 771 | 771 | 816 | 356 | |
| 30 | 16-90 | / | 689 | 799 | / | 804 | 804 | 849 | 684 | 689 | 799 | 824 | 804 | 804 | 849 | 684 | 689 | 799 | 804 | 804 | 849 | 398 | |
| 37 | 9-71 | / | 755 | 840 | / | 870 | 870 | 915 | 725 | 755 | 840 | / | 870 | 870 | 915 | 725 | 755 | 840 | 870 | 870 | 915 | 446 | |
| 45 | 7.1-56 | / | 755 | 840 | / | 870 | 870 | 915 | 725 | 755 | 840 | / | 870 | 870 | 915 | 725 | 755 | 840 | 870 | 870 | 915 | 446 | |
| 55 | 7.1-45 | / | 856 | 981 | / | 991 | 991 | 1026 | 841 | 856 | 981 | / | 991 | 991 | 1036 | 841 | 856 | 981 | 991 | 991 | 1036 | 485 | |
| 75 | 7.1-35.5 | / | 916 | 1026 | / | 1061 | 1061 | 1106 | 886 | 916 | 1026 | / | 1061 | 1061 | 1106 | 886 | 916 | 1026 | 1061 | 1061 | 1106 | 547 | |
| 90 | 7.1-28 | / | 967 | 1077 | / | 1112 | 1112 | 1157 | 937 | 967 | 1077 | / | 1112 | 1112 | 1157 | 937 | 967 | 1077 | 1112 | 1112 | 1157 | 547 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 4 | 140-180 | 45 | 46 | 53 | 61 | 54 | 47 | 55 | 52 | 53 | 60 | / | 61 | 54 | 62 | 56 | 57 | 64 | 65 | 58 | 66 | |
| 5.5 | 100-140 | 63 | 65 | 74 | 85 | 76 | 66 | 77 | 67 | 69 | 78 | / | 80 | 70 | 81 | 77 | 79 | 88 | 90 | 80 | 91 | |
| 7.5 | 71-140 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | |
| 11 | 45-140 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 35.5-140 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 28-140 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 25-112 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |
| 30 | 16-90 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | |
| 37 | 9-71 | / | 332 | 380 | / | 381 | 334 | 383 | 330 | 332 | 380 | / | 381 | 334 | 383 | 345 | 347 | 395 | 396 | 349 | 398 | |
| 45 | 7.1-56 | / | 347 | 395 | / | 396 | 349 | 398 | 345 | 347 | 395 | / | 396 | 349 | 398 | 365 | 367 | 415 | 416 | 369 | 418 | |
| 55 | 7.1-45 | / | 436 | 540 | / | 535 | 436 | 537 | 435 | 436 | 540 | / | 535 | 436 | 537 | 470 | 471 | 575 | 570 | 471 | 572 | |
| 75 | 7.1-35.5 | / | 577 | 680 | / | 678 | 578 | 680 | 575 | 577 | 680 | / | 678 | 578 | 680 | 630 | 632 | 735 | 733 | 633 | 735 | |
| 90 | 7.1-28 | / | 647 | 750 | / | 748 | 648 | 750 | 645 | 647 | 750 | / | 748 | 648 | 750 | 710 | 712 | 815 | 813 | 713 | 815 | |



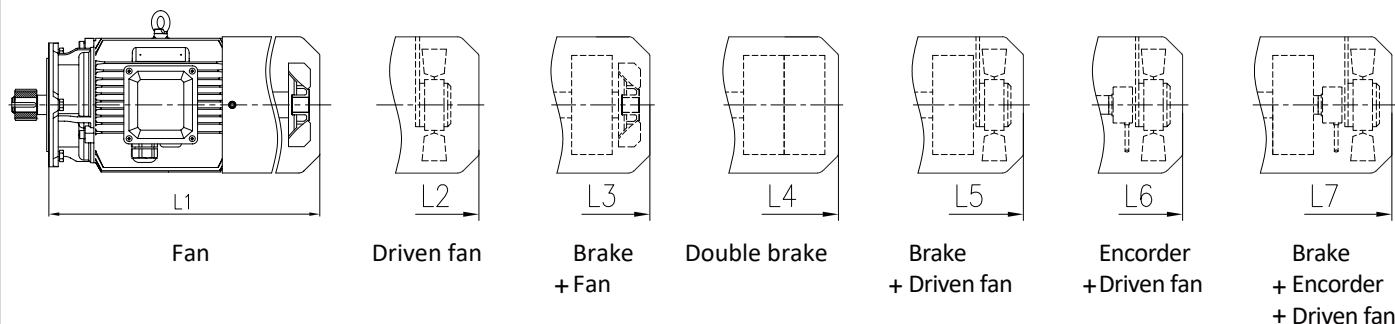
K

K315 Dimensions

| Mounting Mode | K315 Dimensions | | | | |
|-------------------------|--|--|--|---|---|
| Horizontal foot-mounted | <p>Horizontal foot-mounted (H) Weight: 697kg (Without motor and oil)</p> | <p>K315HA Unidirectional output shaft K315HB Unidirectional output shaft K315HC Bidirectional output shaft</p> | | | |
| | <p>K315HG Hollow shaft with parallel key</p> | <p>K315HI Hollow shaft with shrink disk</p> | <p>K315HJ Hollow shaft with shrink disk</p> | <p>K315HK Hollow shaft with involute spline</p> | <p>K315HL Hollow shaft with involute spline</p> |
| Flange-mounted | <p>Flange-mounted (F) Weight: 759kg (Without motor and oil)</p> | <p>K315FA Unidirectional output shaft K315FB Unidirectional output shaft K315FC Bidirectional output shaft</p> | <p>K315FD Unidirectional output shaft K315FE Unidirectional output shaft K315FF Bidirectional output shaft</p> | | |
| | <p>K315FG Hollow shaft with parallel key</p> | <p>K315FI Hollow shaft with shrink disk</p> | <p>K315FJ Hollow shaft with shrink disk</p> | <p>K315FK Hollow shaft with involute spline</p> | <p>K315FL Hollow shaft with involute spline</p> |
| Short flange-mounted | <p>Short flange-mounted (S) Weight: 1100kg (Without motor and oil)</p> | <p>K315SG Hollow shaft with parallel key</p> | <p>K315SI Hollow shaft with shrink disk</p> | <p>K315SJ Hollow shaft with shrink disk</p> | <p>K315SK Hollow shaft with involute spline</p> |
| | <p>K315SH Hollow shaft with parallel key</p> | | | | |
| Torque arm-mounted | <p>Torque arm-mounted with accessory (T) Weight: 790kg (Without motor and oil)</p> | <p>Torque arm-mounted without accessory (A) Weight: 697kg (Without motor and oil)</p> | <p>K315AG Hollow shaft with parallel key</p> | <p>K315AI Hollow shaft with shrink disk</p> | <p>K315AJ Hollow shaft with shrink disk</p> |
| | <p>K315AH Hollow shaft with parallel key</p> | <p>K315TI Hollow shaft with shrink disk</p> | <p>K315TJ Hollow shaft with shrink disk</p> | <p>K315AK Hollow shaft with involute spline</p> | <p>K315AL Hollow shaft with involute spline</p> |
| | <p>K315TG Hollow shaft with parallel key</p> | <p>K315TH Hollow shaft with parallel key</p> | <p>K315TK Hollow shaft with involute spline</p> | <p>K315TL Hollow shaft with involute spline</p> | |

Note: Involute spline size DIN 5480 : m3×Z38×α30×D120×9H

Corresponding motor dimension table for K315



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|-----|-----|------|-----|------|------|------|-----|-----|------|-----|------|------|------|-----|-----|------|------|------|------|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 7.5 | 100-140 | 429 | 479 | 509 | 574 | 554 | 554 | 609 | 429 | 479 | 509 | / | 554 | 554 | 609 | 467 | 517 | 547 | 592 | 592 | 647 | 259 | |
| 11 | 71-140 | / | 493 | 553 | / | 583 | 583 | 633 | 458 | 493 | 553 | 603 | 583 | 583 | 633 | 502 | 537 | 597 | 627 | 627 | 677 | 314 | |
| 15 | 50-140 | / | 537 | 597 | / | 627 | 627 | 677 | 502 | 537 | 597 | 647 | 627 | 627 | 677 | 532 | 567 | 627 | 657 | 657 | 707 | 314 | |
| 18.5 | 40-140 | / | 603 | 683 | / | 708 | 708 | 753 | 573 | 603 | 683 | 738 | 683 | 708 | 753 | 573 | 603 | 683 | 708 | 708 | 753 | 356 | |
| 22 | 31.5-140 | / | 651 | 731 | / | 756 | 756 | 801 | 621 | 651 | 731 | 786 | 731 | 756 | 801 | 621 | 651 | 731 | 756 | 756 | 801 | 356 | |
| 30 | 25-112 | / | 679 | 789 | / | 794 | 794 | 839 | 674 | 679 | 789 | 814 | 794 | 794 | 839 | 674 | 679 | 789 | 794 | 794 | 839 | 398 | |
| 37 | 20-100 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 45 | 16-80 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 55 | 12.5-71 | / | 846 | 971 | / | 981 | 981 | 1016 | 831 | 846 | 971 | / | 981 | 981 | 1026 | 831 | 846 | 971 | 981 | 981 | 1026 | 485 | |
| 75 | 10-50 | / | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | 1051 | 1051 | 1096 | 547 | |
| 90 | 10-40 | / | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | 1102 | 1102 | 1147 | 547 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 7.5 | 100-140 | 73 | 75 | 84 | 95 | 86 | 76 | 87 | 80 | 82 | 91 | / | 93 | 83 | 94 | 88 | 90 | 99 | 101 | 91 | 102 | |
| 11 | 71-140 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 50-140 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 40-140 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 31.5-140 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |
| 30 | 25-112 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | |
| 37 | 20-100 | / | 332 | 380 | / | 381 | 334 | 383 | 330 | 332 | 380 | / | 381 | 334 | 383 | 345 | 347 | 395 | 396 | 349 | 398 | |
| 45 | 16-80 | / | 347 | 395 | / | 396 | 349 | 398 | 345 | 347 | 395 | / | 396 | 349 | 398 | 365 | 367 | 415 | 416 | 369 | 418 | |
| 55 | 12.5-71 | / | 436 | 540 | / | 535 | 436 | 537 | 435 | 436 | 540 | / | 535 | 436 | 537 | 470 | 471 | 575 | 570 | 471 | 572 | |
| 75 | 10-50 | / | 577 | 680 | / | 678 | 578 | 680 | 575 | 577 | 680 | / | 678 | 578 | 680 | 630 | 632 | 735 | 733 | 633 | 735 | |
| 90 | 10-40 | / | 647 | 750 | / | 748 | 648 | 750 | 645 | 647 | 750 | / | 748 | 648 | 750 | 710 | 712 | 815 | 813 | 713 | 815 | |

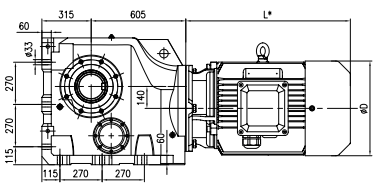


K

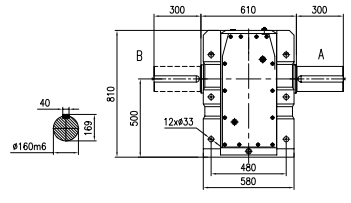
K316 Dimensions

Mounting Mode

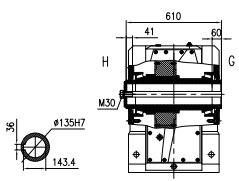
Horizontal foot-mounted



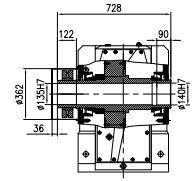
Horizontal foot-mounted (H)
Weight: 1110kg (Without motor and oil)



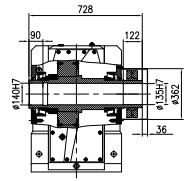
K316HA Unidirectional output shaft
K316HB Unidirectional output shaft
K316HC Bidirectional output shaft



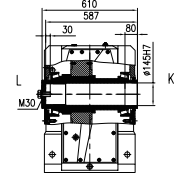
K316HG Hollow shaft with parallel key
K316HH Hollow shaft with parallel key



K316HI Hollow shaft with shrink disk

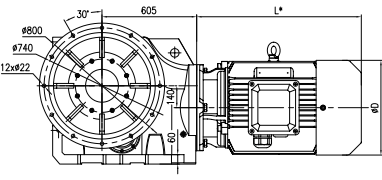


K316HJ Hollow shaft with shrink disk

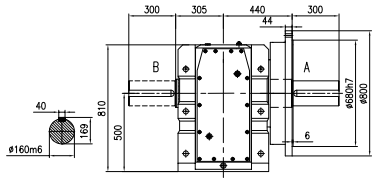


K316HK Hollow shaft with involute spline
K316HL Hollow shaft with involute spline

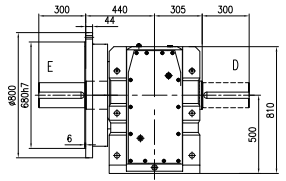
Flange-mounted



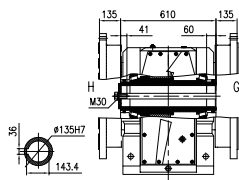
Flange-mounted (F)
Weight: 1300kg (Without motor and oil)



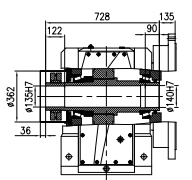
K316FA Unidirectional output shaft
K316FB Unidirectional output shaft
K316FC Bidirectional output shaft



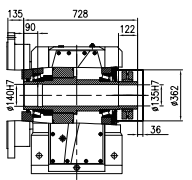
K316FD Unidirectional output shaft
K316FE Unidirectional output shaft
K316FF Bidirectional output shaft



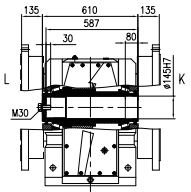
K316FG Hollow shaft with parallel key
K316FH Hollow shaft with parallel key



K316FI Hollow shaft with shrink disk



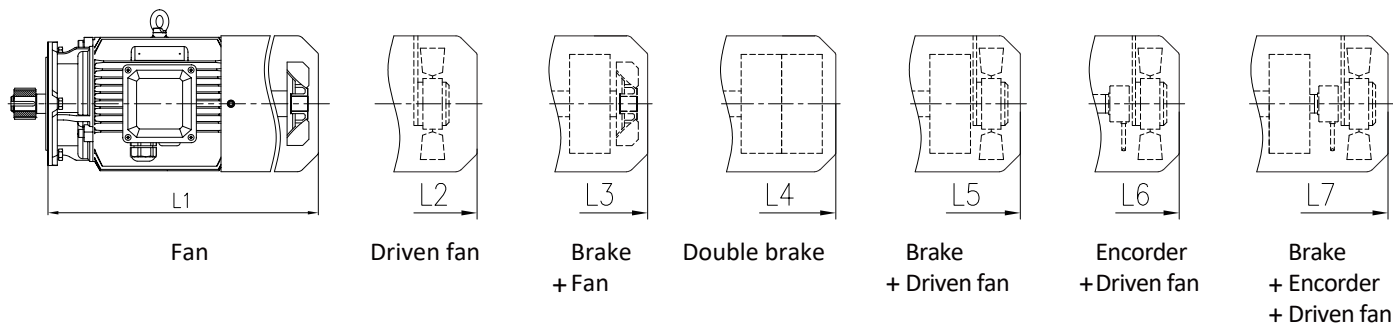
K316FJ Hollow shaft with shrink disk



K316FK Hollow shaft with involute spline
K316FL Hollow shaft with involute spline

Note: Involute spline size DIN 5480 : m3xZ45xα30xD140x9H

Corresponding motor dimension table for K316



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|----|-----|------|----|------|------|------|-----|-----|------|-----|------|------|------|-----|-----|------|------|------|------|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 11 | 125-160 | / | 493 | 553 | / | 583 | 583 | 633 | 458 | 493 | 553 | 603 | 583 | 583 | 633 | 502 | 537 | 597 | 627 | 627 | 677 | 314 | |
| 15 | 90-160 | / | 537 | 597 | / | 627 | 627 | 677 | 502 | 537 | 597 | 647 | 627 | 627 | 677 | 532 | 567 | 627 | 657 | 657 | 707 | 314 | |
| 18.5 | 80-160 | / | 603 | 683 | / | 708 | 708 | 753 | 573 | 603 | 683 | 738 | 683 | 708 | 753 | 573 | 603 | 683 | 708 | 708 | 753 | 356 | |
| 22 | 63-160 | / | 651 | 731 | / | 756 | 756 | 801 | 621 | 651 | 731 | 786 | 731 | 756 | 801 | 621 | 651 | 731 | 756 | 756 | 801 | 356 | |
| 30 | 45-112 | / | 679 | 789 | / | 794 | 794 | 839 | 674 | 679 | 789 | 814 | 794 | 794 | 839 | 674 | 679 | 789 | 794 | 794 | 839 | 398 | |
| 37 | 40-112 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 45 | 31.5-112 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 55 | 25-112 | / | 846 | 971 | / | 981 | 981 | 1016 | 831 | 846 | 971 | / | 981 | 981 | 1026 | 831 | 846 | 971 | 981 | 981 | 1026 | 485 | |
| 75 | 18-90 | / | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | 1051 | 1051 | 1096 | 547 | |
| 90 | 14-80 | / | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | 1102 | 1102 | 1147 | 547 | |

Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 11 | 125-160 | / | 123 | 142 | / | 143 | 124 | 144 | 121 | 123 | 142 | 162 | 143 | 124 | 144 | 129 | 131 | 150 | 151 | 132 | 152 | |
| 15 | 90-160 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 80-160 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 63-160 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |
| 30 | 45-112 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | |
| 37 | 40-112 | / | 332 | 380 | / | 381 | 334 | 383 | 330 | 332 | 380 | / | 381 | 334 | 383 | 345 | 347 | 395 | 396 | 349 | 398 | |
| 45 | 31.5-112 | / | 347 | 395 | / | 396 | 349 | 398 | 345 | 347 | 395 | / | 396 | 349 | 398 | 365 | 367 | 415 | 416 | 369 | 418 | |
| 55 | 25-112 | / | 436 | 540 | / | 535 | 436 | 537 | 435 | 436 | 540 | / | 535 | 436 | 537 | 470 | 471 | 575 | 570 | 471 | 572 | |
| 75 | 18-90 | / | 577 | 680 | / | 678 | 578 | 680 | 575 | 577 | 680 | / | 678 | 578 | 680 | 630 | 632 | 735 | 733 | 633 | 735 | |
| 90 | 14-80 | / | 647 | 750 | / | 748 | 648 | 750 | 645 | 647 | 750 | / | 748 | 648 | 750 | 710 | 712 | 815 | 813 | 713 | 815 | |

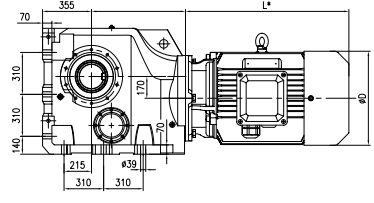


K

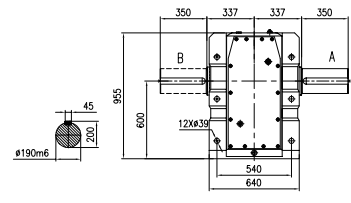
K318 Dimensions

Mounting Mode

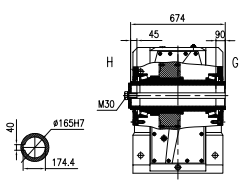
Horizontal foot-mounted



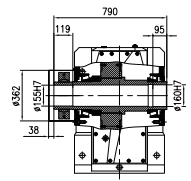
Horizontal foot-mounted (H)
Weight: 1430kg (Without motor and oil)



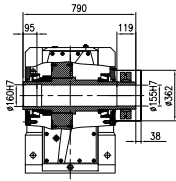
K318HA Unidirectional output shaft
K318HB Unidirectional output shaft
K318HC Bidirectional output shaft



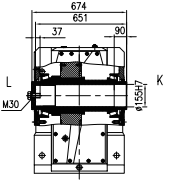
K318HG Hollow shaft with parallel key
K318HH Hollow shaft with parallel key



K318HI Hollow shaft with shrink disk

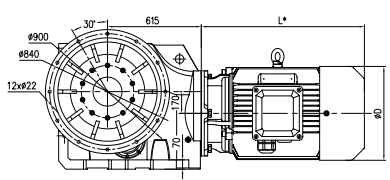


K318HJ Hollow shaft with shrink disk

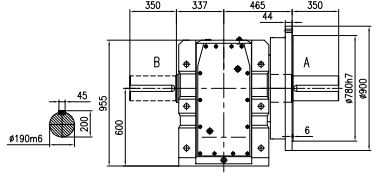


K318HK Hollow shaft with involute spline
K318HL Hollow shaft with involute spline

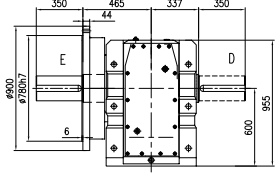
Flange-mounted



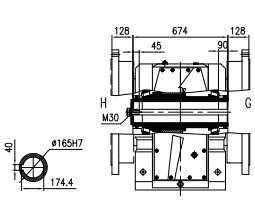
Flange-mounted (F)
Weight: 1688kg (Without motor and oil)



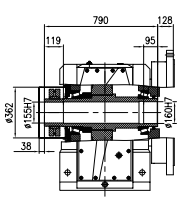
K318FA Unidirectional output shaft
K318FB Unidirectional output shaft
K318FC Bidirectional output shaft



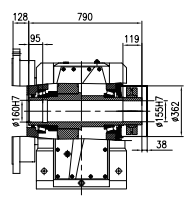
K318FD Unidirectional output shaft
K318FE Unidirectional output shaft
K318FF Bidirectional output shaft



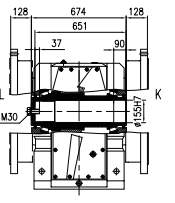
K318FG Hollow shaft with parallel key
K318FH Hollow shaft with parallel key



K318FI Hollow shaft with shrink disk



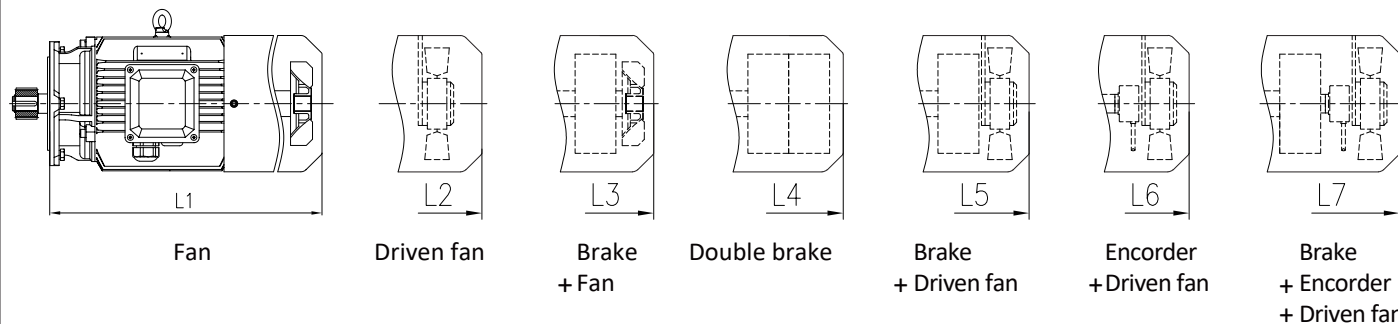
K318FJ Hollow shaft with shrink disk



K318FK Hollow shaft with involute spline
K318FL Hollow shaft with involute spline

Note: Involute spline size DIN 5480 : m3×Z45×α30×D140×9H

Corresponding motor dimension table for K318



Directly connected motor dimension table

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | | D |
|-------------------|----------------|----|-----|------|----|------|------|------|-----|-----|------|-----|------|------|------|-----|-----|------|------|------|------|-----|---|
| | | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L1 | L2 | L3 | L5 | L6 | L7 | | |
| 15 | 140-160 | / | 537 | 597 | / | 627 | 627 | 677 | 502 | 537 | 597 | 647 | 627 | 627 | 677 | 532 | 567 | 627 | 657 | 657 | 707 | 314 | |
| 18.5 | 112-160 | / | 603 | 683 | / | 708 | 708 | 753 | 573 | 603 | 683 | 738 | 683 | 708 | 753 | 573 | 603 | 683 | 708 | 708 | 753 | 356 | |
| 22 | 100-160 | / | 651 | 731 | / | 756 | 756 | 801 | 621 | 651 | 731 | 786 | 731 | 756 | 801 | 621 | 651 | 731 | 756 | 756 | 801 | 356 | |
| 30 | 71-140 | / | 679 | 789 | / | 794 | 794 | 839 | 674 | 679 | 789 | 814 | 794 | 794 | 839 | 674 | 679 | 789 | 794 | 794 | 839 | 398 | |
| 37 | 56-140 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 45 | 45-140 | / | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | / | 860 | 860 | 905 | 715 | 745 | 830 | 860 | 860 | 905 | 446 | |
| 55 | 40-140 | / | 846 | 971 | / | 981 | 981 | 1016 | 831 | 846 | 971 | / | 981 | 981 | 1026 | 831 | 846 | 971 | 981 | 981 | 1026 | 485 | |
| 75 | 28-112 | / | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | / | 1051 | 1051 | 1096 | 876 | 906 | 1016 | 1051 | 1051 | 1096 | 547 | |
| 90 | 20-112 | / | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | / | 1102 | 1102 | 1147 | 927 | 957 | 1067 | 1102 | 1102 | 1147 | 547 | |

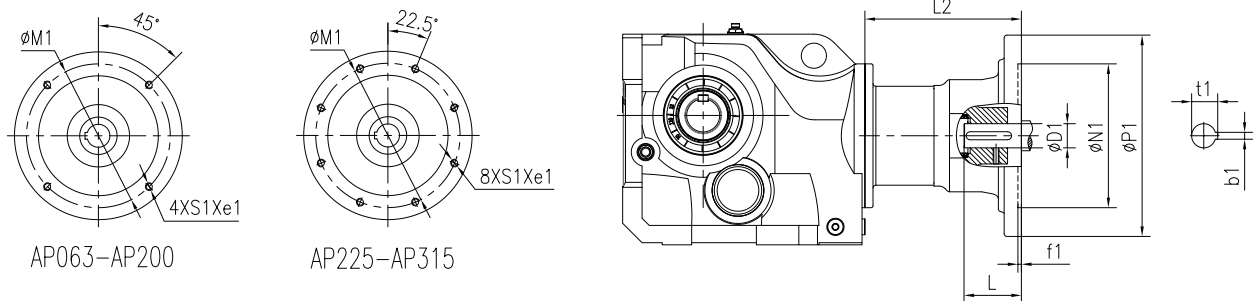
Directly connected motor weight table / kg

| 4-pole power (kW) | Range of Ratio | MS | | | | | | | MH | | | | | | | MP | | | | | | |
|-------------------|----------------|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M4 | M5 | M6 | M7 | M1 | M2 | M3 | M5 | M6 | M7 | |
| 15 | 140-160 | / | 141 | 160 | / | 161 | 142 | 162 | 139 | 141 | 160 | 180 | 161 | 142 | 162 | 161 | 163 | 182 | 183 | 164 | 184 | |
| 18.5 | 112-160 | / | 184 | 214 | / | 215 | 185 | 217 | 182 | 184 | 214 | 246 | 215 | 185 | 217 | 200 | 202 | 232 | 233 | 203 | 235 | |
| 22 | 100-160 | / | 206 | 236 | / | 237 | 207 | 239 | 204 | 206 | 236 | 268 | 237 | 207 | 239 | 220 | 222 | 252 | 253 | 223 | 255 | |
| 30 | 71-140 | / | 260 | 310 | / | 308 | 261 | 310 | 260 | 260 | 310 | 360 | 308 | 261 | 310 | 280 | 280 | 330 | 328 | 281 | 330 | |
| 37 | 56-140 | / | 332 | 380 | / | 381 | 334 | 383 | 330 | 332 | 380 | / | 381 | 334 | 383 | 345 | 347 | 395 | 396 | 349 | 398 | |
| 45 | 45-140 | / | 347 | 395 | / | 396 | 349 | 398 | 345 | 347 | 395 | / | 396 | 349 | 398 | 365 | 367 | 415 | 416 | 369 | 418 | |
| 55 | 40-140 | / | 436 | 540 | / | 535 | 436 | 537 | 435 | 436 | 540 | / | 535 | 436 | 537 | 470 | 471 | 575 | 570 | 471 | 572 | |
| 75 | 28-112 | / | 577 | 680 | / | 678 | 578 | 680 | 575 | 577 | 680 | / | 678 | 578 | 680 | 630 | 632 | 735 | 733 | 633 | 735 | |
| 90 | 20-112 | / | 647 | 750 | / | 748 | 648 | 750 | 645 | 647 | 750 | / | 748 | 648 | 750 | 710 | 712 | 815 | 813 | 713 | 815 | |

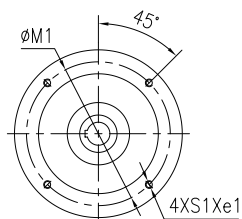


7 Input Flange and Input Shaft

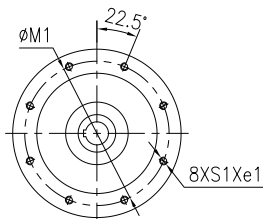
7.1 K series dimensions of AP input flange



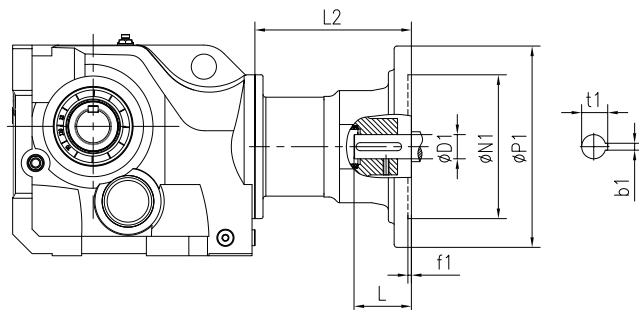
| Size | Flange | Range of Ratio | e1 | D1 | N1 | M1 | P1 | f1 | b1 | t1 | L | S1 | L2 | Weight (kg) |
|-------|--------|----------------|------|-------|-------|-----|-----|----|------|------|-----|-----|------|-------------|
| K303 | AP063 | 4-100 | 14 | 11H7 | 95H7 | 115 | 140 | 4 | 4 | 12.8 | 23 | M8 | 59 | 4.8 |
| | AP071 | 4-100 | 14 | 14H7 | 110H7 | 130 | 160 | 4 | 5 | 16.3 | 30 | M8 | 59 | 4.8 |
| | AP080 | 4-71 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 74 | 7.6 |
| K304 | AP063 | 4-125 | 14 | 11H7 | 95H7 | 115 | 140 | 4 | 4 | 12.8 | 23 | M8 | 61 | 5.1 |
| | AP071 | 4-125 | 14 | 14H7 | 110H7 | 130 | 160 | 4 | 5 | 16.3 | 30 | M8 | 61 | 5.1 |
| | AP080 | 4-125 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 76 | 8.6 |
| | AP090 | 4-71 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 81 | 9.2 |
| | AP100 | 4-35.5 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| | AP112 | 4-20 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| K305 | AP063 | 4-112 | 14 | 11H7 | 95H7 | 115 | 140 | 4 | 4 | 12.8 | 23 | M8 | 61 | 5.1 |
| | AP071 | 4-112 | 14 | 14H7 | 110H7 | 130 | 160 | 4 | 5 | 16.3 | 30 | M8 | 61 | 5.1 |
| | AP080 | 4-112 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 76 | 8.6 |
| | AP090 | 4-63 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 81 | 9.2 |
| | AP100 | 4-56 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| | AP112 | 4-28 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| K306 | AP063 | 4-125 | 14 | 11H7 | 95H7 | 115 | 140 | 4 | 4 | 12.8 | 23 | M8 | 61 | 5.1 |
| | AP071 | 4-125 | 14 | 14H7 | 110H7 | 130 | 160 | 4 | 5 | 16.3 | 30 | M8 | 61 | 5.1 |
| | AP080 | 4-125 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 76 | 8.6 |
| | AP090 | 4-90 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 81 | 9.2 |
| | AP100 | 4-80 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| | AP112 | 4-40 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 191 | 14.1 |
| K307 | AP071 | 7.1-180 | 14 | 14H7 | 110H7 | 130 | 160 | 4 | 5 | 16.3 | 30 | M8 | 53 | 6.7 |
| | AP080 | 7.1-180 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 68 | 10.3 |
| | AP090 | 7.1-112 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 73 | 11.1 |
| | AP100 | 7.1-112 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 181 | 15.5 |
| | AP112 | 7.1-80 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 181 | 15.5 |
| | AP132 | 7.1-50 | 28 | 38H7 | 230H7 | 265 | 300 | 5 | 10 | 41.3 | 80 | M12 | 210 | 22.3 |
| K308 | AP080 | 90-180 | 18 | 19H7 | 130H7 | 165 | 200 | 4 | 6 | 21.8 | 40 | M10 | 65 | 10.4 |
| | AP090 | 7.1-160 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 66 | 12.1 |
| | AP100 | 7.1-160 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 171 | 18.2 |
| | AP112 | 7.1-140 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 171 | 18.2 |
| | AP132 | 7.1-80 | 28 | 38H7 | 230H7 | 265 | 300 | 5 | 10 | 41.3 | 80 | M12 | 203 | 24.9 |
| | AP160 | 7.1-45 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 272 | 46.4 |
| AP180 | 7.1-28 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 272 | 46.4 | |



AP063-AP200



AP225-AP315

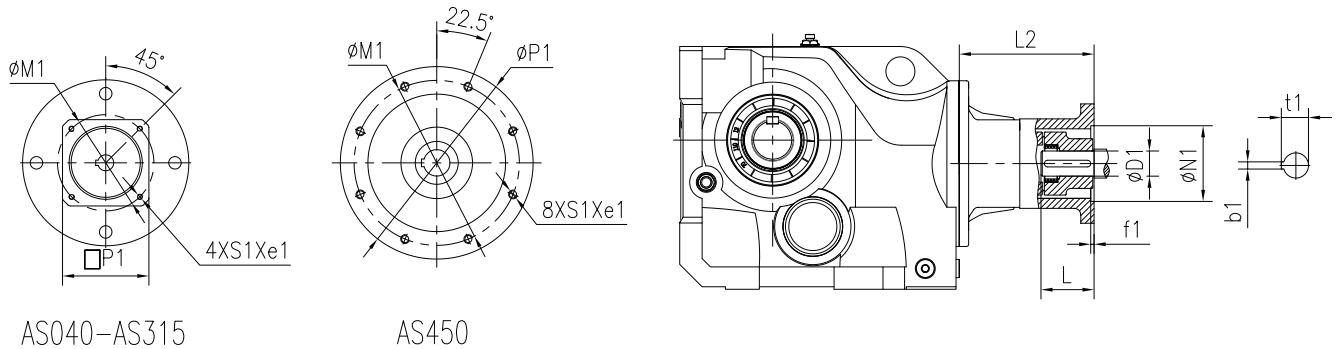


K

| Size | Flange | Range of Ratio | e1 | D1 | N1 | M1 | P1 | f1 | b1 | t1 | L | S1 | L2 | Weight (kg) |
|------|--------|----------------|----|------|-------|-----|-----|----|----|------|-----|-----|-----|-------------|
| K309 | AP090 | 7.1-180 | 18 | 24H7 | 130H7 | 165 | 200 | 4 | 8 | 27.3 | 50 | M10 | 70 | 14.7 |
| | AP100 | 7.1-180 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 172 | 21.5 |
| | AP112 | 7.1-180 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 172 | 21.5 |
| | AP132 | 7.1-112 | 28 | 38H7 | 230H7 | 265 | 300 | 5 | 10 | 41.3 | 80 | M12 | 202 | 28.3 |
| | AP160 | 7.1-90 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 270 | 49.9 |
| | AP180 | 7.1-50 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 270 | 49.9 |
| | AP200 | 7.1-28 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 327 | 72.8 |
| K310 | AP100 | 8-180 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 162 | 25.6 |
| | AP112 | 8-180 | 28 | 28H7 | 180H7 | 215 | 250 | 5 | 8 | 31.3 | 60 | M12 | 162 | 25.6 |
| | AP132 | 8-125 | 28 | 38H7 | 230H7 | 265 | 300 | 5 | 10 | 41.3 | 80 | M12 | 189 | 33.7 |
| | AP160 | 8-125 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 257 | 52.3 |
| | AP180 | 8-90 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 257 | 52.3 |
| | AP200 | 8-50 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 327 | 77.4 |
| | AP225 | 8-40 | 30 | 60H7 | 350H7 | 400 | 450 | 6 | 18 | 64.4 | 140 | M16 | 354 | 85.1 |
| K312 | AP132 | 7.1-140 | 28 | 38H7 | 230H7 | 265 | 300 | 5 | 10 | 41.3 | 80 | M12 | 175 | 46.4 |
| | AP160 | 7.1-140 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 243 | 66.9 |
| | AP180 | 7.1-140 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 243 | 66.9 |
| | AP200 | 7.1-90 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 316 | 89.8 |
| | AP225 | 7.1-71 | 30 | 60H7 | 350H7 | 400 | 450 | 6 | 18 | 64.4 | 140 | M16 | 343 | 97.5 |
| | AP250 | 7.1-45 | 32 | 65H7 | 450H7 | 500 | 550 | 7 | 18 | 69.4 | 140 | M16 | 361 | 131.3 |
| | AP280 | 7.1-35.5 | 32 | 75H7 | 450H7 | 500 | 550 | 7 | 20 | 79.9 | 140 | M16 | 361 | 131.3 |
| K315 | AP160 | 10-140 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 233 | 90.9 |
| | AP180 | 10-140 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 233 | 90.9 |
| | AP200 | 10-112 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 298 | 109.4 |
| | AP225 | 10-100 | 30 | 60H7 | 350H7 | 400 | 450 | 6 | 18 | 64.4 | 140 | M16 | 325 | 117.1 |
| | AP250 | 10-71 | 32 | 65H7 | 450H7 | 500 | 550 | 7 | 18 | 69.4 | 140 | M16 | 343 | 147.8 |
| | AP280 | 10-50 | 32 | 75H7 | 450H7 | 500 | 550 | 7 | 20 | 79.9 | 140 | M16 | 343 | 147.8 |
| | AP315 | 10-31.5 | 35 | 80H7 | 550H7 | 600 | 660 | 7 | 22 | 85.4 | 170 | M20 | 447 | 262.5 |
| K316 | AP160 | 10-160 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 233 | 90.9 |
| | AP180 | 10-160 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 233 | 90.9 |
| | AP200 | 10-112 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 298 | 109.4 |
| | AP225 | 10-112 | 30 | 60H7 | 350H7 | 400 | 450 | 6 | 18 | 64.4 | 140 | M16 | 325 | 117.1 |
| | AP250 | 10-112 | 32 | 65H7 | 450H7 | 500 | 550 | 7 | 18 | 69.4 | 140 | M16 | 343 | 147.8 |
| | AP280 | 10-90 | 32 | 75H7 | 450H7 | 500 | 550 | 7 | 20 | 79.9 | 140 | M16 | 343 | 147.8 |
| | AP315 | 10-63 | 35 | 80H7 | 550H7 | 600 | 660 | 7 | 22 | 85.4 | 170 | M20 | 447 | 262.5 |
| K318 | AP160 | 71-160 | 40 | 42H7 | 250H7 | 300 | 350 | 6 | 12 | 45.3 | 110 | M16 | 233 | 90.9 |
| | AP180 | 71-160 | 40 | 48H7 | 250H7 | 300 | 350 | 6 | 14 | 51.8 | 110 | M16 | 233 | 90.9 |
| | AP200 | 10-140 | 40 | 55H7 | 300H7 | 350 | 400 | 6 | 16 | 59.3 | 110 | M16 | 298 | 109.4 |
| | AP225 | 10-140 | 30 | 60H7 | 350H7 | 400 | 450 | 6 | 18 | 64.4 | 140 | M16 | 325 | 117.1 |
| | AP250 | 10-140 | 32 | 65H7 | 450H7 | 500 | 550 | 7 | 18 | 69.4 | 140 | M16 | 343 | 147.8 |
| | AP280 | 10-112 | 32 | 75H7 | 450H7 | 500 | 550 | 7 | 20 | 79.9 | 140 | M16 | 343 | 147.8 |
| | AP315 | 10-100 | 35 | 80H7 | 550H7 | 600 | 660 | 7 | 22 | 85.4 | 170 | M20 | 447 | 262.5 |



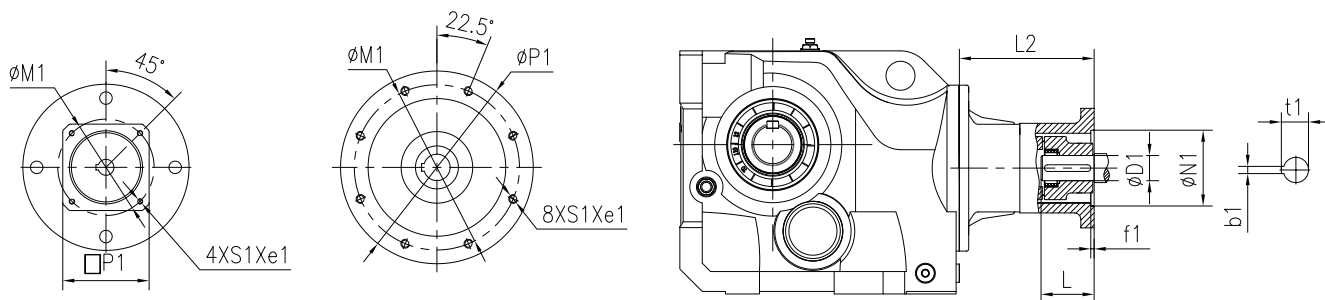
7.2 K series dimensions of AS input flange



AS040-AS315

AS450

| Size | Flange | Range of Ratio | e1 | D1 | N1 | M1 | P1 | f1 | b1 | t1 | L | S1 | L2 | Weight (kg) |
|-------|--------|----------------|------|-------|---------|-----|-----|-----|------|------|-----|-----|------|-------------|
| K303 | AS040 | 4-100 | 4 | 8H7 | 30H7 | 46 | 78 | 4 | 2 | 9 | 25 | M4 | 65 | 2.5 |
| | AS055 | 4-100 | 4 | 9H7 | 40H7 | 63 | 78 | 4 | 3 | 10.4 | 25 | M5 | 65 | 2.5 |
| | AS060 | 4-100 | 10 | 14H7 | 50H7 | 70 | 60 | 4 | 5 | 16.3 | 30 | M5 | 114 | 3.2 |
| | AS070 | 4-100 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 114 | 3.3 |
| | AS080 | 4-100 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 120 | 3.4 |
| | AS090 | 4-100 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 125 | 3.6 |
| | AS100 | 4-56 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 122 | 3.9 |
| | AS125 | 4-56 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 133 | 4.9 |
| K304 | AS140 | 4-56 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 133 | 4.8 |
| | AS060 | 4-125 | 10 | 14H7 | 50H7 | 70 | 60 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.1 |
| | AS070 | 4-125 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.2 |
| | AS080 | 4-125 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 122 | 4.3 |
| | AS090 | 4-125 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 127 | 4.5 |
| | AS100 | 4-80 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 124 | 4.8 |
| | AS125 | 4-80 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 135 | 5.8 |
| | AS140 | 4-80 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 135 | 5.7 |
| K305 | AS160 | 4-80 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 190 | 9.9 |
| | AS060 | 4-112 | 10 | 14H7 | 50H7 | 70 | 60 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.1 |
| | AS070 | 4-112 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.2 |
| | AS080 | 4-112 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 122 | 4.3 |
| | AS090 | 4-112 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 127 | 4.5 |
| | AS100 | 4-63 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 124 | 4.8 |
| | AS125 | 4-63 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 135 | 5.8 |
| | AS140 | 4-63 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 135 | 5.7 |
| K306 | AS160 | 4-63 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 190 | 9.9 |
| | AS060 | 4-125 | 10 | 14H7 | 50H7 | 70 | 60 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.1 |
| | AS070 | 4-125 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 116 | 4.2 |
| | AS080 | 4-125 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 122 | 4.3 |
| | AS090 | 4-125 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 127 | 4.5 |
| | AS100 | 4-90 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 124 | 4.8 |
| | AS125 | 4-90 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 135 | 5.8 |
| | AS140 | 4-90 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 135 | 5.7 |
| K307 | AS160 | 4-90 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 190 | 9.9 |
| | AS060 | 7.1-180 | 10 | 14H7 | 50H7 | 70 | 60 | 4 | 5 | 16.3 | 30 | M5 | 108 | 5.6 |
| | AS070 | 7.1-180 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 108 | 5.7 |
| | AS080 | 7.1-180 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 114 | 5.8 |
| | AS090 | 7.1-180 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 119 | 6 |
| | AS100 | 7.1-112 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 116 | 6.3 |
| | AS125 | 7.1-112 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 127 | 7.3 |
| | AS140 | 7.1-112 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 127 | 7.2 |
| | AS160 | 7.1-112 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 180 | 11.3 |
| | AS180 | 7.1-50 | 16 | 35H7 | 114.3H7 | 200 | 180 | 7 | 10 | 38.3 | 80 | M12 | 210 | 16.7 |
| | AS190 | 7.1-50 | 18 | 38H7 | 180H7 | 215 | 190 | 5 | 10 | 41.3 | 80 | M12 | 210 | 17.1 |
| AS240 | 7.1-50 | 28 | 38H7 | 230H7 | 265 | 240 | 5 | 10 | 41.3 | 80 | M12 | 210 | 22.3 | |



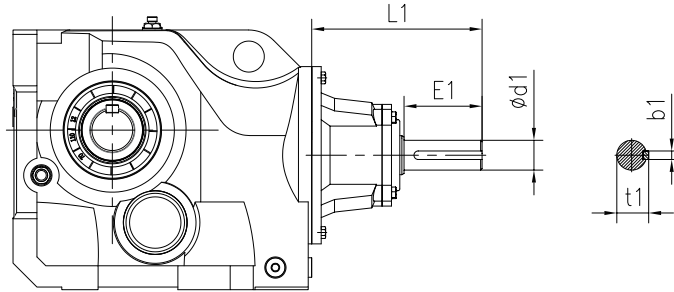
AS040-AS315

AS450

K

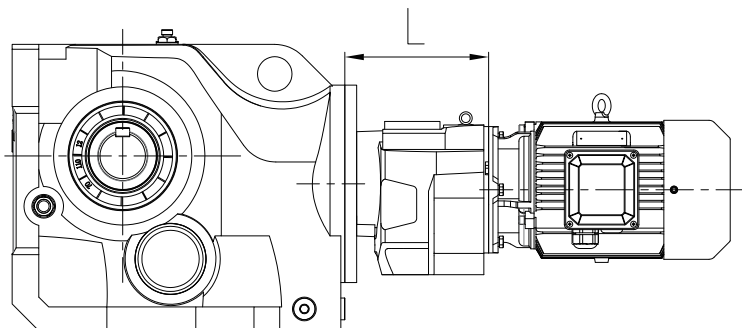
| Size | Flange | Range of Ratio | e1 | D1 | N1 | M1 | P1 | f1 | b1 | t1 | L | S1 | L2 | Weight (kg) |
|------|--------|----------------|----|------|---------|-----|-----|-----|----|------|-----|-----|-----|-------------|
| K308 | AS070 | 90-180 | 10 | 14H7 | 60H7 | 75 | 70 | 4 | 5 | 16.3 | 30 | M5 | 105 | 8 |
| | AS080 | 90-180 | 10 | 19H7 | 70H7 | 90 | 80 | 4 | 6 | 21.8 | 35 | M6 | 111 | 8.1 |
| | AS090 | 90-180 | 10 | 19H7 | 80H7 | 100 | 90 | 4 | 6 | 21.8 | 40 | M6 | 116 | 8.3 |
| | AS100 | 7.1-160 | 14 | 19H7 | 95H7 | 115 | 100 | 4 | 6 | 21.8 | 45 | M8 | 113 | 8.6 |
| | AS125 | 7.1-160 | 15 | 24H7 | 110H7 | 130 | 130 | 5 | 8 | 27 | 50 | M8 | 124 | 9.6 |
| | AS140 | 7.1-160 | 15 | 24H7 | 110H7 | 145 | 130 | 5.5 | 8 | 27 | 55 | M8 | 124 | 9.5 |
| | AS160 | 7.1-160 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 170 | 14 |
| | AS180 | 7.1-80 | 16 | 35H7 | 114.3H7 | 200 | 180 | 7 | 10 | 38.3 | 80 | M12 | 203 | 19.3 |
| | AS190 | 7.1-80 | 18 | 38H7 | 180H7 | 215 | 190 | 5 | 10 | 41.3 | 80 | M12 | 203 | 19.7 |
| K309 | AS240 | 7.1-80 | 28 | 38H7 | 230H7 | 265 | 240 | 5 | 10 | 41.3 | 80 | M12 | 203 | 24.9 |
| | AS260 | 7.1-80 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 272 | 46.4 |
| | AS160 | 7.1-180 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 171 | 17.3 |
| | AS180 | 7.1-112 | 16 | 35H7 | 114.3H7 | 200 | 180 | 7 | 10 | 38.3 | 80 | M12 | 202 | 22.7 |
| | AS190 | 7.1-112 | 18 | 38H7 | 180H7 | 215 | 190 | 5 | 10 | 41.3 | 80 | M12 | 202 | 23.1 |
| | AS240 | 7.1-112 | 28 | 38H7 | 230H7 | 265 | 240 | 5 | 10 | 41.3 | 80 | M12 | 202 | 28.3 |
| K310 | AS260 | 7.1-112 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 271 | 49.9 |
| | AS315 | 7.1-28 | 40 | 55H7 | 300H7 | 350 | 315 | 6 | 16 | 59.3 | 110 | M16 | 327 | 72.8 |
| | AS160 | 8-180 | 15 | 32H7 | 130H7 | 165 | 155 | 5 | 10 | 35.3 | 60 | M10 | 161 | 21.4 |
| | AS180 | 8-125 | 16 | 35H7 | 114.3H7 | 200 | 180 | 7 | 10 | 38.3 | 80 | M12 | 189 | 28.1 |
| | AS190 | 8-125 | 18 | 38H7 | 180H7 | 215 | 190 | 5 | 10 | 41.3 | 80 | M12 | 189 | 28.5 |
| | AS240 | 8-125 | 28 | 38H7 | 230H7 | 265 | 240 | 5 | 10 | 41.3 | 80 | M12 | 189 | 33.7 |
| K312 | AS260 | 8-125 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 258 | 52.3 |
| | AS315 | 8-100 | 40 | 55H7 | 300H7 | 350 | 315 | 6 | 16 | 59.3 | 110 | M16 | 327 | 77.4 |
| | AS180 | 7.1-140 | 16 | 35H7 | 114.3H7 | 200 | 180 | 7 | 10 | 38.3 | 80 | M12 | 175 | 40.8 |
| | AS190 | 7.1-140 | 18 | 38H7 | 180H7 | 215 | 190 | 5 | 10 | 41.3 | 80 | M12 | 175 | 41.2 |
| | AS240 | 7.1-140 | 28 | 38H7 | 230H7 | 265 | 240 | 5 | 10 | 41.3 | 80 | M12 | 175 | 46.4 |
| | AS260 | 7.1-140 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 244 | 66.9 |
| K315 | AS315 | 7.1-112 | 40 | 55H7 | 300H7 | 350 | 315 | 6 | 16 | 59.3 | 110 | M16 | 316 | 89.8 |
| | AS450 | 7.1-90 | 30 | 55H7 | 350H7 | 400 | 450 | 6 | 16 | 59.3 | 140 | M16 | 343 | 97.5 |
| | AS260 | 10-140 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 234 | 90.9 |
| K316 | AS315 | 10-112 | 40 | 55H7 | 300H7 | 350 | 315 | 6 | 16 | 59.3 | 110 | M16 | 298 | 109.4 |
| | AS450 | 10-90 | 30 | 55H7 | 350H7 | 400 | 450 | 6 | 16 | 59.3 | 140 | M16 | 325 | 117.1 |
| | AS260 | 10-160 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 234 | 90.9 |
| K318 | AS260 | 10-140 | 40 | 48H7 | 250H7 | 300 | 260 | 6 | 14 | 51.8 | 110 | M16 | 234 | 90.9 |
| | AS315 | 10-140 | 40 | 55H7 | 300H7 | 350 | 315 | 6 | 16 | 59.3 | 110 | M16 | 298 | 109.4 |
| | AS450 | 10-112 | 30 | 55H7 | 350H7 | 400 | 450 | 6 | 16 | 59.3 | 140 | M16 | 325 | 117.1 |

7.3 K series dimensions of AE input shaft



| Size | Input Shaft | Range of Power | Range of Ratio | d1 | E1 | L1 | b1 | t1 | Weight (kg) |
|------|-------------|----------------|----------------|------|-----|-----|----|------|-------------|
| K303 | AE2 | 0.12-0.75kW | 4-100 | 19k6 | 40 | 117 | 6 | 21.5 | 2.5 |
| K304 | AE2 | 0.12-0.75kW | 4-125 | 19k6 | 40 | 119 | 6 | 21.5 | 3.4 |
| | AE3 | 1.1-4kW | 4-50 | 28k6 | 60 | 175 | 8 | 31 | 6.1 |
| K305 | AE2 | 0.12-0.75kW | 4-112 | 19k6 | 40 | 119 | 6 | 21.5 | 3.4 |
| | AE3 | 1.1-4kW | 4-63 | 28k6 | 60 | 175 | 8 | 31 | 6.1 |
| K306 | AE2 | 0.12-0.75kW | 4-125 | 19k6 | 40 | 119 | 6 | 21.5 | 3.4 |
| | AE3 | 1.1-4kW | 4-90 | 28k6 | 60 | 175 | 8 | 31 | 6.1 |
| K307 | AE2 | 0.12-0.75kW | 7.1-180 | 19k6 | 40 | 111 | 6 | 21.5 | 4.9 |
| | AE3 | 1.1-4kW | 7.1-112 | 28k6 | 60 | 165 | 8 | 31 | 7.5 |
| | AE4 | 5.5-7.5kW | 7.1-40 | 38k6 | 80 | 211 | 10 | 41 | 10.5 |
| K308 | AE2 | 0.12-0.75kW | 90-180 | 19k6 | 40 | 108 | 6 | 21.5 | 7.2 |
| | AE3 | 1.1-4kW | 7.1-160 | 28k6 | 60 | 155 | 8 | 31 | 10.2 |
| | AE4 | 5.5-11kW | 7.1-71 | 38k6 | 80 | 204 | 10 | 41 | 13.1 |
| | AE5 | 15-22kW | 7.1-35.5 | 42k6 | 110 | 266 | 12 | 45 | 23.3 |
| K309 | AE3 | 1.1-4kW | 7.1-180 | 28k6 | 60 | 156 | 8 | 31 | 10.2 |
| | AE4 | 5.5-11kW | 7.1-112 | 38k6 | 80 | 203 | 10 | 41 | 13.1 |
| | AE5 | 15-22kW | 7.1-63 | 42k6 | 110 | 265 | 12 | 45 | 23.3 |
| | AE6 | 30-45kW | 7.1-28 | 48k6 | 110 | 309 | 14 | 51.5 | 40.9 |
| K310 | AE3 | 1.1-4kW | 8-180 | 28k6 | 60 | 146 | 8 | 31 | 17.6 |
| | AE4 | 5.5-11kW | 8-125 | 38k6 | 80 | 190 | 10 | 41 | 21.9 |
| | AE5 | 15-22kW | 8-112 | 42k6 | 110 | 252 | 12 | 45 | 29.2 |
| | AE6 | 30-45kW | 8-50 | 48k6 | 110 | 309 | 14 | 51.5 | 45.5 |
| K312 | AE4 | 5.5-11kW | 7.1-140 | 38k6 | 80 | 176 | 10 | 41 | 34.6 |
| | AE5 | 15-22kW | 7.1-140 | 42k6 | 110 | 238 | 12 | 45 | 43.8 |
| | AE6 | 30-45kW | 7.1-90 | 48k6 | 110 | 298 | 14 | 51.5 | 57.9 |
| | AE7 | 55-90kW | 7.1-45 | 55m6 | 110 | 297 | 16 | 59 | 64.6 |
| | AE8 | 110-200kW | 7.1-25 | 70m6 | 140 | 377 | 20 | 74.5 | 87.8 |
| K315 | AE5 | 15-22kW | 10-140 | 42k6 | 110 | 228 | 12 | 45 | 67.8 |
| | AE6 | 30-45kW | 10-112 | 48k6 | 110 | 280 | 14 | 51.5 | 77.5 |
| | AE7 | 55-90kW | 10-71 | 55m6 | 110 | 279 | 16 | 59 | 81.1 |
| | AE8 | 110-200kW | 10-31.5 | 70m6 | 140 | 361 | 20 | 74.5 | 104.8 |
| K316 | AE5 | 15-22kW | 10-160 | 42k6 | 110 | 228 | 12 | 45 | 67.8 |
| | AE6 | 30-45kW | 10-112 | 48k6 | 110 | 280 | 14 | 51.5 | 77.5 |
| | AE7 | 55-90kW | 10-112 | 55m6 | 110 | 279 | 16 | 59 | 81.1 |
| | AE8 | 110-200kW | 10-63 | 70m6 | 140 | 361 | 20 | 74.5 | 104.8 |
| K318 | AE5 | 15-22kW | 71-160 | 42k6 | 110 | 228 | 12 | 45 | 67.8 |
| | AE6 | 30-45kW | 10-140 | 48k6 | 110 | 280 | 14 | 51.5 | 77.5 |
| | AE7 | 55-90kW | 10-140 | 55m6 | 110 | 279 | 16 | 59 | 81.1 |
| | AE8 | 110-200kW | 10-100 | 70m6 | 140 | 361 | 20 | 74.5 | 104.8 |

8 Combi-type Dimensions



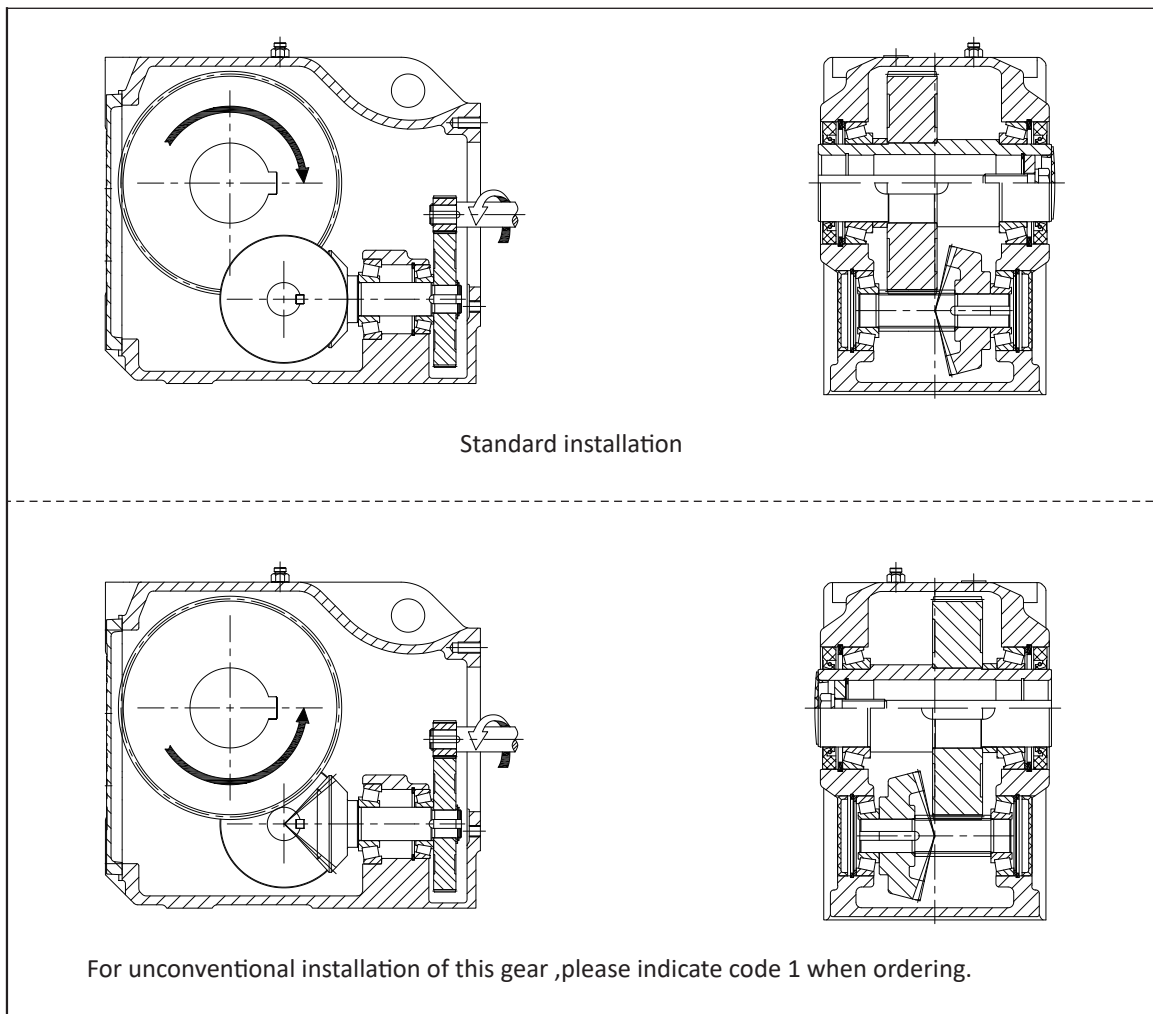
K

| | | | | | | | | |
|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Type | K303/C201 K303/C301 | K304/C203 K304/C303 | K305/C203 K305/C303 | K306/C203 K306/C303 | K307/C203 K307/C303 | K308/C205 K308/C305 | K309/C205 K309/C305 | K310/C207 K310/C307 |
| L | 134 | 170 | 170 | 170 | 170 | 182 | 182 | 226 |
| Range of Motor Power (kW) | 0.12-0.25 | 0.12-0.55 | 0.12-0.75 | 0.12-1.1 | 0.12- 2.2 | 0.12- 4 | 0.12- 4 | 0.12-7.5 |
| Type | K312/C207 K312/C307 | K312/C208 | K315/C209 K315/C309 | K315/C210 | K316/C209 K316/C309 | K316/C210 | K318/C209 K318/C309 | K318/C210 |
| L | 226 | 264 | 321 | 361 | 321 | 361 | 321 | 361 |
| Range of Motor Power (kW) | 0.12-7.5 | 7.5-18.5 | 0.12-11 | 11-22 | 0.37-22 | 22-45 | 0.55-30 | 30-45 |

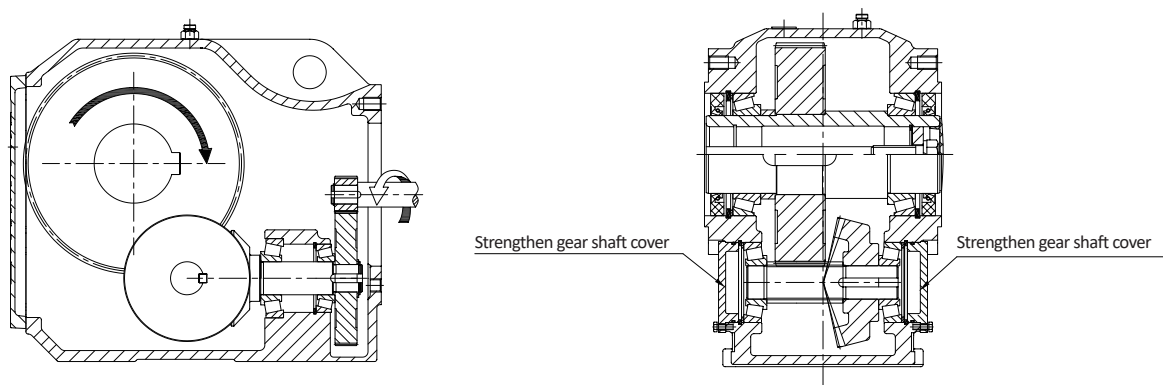


9 Accessoires and Specific Configuration

9.1 Unconventional installation of gear (Code 1)



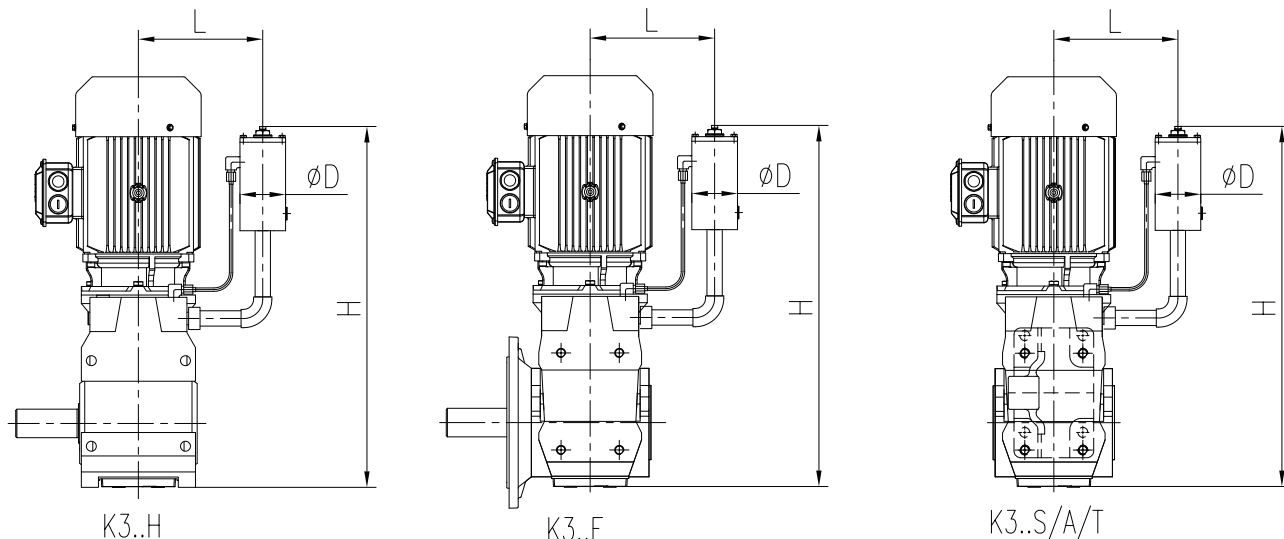
9.2 Strengthen gear shaft cover (Size:K308F/S/A/T~K315F/S/A/T, Code 2)



Note: The recommended applications would be load impactive occasions, e.g.gantry crane long travel mechanism etc.

9.3 Oil compensating tank (Code 6)

The installation position of K3...H,K3...F,K3...S/A/T is D4, recommended oil compensating tank lubrication.



K

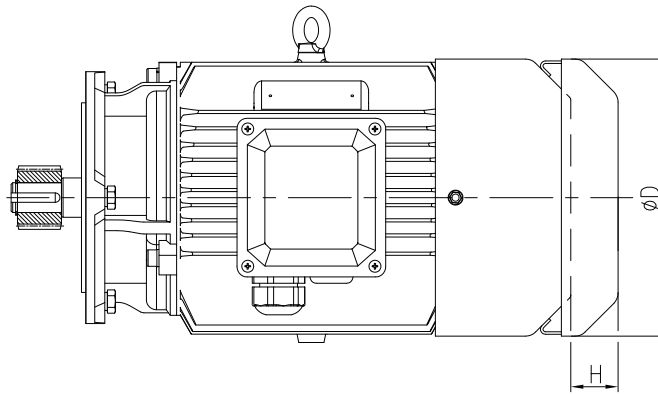
| Size | L | H | D |
|------|-----|-----|-----|
| K303 | 128 | 330 | 42 |
| K304 | 142 | 360 | 42 |
| K305 | 174 | 462 | 80 |
| K306 | 179 | 472 | 80 |
| K307 | 199 | 522 | 80 |
| K308 | 214 | 580 | 80 |
| K309 | 241 | 645 | 80 |
| K310 | 332 | 804 | 120 |
| K312 | 370 | 892 | 120 |
| K315 | 390 | 934 | 120 |

Note: In case of vertical position, the oil level is higher above the breather. A compensation is a necessary to prevent the oil erupting from the gearbox after a long term running, which could lead insufficient lubrication The actual dimension and final position of the compensation tank will be decided when the product is ordered. Other positions on request.



10 Motor Rainproof Cover Dimensions

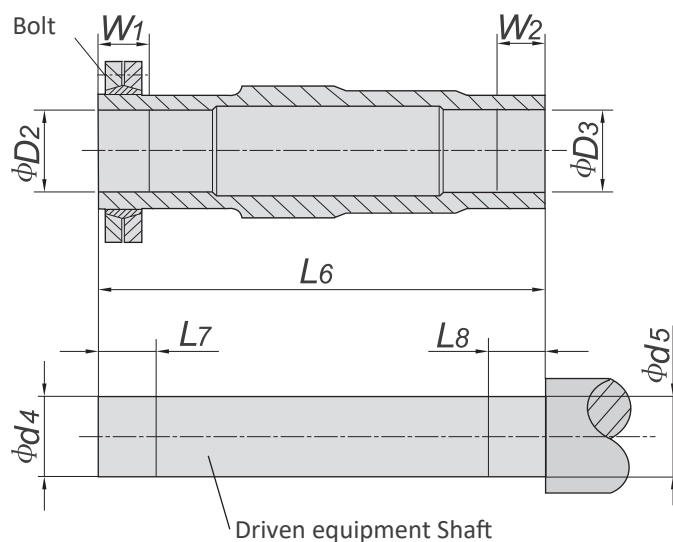
K



| Frame Size | H63 | H71 | H80 | H90 | H100 | H112 | H132 | H160 | H180 | H200 | H225 | H250 | H280 |
|------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| D | 124 | 139 | 159 | 176 | 199 | 220 | 259 | 314 | 356 | 398 | 446 | 485 | 547 |
| H | 25 | 30 | 30 | 35 | 40 | 40 | 40 | 60 | 60 | 70 | 70 | 80 | 80 |

11 Recommended Dimensions for Driven Equipment Shaft

11.1 Shrink disk

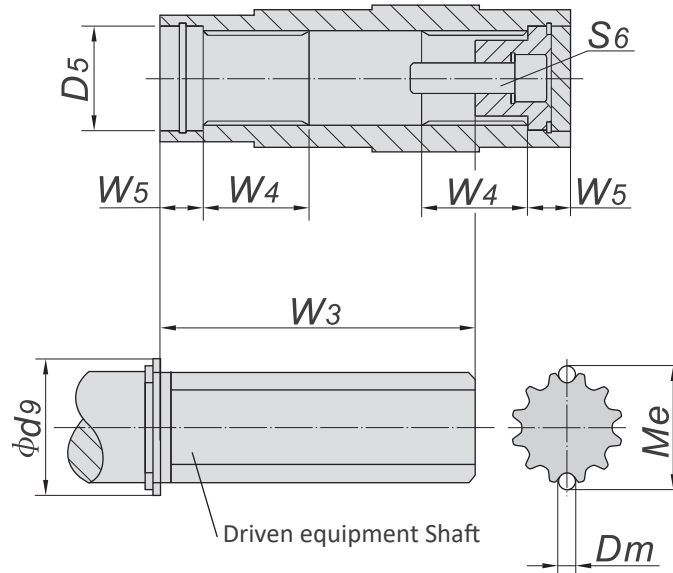


| Size | D2 | D3 | d4 | d5 | L6 | L7 | L8 | W1 | W2 | Type | Bolt | Number |
|------|-------|-------|-------|-------|-----|-----|-----|-----|----|-------------|------|--------|
| K303 | 30H7 | 30H7 | 30h6 | 30h6 | 146 | 35 | 25 | 30 | 20 | SP2-44×80 | M6 | 0.6 |
| K304 | 35H7 | 35H7 | 35h6 | 35h6 | 177 | 35 | 25 | 30 | 20 | SP2-44×80 | M6 | 0.6 |
| K305 | 40H7 | 40H7 | 40h6 | 40h6 | 195 | 40 | 30 | 35 | 25 | SP2-50×90 | M6 | 0.8 |
| K306 | 40H7 | 40H7 | 40h6 | 40h6 | 208 | 43 | 25 | 38 | 20 | SP2-50×90 | M6 | 0.8 |
| K307 | 50H7 | 50H7 | 50h6 | 50h6 | 241 | 41 | 35 | 36 | 30 | SP2-62×110 | M6 | 1.3 |
| K308 | 65H7 | 65H7 | 65h6 | 65h6 | 281 | 46 | 45 | 41 | 40 | SP2-80×145 | M8 | 1.9 |
| K309 | 75H7 | 75H7 | 75h6 | 75h6 | 345 | 60 | 55 | 55 | 50 | SP2-90×155 | M8 | 3.3 |
| K310 | 95H7 | 95H7 | 95h6 | 95h6 | 405 | 75 | 70 | 65 | 60 | SP2-110×185 | M10 | 5.9 |
| K312 | 105H7 | 105H7 | 105h6 | 105h6 | 485 | 95 | 80 | 85 | 70 | SP2-140×230 | M12 | 10 |
| K315 | 125H7 | 125H7 | 125h6 | 125h6 | 580 | 100 | 87 | 90 | 77 | SP2-155×263 | M12 | 15 |
| K316 | 135H7 | 140H7 | 135h6 | 140h6 | 728 | 130 | 100 | 122 | 90 | SP2-175×300 | M16 | 22 |
| K318 | 155H7 | 160H7 | 155h6 | 160h6 | 790 | 130 | 105 | 119 | 95 | SP2-195×350 | M16 | 41 |



11.2 Involute spline

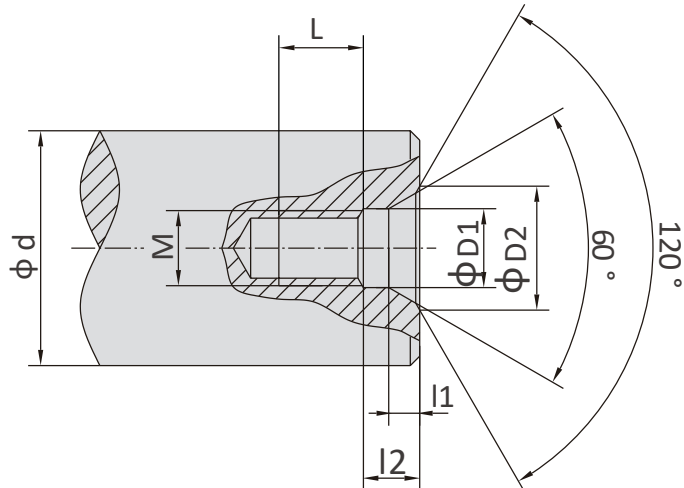
K



| Size | D5 | Dm | d9 | Me | W3 | W4 | W5 | S6 |
|------|-----|------|-----|--------|-----|-----|----|--------|
| K303 | 37 | 2.25 | 42 | 25.28 | 85 | 25 | 18 | M10×30 |
| K304 | 37 | 3.5 | 42 | 27.71 | 115 | 32 | 18 | M10×30 |
| K305 | 42 | 3.5 | 47 | 27.71 | 125 | 42 | 25 | M16×40 |
| K306 | 42 | 3.5 | 47 | 27.71 | 140 | 42 | 25 | M16×40 |
| K307 | 55 | 3.5 | 62 | 42.62 | 160 | 52 | 23 | M16×50 |
| K308 | 72 | 3.5 | 82 | 57.65 | 180 | 62 | 25 | M20×60 |
| K309 | 72 | 3.5 | 90 | 62.66 | 240 | 72 | 25 | M20×60 |
| K310 | 90 | 5.25 | 105 | 73.92 | 290 | 89 | 26 | M20×60 |
| K312 | 100 | 5.25 | 120 | 84.11 | 380 | 92 | 28 | M24×50 |
| K315 | 120 | 5.25 | 140 | 109.11 | 468 | 107 | 30 | M24×50 |
| K316 | 145 | 5.25 | 165 | 129.02 | 585 | 128 | 23 | M30×60 |
| K318 | 155 | 5.25 | 175 | 129.02 | 650 | 128 | 23 | M30×60 |

12 Shaft End Center Hole

Type C screw central hole in shaft end

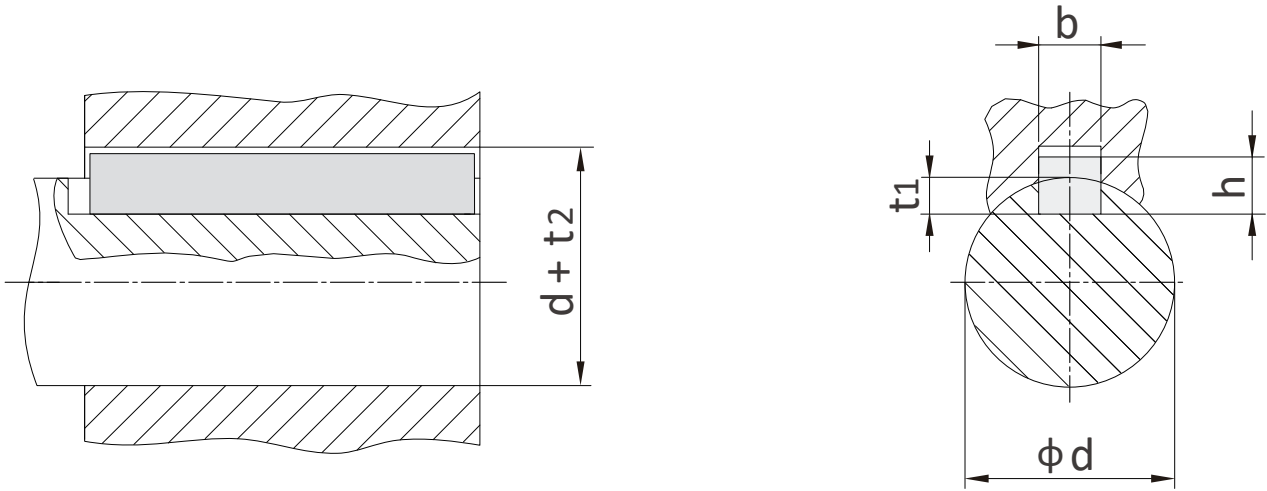


| d | M | L | l2 | l1 | D1 | D2 |
|-----------|-----|----|-----|-----|------|------|
| 7<d≤10 | M3 | 10 | 2.6 | 1.8 | 3.2 | 5.8 |
| 10<d≤13 | M4 | 10 | 3.2 | 2.1 | 4.3 | 7.4 |
| 13<d≤16 | M5 | 10 | 4 | 2.4 | 5.3 | 8.8 |
| 16<d≤21 | M6 | 12 | 5 | 2.8 | 6.4 | 10.5 |
| 21<d≤24 | M8 | 12 | 6 | 3.3 | 8.4 | 13.2 |
| 24<d≤30 | M10 | 15 | 7.5 | 3.8 | 10.5 | 16.3 |
| 30<d≤38 | M12 | 20 | 9.5 | 4.4 | 13 | 19.8 |
| 38<d≤50 | M16 | 25 | 12 | 5.2 | 17 | 25.3 |
| 50<d≤85 | M20 | 30 | 15 | 6.4 | 21 | 31.3 |
| 85<d≤130 | M24 | 35 | 18 | 8 | 25 | 38 |
| 130<d≤225 | M30 | 45 | 18 | 11 | 31 | 48 |



13 Dimension of Parallel Key and Keyway

K



| d | b | h | t ₁ | d + t ₂ |
|---------------|----|----|----------------|--------------------|
| 8 < d ≤ 10 | 3 | 3 | 1.8 | d + 1.4 |
| 10 < d ≤ 12 | 4 | 4 | 2.5 | d + 1.8 |
| 12 < d ≤ 17 | 5 | 5 | 3 | d + 2.3 |
| 17 < d ≤ 22 | 6 | 6 | 3.5 | d + 2.8 |
| 22 < d ≤ 30 | 8 | 7 | 4 | d + 3.3 |
| 30 < d ≤ 38 | 10 | 8 | 5 | d + 3.3 |
| 38 < d ≤ 44 | 12 | 8 | 5 | d + 3.3 |
| 44 < d ≤ 50 | 14 | 9 | 5.5 | d + 3.8 |
| 50 < d ≤ 58 | 16 | 10 | 6 | d + 4.3 |
| 58 < d ≤ 65 | 18 | 11 | 7 | d + 4.4 |
| 65 < d ≤ 75 | 20 | 12 | 7.5 | d + 4.9 |
| 75 < d ≤ 85 | 22 | 14 | 9 | d + 5.4 |
| 85 < d ≤ 95 | 25 | 14 | 9 | d + 5.4 |
| 95 < d ≤ 110 | 28 | 16 | 10 | d + 6.4 |
| 110 < d ≤ 130 | 32 | 18 | 11 | d + 7.4 |
| 130 < d ≤ 150 | 36 | 20 | 12 | d + 8.4 |
| 150 < d ≤ 170 | 40 | 22 | 13 | d + 9.4 |
| 170 < d ≤ 200 | 45 | 25 | 15 | d + 10.4 |
| 200 < d ≤ 230 | 50 | 28 | 17 | d + 11.4 |
| 230 < d ≤ 260 | 56 | 32 | 20 | d + 12.4 |

14 Oil (L)

| Size \ Mounting position | D1 | D2 | D3 | D4 | D5 | D6 |
|--------------------------|-----|------|------|------|------|------|
| K303 | 0.5 | 1.1 | 1.1 | 1.5 | 1 | 1 |
| K304 | 0.8 | 1.3 | 1.7 | 2.2 | 1.6 | 1.6 |
| K305 | 1 | 1.9 | 2.3 | 3 | 2.2 | 2.2 |
| K306 | 1.1 | 2.4 | 2.8 | 3.6 | 2.7 | 2.7 |
| K307 | 2.2 | 4.1 | 4.6 | 6 | 4.5 | 4.5 |
| K308 | 3.7 | 8.2 | 9 | 11.9 | 8.4 | 8.4 |
| K309 | 7 | 14.7 | 17.3 | 21.5 | 15.7 | 16.5 |
| K310 | 10 | 22 | 26 | 35 | 25 | 25 |
| K312 | 21 | 41.5 | 46 | 55 | 41 | 41 |
| K315 | 31 | 66 | 69 | 92 | 62 | 62 |
| K316 | 35 | 100 | 100 | 125 | 85 | 85 |
| K318 | 60 | 170 | 170 | 205 | 130 | 130 |

K

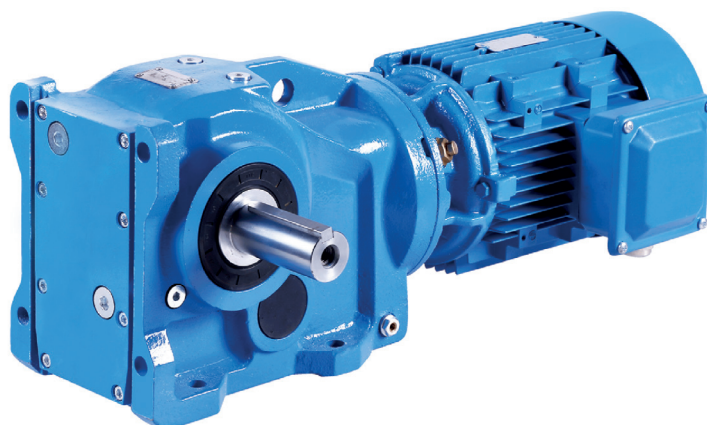


Note:

- The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. (The unmarked dimension units are mm).
- The marked weight is average value, it has no constraint force.

You must conform to the following instructions:

- To prevent accidents, all the rotation parts are added with protective covers according to the safety regulations of the nation and region.
- Before debugging, you should carefully read instruction book.
- Gearbox is on running-permission status when delivered, you should add lubrication oil before putting it into running.
- The marked oil quantity in sample is only reference value, actual oil filling quantity should be the same with the mark on oil immersion lens.
- Lubrication oil viscosity should be selected according to working situation and application environment temperature of gearmotor.
- You can only apply lubrication oil of internationally famous brand.





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