

# KEB Gear units & Motors 2020

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## Introduction

### Type designation

The type designation for geared motors describes the construction of the unit starting from the output side.

#### Gear unit

<b>K</b>	<b>4</b>	<b>3</b>	<b>C V</b>
Gear Type	Size	Number of stages	Options
G–Helical gear unit			A – Foot mounted version C – Flange mounted version E – Foot-flange mounted version
F–Shaft Mounted Helical Gear unit			A – Shaft mounted version B – Shaft mounted version C – Flange mounted version D – Shaft mounted version + side areas E – Flange mounted version + side areas S – Hollow shaft with shrink disc V – Output shaft with key Z – Splined hollow shaft G - Rubber elements
S–Helical worm gear unit  K–Helical bevel gear unit			A – Foot mounted version B – Shaft mounted version C – Flange mounted version D – Shaft mounted version + foot area E – Flange mounted version + foot area S – Hollow shaft with shrink disc V – Output shaft with key Z – Splined hollow shaft T1 – Torque arm

#### Double gearbox

<b>F43</b>	<b>G12</b>	<b>C V</b>
Gear unit 1	Gear unit 2	Options Gear unit 1

#### Gearbox input

-W2	Free input shaft, Size 2
-W3F	Free input shaft and Flange, Size 3
-M IEC112	adapter for IEC-motors, Frame size 112
-M NEMA180	adapter for Nema-motors, Frame size 180
-M S90/1	adapter for Servo-motors, Frame size 90/1

#### Three phase motor

<b>DM</b>	<b>90SB</b>	<b>4</b>	<b>F TW</b>
Range	Frame size	Number of poles	Options
			B - Brake B MB – Brake with hand release F - Forced ventilation I - Incremental encoder EAM – Absolute encoder multiturn TW – PTC thermistor sensor TS - Thermorelay (closed)

#### Servo motor

<b>TA</b>	<b>43</b>	<b>V30</b>	<b>ER TW</b>
Range	Frame size	Type of motor winding	Options
			BP.. - Brake ER – Resolver EN.. – Absolute encoder F - Forced ventilation TW – PTC thermistor sensor

Example

G23C DM80GB4 B TW

G12A –M IEC71

S32G12AV DM63K4

K43BT1 TA51 V30 ER TW

DM80G6

TA42 VD0 EN01 TW

F63 -W5

For full identification of geared motors, additional information has to be added to the type designation.

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## Product description

### Values of the selection tables

Pn	Nominal power of the motor
T2	Nominal output torque of the geared motor (Mounting position M1)
n1	Input speed of the gear unit
n2	Output speed of the gear unit related to the nominal speed of the motor or the given input speed of the gearbox
cG	Gear coefficient
i	Ratio of gear unit
is	Ratio of the worm gear stage
~kg	approximate weight of the geared motor at mounting position M1
T2max	Maximum permissible continuous output torque of the gear unit for cG=1
T1max	Maximum permissible continuous input torque of the gear unit or of the input component of the gear unit
P1max	Maximum permissible continuous input power of the gear unit for cG=1
Jg	Inertia Gear unit (applied to input shaft of gearbox)
Jad	Inertia Motor adapter
η	Efficiency

### Selection table Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			

## G52

31.19	45	1130	5.3
28.45	49	1120	5.8
26.17	53	1330	7.4

Please consider T2max and P1max of gearbox when combining the drive.  
For drives with motor adapter or free input shaft, additional consider T1max.

### Selection table Helical worm gear units

## S12

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η
168.00	1/40	20	151	0.49	0.66	17	156	0.43	0.64	10	168	0.30	0.59	8.3	171	0.26	0.57
143.53	1/40	24	146	0.54	0.67	20	152	0.47	0.65	12	164	0.33	0.61	9.8	168	0.29	0.59

With new helical-worm gear units the tooth flanks are not completely smoothed down. The efficiency is lower than after the running in process. For a two start worm the decrease is about 6%. The running-in process is essentially concluded after 24 hours. The rated efficiencies are achieved if:

- the gear unit has been run in completely,
- the gear unit has reached the nominal operating temperature,
- the recommended lubricant is used,
- the gear unit is working with rated load.

### Selection table Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	~kg
<b>3.0 kW</b>					
K63A DM100LE4					108
10	2840	0.90		144.48	
11	2580	1.00		130.99	
12	2350	1.10		119.50	

The selection table contains standard geared motors with

- Three phase motor DM/DA, 4 pole, Pn=0.12..45kW
- Ratio of gear unit i<500
- Gear coefficient cG<2.5 (DM63..DM80 cG<2.0)

Additional geared motors can be combined with help of corresponding selection table for gearboxes.

## Product description

### Efficiency of gearbox

The efficiency of the gear unit for helical gear units G, shaft mounted helical gear units F and helical bevel gear units K depends on the number of gear stages, 2-stage (0.96) and 3-stage (0.94).

The efficiency of helical worm gear units S depends on the ratio of the worm gear stage, the input speed into the gear unit and the temperature of the gear unit.

The efficiency of helical worm gear units S is shown in the selection table for gear units.

The efficiency of helical worm gear units S for back driving is significantly lower than the normal efficiency. In certain cases the worm gear unit can be self-locking.

At certain mounting positions the gearbox is completely filled with lubricant. At high input speed mixing losses can reduce the efficiency of the gear unit.

### Dimension sheet notes

If not stated differently in the dimension sheet, the following tolerances are used:

**Tolerance of shaft height** <250mm: -0.5mm >250mm: -1mm

**Tolerance of shaft diameter** ≤50mm: ISO k6 >50mm: ISO m6

**Flanges - Tolerance of spigot** ≤230mm: ISO j6 >230mm: ISO h6

### Coating and Corrosion Protection

execution	is oriented towards corrosivity category (EN ISO 12944)	typical ambient conditions	Example
<b>normal</b> indoor installation	C1 - insignificant	Inside of buildings, neutral atmosphere	Transport systems in factories, Logistic areas, Tool or textile machines
<b>P1</b> Outdoor installation, Covered	C2 - low	Outdoor installation with low contamination, e.g. with roof, Not heated buildings with possible condensation	Sawmills, Trimming lines, Agitators
<b>P2</b> Outdoor installation	C3 - moderate	Environments with high humidity and moderate contamination, Outdoor installations with direct weathering	Facade cleaning systems, Cableways, Gravel plants
<b>P3</b> Outdoor installation, Wet conditions	C4 - strong	Environments with high humidity and occasional severe atmospheric or chemical contamination	Wastewater treatment plants, Mining equipment

- 1) Standard color RAL7031 bluegrey  
Different colors on request.

For the operation of the geared motors under corrosive environment the following additional options are available:

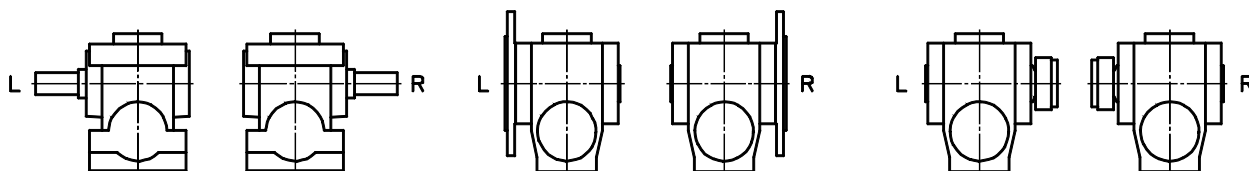
Dust- and water protection IP65 for normal and braked motors

Output shaft / hollow shaft from stainless steel

Viton seals

### Mounting face

For helical-worm and helical bevel geared motors with flange, with solid shaft or with shrink disk the position of mounting face has to be specified.



Example: Mounting face R

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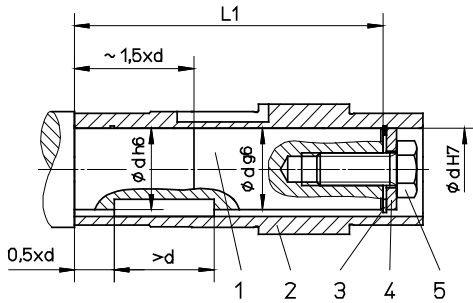
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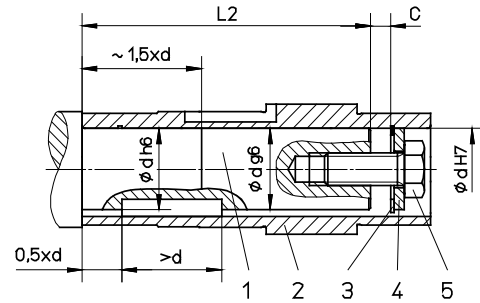
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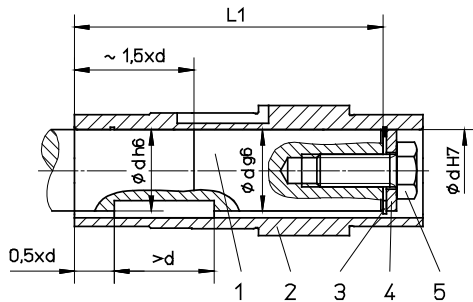
## Assembly / Disassembly notes when using gear units with hollow shaft



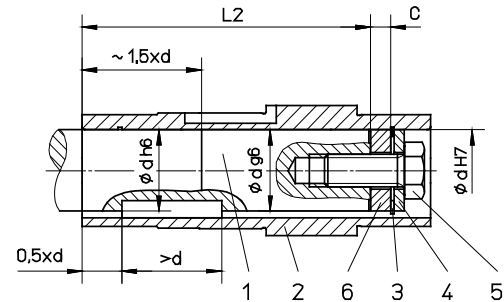
Assembly on shaft with shoulder  
Length of customers shaft: L1-1mm



Assembly on shaft with shoulder  
Disassembly with turn safe nut possible  
Length of customers shaft: L2



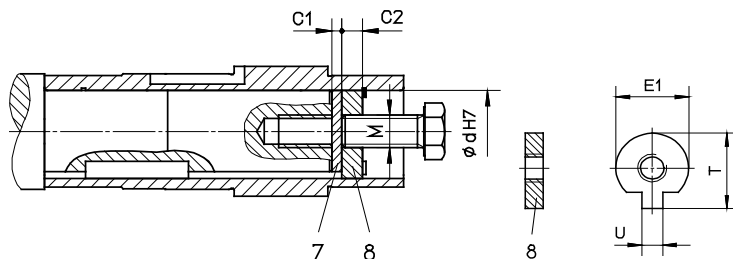
Assembly on shaft without shoulder  
Length of customers shaft: L1



Assembly on shaft without shoulder  
Disassembly with turn safe nut possible  
Length of customers shaft: L2

Gear unit	d	L1	L2	C	C1	C2	E1	M	T	U
S0	20	76	64	12	5	6	19.7	M6	22.5	5.5
K0	20	91	79	12	5	6	19.7	M6	22.5	5.5
S1, F2, K1, K2	25	105	89	16	5	10	24.7	M10	28	7.5
S2, F3, K3	30	132	116	16	5	10	29.7	M10	33	7.5
S2, F3, K3	35	132	116	16	5	10	34.7	M12	38	9.5
S3, F4, K4	40	155	137	18	5	12	39.7	M16	43	11.5
S4, F5, K5	50	185	167	18	5	12	49.7	M16	53.5	13.5
F6, K6	60	210	188	22	5	16	59.7	M20	64	17.5
F7, K7	70	270	248	22	5	16	69.7	M20	74.5	19.5
F8, K8	90	315	289	26	5	20	89.7	M24	95	24.5
K9	100	375	349	26	5	20	99.7	M24	106	27.5

- 1 Customer's shaft
- 2 Hollow shaft
- 3 Circlip DIN472
- 4 Washer
- 5 Screw DIN933
- 6 Spacer
- 7 Washer
- 8 Nut with tang



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## Drive selection

### Selection conditions

The following conditions must be considered in the selection of the geared motor:

$T2 \geq TA$	T2	[Nm]	Torque of geared motor (see selection table)
$cG \geq fB$	TA	[Nm]	Counter-torque of driven machine
	cG		Gear coefficient (see selection table)
	fB		Application factor of driven machine

Further, the selection of the gearmotor is influenced by the following factors:

- Duty cycle of the motor
- Application of forces on the output shaft
- Ambient temperature and altitude
- Environment conditions

Please consult the manufacturer in the case of complicated drive applications.

### Application factor fB

The service factor of the driven machine is given from the shock grade, the average operating time / day and the number of switches per hour. The shock grade is given from the mass acceleration factor of the driven machine.

$$FJ = \frac{J_{red}}{J_{mot}}$$

FJ	Mass acceleration factor
J <sub>red</sub>	All external inertias corrected to motor input
J <sub>mot</sub>	Inertia (Motor)

Shock grade	FJ	Operating time hours/day		Operations per hour		
		< 10	10 ... 100	100 ... 200	> 200	
I - uniform	0 ... 0.2	< 8	0.8	1.0	1.2	1.3
		8 ... 16	1.0	1.2	1.3	1.4
		16 ... 24	1.2	1.3	1.4	1.5
II - moderate shocks	0.2 ... 3	< 8	1.1	1.3	1.4	1.5
		8 ... 16	1.3	1.4	1.5	1.7
		16 ... 24	1.5	1.6	1.7	1.8
III - severe shocks	3 ... 10	< 8	1.4	1.6	1.7	1.8
		8 ... 16	1.6	1.7	1.8	2.0
		16 ... 24	1.8	1.9	2.0	2.1

### Radial force on gear output shaft

$$F_R = \frac{M_{ab} \cdot 2000}{d_0} \cdot f_z$$

Transmission element	f <sub>z</sub>	Remarks	F <sub>R</sub>	[N]	Radial force on gear output shaft
Gears	1.1	< 17 teeth	M <sub>ab</sub>	[Nm]	Torque of geared motor (see selection table)
Sprockets	1.4	< 13 teeth	d <sub>0</sub>	[mm]	Effective diameter of fitted drive element
V-belt pulleys	1.7	Influence of initial pretensioning force	f <sub>z</sub>		Incremental factor (see table)
Flat belt pulleys	2.5	Influence of initial pretensioning force			

The radial force determined must not exceed the permissible radial force for the gear unit.

### Permissible Radial Forces for the Output Shaft

If there are radial loads on the output shaft, they should be compared with the permissible values for radial forces.

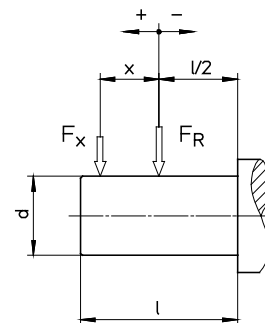
The values in the table for the permissible radial forces apply under the following conditions

gear unit with solid output shaft, normal shaft ends

constant load in continuous operation

radial load on the middle of the output shaft in the case of worst load direction

- no axial forces



If the radial force is not applied to the middle of the shaft, use the following formula for the conversion of the permissible radial force:

$$F_{Rx1} = F_{R1} \cdot \frac{1}{1 + \frac{x}{K_1}}$$

$$F_{Rx2} = F_{R2} \cdot \frac{1}{1 + \frac{x}{K_2}}$$

$$F_{Rxp} = \min(F_{Rx1}, F_{Rx2})$$

- $F_{R1}$  [N] permissible radial force for bearing lifetime application at middle of output shaft (table)
- $F_{R2}$  [N] permissible radial force for shaft strength application at middle of output shaft (table)
- $K_1, K_2$  [mm] Constant (table)
- $x$  [mm] Distance (subject to sign, see sketch)
- $F_{Rx1}$  [N] permissible radial force for bearing lifetime application at point  $x$
- $F_{Rx2}$  [N] permissible radial force for shaft strength application at point  $x$
- $F_{Rxp}$  [N] total value of permissible radial force application at point  $x$

Gear unit	Output shaft d <sub>xl</sub> [mm]	K1 [mm]	K2 [mm]	FR2 [N]	FR1 [N]							
					<16 1/min	<25 1/min	<40 1/min	<63 1/min	<100 1/min	<160 1/min	<250 1/min	<400 1/min
G0	20x40	81.5	32.5	2540	2850	2430	1950	1630	1460	1200	1080	950
G1	20x40	90	20	4030	4450	3600	3040	2420	2020	1770	1600	1440
G2	25x50	110.5	25	5900	6000	4920	4180	3410	2860	2440	2240	2040
G3	30x60	132	30	7050	10400	8650	7100	5800	4700	4300	3900	3550
G3	35x70	137	54.5	6760	10000	8330	6840	5600	4530	4140	3760	3420
G4	40x80	159	60.5	11500	16500	13600	11300	9400	7950	6650	6050	5500
G5	50x100	191.5	73.5	17600	21200	17900	14700	12800	10200	9000	8150	7450
G6	60x120	218.5	83.5	24000	27400	22500	19200	16300	14000	12600	11400	10300
G7	75x140	287	97.5	30700	36100	31900	22200	20700	19600	18200	16300	14700
G8	90x170	347.5	117	50000	101000	84500	70000	62000	60500	56000	51000	
G9	110x210	410	140	63000	179000	150000	128000	119000	112000	100000	89000	
F2	25x50	131	25	5830	6250	5300	4100	3450	3250	3050	2700	2350
F3	30x60	161	30	8000	9600	8050	6250	5150	4350	4250	3900	3600
F3	35x70	166	80	7960	9300	7800	6050	5000	4200	4150	3800	3500
F4	40x80	193.5	40	12700	10100	8000	6250	5800	3900	4200	4000	3800
F5	50x100	234.5	50	18200	15100	12100	9350	7300	5500	5750	5850	5650
F6	60x120	256	60	26200	15700	12800	9350	7750	5350	6550	6700	6700
F7	75x140	313	70	41700	50300	41600	34200	29600	28600	27200	24900	22800
F8	90x170	372.5	85	61000	64700	55700	45500	40500	39700	36700	33600	
S02A	20x40	91	20	4030	5370	4410	3750	3100	2380	2080	1910	
S02C	20x40	109	20	4030	4490	3680	3130	2590	1980	1740	1590	
S1	25x50	128	25	5830	6400	5470	4170	3430	2510	2470	2230	
S2	30x60	161	30	8000	10500	8060	6700	5730	3170	3530	3230	
S2	35x70	166	80	7960	10200	7820	6500	5560	3080	3430	3130	
S3	40x80	193.5	40	12700	11800	10400	7950	6150	5450	5200	5000	
S4	50x100	234.5	50	18200	16900	15100	10500	8900	8250	7950	7650	
K0D	20x40	105.5	20	4180	4690	3870	3230	2710	2500	1850	1690	1550
K0E	20x40	124	20	4180	3990	3300	2740	2300	2130	1580	1430	1320
K1D	25x50	124	25	6020	6020	4960	4230	3380	2530	2220	2030	1950
K1E	25x50	144	25	6020	5180	4270	3640	2910	2180	1910	1750	1680
K2	25x50	131	25	5830	6200	5200	4300	3350	3100	2820	2600	2530
K3	30x60	161	30	8000	9650	7800	6600	5150	4050	3800	3750	3650
K3	35x70	166	80	7960	9350	7550	6400	5000	3900	3700	3650	3550
K4	40x80	193.5	40	12700	10500	8200	6400	4700	3950	3750	3600	3600
K5	50x100	234.5	50	18200	15200	12100	9400	7800	4900	5050	5350	5350
K6	60x120	256	60	26200	15800	12100	8500	5800	4700	5100	5750	
K7	75x140	313	70	41700	49100	42600	36700	33200	27200	25400	24500	
K8	90x170	372.5	85	61000	65700	55200	46700	41000	38900	35600	34900	
K9	110x210	444.5	105	77300	87200	73300	62800	57300	55100	49300	48100	

The radial force determined from the application must not exceed the permissible radial force for the gear unit.

In certain conditions, the gear unit is able to accept higher radial forces.

If no radial force is applied, the permissible axial force for the gear unit is 50% of the calculated permissible radial force.

If the radial forces found for a special drive application are higher than the values in the table, or if radial and axial forces are acting at the same time, consultation with the manufacturer is necessary.

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## Mounting position

### Helical gear units G

M1

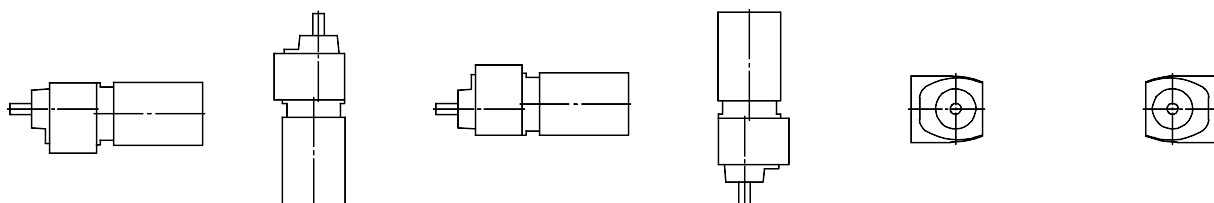
M2

M3

M4

M5

M6



### Shaft mounted helical gear units F

M1

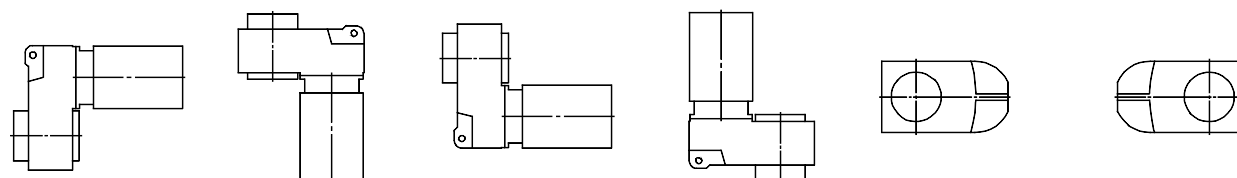
M2

M3

M4

M5

M6



### Helical worm gear units S

M1

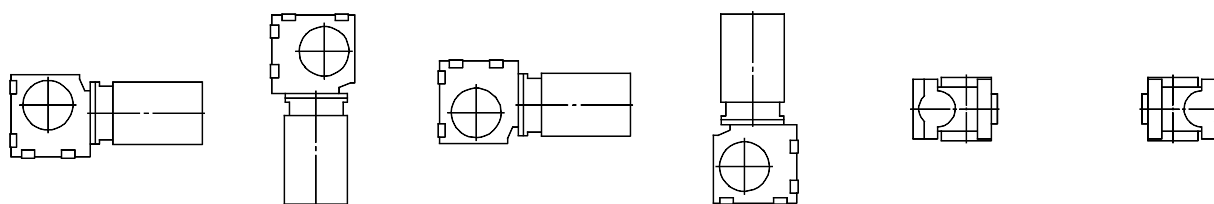
M2

M3

M4

M5

M6



### Helical bevel gear units K

M1

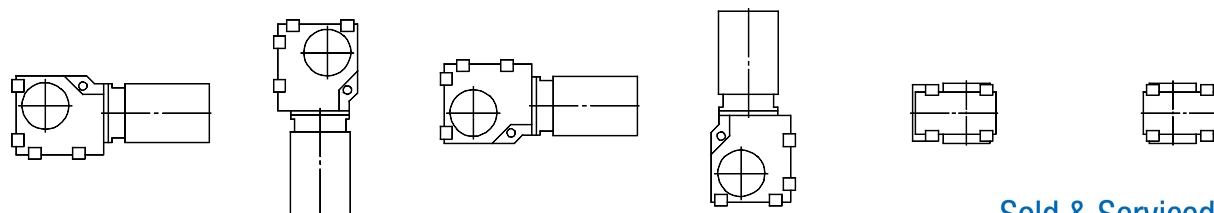
M2

M3

M4

M5

M6



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## Lubrication

The geared motors are supplied oil filled for the mounting position and ambient temperature of the order.  
If the gear unit is to be used in a different mounting position as given on the nameplate, the quantity of lubricant has to be adjusted.

Type of lubricant	Designation	Gear unit	Area of use	
			$\theta$ [°C]	1)    2)
Mineraloil	CLP VG220	G,F,K	-10... +40	O    O
		S	-20... +20	O    O
	CLP VG680	S	0... +40	O    O
Synthetic oil – PG	CLP PG VG460	G,F,K	-20... +80	+    +
		S	-20... +80	++    +
Synthetic oil – HC	CLP HC VG220	G,F,K,S	-40... +60	+    ++
Synthetic oil Food grade	CLP HC VG220 USDA-H1	G,F,K,S	-20... +40	+    +

$\theta$  Ambient temperature

1) Load capacity

2) Resistance to ageing

O=normal, +=high, ++=very high

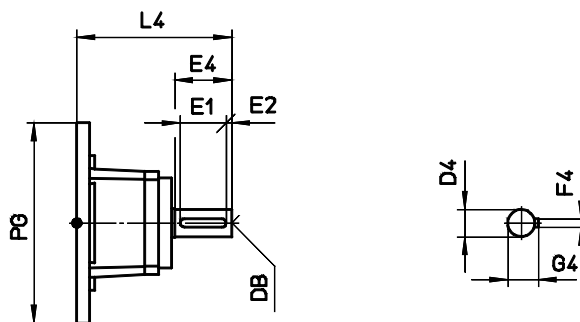
O=normal, +=high, ++=very high

### Quantities of lubricant [l]

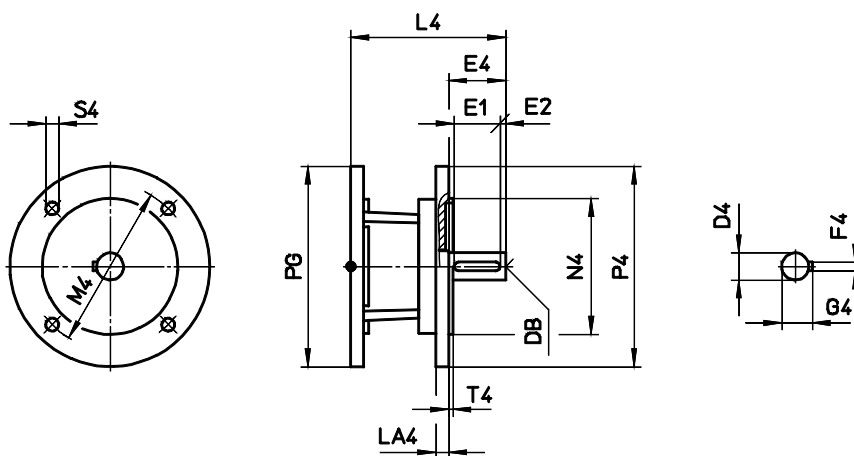
Mounting position	M1	M2	M3	M4	M5	M6
<b>Gear unit</b>						
<b>G0</b>	0.15	0.4	0.3	0.35	0.25	0.25
<b>G1</b>	0.15	0.65	0.55	0.65	0.4	0.4
<b>G2</b>	0.25	0.95	0.7	0.85	0.55	0.55
<b>G3</b>	0.35	1.6	1.2	1.6	0.9	0.9
<b>G4</b>	0.5	2.7	1.9	2.6	1.7	1.7
<b>G5</b>	1.1	5.2	4.1	4.8	3.1	3.1
<b>G6</b>	1.9	8.8	8.1	8.2	7.0	7.0
<b>G7</b>	3.0	14.5	13.4	12.7	12.2	12.2
<b>G8</b>	4.8	23.2	22.2	21.5	21.0	21.0
<b>G9</b>	8.1	38.2	28.5	37.0	22.0	20.7
<b>F2</b>	0.75	1.1	0.6	1.0	0.7	0.65
<b>F3</b>	1.5	2.1	1.2	1.7	1.4	1.3
<b>F4</b>	2.7	3.5	1.9	3.0	2.3	2.1
<b>F5</b>	4.6	6.4	3.6	5.9	4.1	4.0
<b>F6</b>	7.6	11.5	6.2	10.4	7.7	6.2
<b>F7</b>	11.4	18.0	9.8	16.6	10.8	10.5
<b>F8</b>	19.9	30.1	17.4	29.8	17.4	17.1
<b>K0</b>	0.1	0.4	0.3	0.55	0.35	0.3
<b>K1</b>	0.2	0.6	0.4	0.95	0.55	0.5
<b>K2</b>	0.3	0.7	0.8	1.0	0.75	0.75
<b>K3</b>	0.55	1.1	1.3	1.9	1.4	1.4
<b>K4</b>	1.0	1.8	2.9	3.2	2.5	2.5
<b>K5</b>	1.9	3.4	5	6.5	4.6	4.6
<b>K6</b>	3.1	5.7	7.6	10.5	7.1	7.1
<b>K7</b>	4.7	9.7	11.3	18.5	13.1	13.1
<b>K8</b>	7.5	14.5	18.0	28.0	20.5	20.5
<b>K9</b>	12.0	22.6	30.7	46.7	35.8	35.8
<b>S0</b>	0.1	0.35	0.25	0.35	0.25	0.25
<b>S1</b>	0.25	0.7	0.45	0.85	0.55	0.55
<b>S2</b>	0.5	1.2	0.85	1.7	1.0	1.0
<b>S3</b>	0.8	2.0	1.6	3.0	1.8	1.8
<b>S4</b>	1.4	3.5	2.8	5.1	3.0	3.0

Free input shaft -W

-W

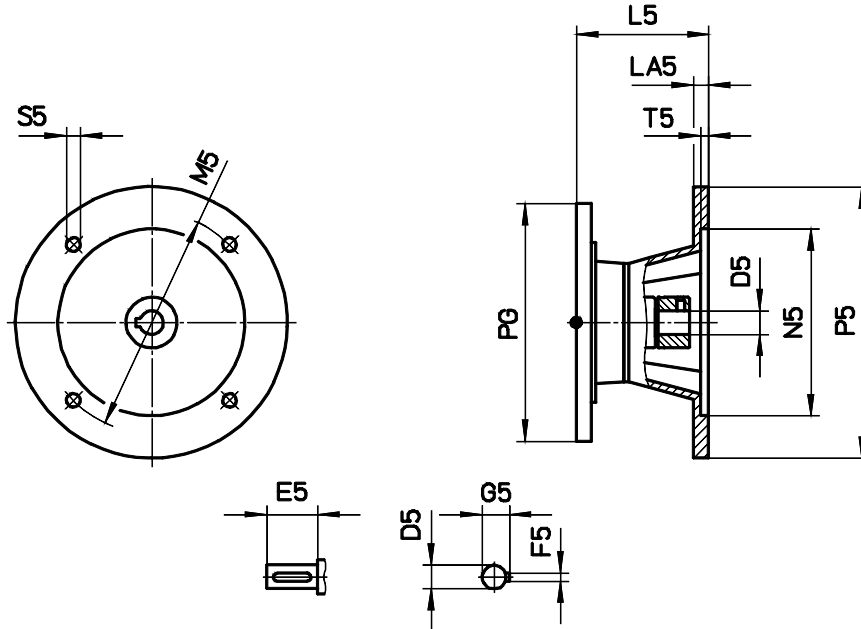


-WF



Adapter	-W1	-W2	-W3	-W4	-W5	-W6		
T1max [Nm]	4	12	30	60	180	300		
D4	14	19	28	38	48	55		
DB	M5	M6	M10	M12	M16	M20		
E1	22	32	50	70	100	100		
E2	4	4	5	5	5	5		
E4	30	40	60	80	110	110		
F4	5	6	8	10	14	16		
G4	16	21.5	31	41	51.5	59		
LA4	8	9	9	10	12	13		
M4	100	115	130	165	265	300		
N4	80	95	110	130	230	250		
P4	120	140	160	200	300	350		
S4	6.6	9	9	11	14	17.5		
T4	3	3	3.5	3.5	4	5		
							PG	Gear unit
L4	79.5						105	G0, S0, K0
	78.5	113.5					120	G1, S1, F2, K1, K2
	75.5	108.5	153.5				140	G2, S2, F3, K3
	75	110	154	192.5			160	G3, S3, F4, K4
	71.5	106.5	149.5	189			200	G4, S4, F5, K5
		101.5	146	185.5	243.5		250	G5, F6, K6
			139	178.5	237.5	259	300	G6, F7, K7
			132	170.5	230	253.5	350	G7, F8, K8
				154	215	236.5	400	G8, K9
					224	450	G9	

### Motor adapter -M IEC



Adapter -M	IEC63	IEC71	IEC80	IEC90	IEC100	IEC112	IEC132	IEC160	IEC180	IEC200	IEC225			
T1max [Nm]	4	4	8	12	21	30	60	120	180	300	300			
Jad [kgcm <sup>2</sup> ]	0.1	0.1	0.69	0.69	2.3	2.3	7.7	54.3	54.3	128	128			
D5	11	14	19	24	28	28	38	42	48	55	60			
E5	23	30	40	50	60	60	80	110	110	110	140			
F5	4	5	6	8	8	8	10	12	14	16	18			
G5	12.5	16	21.5	27	31	31	41	45	51.5	59	64			
LA5	12	12	15	15	18	18	18	24	24	26	26			
M5	115	130	165	165	215	215	265	300	300	350	400			
N5	95	110	130	130	180	180	230	250	250	300	350			
P5	140	160	200	200	250	250	300	350	350	400	450			
S5	M8	M8	M10	M10	M12	M12	M12	M16	M16	M16	M16			
T5	4	4.5	4.5	4.5	5	5	5	6	6	14	14	PG	Gear unit	
L5		75	82									105	G0, S0, K0	
		74	81	118	128							120	G1, S1, F2, K1, K2	
		71	78	113	123	156.5	156.5					140	G2, S2, F3, K3	
		70.5	77.5	114.5	124.5	157	157	196				160	G3, S3, F4, K4	
		67	74	111	121	152.5	152.5	192.5				200	G4, S4, F5, K5	
				106	116	149	149	189	249	249		250	G5, F6, K6	
						142	142	182	243	243		300	G6, F7, K7	
						135	135	174	235.5	235.5	221	221	350	G7, F8, K8
								157.5	223.5	223.5	204	204	400	G8, K9
											191.5	191.5	450	G9

Sold & Serviced By:

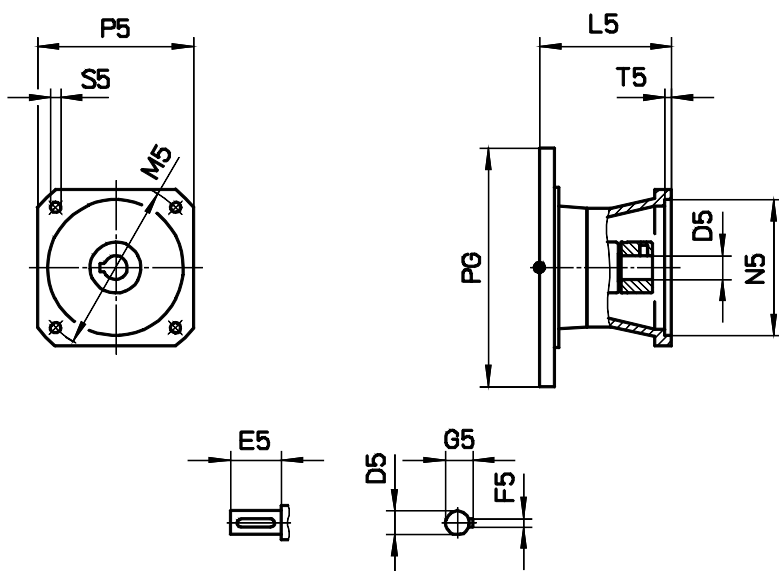


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## Motor adapter -M S



Adapter -M	S70/1	S70/2	S90/1	S90/2	S110/1	S110/2	S140/1	S140/2	S140/3	S190/1	S190/2	S190/6	
T1max [Nm]	4	4	8	8	12	12	30	30	30	60	60	60	
Jad [kgcm <sup>2</sup> ]	0.1	0.1	0.69	0.69	0.69	0.69	2.3	2.3	2.3	7.7	7.7	7.7	
D5	11	14	14	19	19	19	24	24	28	32	32	38	
E5	23	30	30	40	40	40	50	50	60	58	58	80	
F5	4	5	5	6	6	6	8	8	8	10	10	10	
G5	12.5	16	16	21.5	21.5	21.5	27	27	31	35	35	41	
M5	75	75	100	100	115	130	165	130	165	215	165	215	
N5	60	60	80	80	95	95	130	110	130	180	130	180	
P5	70	70	92	92	110	110	140	140	140	190	190	190	
S5	M5	M5	M6	M6	M8	M8	M10	M8	M10	M12	M10	M12	
T5	3.5	3.5	4	4	4	4	4.5	4.5	4.5	5	4.5	5	
L5	75	82											PG Gear unit
	74	81	108	118	118	118							105 G0, S0, K0
	71	78	103	113	113	113	146.5	146.5	156.5				120 G1, S1, F2, K1, K2
	70.5	77.5	104.5	114.5	114.5	114.5	147	147	157	174	174	196	140 G2, S2, F3, K3
	67	74	101	111	111	111	142.5	142.5	152.5	170.5	170.5	192.5	160 G3, S3, F4, K4
			96	106	106	106	139	139	149	167	167	189	200 G4, S4, F5, K5
							132	132	142	160	160	182	250 G5, F6, K6
							125	125	135	152	152	174	300 G6, F7, K7
									135.5	135.5	157.5	350 G7, F8, K8	
												400 G8, K9	

Sold & Serviced By:

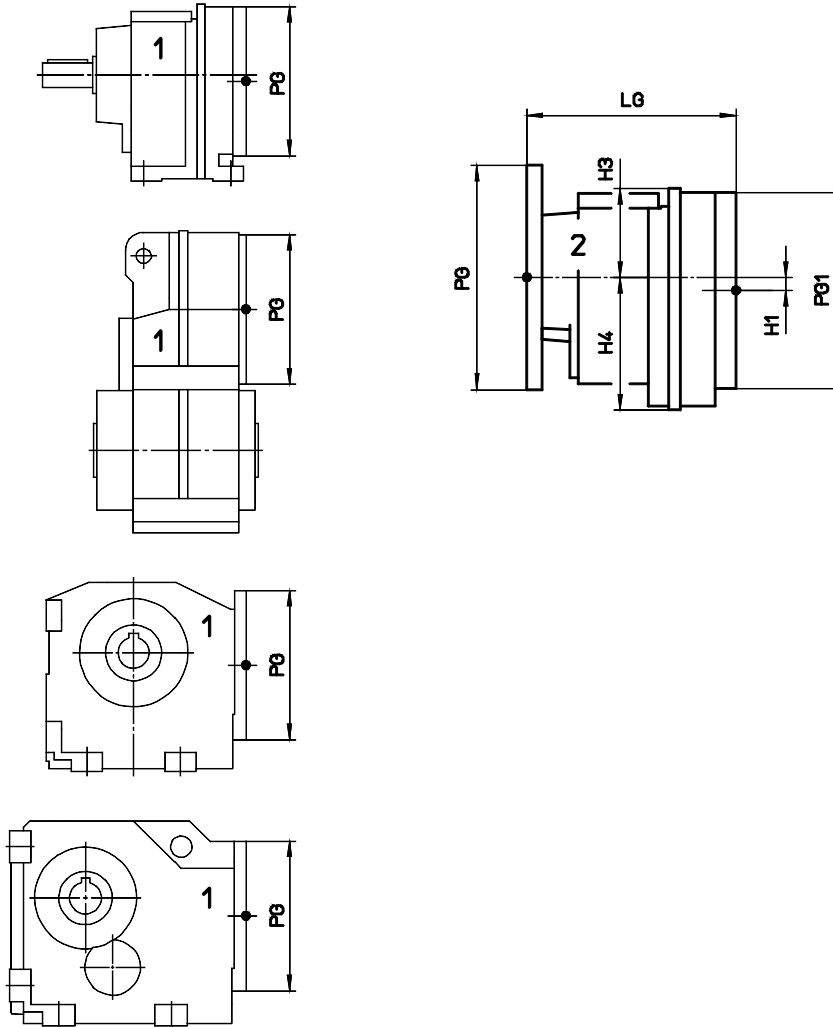
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## Double gearbox - Dimensions



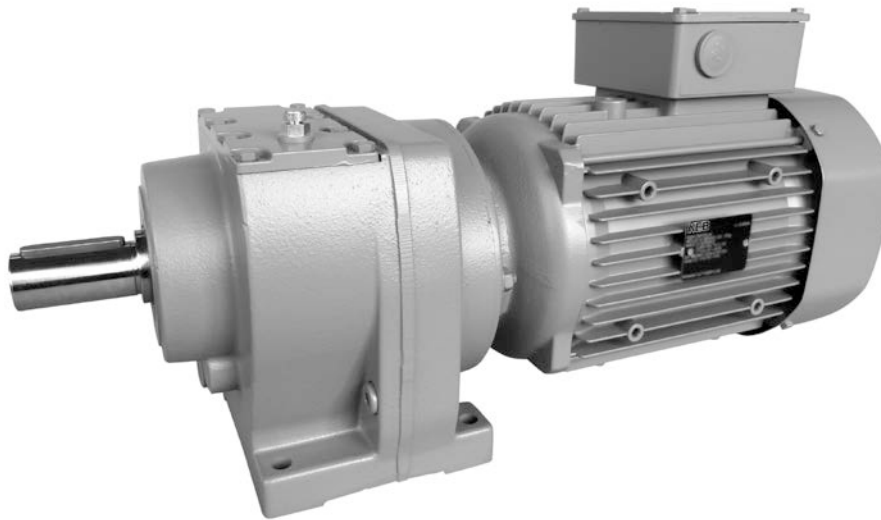
Gear unit 1	Gear unit 2	H1	H3	H4	LG	PG	PG1
G1, S1, F2, K1, K2	G0	7	47.5	71	111.5	120	105
G2, S2, F3, K3	G1	5	57.5	85	123	140	120
G3, S3, F4, K4	G1	5	57.5	85	123	160	120
G4, S4, F5, K5	G2	11	62.5	100.5	145	200	140
G5, F6, K6	G2	11	62.5	100.5	142.5	250	140
G6, F7, K7	G3	11	72.5	120	173	300	160
G7, K8, F8	G3	11	72.5	120	168	350	160
G8, K9	G4	16	88	144.5	201	400	200
G9	G4	16	88	144.5	189	450	200

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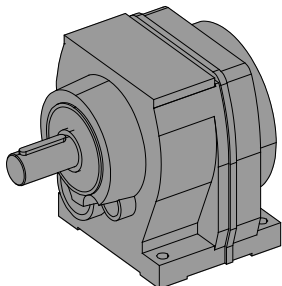
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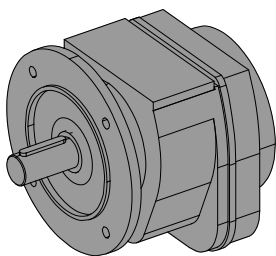
## Helical gear units G



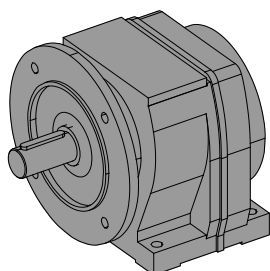
### Type of construction



Foot mounted version  
Example: G02A



Flange mounted version  
Example: G33C



Foot-flange mounted version  
Example: G22E

### Selection table - Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>G03</b>			
72.52	19	60	0.12
61.26	23	60	0.14
52.38	27	60	0.17
45.19	31	60	0.19
39.24	36	60	0.22
34.25	41	60	0.26
29.57	47	60	0.30
25.51	55	60	0.34
22.15	63	60	0.40
19.33	72	60	0.45

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G02</b>			
16.97	82	60	0.52
14.34	98	60	0.61
12.26	114	60	0.72
10.58	132	60	0.83
9.18	152	60	0.96
8.02	175	60	1.10
7.02	199	60	1.25
6.04	232	59	1.30
5.21	269	56	1.30
4.52	310	53	1.30
3.95	355	49	1.30
3.46	405	47	1.30

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G13G03</b>			
6085.3	0.23	117	<0.05
5140.9	0.27	117	<0.05
4395.3	0.32	117	<0.05
3791.8	0.37	117	<0.05
3293.2	0.43	117	<0.05
2874.3	0.49	117	<0.05
2481.0	0.56	117	<0.05
2140.3	0.65	117	<0.05
1858.8	0.75	117	<0.05
1622.4	0.86	117	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G13G02</b>			
1424.2	0.98	117	<0.05
1203.2	1.2	117	<0.05
1028.7	1.4	117	<0.05
887.43	1.6	117	<0.05
770.74	1.8	117	<0.05
672.72	2.1	117	<0.05
589.22	2.4	117	<0.05
506.43	2.8	117	<0.05
436.89	3.2	117	<0.05
379.44	3.7	117	<0.05
331.18	4.2	117	0.05
290.08	4.8	117	0.06
251.28	5.6	117	0.07
219.23	6.4	117	0.08
192.31	7.3	117	0.09
169.38	8.3	117	0.10
145.94	9.6	117	0.12
127.83	11	117	0.13

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>G13</b>			
115.34	12	117	0.15
97.78	14	117	0.18
83.91	17	117	0.20
72.69	19	117	0.24
63.42	22	117	0.27
55.63	25	117	0.31
49.00	29	117	0.35
43.09	32	117	0.40
36.98	38	117	0.46
32.03	44	117	0.54
27.95	50	117	0.61
24.52	57	117	0.70
21.59	65	117	0.79

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G12</b>			
24.88	56	117	0.69
21.25	66	117	0.81
18.39	76	117	0.93
16.08	87	117	1.07
14.16	99	117	1.21
12.56	111	117	1.37
11.19	125	117	1.53
10.04	139	112	1.63
8.77	160	106	1.77
7.68	182	100	1.91
7.06	198	97	2.01
6.22	225	92	2.17
5.51	254	87	2.31
4.91	285	83	2.48
4.41	318	79	2.60
3.85	364	74	2.60
3.37	415	69	2.60

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G22G13</b>			
1960.4	0.71	235	<0.05
1661.9	0.84	235	<0.05
1426.3	0.98	235	<0.05
1235.5	1.1	235	<0.05
1078.0	1.3	235	<0.05
945.59	1.5	235	<0.05
832.84	1.7	235	<0.05
732.34	1.9	235	<0.05
628.51	2.2	235	0.05
544.45	2.6	235	0.06
475.02	2.9	235	0.07

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G22G12</b>			
422.82	3.3	235	0.08
361.24	3.9	235	0.09
312.61	4.5	235	0.11
273.25	5.1	235	0.13
240.74	5.8	235	0.14
213.43	6.6	235	0.16
190.16	7.4	235	0.18
170.71	8.2	235	0.20

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>G23</b>			
153.41	9.1	235	0.22
131.06	11	235	0.26
113.42	12	235	0.30
99.14	14	235	0.34
87.34	16	235	0.39
77.43	18	235	0.44
69.48	20	235	0.49
60.74	23	235	0.56
53.51	26	235	0.64
47.44	30	235	0.72
41.53	34	235	0.82
36.59	38	235	0.93
32.44	43	235	1.05
28.90	48	235	1.18
25.95	54	235	1.32
22.65	62	230	1.49
19.83	71	235	1.72

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G22</b>			
29.22	48	235	1.17
25.09	56	235	1.36
21.82	64	235	1.57
19.18	73	235	1.78
17.00	82	235	2.01
15.16	92	235	2.25
13.60	103	235	2.51
12.36	113	235	2.76
10.90	128	235	3.13
9.65	145	230	3.49
8.64	162	220	3.73
7.52	186	210	4.10
7.04	199	167	3.48
6.31	222	164	3.81
5.74	244	197	5.0
5.06	277	183	5.2
4.48	312	169	5.2
4.01	349	157	5.2
3.49	401	142	5.2

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G23G13</b>			
10074	0.14	235	<0.05
8540.3	0.16	235	<0.05
7329.5	0.19	235	<0.05
6349.2	0.22	235	<0.05
5539.5	0.25	235	<0.05
4859.3	0.29	235	<0.05
4279.9	0.33	235	<0.05
3763.4	0.37	235	<0.05
3229.8	0.43	235	<0.05
2797.9	0.50	235	<0.05
2441.1	0.57	235	<0.05
2164.1	0.65	235	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>G33G13</b>			
11893	0.12	480	<0.05
10082	0.14	480	<0.05
8652.7	0.16	480	<0.05
7495.5	0.19	480	<0.05
6539.6	0.21	480	<0.05
5736.6	0.24	480	<0.05
5052.5	0.28	480	<0.05
4442.9	0.32	480	<0.05
3813.0	0.37	480	<0.05
3303.0	0.42	480	<0.05
2881.8	0.49	480	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G33G12</b>			
2565.1	0.55	480	<0.05
2191.5	0.64	480	<0.05
1896.5	0.74	480	<0.05
1657.7	0.84	480	<0.05
1460.5	0.96	480	<0.05
1294.8	1.1	480	0.05
1153.6	1.2	480	0.06
1035.6	1.4	480	0.07
903.90	1.5	480	0.08
791.71	1.8	480	0.09
727.68	1.9	480	0.10
641.09	2.2	480	0.11
568.36	2.5	480	0.12
506.40	2.8	480	0.14
454.59	3.1	480	0.16
396.78	3.5	480	0.18
347.53	4.0	480	0.20
310.04	4.5	480	0.23
278.10	5.0	480	0.25
252.75	5.5	480	0.28
222.84	6.3	480	0.32
197.36	7.1	480	0.36

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G33</b>			
177.27	7.9	480	0.40
152.19	9.2	480	0.46
132.39	11	480	0.53
116.36	12	480	0.61
103.11	14	480	0.69
91.99	15	480	0.77
82.51	17	480	0.86
74.99	19	480	0.94
66.12	21	480	1.07
58.56	24	480	1.21
51.70	27	480	1.37
45.82	31	480	1.54
40.87	34	480	1.73
36.66	38	475	1.90
33.32	42	460	2.02
29.38	48	440	2.20
26.02	54	420	2.37
23.28	60	405	2.55
20.27	69	385	2.79

## Selection table - Gear units

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>G32</b>			
25.67	55	480	2.75
22.92	61	480	3.08
20.61	68	480	3.43
18.65	75	480	3.79
17.00	82	480	4.16
15.16	92	480	4.66
13.60	103	480	5.2
12.34	113	480	5.7
10.93	128	470	6.3
9.92	141	285	4.18
9.63	145	440	6.7
8.43	166	415	7.0
7.40	189	390	7.0
7.30	192	330	6.6
6.54	214	320	7.0
5.94	236	325	7.0
5.26	266	305	7.0
4.63	302	290	7.0
4.06	345	275	7.0
3.56	393	260	7.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G43G23</b>			
12756	0.11	875	<0.05
10898	0.13	875	<0.05
9431.2	0.15	875	<0.05
8243.8	0.17	875	<0.05
7262.8	0.19	875	<0.05
6438.8	0.22	875	<0.05
5777.7	0.24	875	<0.05
5050.2	0.28	875	<0.05
4449.3	0.31	875	<0.05
3944.5	0.35	875	<0.05
3453.5	0.41	875	<0.05
3042.5	0.46	875	<0.05
2697.3	0.52	875	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G43G22</b>			
2429.7	0.58	875	0.05
2085.9	0.67	875	0.06
1814.5	0.77	875	0.07
1594.8	0.88	875	0.08
1413.3	0.99	875	0.09
1260.8	1.1	875	0.10
1131.0	1.2	875	0.11
1027.9	1.4	875	0.12
906.23	1.5	875	0.14
802.62	1.7	875	0.16
719.94	1.9	875	0.18
653.17	2.1	875	0.20
585.39	2.4	875	0.22
525.09	2.7	875	0.24
477.22	2.9	875	0.27
420.75	3.3	875	0.30
372.64	3.8	875	0.34
334.26	4.2	875	0.38
303.26	4.6	875	0.42
268.73	5.2	875	0.48
240.42	5.8	875	0.53

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>G43</b>			
210.05	6.7	875	0.61
181.51	7.7	875	0.71
158.99	8.8	875	0.81
140.75	9.9	875	0.91
125.69	11	875	1.02
113.03	12	875	1.13
102.26	14	875	1.25
93.21	15	875	1.38
83.15	17	875	1.54
74.59	19	875	1.72
67.67	21	875	1.90
59.97	23	875	2.14
56.95	25	875	2.25
51.52	27	875	2.49
46.96	30	875	2.73
41.89	33	875	3.06
37.58	37	875	3.41
34.09	41	875	3.76
30.21	46	875	4.25
26.59	53	860	4.74
23.29	60	800	5.0
20.45	68	735	5.3

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G42</b>			
26.83	52	875	4.78
24.23	58	865	5.2
22.01	64	850	5.7
20.12	70	860	6.3
18.06	78	875	7.1
16.30	86	845	7.6
15.00	93	815	8.0
13.41	104	805	8.8
11.90	118	760	9.4
10.55	133	725	10.1
9.39	149	680	10.6
8.04	174	635	11.0
7.09	197	600	11.0
6.82	205	470	10.1
6.05	231	455	11.0
5.36	261	440	11.0
4.77	293	425	11.0
4.09	342	405	11.0
3.61	388	385	11.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G53G23</b>			
13862	0.10	1630	<0.05
11843	0.12	1630	<0.05
10249	0.14	1630	<0.05
8958.3	0.16	1630	<0.05
7892.3	0.18	1630	<0.05
6996.9	0.20	1630	<0.05
6278.4	0.22	1630	<0.05
5487.9	0.26	1630	<0.05
4834.9	0.29	1630	<0.05
4286.4	0.33	1630	0.06
3752.8	0.37	1630	0.06
3306.2	0.42	1630	0.07
2931.1	0.48	1630	0.08

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>G53G22</b>			
2640.3	0.53	1630	0.09
2266.7	0.62	1630	0.11
1971.8	0.71	1630	0.12
1733.0	0.81	1630	0.14
1535.8	0.91	1630	0.16
1370.1	1.0	1630	0.17
1229.0	1.1	1630	0.19
1116.9	1.3	1630	0.21
984.77	1.4	1630	0.24
872.18	1.6	1630	0.27
802.80	1.7	1630	0.30
717.52	2.0	1630	0.33
636.13	2.2	1630	0.38
570.60	2.5	1630	0.42
518.58	2.7	1630	0.46
457.21	3.1	1630	0.52
404.94	3.5	1630	0.59
372.73	3.8	1630	0.64
333.14	4.2	1630	0.72
295.82	4.7	1630	0.81
262.14	5.3	1630	0.91
229.46	6.1	1630	1.04
207.08	6.8	1630	1.15
190.61	7.3	1630	1.25

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G53</b>			
186.77	7.5	1630	1.28
165.96	8.4	1630	1.44
148.78	9.4	1630	1.60
134.34	10	1630	1.78
122.04	11	1630	1.96
111.58	13	1630	2.14
100.12	14	1630	2.38
90.36	15	1630	2.64
83.17	17	1630	2.87
74.34	19	1630	3.21
66.01	21	1630	3.62
58.49	24	1630	4.08
51.20	27	1630	4.66
46.21	30	1630	5.2
42.53	33	1630	5.6
38.01	37	1630	6.3
33.76	41	1630	7.1
29.91	47	1560	7.6
26.62	53	1500	8.3
22.80	61	1430	9.2
20.11	70	1350	9.8

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>G52</b>			
31.19	45	1130	5.3
28.45	49	1120	5.8
26.17	53	1330	7.4
23.62	59	1310	8.1
21.45	65	1290	8.8
19.83	71	1390	10.3
17.86	78	1430	11.7
16.01	87	1360	12.5
14.33	98	1330	13.6
12.90	109	1260	14.3
11.25	124	1190	15.5
10.08	139	1140	16.6
8.94	157	1070	17.5
7.86	178	1000	18.5
7.02	199	1040	18.5
6.32	221	1010	18.5
5.51	254	1190	18.5
4.94	283	1150	18.5
4.38	319	1420	18.5
3.85	364	1370	18.5

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G63G33</b>			
14755	0.095	2800	<0.05
12667	0.11	2800	<0.05
11019	0.13	2800	<0.05
9684.6	0.14	2800	<0.05
8582.4	0.16	2800	<0.05
7656.6	0.18	2800	0.05
6867.9	0.20	2800	0.06
6241.8	0.22	2800	0.07
5503.1	0.25	2800	0.07
4874.0	0.29	2800	0.08
4386.6	0.32	2800	0.09
3827.0	0.37	2800	0.11
3402.1	0.41	2800	0.12
3051.7	0.46	2800	0.13
2773.5	0.50	2800	0.15
2445.3	0.57	2800	0.17

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>G63G32</b>			
2136.3	0.66	2800	0.19
1907.7	0.73	2800	0.22
1715.6	0.82	2800	0.24
1552.0	0.90	2800	0.26
1414.7	0.99	2800	0.29
1262.1	1.1	2800	0.33
1132.1	1.2	2800	0.36
1018.9	1.4	2800	0.40
888.88	1.6	2800	0.46
796.35	1.8	2800	0.52
686.91	2.0	2800	0.60
612.80	2.3	2800	0.67
549.68	2.5	2800	0.75
494.71	2.8	2800	0.83
431.60	3.2	2800	0.95
386.67	3.6	2800	1.06
343.00	4.1	2800	1.20
301.31	4.6	2800	1.36
271.16	5.2	2800	1.51
237.47	5.9	2800	1.73



i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
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### G63

221.95	6.3	2800	1.85
199.76	7.0	2800	2.05
181.12	7.7	2800	2.27
165.23	8.5	2800	2.48
151.99	9.2	2800	2.70
137.17	10	2800	2.99
124.54	11	2800	3.30
115.14	12	2800	3.57
103.72	13	2800	3.96
92.94	15	2800	4.42
83.23	17	2800	4.93
74.91	19	2800	5.5
65.35	21	2800	6.3
58.55	24	2800	7.0
51.94	27	2690	7.6
45.13	31	2520	8.2
40.41	35	2450	8.9
36.37	38	2350	9.5
31.73	44	2240	10.3
28.43	49	2160	11.1
25.22	56	2080	12.1
22.15	63	1990	13.2

### G62

31.16	45	2040	9.6
28.42	49	2020	10.4
26.36	53	2120	11.8
23.88	59	2200	13.5
21.72	64	2110	14.2
19.60	71	2100	15.7
17.78	79	2010	16.6
15.40	91	1930	18.4
13.94	100	1860	19.6
12.65	111	1780	20.6
11.28	124	1690	22.0
9.57	146	1570	22.0
8.16	171	1460	22.0
7.47	187	1720	22.0
6.76	207	1680	22.0
6.13	228	2260	22.0
5.47	256	2260	22.0
4.64	302	2170	22.0
3.96	354	2040	22.0

### G73G33

19566	0.072	4880	<0.05
16797	0.083	4880	<0.05
14612	0.096	4880	<0.05
12842	0.11	4880	0.06
11381	0.12	4880	0.06
10153	0.14	4880	0.07
9107.3	0.15	4880	0.08
8277.0	0.17	4880	0.09
7297.6	0.19	4880	0.10
6463.2	0.22	4880	0.11
5863.6	0.24	4880	0.12
5079.2	0.28	4880	0.14
4511.4	0.31	4880	0.16
4046.7	0.35	4880	0.18
3677.8	0.38	4880	0.19
3242.6	0.43	4880	0.22

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
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### G73G32

2832.9	0.49	4880	0.25
2529.7	0.55	4880	0.28
2275.0	0.62	4880	0.31
2058.1	0.68	4880	0.35
1876.0	0.75	4880	0.38
1673.6	0.84	4880	0.43
1501.2	0.93	4880	0.48
1361.9	1.0	4880	0.53
1179.7	1.2	4880	0.61
1067.4	1.3	4880	0.67
969.05	1.4	4880	0.74
864.03	1.6	4880	0.83
805.28	1.7	4880	0.89
722.33	1.9	4880	0.99
655.31	2.1	4880	1.09
567.65	2.5	4880	1.26
513.62	2.7	4880	1.39
466.28	3.0	4880	1.54
415.75	3.4	4880	1.72
351.79	4.0	4880	2.04
318.30	4.4	4880	2.25
288.96	4.8	4880	2.48
257.65	5.4	4880	2.78

### G73

250.97	5.6	4880	2.85
228.26	6.1	4880	3.14
208.90	6.7	4880	3.43
193.61	7.2	4880	3.70
175.48	8.0	4880	4.08
160.04	8.7	4880	4.47
148.43	9.4	4880	4.82
134.48	10	4880	5.3
122.32	11	4880	5.9
110.37	13	4880	6.5
100.13	14	4880	7.2
86.74	16	4880	8.3
78.48	18	4880	9.1
71.25	20	4880	10.1
63.53	22	4880	11.3
53.88	26	4880	13.3
47.41	30	4880	15.1
41.07	34	4800	17.1
37.16	38	4640	18.3
33.74	41	4510	19.6
30.08	47	4360	21.2
25.51	55	4150	23.8
21.77	64	3960	26.7

### G72

26.11	54	4130	23.2
23.65	59	4160	25.8
21.55	65	3970	27.0
18.87	74	3910	30.0
17.17	82	3730	30.0
15.46	91	3540	30.0
13.88	101	3360	30.0
11.91	118	3130	30.0
10.29	136	2930	30.0
9.15	153	2440	30.0
8.95	156	2740	30.0
8.32	168	2390	30.0
7.50	187	3190	30.0
6.73	208	3100	30.0
5.77	242	2960	30.0
4.99	280	2820	30.0
4.34	323	2670	30.0

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
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### G83G43

19895	0.070	8900	0.07
17193	0.081	8900	0.08
15059	0.093	8900	0.09
13332	0.11	8900	0.10
11905	0.12	8900	0.11
10707	0.13	8900	0.12
9685.6	0.14	8900	0.13
8828.6	0.16	8900	0.15
7876.1	0.18	8900	0.17
7064.8	0.20	8900	0.18
6426.4	0.22	8900	0.20
5788.3	0.24	8900	0.23
5393.9	0.26	8900	0.24
4879.5	0.29	8900	0.27
4447.7	0.31	8900	0.29
3967.9	0.35	8900	0.33
3559.2	0.39	8900	0.37
3237.5	0.43	8900	0.40
2916.1	0.48	8900	0.45

### G83G42

2541.6	0.55	8900	0.51
2294.9	0.61	8900	0.57
2084.8	0.67	8900	0.63
1906.2	0.73	8900	0.68
1710.4	0.82	8900	0.76
1543.6	0.91	8900	0.85
1404.1	1.00	8900	0.93
1264.7	1.1	8900	1.03
1135.5	1.2	8900	1.15
974.05	1.4	8900	1.34
841.95	1.7	8900	1.55
731.87	1.9	8900	1.78
645.52	2.2	8900	2.02
573.21	2.4	8900	2.28
507.95	2.8	8900	2.57
462.05	3.0	8900	2.82
416.17	3.4	8900	3.13
373.66	3.7	8900	3.49
320.53	4.4	8900	4.07
285.24	4.9	8900	4.57
244.36	5.7	8900	5.3
215.53	6.5	8900	6.1

### G83

186.96	7.5	8900	7.0
170.93	8.2	8900	7.6
158.00	8.9	8900	8.3
143.59	9.8	8900	9.1
131.06	11	8900	10.0
118.71	12	8900	11.0
108.13	13	8900	12.1
94.72	15	8900	13.8
86.16	16	8900	15.1
77.61	18	8900	16.8
69.68	20	8900	18.7
59.77	23	8900	21.8
51.67	27	8900	25.2
44.91	31	8900	29.0
38.61	36	8590	32.6
34.66	40	8310	35.1
29.74	47	7940	39.1
25.70	54	7600	43.3
22.34	63	7290	45.0

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
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### G82

18.81	74	6040	45.0
17.01	82	5920	45.0
14.76	95	5640	45.0
12.91	108	5440	45.0
11.37	123	5250	45.0
9.79	143	4560	45.0
8.85	158	4360	45.0
7.68	182	4100	45.0
6.72	208	3870	45.0
5.92	236	3650	45.0
5.06	277	3850	45.0
4.40	318	3690	45.0

### G93G43

22255	0.063	13600	0.09
19232	0.073	13600	0.10
16845	0.083	13600	0.12
14913	0.094	13600	0.13
13317	0.11	13600	0.15
11976	0.12	13600	0.17
10834	0.13	13600	0.18
9875.6	0.14	13600	0.20
8810.2	0.16	13600	0.23
7902.7	0.18	13600	0.25
7223.9	0.19	13600	0.28
6595.1	0.21	13600	0.30
6033.5	0.23	13600	0.33
5458.2	0.26	13600	0.37
4975.2	0.28	13600	0.40
4438.5	0.32	13600	0.45
3981.3	0.35	13600	0.50
3639.3	0.38	13600	0.55
3322.5	0.42	13600	0.60
3004.0	0.47	13600	0.66

### G93G42

2843.0	0.49	13600	0.70
2567.1	0.55	13600	0.78
2332.1	0.60	13600	0.86
2132.2	0.66	13600	0.94
1913.2	0.73	13600	1.04
1726.6	0.81	13600	1.16
1578.3	0.89	13600	1.26
1441.0	0.97	13600	1.38
1302.8	1.1	13600	1.53
1130.2	1.2	13600	1.77
988.90	1.4	13600	2.02
871.17	1.6	10800	1.82
803.56	1.7	13600	2.48
722.07	1.9	13600	2.76
641.18	2.2	13600	3.11
568.19	2.5	13600	3.51
519.38	2.7	13600	3.84
474.18	3.0	13600	4.21
428.72	3.3	13600	4.65
371.90	3.8	13600	5.4
325.42	4.3	13600	6.1
288.28	4.9	13600	6.9
250.07	5.6	13600	8.0
218.81	6.4	13600	9.1
192.77	7.3	13600	10.4
177.81	7.9	10000	8.2

## Selection table - Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			

### G93

157.04	8.9	13600	12.7
144.12	9.7	13600	13.8
131.03	11	13600	15.2
119.82	12	13600	16.7
105.95	13	13600	18.8
96.85	14	13600	20.6
88.42	16	13600	22.6
79.95	18	13600	25.0
69.35	20	13600	28.8
60.68	23	13600	32.9
53.46	26	13600	37.3
49.31	28	13600	40.5
45.02	31	13600	44.3
40.70	34	13600	49.0
35.31	40	13600	56.5
30.89	45	13500	64.1
27.22	51	13000	70.0
23.27	60	12300	77.5
20.23	69	11700	84.8

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			

### G92

17.34	81	11600	90.0
15.26	92	11100	90.0
13.53	104	10600	90.0
11.74	119	10200	90.0
10.30	136	9760	90.0
9.15	153	6610	90.0
8.05	174	6350	90.0
7.14	196	6120	90.0
6.19	226	5850	90.0
5.43	258	5620	90.0

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## Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.12 kW</b>					
G33G12A DM63K4					25
3.0	360	1.35	454.59		
3.5	315	1.50	396.78		
4.0	275	1.75	347.53		
4.5	245	1.95	310.04		
G22G12A DM63K4					18
3.8	295	0.80	361.24		
4.4	255	0.90	312.61		
5.1	220	1.05	273.25		
5.7	196	1.20	240.74		
6.5	174	1.35	213.43		
7.3	155	1.50	190.16		
8.1	139	1.70	170.71		
G23A DM63K4					13
9.0	127	1.85	153.41		
G13G02A DM63K4					13
8.1	135	0.85	169.38		
9.5	116	1.00	145.94		
11	102	1.15	127.83		
G13A DM63K4					9
12	96	1.20	115.34		
14	81	1.45	97.78		
16	70	1.70	83.91		
19	60	1.95	72.69		
G03A DM63K4					8
19	60	1.00	72.52		
23	51	1.20	61.26		
26	43	1.40	52.38		
31	38	1.60	45.19		
35	33	1.85	39.24		
40	28	2.1	34.25		
47	25	2.4	29.57		
54	21	2.8	25.51		
62	18	3.3	22.15		
71	16	3.7	19.33		
G02A DM63K4					8
81	14	4.3	16.97		
96	12	5.0	14.34		
113	10	5.9	12.26		
130	8.8	6.8	10.58		
150	7.6	7.9	9.18		
172	6.7	9.0	8.02		
197	5.8	10	7.02		
229	5.0	12	6.04		
265	4.3	13	5.21		
305	3.8	14	4.52		
350	3.3	15	3.95		
399	2.9	16	3.46		
<b>0.18 kW</b>					
G43G22A DM63G4					39
2.9	570	1.55	477.22		
3.3	505	1.75	420.75		
3.7	445	1.95	372.64		
G33G12A DM63G4					25
3.0	545	0.90	454.59		
3.5	475	1.00	396.78		
4.0	415	1.15	347.53		
4.5	370	1.30	310.04		
5.0	335	1.45	278.10		
5.5	300	1.60	252.75		
6.2	265	1.80	222.84		
<b>0.18 kW</b>					
G43G22A DM71K4					40
3.0	775	1.15	477.22		
3.4	685	1.30	420.75		
3.8	605	1.45	372.64		
4.2	545	1.60	334.26		
4.6	495	1.80	303.26		
5.2	435	2.0	268.73		
G33G12A DM71K4					26
4.1	565	0.85	347.53		
4.5	505	0.95	310.04		
5.1	450	1.05	278.10		
5.6	410	1.15	252.75		
6.3	360	1.35	222.84		
7.1	320	1.50	197.36		
G33A DM71K4					21
8.0	300	1.60	177.27		
9.3	260	1.85	152.19		
G22G12A DM71K4					19
8.3	285	0.80	170.71		
<b>0.25 kW</b>					
G22G12A DM63G4					19
5.7	295	0.80	240.74		
6.5	260	0.90	213.43		
7.3	230	1.00	190.16		
8.1	210	1.10	170.71		
G23A DM63G4					13
9.0	191	1.20	153.41		
11	163	1.45	131.06		
12	141	1.65	113.42		
14	123	1.90	99.14		
G13A DM63G4					10
12	144	0.80	115.34		
14	122	0.95	97.78		
16	105	1.10	83.91		
19	91	1.30	72.69		
22	79	1.50	63.42		
25	69	1.70	55.63		
28	61	1.90	49.00		
G03A DM63G4					8
23	76	0.80	61.26		
26	65	0.90	52.38		
31	56	1.05	45.19		
35	49	1.25	39.24		
40	43	1.40	34.25		
47	37	1.65	29.57		
54	32	1.90	25.51		
62	28	2.2	22.15		
71	24	2.5	19.33		
G02A DM63G4					8
81	21	2.8	16.97		
96	18	3.4	14.34		
113	15	3.9	12.26		
130	13	4.6	10.58		
150	11	5.2	9.18		
172	10.0	6.0	8.02		
197	8.7	6.9	7.02		
229	7.5	7.8	6.04		
265	6.5	8.6	5.21		
305	5.6	9.4	4.52		
350	4.9	10.0	3.95		
399	4.3	11	3.46		
<b>0.25 kW</b>					
G43G22A DM71G4					40
3.0	775	1.15	477.22		
3.4	685	1.30	420.75		
3.8	605	1.45	372.64		
4.2	545	1.60	334.26		
4.6	495	1.80	303.26		
5.2	435	2.0	268.73		
G33G12A DM71G4					26
4.1	565	0.85	347.53		
4.5	505	0.95	310.04		
5.1	450	1.05	278.10		
5.6	410	1.15	252.75		
6.3	360	1.35	222.84		
7.1	320	1.50	197.36		
G33A DM71G4					21
8.0	300	1.60	177.27		
9.3	260	1.85	152.19		
G22G12A DM71G4					19
8.3	285	0.80	170.71		
<b>0.25 kW</b>					
G23A DM71K4					14
9.2	260	0.90	153.41		
11	220	1.05	131.06		
12	192	1.20	113.42		
14	168	1.40	99.14		
16	148	1.60	87.34		
18	131	1.80	77.43		
20	118	2.00	69.48		
G13A DM71K4					11
17	142	0.80	83.91		
19	123	0.95	72.69		
22	107	1.10	63.42		
25	94	1.25	55.63		
29	83	1.40	49.00		
33	73	1.60	43.09		
38	63	1.85	36.98		
G03A DM71K4					9
31	77	0.80	45.19		
36	66	0.90	39.24		
41	58	1.05	34.25		
48	50	1.20	29.57		
55	43	1.40	25.51		
64	38	1.60	22.15		
73	33	1.85	19.33		
G02A DM71K4					9
83	29	2.1	16.97		
98	24	2.5	14.34		
115	21	2.9	12.26		
133	18	3.4	10.58		
154	16	3.9	9.18		
176	14	4.4	8.02		
201	12	5.0	7.02		
234	10	5.8	6.04		
271	8.8	6.4	5.21		
312	7.7	6.9	4.52		
357	6.7	7.3	3.95		
408	5.9	8.0	3.46		
<b>0.37 kW</b>					
G53G22A DM71G4					62
3.1	1100	1.50	457.21		
3.5	975	1.65	404.94		
3.8	895	1.80	372.73		
4.2	800	2.0	333.14		
G43G22A DM71G4					41
3.4	1010	0.85	420.75		
3.8	895	1.00	372.64		
4.2	805	1.10	334.26		
4.6	730	1.20	303.26		
5.2	645	1.35	268.73		
5.9	580	1.50	240.42		
G43A DM71G4					32
6.7	525	1.65	210.05		
7.8	455	1.90	181.51		
G33G12A DM71G4					27
5.6	610	0.80	252.75		
6.3	535	0.90	222.84		
7.1	475	1.00	197.36		
G33A DM71G4					21
8.0	445	1.10	177.27		
9.3	380	1.25	152.19		
11	330	1.45	132.39		
12	290	1.65	116.36		
14	260	1.85	103.11		
<b>0.37 kW</b>					
G23A DM71G4					15
12	285	0.80	113.42		
14	250	0.95	99.14		
16	220	1.05	87.34		
18	194	1.20	77.43		
20	174	1.35	69.48		
23	152	1.55	60.74		
26	134	1.75	53.51		
30	119	1.95	47.44		
G13A DM71G4					12
25	139	0.85	55.63		
29	123	0.95	49.00		
33	108	1.10	43.09		
38	93	1.25	36.98		
44	80	1.45	32.03		
50	70	1.65	27.95		
58	61	1.90	24.52		
G12A DM71G4					12
57	62</				

## Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.55 kW</b>					
G33A DM80K4					23
11	495	0.95	132.39		
12	435	1.10	116.36		
14	385	1.25	103.11		
15	345	1.40	91.99		
17	310	1.55	82.51		
19	280	1.70	74.99		
21	245	1.95	66.12		
G23A DM80K4					17
20	260	0.90	69.48		
23	225	1.05	60.74		
26	200	1.15	53.51		
30	177	1.30	47.44		
34	155	1.50	41.53		
38	137	1.70	36.59		
43	121	1.90	32.44		
G13A DM80K4					14
38	138	0.85	36.98		
44	120	1.00	32.03		
50	104	1.10	27.95		
57	92	1.30	24.52		
65	81	1.45	21.59		
G12A DM80K4					13
76	69	1.70	18.39		
87	60	1.95	16.08		
G03A DM80K4					12
73	72	0.85	19.33		
G02A DM80K4					12
115	46	1.30	12.26		
133	40	1.50	10.58		
153	34	1.75	9.18		
175	30	2.0	8.02		
200	26	2.3	7.02		
233	23	2.6	6.04		
270	19	2.9	5.21		
311	17	3.1	4.52		
356	15	3.3	3.95		
406	13	3.6	3.46		
<b>0.75 kW</b>					
G63G32A DM80GB4					102
2.9	2390	1.15	494.71		
3.3	2080	1.35	431.60		
3.7	1870	1.50	386.67		
4.2	1660	1.70	343.00		
4.7	1450	1.95	301.31		
G53G22A DM80GB4					66
3.5	1950	0.85	404.94		
3.8	1800	0.90	372.73		
4.3	1610	1.00	333.14		
4.8	1430	1.15	295.82		
5.4	1260	1.30	262.14		
6.2	1110	1.45	229.46		
6.9	1000	1.65	207.08		
7.5	920	1.75	190.61		
G53A DM80GB4					59
7.6	940	1.75	186.77		
8.6	835	1.95	165.96		
G43A DM80GB4					37
9.0	800	1.10	158.99		
10	705	1.25	140.75		
11	630	1.40	125.69		
13	570	1.55	113.03		
14	515	1.70	102.26		
15	470	1.85	93.21		
<b>0.75 kW</b>					
G63G32A DM90SB4					157
3.1	3250	1.50	466.28		
3.5	2900	1.70	415.75		
4.1	2460	2.00	351.79		
4.5	2220	2.2	318.30		
5.0	2020	2.4	288.96		
G63G32A DM90SB4					106
2.9	3450	0.80	494.71		
3.3	3010	0.95	431.60		
3.7	2700	1.05	386.67		
4.2	2390	1.15	343.00		
4.8	2100	1.35	301.31		
5.3	1890	1.50	271.16		
6.1	1660	1.70	237.47		
G63A DM90SB4					93
6.5	1610	1.75	221.95		
7.2	1450	1.95	199.76		
8.0	1320	2.1	181.12		
8.7	1200	2.3	165.23		
9.5	1100	2.5	151.99		
G53G22A DM90SB4					70
4.9	2060	0.80	295.82		
5.5	1830	0.90	262.14		
6.3	1600	1.00	229.46		
7.0	1450	1.15	207.08		
7.6	1330	1.20	190.61		
<b>1.1 kW</b>					
G53A DM90SB4					63
8.7	1210	1.35	165.96		
9.7	1080	1.50	148.78		
11	975	1.65	134.34		
12	885	1.85	122.04		
13	810	2.0	111.58		
14	730	2.2	100.12		
16	655	2.5	90.36		
G43A DM90SB4					41
10	1020	0.85	140.75		
11	915	0.95	125.69		
13	820	1.05	113.03		
14	745	1.20	102.26		
16	680	1.30	93.21		
17	605	1.45	83.15		
19	540	1.60	74.59		
21	490	1.80	67.67		
24	435	2.0	59.97		
25	415	2.1	56.95		
28	375	2.3	51.52		
G33A DM90SB4					30
18	600	0.80	82.51		
19	545	0.90	74.99		
22	480	1.00	66.12		
25	425	1.15	58.56		
28	375	1.30	51.70		
32	335	1.45	45.82		
35	295	1.60	40.87		
39	265	1.80	36.66		
43	240	1.90	33.32		
49	215	2.1	29.38		
56	189	2.2	26.02		
62	169	2.4	23.28		
G23A DM90SB4					24
39	265	0.90	36.59		
45	235	1.00	32.44		
50	210	1.10	28.90		
56	189	1.25	25.95		
64	165	1.40	22.65		
73	144	1.60	19.83		
G22A DM90SB4					24
75	139	1.65	19.18		
85	124	1.90	17.00		
95	110	2.1	15.16		
106	99	2.4	13.60		
G12A DM90SB4					20
90	117	1.00	16.08		
102	103	1.15	14.16		
115	91	1.30	12.56		
129	81	1.45	11.19		
144	73	1.55	10.04		
165	64	1.65	8.77		
188	56	1.80	7.68		
205	51	1.90	7.06		
232	45	2.0	6.22		
262	40	2.2	5.51		
294	36	2.3	4.91		
328	32	2.5	4.41		
376	28	2.6	3.85		
429	25	2.8	3.37		
<b>1.5 kW</b>					
G83G42A DM90LB4					245
3.1	4370	2.0	462.05		
3.5	3930	2.3	416.17		
3.9	3530	2.5	373.66		
<b>1.5 kW</b>					
G73G32A DM90LB4					163
3.1	4410	1.10	466.28		
3.5	3930	1.25	415.75		
4.1	3320	1.45	351.79		
4.6	3010	1.60	318.30		
5.0	2730	1.80	288.96		
5.6	2440	2.0	257.65		
G73A DM90LB4					149
5.8	2470	2.00	250.97		
6.4	2250	2.2	228.26		
7.0	2060	2.4	208.90		
G63G32A DM90LB4					113
4.2	3240	0.85	343.00		
4.8	2850	1.00	301.31		
5.4	2560	1.10	271.16		
6.1	2240	1.25	237.47		
G63A DM90LB4					99
6.6	2190	1.30	221.95		
7.3	1970	1.40	199.76		
8.0	1780	1.55	181.12		
8.8	1630	1.70	165.23		
9.6	1500	1.85	151.99		
11	1350	2.1	137.17		
12	1230	2.3	124.54		
13	1130	2.5	115.14		
G53G22A DM90LB4					76
7.0	1960	0.85	207.08		
7.6	1800	0.90	190.61		
G53A DM90LB4					69
8.8	1630	1.00	165.96		
9.8	1460	1.10	148.78		
11	1320	1.25	134.34		
12	1200	1.35	122.04		
13	1100	1.50	111.58		
15	985	1.65	100.12		
16	890	1.85	90.36		
17	820	2.00	83.17		
20	730	2.2	74.34		
22	650	2.5	66.01		
G43A DM90LB4					48
13	1110	0.80	113.03		
14	1010	0.85	102.26		
16	920	0.95	93.21		
17	820	1.05	83.15		
20	735	1.20	74.59		
22	665	1.30	67.67		
24	590	1.50	59.97		
26	560	1.55	56.95		
28	505	1.75	51.52		
31	460	1.90	46.96		
35	410	2.1	41.89		
39	370	2.4	37.58		
G33A DM90LB4					37
25	575	0.85	58.56		
28	510	0.95	51.70		
32	450	1.05	45.82		
36	400	1.20	40.87		
40	360	1.30	36.66		
44	330	1.40	33.32		
50	290	1.50	29.38		
56	255	1.65	26.02		
62	230	1.75	23.28		
72	200	1.95	20.27		
G32A DM90LB4					37
57	255	1.90	25.67		
63	225	2.1	22.92		
71	205	2.4	20.61		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.5 kW</b>					
G23A DM90LB4					31
50	285	0.80	28.90		
56	255	0.90	25.95		
64	225	1.05	22.65		
73	195	1.20	19.83		
G22A DM90LB4					31
76	189	1.25	19.18		
86	167	1.40	17.00		
96	149	1.55	15.16		
107	134	1.75	13.60		
118	122	1.90	12.36		
134	107	2.2	10.90		
151	95	2.4	9.65		
168	85	2.6	8.64		
194	74	2.8	7.52		
207	69	2.4	7.04		
230	62	2.6	6.31		
254	57	3.5	5.74		
288	50	3.7	5.06		
325	44	3.8	4.48		
363	39	4.0	4.01		
417	34	4.1	3.49		
G12A DM90LB4					27
103	139	0.85	14.16		
116	124	0.95	12.56		
130	110	1.05	11.19		
145	99	1.15	10.04		
166	86	1.25	8.77		
190	76	1.30	7.68		
206	69	1.40	7.06		
234	61	1.50	6.22		
264	54	1.60	5.51		
296	48	1.70	4.91		
330	43	1.80	4.41		
378	38	1.95	3.85		
432	33	2.1	3.37		
<b>2.2 kW</b>					
G93G42A DM100LA4					396
3.1	6550	2.1	474.18		
3.4	5920	2.3	428.72		
G83G42A DM100LA4					263
3.2	6380	1.40	462.05		
3.5	5750	1.55	416.17		
3.9	5160	1.70	373.66		
4.6	4430	2.0	320.53		
5.1	3940	2.3	285.24		
G73G32A DM100LA4					178
3.5	5740	0.85	415.75		
4.2	4860	1.00	351.79		
4.6	4400	1.10	318.30		
5.1	3990	1.20	288.96		
5.7	3560	1.35	257.65		
G73A DM100LA4					174
5.8	3610	1.35	250.97		
6.4	3280	1.50	228.26		
7.0	3010	1.60	208.90		
7.5	2790	1.75	193.61		
8.3	2530	1.95	175.48		
9.1	2300	2.1	160.04		
9.8	2140	2.3	148.43		
11	1940	2.5	134.48		
G63G32A DM100LA4					126
6.1	3280	0.85	237.47		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>2.2 kW</b>					
G63A DM100LA4					117
7.3	2870	0.95	199.76		
8.1	2610	1.05	181.12		
8.8	2380	1.20	165.23		
9.6	2190	1.30	151.99		
11	1970	1.40	137.17		
12	1790	1.55	124.54		
13	1660	1.70	115.14		
14	1490	1.90	103.72		
16	1340	2.1	92.94		
18	1200	2.3	83.23		
G53A DM100LA4					88
11	1930	0.85	134.34		
12	1760	0.95	122.04		
13	1610	1.00	111.58		
15	1440	1.15	100.12		
16	1300	1.25	90.36		
18	1200	1.35	83.17		
20	1070	1.50	74.34		
22	950	1.70	66.01		
25	840	1.95	58.49		
29	735	2.2	51.20		
32	665	2.4	46.21		
G52A DM100LA4					84
47	450	2.5	31.19		
G43A DM100LA4					63
20	1070	0.80	74.59		
22	975	0.90	67.67		
24	865	1.00	59.97		
26	820	1.05	56.95		
28	740	1.20	51.52		
31	675	1.30	46.96		
35	605	1.45	41.89		
39	540	1.60	37.58		
43	490	1.80	34.09		
48	435	2.0	30.21		
55	385	2.2	26.59		
63	335	2.4	23.29		
71	295	2.5	20.45		
G42A DM100LA4					61
54	385	2.3	26.83		
60	350	2.5	24.23		
G33A DM100LA4					52
36	590	0.80	40.87		
40	530	0.90	36.66		
44	480	0.95	33.32		
50	425	1.05	29.38		
56	375	1.10	26.02		
63	335	1.20	23.28		
72	290	1.30	20.27		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>2.2 kW</b>					
G32A DM100LA4					51
64	330	1.45	22.92		
71	295	1.60	20.61		
78	270	1.80	18.65		
86	245	1.95	17.00		
96	220	2.2	15.16		
107	196	2.5	13.60		
118	178	2.7	12.34		
134	157	3.0	10.93		
147	143	2.00	9.92		
152	139	3.2	9.63		
173	121	3.4	8.43		
197	107	3.7	7.40		
200	105	3.1	7.30		
223	94	3.4	6.54		
246	85	3.8	5.94		
277	76	4.0	5.26		
315	67	4.4	4.63		
360	58	4.7	4.06		
410	51	5.1	3.56		
G22A DM100LA4					45
86	245	0.95	17.00		
96	220	1.05	15.16		
107	196	1.20	13.60		
118	178	1.30	12.36		
134	157	1.50	10.90		
151	139	1.65	9.65		
169	124	1.75	8.64		
194	108	1.95	7.52		
207	101	1.65	7.04		
231	91	1.80	6.31		
254	83	2.4	5.74		
289	73	2.5	5.06		
<b>3.0 kW</b>					
G93G42A DM100LE4					364
3.1	8960	1.50	474.18		
3.4	8100	1.70	428.72		
3.9	7030	1.95	371.90		
4.5	6150	2.2	325.42		
G83G42A DM100LE4					256
3.1	8730	1.00	462.05		
3.5	7870	1.15	416.17		
3.9	7060	1.25	373.66		
4.5	6060	1.45	320.53		
5.1	5390	1.65	285.24		
G73G32A DM100LE4					175
4.6	6020	0.80	318.30		
5.0	5460	0.90	288.96		
5.6	4870	1.00	257.65		
G73A DM100LE4					161
5.8	4940	1.00	250.97		
6.4	4490	1.10	228.26		
7.0	4110	1.20	208.90		
7.5	3810	1.30	193.61		
8.3	3460	1.40	175.48		
9.1	3150	1.55	160.04		
9.8	2920	1.65	148.43		
11	2650	1.85	134.48		
12	2410	2.0	122.32		
13	2170	2.2	110.37		
15	1970	2.5	100.13		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>3.0 kW</b>					
G63A DM100LE4					110
8.0	3570	0.80	181.12		
8.8	3250	0.85	165.23		
9.6	2990	0.95	151.99		
11	2700	1.05	137.17		
12	2450	1.15	124.54		
13	2270	1.25	115.14		
14	2040	1.35	103.72		
16	1830	1.55	92.94		
17	1640	1.70	83.23		
19	1480	1.90	74.91		
G53A DM100LE4					80
15	1970	0.85	100.12		
16	1780	0.90	90.36		
17	1640	1.00	83.17		
20	1460	1.10	74.34		
22	1300	1.25	66.01		
25	1150	1.40	58.49		
28	1010	1.60	51.20		
31	910	1.80	46.21		
34	835	1.95	42.53		
38	750	2.2	38.01		
43	665	2.4	33.76		
G52A DM100LE4					79
47	615	1.85	31.19		
51	560	2.00	28.45		
G43A DM100LE4					60
26	1120	0.80	56.95		
28	1010	0.85	51.52		
31	925	0.95	46.96		
35	825	1.05	41.89		
39	740	1.20	37.58		
43	670	1.30	34.09		
48	595	1.45	30.21		
55	525	1.65	26.59		
62	460	1.75	23.29		
71	405	1.80	20.45		
G42A DM100LE4					60
54	530	1.65	26.83		
60	475	1.80	24.23		
66	435	1.95	22.01		



## Selection table - Geared motors

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 3.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G22A DM100LE4					43
96	300	0.80	15.16		
107	270	0.85	13.60		
118	245	0.95	12.36		
134	215	1.10	10.90		
151	190	1.20	9.65		
168	170	1.30	8.64		
194	148	1.40	7.52		
207	139	1.20	7.04		
230	124	1.30	6.31		
254	113	1.75	5.74		
288	100	1.85	5.06		
325	88	1.90	4.48		
363	79	2.00	4.01		
417	69	2.1	3.49		

### 4.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93G42A DM112MB4					369
3.1	11900	1.15	474.18		
3.4	10800	1.25	428.72		
3.9	9340	1.45	371.90		
4.5	8170	1.65	325.42		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G83G42A DM112MB4					260
3.5	10500	0.85	416.17		
3.9	9390	0.95	373.66		
4.6	8050	1.10	320.53		
5.1	7160	1.25	285.24		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G73A DM112MB4					165
6.4	5970	0.80	228.26		
7.0	5470	0.90	208.90		
7.5	5070	0.95	193.61		
8.3	4590	1.05	175.48		
9.1	4190	1.15	160.04		
9.8	3880	1.25	148.43		
11	3520	1.40	134.48		
12	3200	1.55	122.32		
13	2890	1.70	110.37		
15	2620	1.85	100.13		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G63A DM112MB4					114
11	3590	0.80	137.17		
12	3260	0.85	124.54		
13	3010	0.95	115.14		
14	2710	1.05	103.72		
16	2430	1.15	92.94		
18	2180	1.30	83.23		
19	1960	1.45	74.91		
32	1180	2.1	45.13		
36	1060	2.3	40.41		
40	950	2.5	36.37		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G62A DM112MB4					112
47	815	2.5	31.16		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G53A DM112MB4					84
20	1940	0.85	74.34		
22	1730	0.95	66.01		
25	1530	1.05	58.49		
29	1340	1.20	51.20		
32	1210	1.35	46.21		
34	1110	1.45	42.53		
38	995	1.65	38.01		
43	885	1.85	33.76		
49	785	2.00	29.91		
55	695	2.2	26.62		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G52A DM112MB4					83
47	815	1.40	31.19		
51	745	1.50	28.45		
56	685	1.95	26.17		
62	620	2.1	23.62		
68	560	2.3	21.45		

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 4.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G43A DM112MB4					64
35	1100	0.80	41.89		
39	985	0.90	37.58		
43	890	1.00	34.09		
48	790	1.10	30.21		
55	695	1.25	26.59		
63	610	1.30	23.29		
71	535	1.35	20.45		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G42A DM112MB4					63
60	635	1.35	24.23		
66	575	1.50	22.01		
73	525	1.65	20.12		
81	470	1.85	18.06		
90	425	2.00	16.30		
97	390	2.1	15.00		
109	350	2.3	13.41		
123	310	2.4	11.90		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G32A DM112MB4					53
71	540	0.90	20.61		
78	490	1.00	18.65		
86	445	1.10	17.00		
96	395	1.20	15.16		
107	355	1.35	13.60		
118	325	1.50	12.34		
134	285	1.65	10.93		
147	260	1.10	9.92		
152	250	1.75	9.63		
173	220	1.90	8.43		
197	194	2.0	7.40		
200	191	1.70	7.30		
223	171	1.85	6.54		
246	155	2.1	5.94		
277	138	2.2	5.26		
315	121	2.4	4.63		
360	106	2.6	4.06		
410	93	2.8	3.56		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G22A DM112MB4					46
134	285	0.80	10.90		
151	255	0.90	9.65		
169	225	0.95	8.64		
194	197	1.05	7.52		
207	184	0.90	7.04		
231	165	1.00	6.31		
254	150	1.30	5.74		
289	132	1.40	5.06		
326	117	1.45	4.48		
364	105	1.50	4.01		
418	91	1.55	3.49		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G22A DM112MB4					46
134	285	0.80	10.90		
151	255	0.90	9.65		
169	225	0.95	8.64		
194	197	1.05	7.52		
207	184	0.90	7.04		
231	165	1.00	6.31		
254	150	1.30	5.74		
289	132	1.40	5.06		
326	117	1.45	4.48		
364	105	1.50	4.01		
418	91	1.55	3.49		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G63A DM112MB4					114
11	3590	0.80	137.17		
12	3260	0.85	124.54		
13	3010	0.95	115.14		
14	2710	1.05	103.72		
16	2430	1.15	92.94		
18	2180	1.30	83.23		
19	1960	1.45	74.91		
32	1180	2.1	45.13		
36	1060	2.3	40.41		
40	950	2.5	36.37		

### 5.5 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93G42A DA132SB4					400
3.1	16400	0.85	474.18		
3.4	14900	0.90	428.72		
3.9	12900	1.05	371.90		
4.5	11300	1.20	325.42		
5.0	9990	1.35	288.28		
5.8	8670	1.55	250.07		
6.6	7580	1.80	218.81		
7.5	6680	2.0	192.77		
8.2	6160	1.60	177.81		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G83G42A DA132SB4					291
4.5	11100	0.80	320.53		
5.1	9890	0.90	285.24		
6.0	8470	1.05	244.36		
6.8	7470	1.20	215.53		

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 5.5 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G83A DA132SB4					267
7.8	6750	1.30	186.96		
8.5	6170	1.45	170.93		
9.2	5700	1.55	158.00		
10	5180	1.70	143.59		
11	4730	1.90	131.06		
12	4290	2.1	118.71		
13	3900	2.3	108.13		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G73A DA132SB4					196
9.1	5780	0.85	160.04		
9.8	5360	0.90	148.43		
11	4850	1.00	134.48		
12	4420	1.10	122.32		
13	3980	1.25	110.37		
15	3610	1.35	100.13		
17	3130	1.55	86.74		
19	2830	1.70	78.48		
20	2570	1.90	71.25		
23	2290	2.1	63.53		
27	1940	2.5	53.88		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G63A DA132SB4					145
16	3360	0.85	92.94		
17	3000	0.95	83.23		
19	2700	1.05	74.91		
22	2360	1.20	65.35		
25	2110	1.30	58.55		
28	1870	1.45	51.94		
32					

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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### 7.5 kW

G63A DA132MB4					145
22	3210	0.85	65.35		
25	2870	0.95	58.55		
28	2550	1.05	51.94		
32	2210	1.15	45.13		
36	1980	1.25	40.41		
40	1780	1.30	36.37		
46	1560	1.45	31.73		
51	1390	1.55	28.43		
58	1240	1.70	25.22		
66	1090	1.85	22.15		

G62A DA132MB4					144
47	1530	1.35	31.16		
51	1390	1.45	28.42		
55	1290	1.65	26.36		
61	1170	1.90	23.88		
67	1070	2.00	21.72		
74	960	2.2	19.60		
82	870	2.3	17.78		

G53A DA132MB4					115
34	2090	0.80	42.53		
38	1860	0.85	38.01		
43	1660	1.00	33.76		
49	1470	1.05	29.91		
55	1310	1.15	26.62		
64	1120	1.30	22.80		
73	985	1.35	20.11		

G52A DA132MB4					114
62	1160	1.15	23.62		
68	1050	1.25	21.45		
74	975	1.45	19.83		
82	875	1.65	17.86		
91	785	1.75	16.01		
102	705	1.90	14.33		
113	635	2.00	12.90		
130	550	2.2	11.25		
145	495	2.3	10.08		
163	440	2.4	8.94		

G42A DA132MB4					95
81	885	1.00	18.06		
90	800	1.05	16.30		
97	735	1.10	15.00		
109	660	1.20	13.41		
123	585	1.30	11.90		
138	520	1.40	10.55		
156	460	1.50	9.39		
182	395	1.60	8.04		
206	350	1.70	7.09		
214	335	1.40	6.82		
241	295	1.55	6.05		
272	265	1.65	5.36		
306	235	1.80	4.77		
357	200	2.0	4.09		
405	177	2.2	3.61		

### 11.0 kW

G93G42A DA160MB4					427
5.9	17200	0.80	250.07		
6.7	15100	0.90	218.81		
7.6	13300	1.05	192.77		
8.2	12200	0.80	177.81		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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### 11.0 kW

G93A DA160MB4					401
9.3	11300	1.20	157.04		
10	10300	1.30	144.12		
11	9400	1.45	131.03		
12	8590	1.60	119.82		
14	7600	1.80	105.95		
15	6940	1.95	96.85		
17	6340	2.1	88.42		
18	5730	2.4	79.95		

G83A DA160MB4					294
10	10300	0.85	143.59		
11	9400	0.95	131.06		
12	8510	1.05	118.71		
14	7750	1.15	108.13		
15	6790	1.30	94.72		
17	6180	1.45	86.16		
19	5560	1.60	77.61		
21	5000	1.80	69.68		
25	4290	2.1	59.77		
28	3700	2.4	51.67		

G73A DA160MB4					223
17	6220	0.80	86.74		
19	5630	0.85	78.48		
21	5110	0.95	71.25		
23	4560	1.05	63.53		
27	3860	1.25	53.88		
31	3400	1.45	47.41		
36	2950	1.65	41.07		
39	2660	1.75	37.16		
43	2420	1.85	33.74		
49	2160	2.0	30.08		
57	1830	2.3	25.51		
67	1560	2.5	21.77		

G72A DA160MB4					219
56	1870	2.2	26.11		
62	1700	2.5	23.65		

G63A DA160MB4					172
32	3240	0.80	45.13		
36	2900	0.85	40.41		
40	2610	0.90	36.37		
46	2280	1.00	31.73		
52	2040	1.05	28.43		
58	1810	1.15	25.22		
66	1590	1.25	22.15		

G62A DA160MB4					170
61	1710	1.30	23.88		
67	1560	1.35	21.72		
75	1410	1.50	19.60		
82	1270	1.60	17.78		
95	1100	1.75	15.40		
105	1000	1.85	13.94		
116	905	1.95	12.65		
130	810	2.1	11.28		
153	685	2.3	9.57		
179	585	2.5	8.16		

G53A DA160MB4					142
55	1910	0.80	26.62		
64	1640	0.85	22.80		
73	1440	0.95	20.11		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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### 11.0 kW

G52A DA160MB4					141
82	1280	1.10	17.86		
92	1150	1.20	16.01		
102	1030	1.30	14.33		
114	925	1.35	12.90		
130	805	1.45	11.25		
145	725	1.60	10.08		
164	640	1.65	8.94		
186	565	1.75	7.86		
209	505	2.1	7.02		
232	455	2.2	6.32		

G42A DA160MB4					122
109	960	0.85	13.41		
123	855	0.90	11.90		
139	755	0.95	10.55		
156	675	1.00	9.39		
182	575	1.10	8.04		
207	510	1.20	7.09		
215	490	0.95	6.82		
242	435	1.05	6.05		
273	385	1.15	5.36		
307	340	1.25	4.77		
358	295	1.40	4.09		
406	260	1.50	3.61		

### 15.0 kW

G93A DA160LB4					412
9.3	15400	0.90	157.04		
10	14100	0.95	144.12		
11	12800	1.05	131.03		
12	11700	1.15	119.82		
14	10400	1.30	105.95		
15	9470	1.45	96.85		
17	8650	1.55	88.42		
18	7820	1.75	79.95		
21	6780	2.0	69.35		
24	5930	2.3	60.68		

G83A DA160LB4					305
14	10600	0.85	108.13		
15	9260	0.95	94.72		
17	8420	1.05	86.16		
19	7590	1.15	77.61		
21	6810	1.30	69.68		
25	5840	1.50	59.77		
28	5050	1.75	51.67		
38	3780	2.3	38.61		
42	3390	2.5	34.66		

G73A DA160LB4					233
23	6210	0.80	63.53		
27	5270	0.95	53.88		
31	4640	1.05	47.41		
36	4020	1.20	41.07		
39	3630	1.30	37.16		
43	3300	1.35	33.74		
49	2940	1.50	30.08		
57	2490	1.65	25.51		
67	2130	1.85	21.77		

G72A DA160LB4					231
56	2550	1.60	26.11		
62	2310	1.80	23.65		
68	2110	1.90	21.55		
78	1850	2.1	18.87		
85	1680	2.2	17.17		
95	1510	2.3	15.46		
106	1360	2.5	13.88		

G63A DA160LB4					183
52	2780	0.80	28.43		
58	2470	0.85	25.22		
66	2170	0.90	22.15		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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### 15.0 kW

G62A DA160LB4					182
61	2330	0.95	23.88		
67	2120	1.00	21.72		
75	1920	1.10	19.60		
82	1740	1.15	17.78		
95	1510	1.30	15.40		
105	1360	1.35	13.94		
116	1240	1.45	12.65		
130	1100	1.55	11.28		
153	935	1.70	9.57		
179	800	1.85	8.16		
196	730	2.4	7.47		
217	660	2.5	6.76		

G52A DA160LB4					153
82	1750	0.80	17.86		
92	1570	0.85	16.01		
102	1400	0.95	14.33		
114	1260	1.00	12.90		
130	1100	1.10	11.25		
145	985	1.15	10.08		
164	875	1.20	8.94		
186	770	1.30	7.86		
209	685	1.50	7.02		
232	620	1.65	6.32		
266	540	2.2	5.51		
297	485	2.4	4.94		
334	430	3.3	4.38		
381	375	3.6	3.85		

### 18.5 kW

G93A DA180MD4					464
11	15800	0.85	131.03		
12	14400	0.95	119.82		
14	12800	1.05	105.95		
15	11700	1.15	96.85		
17	10700	1.30	88.42		
18	9640	1.40	79.95		
21	8360	1.65	69.35		
24	7320	1.85			

## Selection table - Geared motors

Type n2 [1/min] T2 [Nm] cG i -kg

### 18.5 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G72A DA180MD4					283
62	2850	1.45	23.65		
68	2600	1.55	21.55		
78	2280	1.70	18.87		
85	2070	1.80	17.17		
95	1860	1.90	15.46		
106	1670	2.0	13.88		
123	1440	2.2	11.91		
142	1240	2.4	10.29		
160	1100	2.2	9.15		
164	1080	2.5	8.95		
176	1000	2.4	8.32		

G62A DA180MD4 235

75	2360	0.90	19.60		
82	2140	0.95	17.78		
95	1860	1.05	15.40		
105	1680	1.10	13.94		
116	1530	1.15	12.65		
130	1360	1.25	11.28		
153	1150	1.35	9.57		
179	985	1.50	8.16		
196	900	1.90	7.47		
217	815	2.1	6.76		

G52A DA180MD4 205

114	1560	0.80	12.90		
130	1360	0.90	11.25		
145	1220	0.95	10.08		
164	1080	1.00	8.94		
186	950	1.05	7.86		
209	845	1.25	7.02		
232	760	1.35	6.32		
266	665	1.80	5.51		
297	595	1.95	4.94		
334	530	2.7	4.38		
381	465	3.0	3.85		

### 22.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93A DA180LB4					464
12	17200	0.80	119.82		
14	15200	0.90	105.95		
15	13900	1.00	96.85		
17	12700	1.05	88.42		
18	11500	1.20	79.95		
21	9950	1.35	69.35		
24	8700	1.55	60.68		
27	7670	1.80	53.46		
30	7070	1.90	49.31		
33	6460	2.1	45.02		
36	5840	2.3	40.70		

G83A DA180LB4 357

19	11100	0.80	77.61		
21	9990	0.90	69.68		
25	8570	1.05	59.77		
28	7410	1.20	51.67		
33	6440	1.40	44.91		
38	5540	1.55	38.61		
42	4970	1.65	34.66		
49	4260	1.85	29.74		
57	3690	2.1	25.70		
66	3200	2.3	22.34		

G82A DA180LB4 351

78	2700	2.2	18.81		
86	2440	2.4	17.01		

Type n2 [1/min] T2 [Nm] cG i -kg

### 22.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G73A DA180LB4					286
36	5890	0.80	41.07		
39	5330	0.85	37.16		
43	4840	0.95	33.74		
49	4310	1.00	30.08		
57	3660	1.15	25.51		
67	3120	1.25	21.77		

G72A DA180LB4 283

62	3390	1.25	23.65		
68	3090	1.30	21.55		
78	2710	1.45	18.87		
85	2460	1.50	17.17		
95	2220	1.60	15.46		
106	1990	1.70	13.88		
123	1710	1.85	11.91		
142	1480	2.00	10.29		
160	1310	1.85	9.15		
164	1280	2.1	8.95		
176	1190	2.0	8.32		

G62A DA180LB4 234

82	2550	0.80	17.78		
95	2210	0.85	15.40		
105	2000	0.95	13.94		
116	1810	1.00	12.65		
130	1620	1.05	11.28		
153	1370	1.15	9.57		
179	1170	1.25	8.16		
196	1070	1.60	7.47		
217	970	1.75	6.76		
239	880	2.6	6.13		
268	785	2.9	5.47		
316	665	3.3	4.64		
370	570	3.6	3.96		

### 30.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93A DA200LB4					521
17	17100	0.80	88.42		
19	15500	0.90	79.95		
21	13400	1.00	69.35		
24	11700	1.15	60.68		
28	10300	1.30	53.46		
30	9550	1.45	49.31		
33	8710	1.55	45.02		
36	7880	1.75	40.70		
42	6830	2.00	35.31		
48	5980	2.3	30.89		
54	5270	2.5	27.22		

G83A DA200LB4 414

29	10000	0.90	51.67		
33	8690	1.00	44.91		
38	7470	1.15	38.61		
43	6710	1.25	34.66		
50	5760	1.40	29.74		
58	4980	1.55	25.70		
66	4320	1.70	22.34		

G82A DA200LB4 409

79	3640	1.65	18.81		
87	3290	1.80	17.01		
100	2860	1.95	14.76		
115	2500	2.2	12.91		
130	2200	2.4	11.37		
151	1900	2.4	9.79		

G73A DA200LB4 344

58	4940	0.85	25.51		
68	4210	0.95	21.77		

Type n2 [1/min] T2 [Nm] cG i -kg

### 30.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G72A DA200LB4					341
78	3650	1.05	18.87		
86	3320	1.10	17.17		
96	2990	1.20	15.46		
107	2690	1.25	13.88		
124	2310	1.35	11.91		
144	1990	1.45	10.29		
162	1770	1.40	9.15		
165	1730	1.60	8.95		
178	1610	1.50	8.32		
197	1450	2.2	7.50		
220	1300	2.4	6.73		
256	1120	2.6	5.77		
297	965	2.9	4.99		
341	840	3.2	4.34		

### 37.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93A DA225SD4					637
21	16600	0.80	69.35		
24	14500	0.95	60.68		
28	12800	1.05	53.46		
30	11800	1.15	49.31		
33	10800	1.25	45.02		
36	9750	1.40	40.70		
42	8460	1.60	35.31		
48	7400	1.80	30.89		
54	6520	2.00	27.22		
63	5570	2.2	23.27		
73	4850	2.4	20.23		

G83A DA225SD4 529

33	10800	0.85	44.91		
38	9250	0.95	38.61		
43	8300	1.00	34.66		
50	7120	1.10	29.74		
57	6160	1.25	25.70		
66	5350	1.35	22.34		

G82A DA225SD4 526

78	4510	1.35	18.81		
87	4070	1.45	17.01		
100	3530	1.60	14.76		
114	3090	1.75	12.91		
130	2720	1.95	11.37		
151	2350	1.95	9.79		
167	2120	2.1	8.85		
192	1840	2.2	7.68		
219	1610	2.4	6.72		
249	1420	2.6	5.92		
291	1210	3.2	5.06		
335	1050	3.5	4.40		

### 45.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G93A DA225MD4					666
28	15600	0.85	53.46		
30	14400	0.95	49.31		
33	13100	1.05	45.02		
36	11900	1.15	40.70		
42	10300	1.30	35.31		
48	9000	1.50	30.89		
54	7930	1.65	27.22		
63	6780	1.80	23.27		
73	5890	2.00	20.23		

G92A DA225MD4 658

85	5050	2.3	17.34		
97	4450	2.5	15.26		
161	2670	2.5	9.15		

Type n2 [1/min] T2 [Nm] cG i -kg

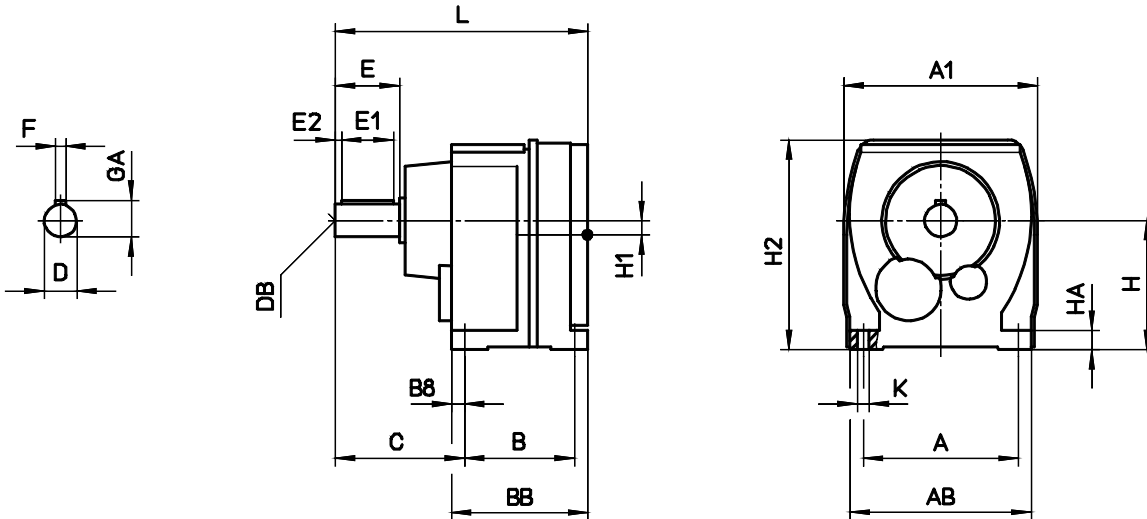
### 45.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
G83A DA225MD4					561
43	10100	0.80	34.66		



## Dimensions

### A - Foot mounted version



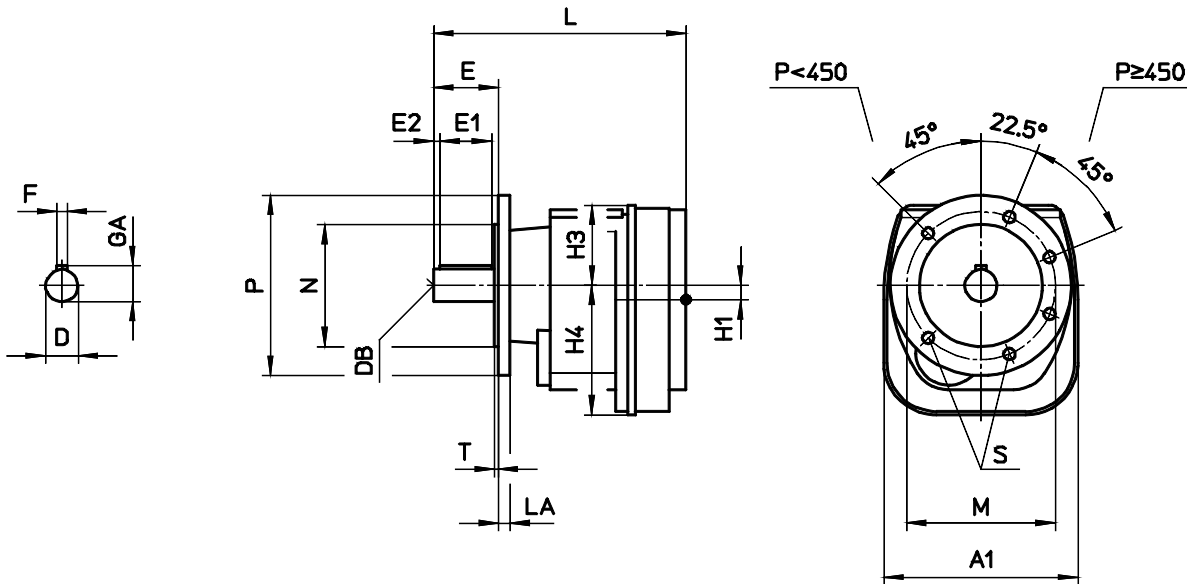
	A	AB	A1	B	BB	B8	C	H	HA	H1	H2	K	L	D	DB	E	E1	E2	F	GA
<b>G0</b>	90	105	109	70	90	12.5	80	70-0.5	10	7	117.5	Ø6.6	151.5	Ø20k6	M6	40	32	4	6	22.5
<b>G1</b>	100	120	125	70	90	10	81	85-0.5	12	5	142.5	Ø6.6	163	Ø20k6	M6	40	32	4	6	22.5
<b>G2</b>	120	140	150	85	105	10	100	100-0.5	18	11	162.5	Ø9	195	Ø25k6	M10	50	40	5	8	28
<b>G3</b>	135	160	177	110	135	12.5	116.5 126.5	120-0.5	24	11	192.5	Ø11	234 244	Ø30k6 Ø35k6	M10 M12	60 70	50 60	5 5	8 10	33 38
<b>G4</b>	170	200	208	135	165	15	146	145-0.5	30	16	233	Ø13.5	281	Ø40k6	M16	80	70	5	12	43
<b>G5</b>	215	250	259	170	205	17.5	181	180-0.5	35	20	289.5	Ø17.5	335	Ø50k6	M16	100	80	10	14	53.5
<b>G6</b>	255	300	309	200	245	23	207	220-0.5	45	20	354.5	Ø22	392	Ø60m6	M20	120	100	10	18	64
<b>G7</b>	290	350	360	280	330	25	239	250-1	55	28.5	401.5	Ø26	485	Ø75m6	M20	140	125	7.5	20	79.5
<b>G8</b>	330	400	412	330	395	32.5	290	290-1	65	32	464	Ø33	585.5	Ø90m6	M24	170	140	15	25	95
<b>G9</b>	390	460	466	400	480	40	335	340-1	75	39	534	Ø39	695	Ø110m6	M24	210	180	15	28	116

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## C - Flange mounted version



	A1	H1	L	H3	H4	D	DB	E	E1	E2	F	GA
<b>G0</b>	109	7	151.5	47.5	71	Ø20k6	M6	40	32	4	6	22.5
<b>G1</b>	125	5	163	57.5	85	Ø20k6	M6	40	32	4	6	22.5
<b>G2</b>	150	11	195	62.5	100.5	Ø25k6	M10	50	40	5	8	28
<b>G3</b>	177	11	234 244	72.5	120	Ø30k6 Ø35k6	M10 M12	60 70	50 60	5 5	8 10	33 38
<b>G4</b>	208	16	281	88	144.5	Ø40k6	M16	80	70	5	12	43
<b>G5</b>	259	20	335	109.5	179	Ø50k6	M16	100	80	10	14	53.5
<b>G6</b>	309	20	392	134.5	218.5	Ø60m6	M20	120	100	10	18	64
<b>G7</b>	360	28.5	485	151.5	248.5	Ø75m6	M20	140	125	7.5	20	79.5
<b>G8</b>	412	32	585.5	174	289	Ø90m6	M24	170	140	15	25	95
<b>G9</b>	466	39	695	194	338.5	Ø110m6	M24	210	180	15	28	116

	M	N	P	LA	T	S
<b>G0</b>	Ø100	Ø80 j6	Ø120	8	3	Ø6.6
<b>G1</b>	Ø100	Ø80 j6	Ø120	8	3	Ø6.6
	Ø115	Ø95 j6	Ø140	9	3	Ø9
<b>G2</b>	Ø115	Ø95 j6	Ø140	9	3	Ø9
	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
<b>G3</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>G4</b>	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>G5</b>	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
<b>G6</b>	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
<b>G7</b>	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
<b>G8</b>	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
<b>G9</b>	Ø400	Ø350 h6	Ø450	16	5	Ø17.5

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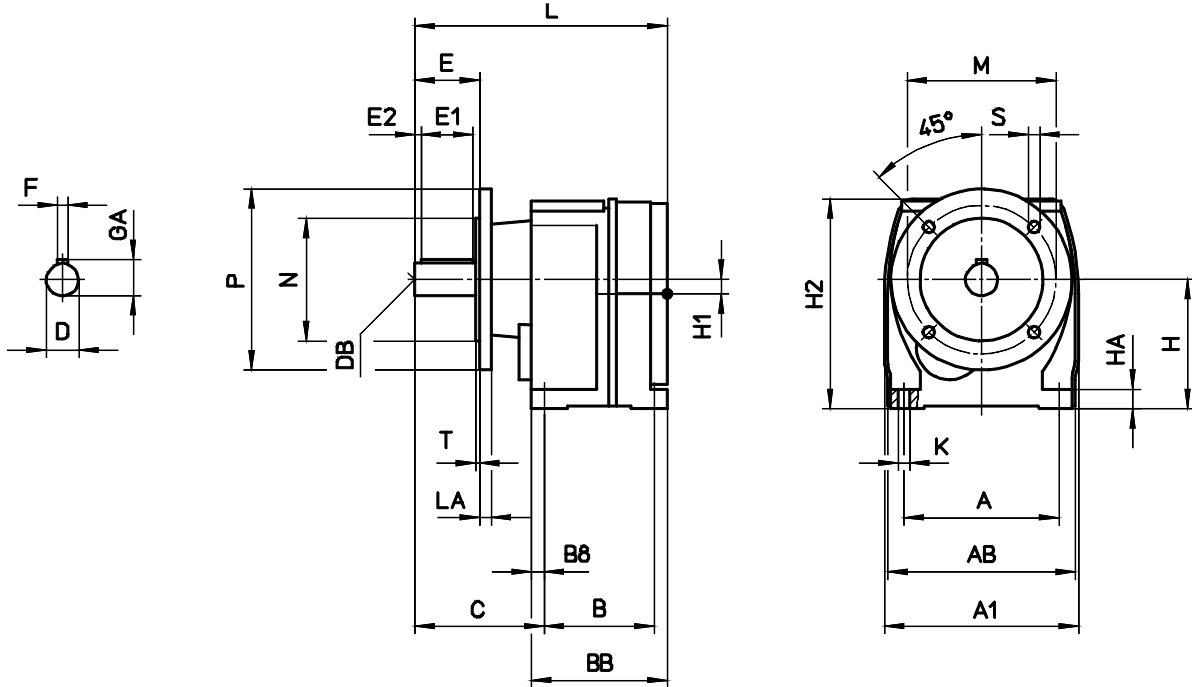
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## E - Foot-flange mounted version



	A	AB	A1	B	BB	B8	C	H	HA	H1	H2	K	L	D	DB	E	E1	E2	F	GA
<b>G0</b>	90	105	109	70	90	12.5	80	70-0.5	10	7	117.5	Ø6.6	151.5	Ø20k6	M6	40	32	4	6	22.5
<b>G1</b>	100	120	125	70	90	10	81	85-0.5	12	5	142.5	Ø6.6	163	Ø20k6	M6	40	32	4	6	22.5
<b>G2</b>	120	140	150	85	105	10	100	100-0.5	18	11	162.5	Ø9	195	Ø25k6	M10	50	40	5	8	28
<b>G3</b>	135	160	177	110	135	12.5	116.5 126.5	120-0.5	24	11	192.5	Ø11	234 244	Ø30k6 Ø35k6	M10 M12	60 70	50 60	5 5	8 10	33 38
<b>G4</b>	170	200	208	135	165	15	146	145-0.5	30	16	233	Ø13.5	281	Ø40k6	M16	80	70	5	12	43
<b>G5</b>	215	250	259	170	205	17.5	181	180-0.5	35	20	289.5	Ø17.5	335	Ø50k6	M16	100	80	10	14	53.5

	M	N	P	LA	T	S
<b>G0</b>	Ø100	Ø80 j6	Ø120	8	3	Ø6.6
<b>G1</b>	Ø100	Ø80 j6	Ø120	8	3	Ø6.6
	Ø115	Ø95 j6	Ø140	9	3	Ø9
<b>G2</b>	Ø115	Ø95 j6	Ø140	9	3	Ø9
	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
<b>G3</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>G4</b>	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>G5</b>	Ø215	Ø180 j6	Ø250	11	4	Ø13.5

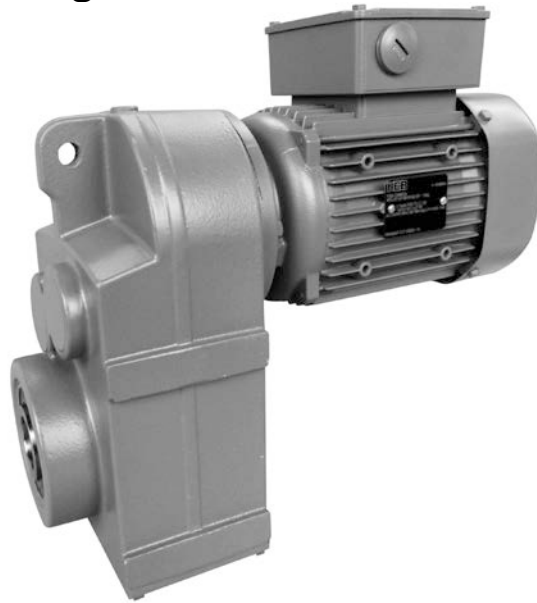
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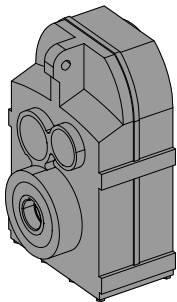
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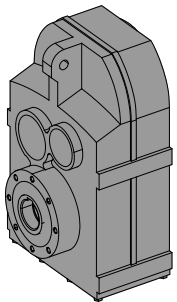
## Shaft mounted helical gear units F



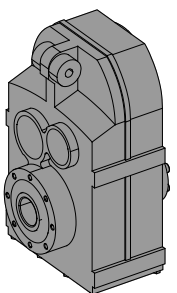
### Type of construction



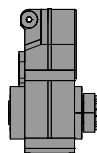
Shaft mounted version  
Hollow shaft with keyway  
Example: F42**A**

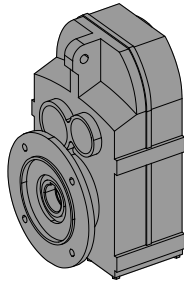


Shaft mounted version  
Hollow shaft with keyway  
Example: F53**B**

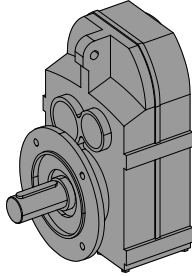


Shaft mounted version  
Hollow shaft with shrink disc  
Rubber elements  
Example: F32**BSG**

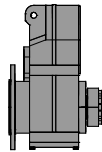
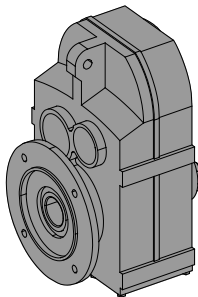




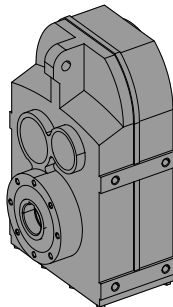
Flange mounted version  
Hollow shaft with keyway  
Example: F33**C**



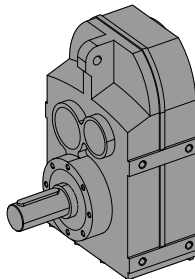
Flange mounted version  
Output shaft with key  
Example: F42**CV**



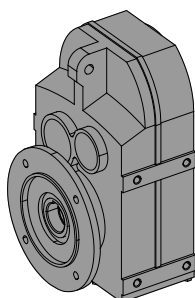
Flange mounted version  
Hollow shaft with shrink disc  
Example: F52**CS**



Shaft mounted version + side areas  
Hollow shaft with keyway  
Example: F43**D**



Shaft mounted version + side areas  
Output shaft with key  
Example: F32**DV**



Flange mounted version + side areas  
Hollow shaft with keyway  
Example: F42**E**

## Selection table - Gear units

### Selection table - Gear units

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F23G03</b>			
9125.4	0.15	245	<0.05
7709.2	0.18	245	<0.05
6591.1	0.21	245	<0.05
5686.0	0.25	245	<0.05
4938.4	0.28	245	<0.05
4310.3	0.32	245	<0.05
3720.4	0.38	245	<0.05
3209.5	0.44	245	<0.05
2787.5	0.50	245	<0.05
2433.0	0.58	245	<0.05

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F23G02</b>			
2135.7	0.66	245	<0.05
1804.3	0.78	245	<0.05
1542.6	0.91	245	<0.05
1330.8	1.1	245	<0.05
1155.8	1.2	245	<0.05
1008.8	1.4	245	<0.05
883.58	1.6	245	<0.05
759.44	1.8	245	<0.05
655.15	2.1	245	0.05
569.00	2.5	245	0.06
496.64	2.8	245	0.07
434.99	3.2	245	0.08
380.22	3.7	245	0.09
334.98	4.2	245	0.11
296.97	4.7	245	0.12
266.48	5.3	245	0.13
232.93	6.0	245	0.15
205.21	6.8	245	0.18
181.93	7.7	245	0.20

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F23</b>			
170.20	8.2	245	0.21
145.41	9.6	245	0.25
125.84	11	245	0.29
109.99	13	245	0.33
96.90	14	245	0.37
85.91	16	245	0.42
77.09	18	245	0.47
67.38	21	245	0.53
59.37	24	245	0.61
52.63	27	245	0.68
46.08	30	245	0.78
40.60	34	245	0.88
35.99	39	245	1.00
32.07	44	245	1.12
28.79	49	245	1.25
25.12	56	245	1.43
22.01	64	230	1.53

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F22</b>			
32.42	43	245	1.11
27.83	50	245	1.29
24.21	58	245	1.48
21.28	66	245	1.69
18.86	74	245	1.90
16.82	83	245	2.13
15.09	93	240	2.33
13.71	102	235	2.51
12.09	116	225	2.73
10.71	131	215	2.94
9.58	146	205	3.14
8.34	168	193	3.39
7.62	184	165	3.17
6.80	206	160	3.45
6.10	230	150	3.61
5.54	253	142	3.76
4.89	287	132	3.96
4.33	324	122	4.13
3.87	362	114	4.32
3.37	415	104	4.52

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F33G13</b>			
12764	0.11	470	<0.05
10821	0.13	470	<0.05
9286.8	0.15	470	<0.05
8044.8	0.17	470	<0.05
7018.8	0.20	470	<0.05
6157.0	0.23	470	<0.05
5422.8	0.26	470	<0.05
4768.5	0.29	470	<0.05
4092.4	0.34	470	<0.05
3545.1	0.39	470	<0.05
3092.9	0.45	470	<0.05

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F33G12</b>			
2753.1	0.51	470	<0.05
2352.1	0.60	470	<0.05
2035.5	0.69	470	<0.05
1779.2	0.79	470	<0.05
1567.5	0.89	470	<0.05
1389.7	1.0	470	<0.05
1238.2	1.1	470	0.06
1111.5	1.3	470	0.06
970.15	1.4	470	0.07
849.73	1.6	470	0.08
781.01	1.8	470	0.09
688.08	2.0	470	0.10
610.01	2.3	470	0.11
543.51	2.6	470	0.13
487.91	2.9	470	0.14
425.86	3.3	470	0.16
373.00	3.8	470	0.19
332.76	4.2	470	0.21
298.48	4.7	470	0.23
271.27	5.2	470	0.25
239.17	5.9	470	0.29
211.83	6.6	470	0.33

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F33</b>			
190.26	7.4	470	0.36
163.34	8.6	470	0.42
142.09	9.9	470	0.49
124.88	11	470	0.55
110.67	13	470	0.62
98.73	14	470	0.70
88.56	16	470	0.78
80.49	17	470	0.86
70.96	20	470	0.97
62.85	22	470	1.10
56.24	25	470	1.23
49.17	28	470	1.40
43.87	32	470	1.57
39.35	36	470	1.75
35.76	39	470	1.93
31.53	44	470	2.19
27.93	50	470	2.47
24.99	56	470	2.76
21.75	64	465	3.13

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F32</b>			
27.55	51	470	2.51
24.60	57	470	2.81
22.12	63	470	3.12
20.01	70	465	3.41
18.24	77	450	3.62
16.27	86	435	3.92
14.60	96	425	4.27
13.24	106	415	4.59
11.74	119	400	5.00
10.33	136	385	5.5
9.05	155	375	6.1
8.50	165	245	4.23
7.95	176	360	6.6
7.58	185	235	4.54
6.80	206	225	4.85
6.17	227	215	5.1
5.47	256	205	5.5
4.81	291	192	5.8
4.21	332	181	6.3
3.70	378	170	6.7

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F43G13</b>			
16236	0.086	885	<0.05
13764	0.10	885	<0.05
11813	0.12	885	<0.05
10233	0.14	885	<0.05
8927.9	0.16	885	<0.05
7831.6	0.18	885	<0.05
6897.8	0.20	885	<0.05
6065.5	0.23	885	<0.05
5205.5	0.27	885	<0.05
4509.3	0.31	885	<0.05
3934.2	0.36	885	<0.05

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F43G12</b>			
3501.9	0.40	885	<0.05
2991.9	0.47	885	<0.05
2589.2	0.54	885	<0.05
2263.2	0.62	885	0.06
1993.9	0.70	885	0.06
1767.6	0.79	885	0.07
1574.9	0.89	885	0.08
1413.8	0.99	885	0.09
1234.0	1.1	885	0.10
1080.8	1.3	885	0.12
993.44	1.4	885	0.13
875.23	1.6	885	0.15
775.93	1.8	885	0.17
691.34	2.0	885	0.19
620.62	2.3	885	0.21
541.69	2.6	885	0.24
474.45	3.0	885	0.27
426.68	3.3	885	0.30
386.00	3.6	885	0.34
351.84	4.0	885	0.37
313.88	4.5	885	0.41
281.55	5.0	885	0.46
255.44	5.5	885	0.51
226.36	6.2	885	0.57
199.24	7.0	885	0.65

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>F43</b>			
235.25	6.0	885	0.55
203.29	6.9	885	0.64
178.07	7.9	885	0.73
157.64	8.9	885	0.82
140.77	9.9	885	0.92
126.60	11	885	1.02
114.53	12	885	1.13
104.39	13	885	1.24
93.13	15	885	1.39
83.54	17	885	1.55
75.79	18	885	1.71
67.16	21	885	1.93
59.12	24	885	2.19
51.77	27	885	2.50
46.92	30	885	2.76
42.08	33	885	3.08
38.18	37	885	3.39
33.83	41	885	3.83
29.78	47	885	4.35
26.08	54	850	4.78
22.91	61	785	5.0

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i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F42</b>			
30.05	47	885	4.31
27.14	52	885	4.77
24.65	57	885	5.3
22.54	62	885	5.7
20.22	69	885	6.4
18.25	77	885	7.1
16.80	83	885	7.5
15.02	93	885	7.5
13.33	105	885	7.5
11.82	118	885	7.5
10.51	133	885	7.5
9.01	155	885	7.5
7.94	176	885	7.5
7.36	190	440	7.5
6.77	207	570	7.5
6.05	231	555	7.5
5.38	260	565	7.5
4.76	294	535	7.5
4.24	330	505	7.5
3.63	385	470	7.5
3.20	437	440	7.5

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F53G23</b>			
16911	0.083	1580	<0.05
14448	0.097	1580	<0.05
12503	0.11	1580	<0.05
10929	0.13	1580	<0.05
9628.5	0.15	1580	<0.05
8536.1	0.16	1580	<0.05
7659.6	0.18	1580	<0.05
6695.2	0.21	1580	<0.05
5898.5	0.24	1580	<0.05
5229.3	0.27	1580	<0.05
4578.3	0.31	1580	0.05
4033.5	0.35	1580	0.06
3575.9	0.39	1580	0.06

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F53G22</b>			
3221.2	0.43	1580	0.07
2765.4	0.51	1580	0.08
2405.6	0.58	1580	0.10
2114.3	0.66	1580	0.11
1873.6	0.75	1580	0.12
1671.5	0.84	1580	0.14
1499.3	0.93	1580	0.15
1362.7	1.0	1580	0.17
1201.4	1.2	1580	0.19
1064.0	1.3	1580	0.22
960.29	1.5	1580	0.24
883.90	1.6	1580	0.26
776.06	1.8	1580	0.30
696.12	2.0	1580	0.33
632.66	2.2	1580	0.37
557.80	2.5	1580	0.42
494.02	2.8	1580	0.47
445.85	3.1	1580	0.52
410.38	3.4	1580	0.57
366.79	3.8	1580	0.63
325.70	4.3	1580	0.71
288.62	4.9	1580	0.80
252.64	5.5	1580	0.92
228.00	6.1	1580	1.02
209.86	6.7	1580	1.11
196.76	7.1	1580	1.18

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F53</b>			
205.64	6.8	1580	1.13
182.73	7.7	1580	1.27
163.81	8.5	1580	1.42
147.91	9.5	1580	1.57
134.37	10	1580	1.73
122.86	11	1580	1.89
110.24	13	1580	2.11
99.49	14	1580	2.33
91.57	15	1580	2.54
81.85	17	1580	2.84
72.68	19	1580	3.20
64.40	22	1580	3.61
56.37	25	1580	4.12
50.88	28	1580	4.56
46.83	30	1580	4.96
41.85	33	1580	5.5
37.17	38	1580	6.2
32.93	43	1580	7.1
29.31	48	1580	7.9
25.11	56	1580	9.2
22.15	63	1480	9.8

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F52</b>			
34.34	41	1460	6.2
31.33	45	1450	6.8
28.82	49	1580	8.1
26.01	54	1580	8.9
23.61	59	1580	9.8
21.83	64	1580	10.6
19.67	71	1580	11.8
17.62	79	1580	13.2
15.78	89	1580	14.7
14.20	99	1580	15.0
12.39	113	1580	15.0
11.10	126	1530	15.0
9.85	142	1480	15.0
8.65	162	1430	15.0
7.74	181	910	15.0
6.94	202	870	15.0
6.24	224	835	15.0
5.45	257	785	15.0
4.88	287	750	15.0
4.33	323	710	15.0
3.80	368	665	15.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F63G23</b>			
20876	0.067	2800	<0.05
17836	0.078	2800	<0.05
15435	0.091	2800	<0.05
13492	0.10	2800	<0.05
11886	0.12	2800	<0.05
10538	0.13	2800	<0.05
9455.6	0.15	2800	<0.05
8265.1	0.17	2800	<0.05
7281.6	0.19	2800	0.06
6455.5	0.22	2800	0.06
5651.9	0.25	2800	0.07
4979.3	0.28	2800	0.08
4414.4	0.32	2800	0.09

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F63G22</b>			
3976.5	0.35	2800	0.10
3413.8	0.41	2800	0.12
2969.6	0.47	2800	0.14
2610.0	0.54	2800	0.16
2313.0	0.61	2800	0.18
2063.5	0.68	2800	0.20
1850.9	0.76	2800	0.22
1682.2	0.83	2800	0.24
1483.1	0.94	2800	0.28
1313.5	1.1	2800	0.31
1214.4	1.2	2800	0.34
1094.0	1.3	2800	0.38
958.03	1.5	2800	0.43
859.35	1.6	2800	0.48
781.01	1.8	2800	0.53
688.59	2.0	2800	0.60
609.86	2.3	2800	0.67
563.82	2.5	2800	0.73
507.91	2.8	2800	0.81
455.13	3.1	2800	0.90
407.58	3.4	2800	1.01
366.82	3.8	2800	1.12
320.02	4.4	2800	1.28
286.71	4.9	2800	1.43
254.33	5.5	2800	1.62

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F63</b>			
242.53	5.8	2800	1.69
218.27	6.4	2800	1.88
197.90	7.1	2800	2.08
180.55	7.8	2800	2.28
166.08	8.4	2800	2.47
149.88	9.3	2800	2.74
136.08	10	2800	3.02
125.81	11	2800	3.27
113.33	12	2800	3.63
101.56	14	2800	4.05
90.95	15	2800	4.52
81.85	17	2800	5.0
71.41	20	2800	5.8
63.98	22	2800	6.4
56.75	25	2800	7.2
49.31	28	2800	8.3
44.16	32	2800	9.3
39.74	35	2800	10.3
34.67	40	2800	11.9
31.06	45	2780	13.1
27.56	51	2590	13.8
24.21	58	2390	14.5

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F62</b>			
34.05	41	2550	11.0
31.05	45	2520	11.9
28.80	49	2800	14.3
26.09	54	2800	15.7
23.73	59	2800	17.3
21.42	65	2800	19.2
19.43	72	2760	20.8
16.83	83	2650	22.0
15.23	92	2580	22.0
13.82	101	2510	22.0
12.33	114	2430	22.0
10.45	134	2320	22.0
8.92	157	2220	22.0
7.70	182	1440	22.0
6.97	201	1400	22.0
6.33	221	1340	22.0
5.64	248	1280	22.0
4.78	293	1190	22.0
4.08	343	1100	22.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F73G33</b>			
21379	0.065	4880	<0.05
18354	0.076	4880	<0.05
15966	0.088	4880	<0.05
14033	0.100	4880	0.05
12436	0.11	4880	0.06
11094	0.13	4880	0.06
9951.3	0.14	4880	0.07
9044.1	0.15	4880	0.08
7973.9	0.18	4880	0.09
7062.2	0.20	4880	0.10
6407.0	0.22	4880	0.11
5550.0	0.25	4880	0.13
4929.5	0.28	4880	0.15
4421.8	0.32	4880	0.16
4018.7	0.35	4880	0.18
3543.1	0.40	4880	0.20

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F73G32</b>			
3095.5	0.45	4880	0.23
2764.2	0.51	4880	0.26
2485.9	0.56	4880	0.29
2248.8	0.62	4880	0.32
2049.8	0.68	4880	0.35
1828.7	0.77	4880	0.39
1640.3	0.85	4880	0.44
1488.1	0.94	4880	0.48
1289.1	1.1	4880	0.55
1166.4	1.2	4880	0.61
1058.9	1.3	4880	0.68
944.12	1.5	4880	0.76
879.92	1.6	4880	0.81
789.28	1.8	4880	0.91
716.05	2.0	4880	1.00
620.27	2.3	4880	1.15
561.22	2.5	4880	1.27
509.49	2.7	4880	1.40
454.28	3.1	4880	1.57
385.26	3.6	4880	1.86
347.80	4.0	4880	2.06
315.75	4.4	4880	2.26
281.53	5.0	4880	2.54
238.76	5.9	4880	2.99

## Selection table - Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F73</b>			
274.23	5.1	4880	2.61
249.41	5.6	4880	2.87
228.27	6.1	4880	3.13
211.55	6.6	4880	3.38
191.74	7.3	4880	3.73
174.87	8.0	4880	4.09
162.19	8.6	4880	4.41
146.94	9.5	4880	4.87
133.66	10	4880	5.3
120.60	12	4880	5.9
109.41	13	4880	6.5
94.78	15	4880	7.5
85.76	16	4880	8.3
77.85	18	4880	9.2
69.41	20	4880	10.3
58.87	24	4880	12.1
51.81	27	4880	13.8
44.88	31	4880	15.9
40.61	34	4810	17.4
36.86	38	4630	18.4
32.87	43	4410	19.7
27.88	50	4100	21.6
23.79	59	3810	23.5

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F72</b>			
28.53	49	4430	22.8
25.85	54	4300	24.4
23.54	59	4190	26.1
20.62	68	4030	28.6
18.76	75	3920	30.0
16.90	83	3800	30.0
15.17	92	3690	30.0
13.01	108	3530	30.0
11.25	124	3390	30.0
9.78	143	3260	30.0
9.11	154	2240	30.0
8.29	169	2160	30.0
7.46	188	2070	30.0
6.70	209	1980	30.0
5.75	244	1860	30.0
4.97	282	1740	30.0
4.32	324	1630	30.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F83G33</b>			
22582	0.062	8900	0.06
19387	0.072	8900	0.07
16864	0.083	8900	0.08
14822	0.094	8900	0.09
13135	0.11	8900	0.10
11718	0.12	8900	0.11
10511	0.13	8900	0.12
9552.8	0.15	8900	0.14
8422.4	0.17	8900	0.15
7459.4	0.19	8900	0.17
6586.0	0.21	8900	0.20
5836.4	0.24	8900	0.22
5206.8	0.27	8900	0.25
4670.4	0.30	8900	0.28
4244.7	0.33	8900	0.31
3742.4	0.37	8900	0.35

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F83G32</b>			
3269.6	0.43	8900	0.40
2919.6	0.48	8900	0.45
2625.7	0.53	8900	0.50
2375.3	0.59	8900	0.55
2165.1	0.65	8900	0.60
1931.5	0.72	8900	0.68
1732.6	0.81	8900	0.75
1578.2	0.89	8900	0.83
1382.4	1.0	8900	0.94
1257.5	1.1	8900	1.04
1132.6	1.2	8900	1.15
1016.9	1.4	8900	1.28
929.40	1.5	8900	1.40
833.66	1.7	8900	1.57
756.35	1.9	8900	1.73
670.24	2.1	8900	1.95
589.95	2.4	8900	2.21
516.64	2.7	8900	2.53
470.60	3.0	8900	2.77
412.22	3.4	8900	3.17
374.97	3.7	8900	3.48
337.74	4.1	8900	3.86
303.24	4.6	8900	4.30
260.13	5.4	8900	5.0
228.49	6.1	8900	5.7

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>F83</b>			
200.61	7.0	8900	6.5
183.42	7.6	8900	7.1
169.54	8.3	8900	7.7
154.08	9.1	8900	8.5
140.63	10.0	8900	9.3
127.39	11	8900	10.2
116.03	12	8900	11.2
101.64	14	8900	12.8
92.45	15	8900	14.1
83.27	17	8900	15.7
74.77	19	8900	17.5
64.14	22	8900	20.3
55.44	25	8900	23.5
48.19	29	8850	26.9
41.43	34	8540	30.2
37.20	38	8260	32.6
31.91	44	7890	36.3
27.58	51	7550	40.1
23.97	58	7240	44.3

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>F82</b>			
20.19	69	6480	45.0
18.25	77	6290	45.0
15.83	88	6040	45.0
13.85	101	5810	45.0
12.20	115	5600	45.0
10.08	139	3790	45.0
9.11	154	3650	45.0
7.90	177	3450	45.0
6.92	202	3270	45.0
6.09	230	3100	45.0

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## Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.12 kW</b>					
F33G12A DM63K4					26
2.8	390	1.20	487.91		
3.2	340	1.40	425.86		
3.7	295	1.60	373.00		
4.1	265	1.80	332.76		
4.6	240	2.00	298.48		
F23G02A DM63K4					18
3.6	305	0.80	380.22		
4.1	265	0.90	334.98		
4.6	235	1.05	296.97		
5.2	210	1.15	266.48		
5.9	186	1.30	232.93		
6.7	164	1.50	205.21		
7.6	145	1.70	181.93		
F23A DM63K4					14
8.1	141	1.75	170.20		
9.5	121	2.0	145.41		
11	104	2.3	125.84		
13	91	2.7	109.99		
14	80	3.0	96.90		
16	71	3.4	85.91		
18	64	3.8	77.09		
20	56	4.4	67.38		
23	49	5.0	59.37		
26	44	5.6	52.63		
30	38	6.4	46.08		
34	34	7.3	40.60		
38	30	8.2	35.99		
43	27	9.2	32.07		
48	24	10	28.79		
55	21	12	25.12		
63	18	13	22.01		
F22A DM63K4					14
43	27	9.1	32.42		
50	23	11	27.83		
57	20	12	24.21		
65	18	14	21.28		
73	16	16	18.86		
82	14	18	16.82		
91	13	19	15.09		
101	11	21	13.71		
114	10	22	12.09		
129	8.9	24	10.71		
181	6.3	26	7.62		
203	5.6	28	6.80		
226	5.1	30	6.10		
249	4.6	31	5.54		
282	4.1	33	4.89		
319	3.6	34	4.33		
<b>0.18 kW</b>					
F43G12A DM63G4					37
2.9	565	1.55	474.45		
3.2	510	1.75	426.68		
3.6	460	1.90	386.00		
F33G12A DM63G4					27
2.8	585	0.80	487.91		
3.2	510	0.90	425.86		
3.7	445	1.05	373.00		
4.1	400	1.20	332.76		
4.6	355	1.30	298.48		
5.1	325	1.45	271.27		
5.8	285	1.65	239.17		
6.5	255	1.85	211.83		
F33A DM63G4					21
7.3	235	2.00	190.26		
<b>0.18 kW</b>					
F23G02A DM63G4					18
5.9	280	0.90	232.93		
6.7	245	1.00	205.21		
7.6	220	1.15	181.93		
F23A DM63G4					15
8.1	210	1.15	170.20		
9.5	181	1.35	145.41		
11	157	1.55	125.84		
13	137	1.80	109.99		
14	121	2.0	96.90		
16	107	2.3	85.91		
18	96	2.6	77.09		
20	84	2.9	67.38		
23	74	3.3	59.37		
26	66	3.7	52.63		
30	57	4.3	46.08		
34	51	4.8	40.60		
38	45	5.5	35.99		
43	40	6.1	32.07		
48	36	6.8	28.79		
55	31	7.8	25.12		
63	27	8.4	22.01		
F22A DM63G4					15
43	40	6.1	32.42		
50	35	7.1	27.83		
57	30	8.1	24.21		
65	27	9.2	21.28		
73	23	10	18.86		
82	21	12	16.82		
91	19	13	15.09		
101	17	14	13.71		
114	15	15	12.09		
129	13	16	10.71		
181	9.5	17	7.62		
203	8.5	19	6.80		
226	7.6	20	6.10		
249	6.9	21	5.54		
282	6.1	22	4.89		
319	5.4	23	4.33		
<b>0.25 kW</b>					
F53G22A DM71K4					63
2.9	805	1.95	494.02		
F43G12A DM71K4					38
3.0	770	1.15	474.45		
3.3	695	1.25	426.68		
3.7	625	1.40	386.00		
4.0	570	1.55	351.84		
4.5	510	1.75	313.88		
5.0	460	1.95	281.55		
F33G12A DM71K4					27
3.8	605	0.80	373.00		
4.2	540	0.85	332.76		
4.7	485	0.95	298.48		
5.2	440	1.05	271.27		
5.9	390	1.20	239.17		
6.7	345	1.35	211.83		
F33A DM71K4					22
7.4	320	1.45	190.26		
8.6	275	1.70	163.34		
9.9	240	1.95	142.09		
F23G02A DM71K4					19
7.8	295	0.85	181.93		
<b>0.25 kW</b>					
F23A DM71K4					16
8.3	290	0.85	170.20		
9.7	245	1.00	145.41		
11	215	1.15	125.84		
13	186	1.30	109.99		
15	164	1.50	96.90		
16	145	1.70	85.91		
18	131	1.90	77.09		
21	114	2.1	67.38		
24	101	2.4	59.37		
27	89	2.7	52.63		
31	78	3.1	46.08		
35	69	3.6	40.60		
39	61	4.0	35.99		
44	54	4.5	32.07		
49	49	5.0	28.79		
56	43	5.8	25.12		
64	37	6.2	22.01		
F22A DM71K4					15
43	55	4.5	32.42		
51	47	5.2	27.83		
58	41	6.0	24.21		
66	36	6.8	21.28		
75	32	7.7	18.86		
84	28	8.6	16.82		
93	26	9.4	15.09		
103	23	10	13.71		
117	20	11	12.09		
132	18	12	10.71		
185	13	13	7.62		
207	12	14	6.80		
231	10	15	6.10		
254	9.4	15	5.54		
289	8.3	16	4.89		
326	7.3	17	4.33		
<b>0.37 kW</b>					
F53G22A DM71G4					63
2.9	1190	1.35	494.02		
3.2	1070	1.50	445.85		
3.4	985	1.60	410.38		
3.8	880	1.80	366.79		
4.3	785	2.0	325.70		
F43G12A DM71G4					39
3.3	1030	0.85	426.68		
3.7	930	0.95	386.00		
4.0	845	1.05	351.84		
4.5	755	1.15	313.88		
5.0	675	1.30	281.55		
5.5	615	1.45	255.44		
6.2	545	1.60	226.36		
7.1	480	1.85	199.24		
F43A DM71G4					34
6.0	590	1.50	235.25		
6.9	510	1.75	203.29		
7.9	445	2.00	178.07		
F33G12A DM71G4					28
5.9	575	0.80	239.17		
6.7	510	0.90	211.83		
F33A DM71G4					23
7.4	475	1.00	190.26		
8.6	410	1.15	163.34		
9.9	355	1.30	142.09		
11	315	1.50	124.88		
13	275	1.70	110.67		
14	245	1.90	98.73		
<b>0.37 kW</b>					
F63G22A DM80K4					97
3.1	1630	1.70	455.13		
3.4	1460	1.90	407.58		
F53G22A DM80K4					65
2.8	1770	0.90	494.02		
3.2	1600	1.00	445.85		
3.4	1470	1.10	410.38		
3.8	1320	1.20	366.79		
4.3	1170	1.35	325.70		
4.9	1040	1.55	288.62		
5.6	905	1.75	252.64		
6.2	820	1.95	228.00		
F43G12A DM80K4					41
4.5	1130	0.80	313.88		
5.0	1010	0.85	281.55		
5.5	915	0.95	255.44		
6.2	810	1.10	226.36		
7.1	715	1.25	199.24		
F43A DM80K4					35
7.9	665	1.35	178.07		
8.9	590	1.50	157.64		
10.0	525	1.70	140.77		
11	475	1.85	126.60		
<b>0.55 kW</b>					

## Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.55 kW</b>					
F33A DM80K4					25
9.9	530	0.90	142.09		
11	465	1.00	124.88		
13	415	1.15	110.67		
14	370	1.30	98.73		
16	330	1.40	88.56		
17	300	1.55	80.49		
20	265	1.80	70.96		
22	235	2.0	62.85		
F23A DM80K4					18
18	290	0.85	77.09		
21	250	0.95	67.38		
24	220	1.10	59.37		
27	197	1.25	52.63		
30	172	1.40	46.08		
35	152	1.60	40.60		
39	135	1.80	35.99		
44	120	2.0	32.07		
49	108	2.3	28.79		
56	94	2.6	25.12		
64	82	2.8	22.01		
F22A DM80K4					18
58	91	2.7	24.21		
66	80	3.1	21.28		
75	70	3.5	18.86		
84	63	3.9	16.82		
93	56	4.3	15.09		
102	51	4.6	13.71		
116	45	5.0	12.09		
131	40	5.4	10.71		
184	28	5.8	7.62		
207	25	6.3	6.80		
230	23	6.6	6.10		
254	21	6.9	5.54		
288	18	7.2	4.89		
325	16	7.5	4.33		
<b>0.75 kW</b>					
F63G22A DM80GB4					100
3.1	2200	1.30	455.13		
3.5	1970	1.45	407.58		
3.9	1770	1.60	366.82		
4.5	1540	1.80	320.02		
5.0	1380	2.0	286.71		
F53G22A DM80GB4					68
3.5	1980	0.80	410.38		
3.9	1770	0.90	366.79		
4.4	1570	1.00	325.70		
4.9	1390	1.15	288.62		
5.6	1220	1.30	252.64		
6.2	1100	1.45	228.00		
6.8	1010	1.55	209.86		
F53A DM80GB4					59
6.9	1030	1.55	205.64		
7.8	920	1.70	182.73		
8.7	825	1.90	163.81		
F43G12A DM80GB4					44
6.3	1090	0.80	226.36		
7.2	960	0.90	199.24		
F43A DM80GB4					38
8.0	895	1.00	178.07		
9.0	790	1.10	157.64		
10	710	1.25	140.77		
11	635	1.40	126.60		
12	575	1.55	114.53		
14	525	1.70	104.39		
15	470	1.90	93.13		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.75 kW</b>					
F33A DM80GB4					28
13	555	0.85	110.67		
14	495	0.95	98.73		
16	445	1.05	88.56		
18	405	1.15	80.49		
20	355	1.30	70.96		
23	315	1.50	62.85		
29	245	1.90	49.17		
F23A DM80GB4					21
24	300	0.80	59.37		
27	265	0.95	52.63		
31	230	1.05	46.08		
35	205	1.20	40.60		
40	181	1.35	35.99		
44	161	1.50	32.07		
50	145	1.70	28.79		
57	126	1.95	25.12		
65	111	2.1	22.01		
F22A DM80GB4					21
59	122	2.0	24.21		
67	107	2.3	21.28		
76	95	2.6	18.86		
85	85	2.9	16.82		
94	76	3.2	15.09		
104	69	3.4	13.71		
118	61	3.7	12.09		
133	54	4.0	10.71		
187	38	4.3	7.62		
210	34	4.7	6.80		
234	31	4.9	6.10		
257	28	5.1	5.54		
292	25	5.4	4.89		
329	22	5.6	4.33		
<b>1.1 kW</b>					
F73G32A DM90SB4					158
3.2	3170	1.55	454.28		
3.8	2690	1.80	385.26		
4.2	2430	2.0	347.80		
4.6	2200	2.2	315.75		
5.1	1960	2.5	281.53		
F73A DM90SB4					146
5.3	1990	2.4	274.23		
F63G22A DM90SB4					104
3.2	3180	0.90	455.13		
3.5	2840	1.00	407.58		
3.9	2560	1.10	366.82		
4.5	2230	1.25	320.02		
5.0	2000	1.40	286.71		
5.7	1770	1.60	254.33		
F63A DM90SB4					96
6.0	1760	1.60	242.53		
6.6	1590	1.75	218.27		
7.3	1440	1.95	197.90		
8.0	1310	2.1	180.55		
8.7	1210	2.3	166.08		
F53G22A DM90SB4					72
5.0	2010	0.80	288.62		
5.7	1760	0.90	252.64		
6.3	1590	1.00	228.00		
6.9	1460	1.10	209.86		
7.3	1370	1.15	196.76		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.1 kW</b>					
F53A DM90SB4					63
7.9	1330	1.20	182.73		
8.8	1190	1.35	163.81		
9.8	1080	1.45	147.91		
11	975	1.60	134.37		
12	895	1.75	122.86		
13	800	2.00	110.24		
15	725	2.2	99.49		
16	665	2.4	91.57		
F43A DM90SB4					42
10	1020	0.85	140.77		
11	920	0.95	126.60		
13	835	1.05	114.53		
14	760	1.15	104.39		
16	675	1.30	93.13		
17	605	1.45	83.54		
19	550	1.60	75.79		
22	490	1.80	67.16		
24	430	2.1	59.12		
28	375	2.3	51.77		
F33A DM90SB4					32
18	585	0.80	80.49		
20	515	0.90	70.96		
23	455	1.05	62.85		
26	410	1.15	56.24		
29	355	1.30	49.17		
33	320	1.50	43.87		
37	285	1.65	39.35		
40	260	1.80	35.76		
46	230	2.1	31.53		
52	205	2.3	27.93		
F32A DM90SB4					31
52	200	2.4	27.55		
F23A DM90SB4					25
36	295	0.85	40.60		
40	260	0.95	35.99		
45	235	1.05	32.07		
50	210	1.15	28.79		
58	183	1.35	25.12		
66	160	1.45	22.01		
F22A DM90SB4					25
68	155	1.60	21.28		
77	137	1.80	18.86		
86	122	2.0	16.82		
96	110	2.2	15.09		
105	100	2.4	13.71		
120	88	2.6	12.09		
135	78	2.8	10.71		
151	70	2.9	9.58		
173	61	3.2	8.34		
190	55	3.0	7.62		
213	49	3.2	6.80		
237	44	3.4	6.10		
261	40	3.5	5.54		
296	36	3.7	4.89		
334	31	3.9	4.33		
373	28	4.0	3.87		
429	24	4.2	3.37		
<b>1.5 kW</b>					
F83G32A DM90LB4					246
3.1	4450	2.0	470.60		
3.5	3900	2.3	412.22		
3.9	3540	2.5	374.97		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.5 kW</b>					
F73G32A DM90LB4					165
3.2	4290	1.15	454.28		
3.8	3640	1.35	385.26		
4.2	3290	1.50	347.80		
4.6	2980	1.65	315.75		
5.2	2660	1.85	281.53		
6.1	2260	2.2	238.76		
F73A DM90LB4					152
5.3	2700	1.80	274.23		
5.8	2460	2.00	249.41		
6.4	2250	2.2	228.27		
6.9	2080	2.3	211.55		
F63G22A DM90LB4					111
4.0	3470	0.80	366.82		
4.5	3020	0.95	320.02		
5.1	2710	1.05	286.71		
5.7	2400	1.15	254.33		
F63A DM90LB4					102
6.0	2390	1.15	242.53		
6.7	2150	1.30	218.27		
7.4	1950	1.45	197.90		
8.1	1780	1.60	180.55		
8.8	1640	1.70	166.08		
9.7	1480	1.90	149.88		
11	1340	2.1	136.08		
12	1240	2.3	125.81		
13	1120	2.5	113.33		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.5 kW</b>					
F32A DM90LB4					38
53	270	1.75	27.55		
59	240	1.95	24.60		
66	220	2.2	22.12		
73	197	2.4	20.01		
80	180	2.5	18.24		
F23A DM90LB4					32
45	315	0.80	32.07		
51	285	0.85	28.79		
58	245	1.00	25.12		
66	215	1.05	22.01		
F22A DM90LB4					32
68	210	1.15	21.28		
77	186	1.30	18.86		
86	166	1.50	16.82		
96	149	1.60	15.09		
106	135	1.75	13.71		
120	119	1.90	12.09		
136	105	2.0	10.71		
152	94	2.2	9.58		
174	82	2.4	8.34		
191	75	2.2	7.62		
214	67	2.4	6.80		
239	60	2.5	6.10		
263	55	2.6	5.54		
298	48	2.7	4.89		
336	43	2.9	4.33		
376	38	3.0	3.87		
432	33	3.1	3.37		
<b>2.2 kW</b>					
F83G32A DM100LA4					287
3.1	6500	1.35	470.60		
3.5	5690	1.55	412.22		
3.9	5180	1.70	374.97		
4.3	4670	1.90	337.74		
4.8	4190	2.1	303.24		
5.6	3590	2.5	260.13		
F73G32A DM100LA4					193
3.2	6280	0.80	454.28		
3.8	5320	0.90	385.26		
4.2	4800	1.00	347.80		
4.6	4360	1.10	315.75		
5.2	3890	1.25	281.53		
6.1	3300	1.50	238.76		
F73A DM100LA4					184
5.3	3950	1.25	274.23		
5.9	3590	1.35	249.41		
6.4	3280	1.50	228.27		
6.9	3040	1.60	211.55		
7.6	2760	1.75	191.74		
8.3	2520	1.95	174.87		
9.0	2330	2.1	162.19		
9.9	2110	2.3	146.94		
11	1920	2.5	133.66		
F63G22A DM100LA4					131
5.7	3510	0.80	254.33		
F63A DM100LA4					125
6.7	3140	0.90	218.27		
7.4	2850	1.00	197.90		
8.1	2600	1.10	180.55		
8.8	2390	1.15	166.08		
9.7	2160	1.30	149.88		
11	1960	1.45	136.08		
12	1810	1.55	125.81		
13	1630	1.70	113.33		
14	1460	1.90	101.56		
16	1310	2.1	90.95		
18	1180	2.4	81.85		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>2.2 kW</b>					
F53A DM100LA4					93
11	1930	0.80	134.37		
12	1770	0.90	122.86		
13	1590	1.00	110.24		
15	1430	1.10	99.49		
16	1320	1.20	91.57		
18	1180	1.35	81.85		
20	1050	1.50	72.68		
23	925	1.70	64.40		
26	810	1.95	56.37		
29	730	2.2	50.88		
31	675	2.4	46.83		
F43A DM100LA4					69
19	1090	0.80	75.79		
22	965	0.90	67.16		
25	850	1.05	59.12		
28	745	1.20	51.77		
31	675	1.30	46.92		
35	605	1.45	42.08		
38	550	1.60	38.18		
43	485	1.80	33.83		
49	430	2.1	29.78		
56	375	2.3	26.08		
64	330	2.4	22.91		
F42A DM100LA4					67
49	430	2.0	30.05		
54	390	2.3	27.14		
59	355	2.5	24.65		
F33A DM100LA4					56
37	565	0.85	39.35		
41	515	0.90	35.76		
46	455	1.05	31.53		
52	400	1.15	27.93		
58	360	1.30	24.99		
67	315	1.50	21.75		
F32A DM100LA4					54
59	355	1.35	24.60		
66	320	1.50	22.12		
73	290	1.60	20.01		
80	265	1.70	18.24		
90	235	1.85	16.27		
100	210	2.0	14.60		
110	191	2.2	13.24		
124	169	2.4	11.74		
141	149	2.6	10.33		
161	130	2.9	9.05		
172	122	2.0	8.50		
184	114	3.1	7.95		
193	109	2.2	7.58		
215	98	2.3	6.80		
237	89	2.4	6.17		
267	79	2.6	5.47		
303	69	2.8	4.81		
346	61	3.0	4.21		
394	53	3.2	3.70		
<b>3.0 kW</b>					
F83G32A DM100LE4					258
3.1	8900	1.00	470.60		
3.5	7790	1.15	412.22		
3.9	7090	1.25	374.97		
4.3	6380	1.40	337.74		
4.8	5730	1.55	303.24		
5.6	4920	1.80	260.13		
6.4	4320	2.1	228.49		
F83A DM100LE4					244
7.3	3950	2.3	200.61		
7.9	3610	2.5	183.42		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>3.0 kW</b>					
F73G32A DM100LE4					177
4.6	5970	0.80	315.75		
5.2	5320	0.90	281.53		
6.1	4510	1.10	238.76		
F73A DM100LE4					164
5.3	5400	0.90	274.23		
5.8	4910	1.00	249.41		
6.4	4490	1.10	228.27		
6.9	4170	1.15	211.55		
7.6	3780	1.30	191.74		
8.3	3440	1.40	174.87		
9.0	3190	1.55	162.19		
9.9	2890	1.70	146.94		
11	2630	1.85	133.66		
12	2370	2.1	120.60		
13	2150	2.3	109.41		
F63A DM100LE4					114
8.1	3560	0.80	180.55		
8.8	3270	0.85	166.08		
9.7	2950	0.95	149.88		
11	2680	1.05	136.08		
12	2480	1.15	125.81		
13	2230	1.25	113.33		
14	2000	1.40	101.56		
16	1790	1.55	90.95		
18	1610	1.75	81.85		
F53A DM100LE4					83
15	1960	0.80	99.49		
16	1800	0.90	91.57		
18	1610	1.00	81.85		
20	1430	1.10	72.68		
23	1270	1.25	64.40		
26	1110	1.45	56.37		
29	1000	1.60	50.88		
31	920	1.70	46.83		
35	825	1.90	41.85		
39	730	2.2	37.17		
44	650	2.4	32.93		
F52A DM100LE4					81
42	675	2.2	34.34		
46	615	2.3	31.33		
F43A DM100LE4					61
28	1020	0.85	51.77		
31	925	0.95	46.92		
35	830	1.05	42.08		
38	750	1.15	38.18		
43	665	1.35	33.83		
49	585	1.50	29.78		
56	515	1.65	26.08		
64	450	1.75	22.91		
F42A DM100LE4					60
48	590	1.50	30.05		
54	535	1.65	27.14		
59	485	1.80	24.65		
65	445	2.00	22.54		
72	400	2.2	20.22		
80	360	2.5	18.25		
F33A DM100LE4					51
52	550	0.85	27.93		
58	490	0.95	24.99		
67	430	1.10	21.75		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>3.0 kW</b>					
F32A DM100LE4					50
59	485	0.95	24.60		
66	435	1.10	22.12		
73	395	1.20	20.01		
80	360	1.25	18.24		
89	320	1.35	16.27		
100	285	1.50	14.60		
110	260	1.60	13.24		
124	230	1.75	11.74		
141	205	1.90	10.33		
161	178	2.1	9.05		
171	167	1.45	8.50		
183	156	2.3	7.95		
192	149	1.55	7.58		
214	134	1.70	6.80		
236	121	1.75	6.17		
266	108	1.90	5.47		
302	95	2.0	4.81		
345	83	2.2	4.21		

## Selection table - Geared motors

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 4.0 kW

F52A DM112MB4	84
43 900 1.60 34.34	
47 820 1.75 31.33	
51 755 2.1 28.82	
56 680 2.3 26.01	

F43A DM112MB4	65
35 1100 0.80 42.08	
38 1000 0.90 38.18	
43 885 1.00 33.83	
49 780 1.15 29.78	
56 680 1.25 26.08	
64 600 1.30 22.91	

F42A DM112MB4	64
54 710 1.25 27.14	
59 645 1.35 24.65	
65 590 1.50 22.54	
72 530 1.65 20.22	
80 480 1.85 18.25	
87 440 2.0 16.80	
97 395 2.2 15.02	
110 350 2.5 13.33	
198 193 2.3 7.36	

F33A DM112MB4	54
67 570 0.80 21.75	

F32A DM112MB4	54
66 580 0.80 22.12	
73 525 0.90 20.01	
80 475 0.95 18.24	
90 425 1.00 16.27	
100 380 1.10 14.60	
110 345 1.20 13.24	
124 305 1.30 11.74	
141 270 1.40 10.33	
161 235 1.60 9.05	
172 220 1.10 8.50	
184 210 1.75 7.95	
193 198 1.20 7.58	
215 178 1.25 6.80	
237 161 1.35 6.17	
267 143 1.45 5.47	
303 126 1.50 4.81	
346 110 1.65 4.21	
394 97 1.75 3.70	

### 5.5 kW

F83G32A DA132SB4	292
4.8 10500 0.85 303.24	
5.6 9010 1.00 260.13	
6.4 7920 1.10 228.49	

F83A DA132SB4	279
7.3 7240 1.25 200.61	
7.9 6620 1.35 183.42	
8.6 6120 1.45 169.54	
9.4 5560 1.60 154.08	
10 5080 1.75 140.63	
11 4600 1.95 127.39	
13 4190 2.1 116.03	
14 3670 2.4 101.64	

F73A DA132SB4	198
9.0 5850 0.85 162.19	
9.9 5300 0.90 146.94	
11 4820 1.00 133.66	
12 4350 1.10 120.60	
13 3950 1.25 109.41	
15 3420 1.45 94.78	
17 3100 1.60 85.76	
19 2810 1.75 77.85	
21 2510 1.95 69.41	
25 2130 2.3 58.87	

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 5.5 kW

F63A DA132SB4	149
16 3280 0.85 90.95	
18 2950 0.95 81.85	
20 2580 1.10 71.41	
23 2310 1.20 63.98	
26 2050 1.35 56.75	
30 1780 1.55 49.31	
33 1590 1.75 44.16	
37 1430 1.95 39.74	
42 1250 2.2 34.67	
47 1120 2.5 31.06	

F62A DA132SB4	147
43 1230 2.1 34.05	
47 1120 2.2 31.05	

F53A DA132SB4	117
26 2040 0.80 56.37	
29 1840 0.85 50.88	
31 1690 0.95 46.83	
35 1510 1.05 41.85	
39 1340 1.20 37.17	
44 1190 1.35 32.93	
50 1060 1.50 29.31	
58 905 1.75 25.11	
66 800 1.85 22.15	

F52A DA132SB4	116
56 940 1.70 26.01	
62 850 1.85 23.61	
67 790 2.0 21.83	
74 710 2.2 19.67	
83 635 2.5 17.62	

F43A DA132SB4	96
49 1080 0.80 29.78	
56 940 0.90 26.08	
64 825 0.95 22.91	

### 7.5 kW

F83A DA132MB4	279
7.3 9840 0.90 200.61	
8.0 9000 1.00 183.42	
8.6 8320 1.05 169.54	
9.5 7560 1.20 154.08	
10 6900 1.30 140.63	
11 6250 1.40 127.39	
13 5690 1.55 116.03	
14 4990 1.80 101.64	
16 4540 1.95 92.45	
18 4090 2.2 83.27	
20 3670 2.4 74.77	

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 7.5 kW

F73A DA132MB4	198
12 5920 0.80 120.60	
13 5370 0.90 109.41	
15 4650 1.05 94.78	
17 4210 1.15 85.76	
19 3820 1.30 77.85	
21 3410 1.45 69.41	
25 2890 1.70 58.87	
28 2540 1.90 51.81	
33 2200 2.2 44.88	
36 1990 2.4 40.61	

F63A DA132MB4	148
20 3500 0.80 71.41	
23 3140 0.90 63.98	
26 2780 1.00 56.75	
30 2420 1.15 49.31	
33 2170 1.30 44.16	
37 1950 1.45 39.74	
42 1700 1.65 34.67	
47 1520 1.80 31.06	
53 1350 1.90 27.56	
60 1190 2.0 24.21	

F62A DA132MB4	147
43 1670 1.50 34.05	
47 1520 1.65 31.05	
51 1410 2.00 28.80	
56 1280 2.2 26.09	
62 1160 2.4 23.73	

F53A DA132MB4	117
39 1820 0.85 37.17	
44 1620 1.00 32.93	
50 1440 1.10 29.31	
58 1230 1.30 25.11	
66 1090 1.35 22.15	

F52A DA132MB4	116
56 1280 1.25 26.01	
62 1160 1.35 23.61	
67 1070 1.50 21.83	
74 965 1.65 19.67	
83 865 1.85 17.62	
93 775 2.0 15.78	
103 695 2.3 14.20	
189 380 2.4 7.74	

F42A DA132MB4	95
72 990 0.90 20.22	
80 895 1.00 18.25	
87 825 1.05 16.80	
97 735 1.20 15.02	
110 655 1.35 13.33	
124 580 1.50 11.82	
139 515 1.70 10.51	
162 440 2.00 9.01	
184 390 2.3 7.94	
198 360 2.0 7.36	
216 330 1.70 6.77	
241 295 1.85 6.05	
272 265 2.1 5.38	
306 235 2.3 4.76	
344 210 2.4 4.24	
402 178 2.6 3.63	
456 157 2.8 3.20	

Type -kg  
n2 [1/min] T2 [Nm] cG i

### 11.0 kW

F83A DA160MB4	306
9.5 11000 0.80 154.08	
10 10100 0.90 140.63	
12 9130 0.95 127.39	
13 8320 1.05 116.03	
14 7290 1.20 101.64	
16 6630 1.35 92.45	
18 5970 1.50 83.27	
20 5360 1.65 74.77	
23 4600 1.95 64.14	
26 3980 2.2 55.44	

F73A DA160MB4	225
17 6150 0.80 85.76	
19 5580 0.85 77.85	
21 4980 1.00 69.41	
25 4220 1.15 58.87	
28 3720 1.30 51.81	
33 3220 1.50 44.88	
36 2910 1.65 40.61	
40 2640 1.75 36.86	
45 2360 1.85 32.87	
53 2000 2.1 27.88	
62 1710 2.2 23.79	

F72A DA160MB4	221
51 2050 2.2 28.53	
57 1850 2.3 25.85	
62 1690 2.5 23.54	

F63A DA160MB4	176
30 3540 0.80 49.31	
33 3170 0.90 44.16	
37 2850 1.00 39.74	
42 2490 1.15 34.67	
47 2230 1.25 31.06	
53 1980 1.30 27.56	
61 1740 1.40 24.21	

F62A DA160MB4	174
56 1870 1.50 26.09	
62 1700 1.65 23.73	
68 1540 1.85 21.42	
75 1390 2.00 19.43	
87 1210 2.2 16.83	
96 1090 2.4 15.23	
106 990 2.5 13.82	

F53A DA160MB4	144
58 1800 0.90 25.11	
66 1590 0.95 22.15	

F52A DA160MB4	143
74 1410 1.10 19.67	
83 1260 1.25 17.62	
93 1130 1.40 15.78	
103 1020 1.55 14.20	
118 890 1.80 12.39	
132 795 1.90 11.10	
149 705 2.1 9.85	
169 620 2.3 8.65	
189 555 1.65 7.74	
211 495 1.75 6.94	
235 450 1.85 6.24	
269 390 2.0 5.45	
300 350 2.1 4.88	
339 310 2.3 4.33	
385 275 2.4 3.80	

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>15.0 kW</b>					
F83A DA160LB4					317
13	11300	0.80	116.03		
14	9940	0.90	101.64		
16	9040	1.00	92.45		
18	8140	1.10	83.27		
20	7310	1.20	74.77		
23	6270	1.40	64.14		
26	5420	1.65	55.44		
35	4050	2.1	41.43		
39	3640	2.3	37.20		
46	3120	2.5	31.91		
F73A DA160LB4					236
25	5760	0.85	58.87		
28	5070	0.95	51.81		
33	4390	1.10	44.88		
36	3970	1.20	40.61		
40	3600	1.30	36.86		
45	3210	1.35	32.87		
53	2730	1.50	27.88		
62	2330	1.65	23.79		
F72A DA160LB4					232
51	2790	1.60	28.53		
57	2530	1.70	25.85		
62	2300	1.80	23.54		
71	2020	2.00	20.62		
78	1830	2.1	18.76		
87	1650	2.3	16.90		
97	1480	2.5	15.17		
161	890	2.5	9.11		
F63A DA160LB4					187
42	3390	0.85	34.67		
47	3040	0.90	31.06		
53	2690	0.95	27.56		
61	2370	1.00	24.21		
F62A DA160LB4					185
56	2550	1.10	26.09		
62	2320	1.20	23.73		
68	2090	1.35	21.42		
75	1900	1.45	19.43		
87	1650	1.60	16.83		
96	1490	1.75	15.23		
106	1350	1.85	13.82		
119	1210	2.0	12.33		
140	1020	2.3	10.45		
190	755	1.90	7.70		
210	680	2.1	6.97		
232	620	2.2	6.33		
260	550	2.3	5.64		
F52A DA160LB4					154
74	1920	0.80	19.67		
83	1720	0.90	17.62		
93	1540	1.05	15.78		
103	1390	1.15	14.20		
118	1210	1.30	12.39		
132	1090	1.40	11.10		
149	965	1.55	9.85		
169	845	1.70	8.65		
189	755	1.20	7.74		
211	680	1.30	6.94		
235	610	1.35	6.24		
269	530	1.45	5.45		
300	475	1.55	4.88		
339	425	1.70	4.33		
385	370	1.80	3.80		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>18.5 kW</b>					
F83A DA180MD4					369
16	11100	0.80	92.45		
18	10000	0.90	83.27		
20	9020	1.00	74.77		
23	7730	1.15	64.14		
26	6690	1.35	55.44		
30	5810	1.50	48.19		
35	5000	1.70	41.43		
39	4490	1.85	37.20		
46	3850	2.1	31.91		
53	3330	2.3	27.58		
61	2890	2.5	23.97		
F73A DA180MD4					288
28	6250	0.80	51.81		
33	5410	0.90	44.88		
36	4900	1.00	40.61		
40	4450	1.05	36.86		
45	3960	1.10	32.87		
53	3360	1.20	27.88		
62	2870	1.35	23.79		
F72A DA180MD4					285
57	3120	1.40	25.85		
62	2840	1.50	23.54		
71	2490	1.60	20.62		
78	2260	1.75	18.76		
87	2040	1.85	16.90		
97	1830	2.0	15.17		
113	1570	2.2	13.01		
130	1360	2.5	11.25		
161	1100	2.0	9.11		
177	1000	2.2	8.29		
196	900	2.3	7.46		
219	810	2.4	6.70		
F63A DA180MD4					240
53	3320	0.80	27.56		
61	2920	0.80	24.21		
F62A DA180MD4					238
68	2580	1.10	21.42		
75	2340	1.20	19.43		
87	2030	1.30	16.83		
96	1840	1.40	15.23		
106	1670	1.50	13.82		
119	1490	1.65	12.33		
140	1260	1.85	10.45		
164	1080	2.1	8.92		
190	930	1.55	7.70		
210	840	1.65	6.97		
232	765	1.75	6.33		
260	680	1.90	5.64		
306	575	2.1	4.78		
359	490	2.2	4.08		
<b>22.0 kW</b>					
F83A DA180LB4					369
20	10700	0.85	74.77		
23	9200	0.95	64.14		
26	7950	1.10	55.44		
30	6910	1.30	48.19		
35	5940	1.45	41.43		
39	5330	1.55	37.20		
46	4580	1.70	31.91		
53	3960	1.90	27.58		
61	3440	2.1	23.97		
F82A DA180LB4					362
73	2900	2.2	20.19		
80	2620	2.4	18.25		

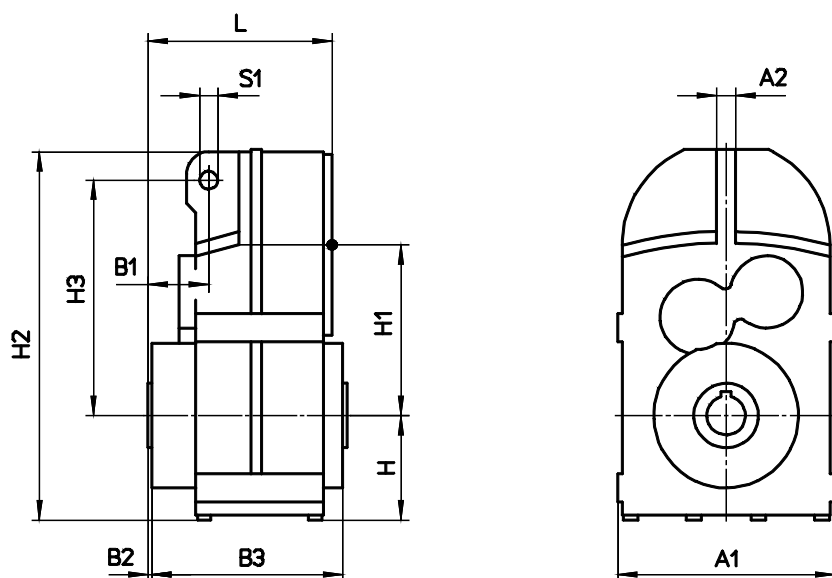
Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>22.0 kW</b>					
F73A DA180LB4					288
36	5820	0.85	40.61		
40	5290	0.90	36.86		
45	4710	0.95	32.87		
53	4000	1.05	27.88		
62	3410	1.10	23.79		
F72A DA180LB4					285
57	3710	1.15	25.85		
62	3380	1.25	23.54		
71	2960	1.35	20.62		
78	2690	1.45	18.76		
87	2420	1.55	16.90		
97	2180	1.70	15.17		
113	1870	1.90	13.01		
130	1610	2.1	11.25		
150	1400	2.3	9.78		
161	1310	1.70	9.11		
177	1190	1.80	8.29		
196	1070	1.95	7.46		
219	960	2.1	6.70		
255	825	2.3	5.75		
295	715	2.4	4.97		
F62A DA180LB4					238
68	3070	0.90	21.42		
75	2790	1.00	19.43		
87	2410	1.10	16.83		
96	2180	1.20	15.23		
106	1980	1.25	13.82		
119	1770	1.35	12.33		
140	1500	1.55	10.45		
164	1280	1.75	8.92		
190	1100	1.30	7.70		
210	1000	1.40	6.97		
232	905	1.50	6.33		
260	810	1.60	5.64		
306	685	1.75	4.78		
359	585	1.90	4.08		
<b>30.0 kW</b>					
F83A DA200LB4					426
27	10700	0.85	55.44		
31	9330	0.95	48.19		
36	8020	1.05	41.43		
40	7200	1.15	37.20		
46	6180	1.30	31.91		
54	5340	1.40	27.58		
62	4640	1.55	23.97		
F82A DA200LB4					420
73	3910	1.65	20.19		
81	3530	1.80	18.25		
93	3070	1.95	15.83		
107	2680	2.2	13.85		
121	2360	2.4	12.20		
147	1950	1.95	10.08		
162	1760	2.1	9.11		
187	1530	2.3	7.90		
214	1340	2.4	6.92		
F73A DA200LB4					346
62	4610	0.85	23.79		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>30.0 kW</b>					
F72A DA200LB4					342
72	3990	1.00	20.62		
79	3630	1.10	18.76		
88	3270	1.15	16.90		
98	2940	1.25	15.17		
114	2520	1.40	13.01		
132	2180	1.55	11.25		
151	1890	1.70	9.78		
162	1760	1.25	9.11		
179	1600	1.35	8.29		
198	1450	1.45	7.46		
221	1300	1.55	6.70		
257	1110	1.65	5.75		
298	960	1.80	4.97		
343	835	1.95	4.32		
<b>37.0 kW</b>					
F83A DA225SD4					541
36	9920	0.85	41.43		
40	8910	0.95	37.20		
46	7640	1.05	31.91		
53	6610	1.15	27.58		
62	5740	1.25	23.97		
F82A DA225SD4					536
73	4840	1.35	20.19		
81	4370	1.45	18.25		
93	3790	1.60	15.83		
106	3320	1.75	13.85		
121	2920	1.90	12.20		



## Dimensions

### A - Shaft mounted version



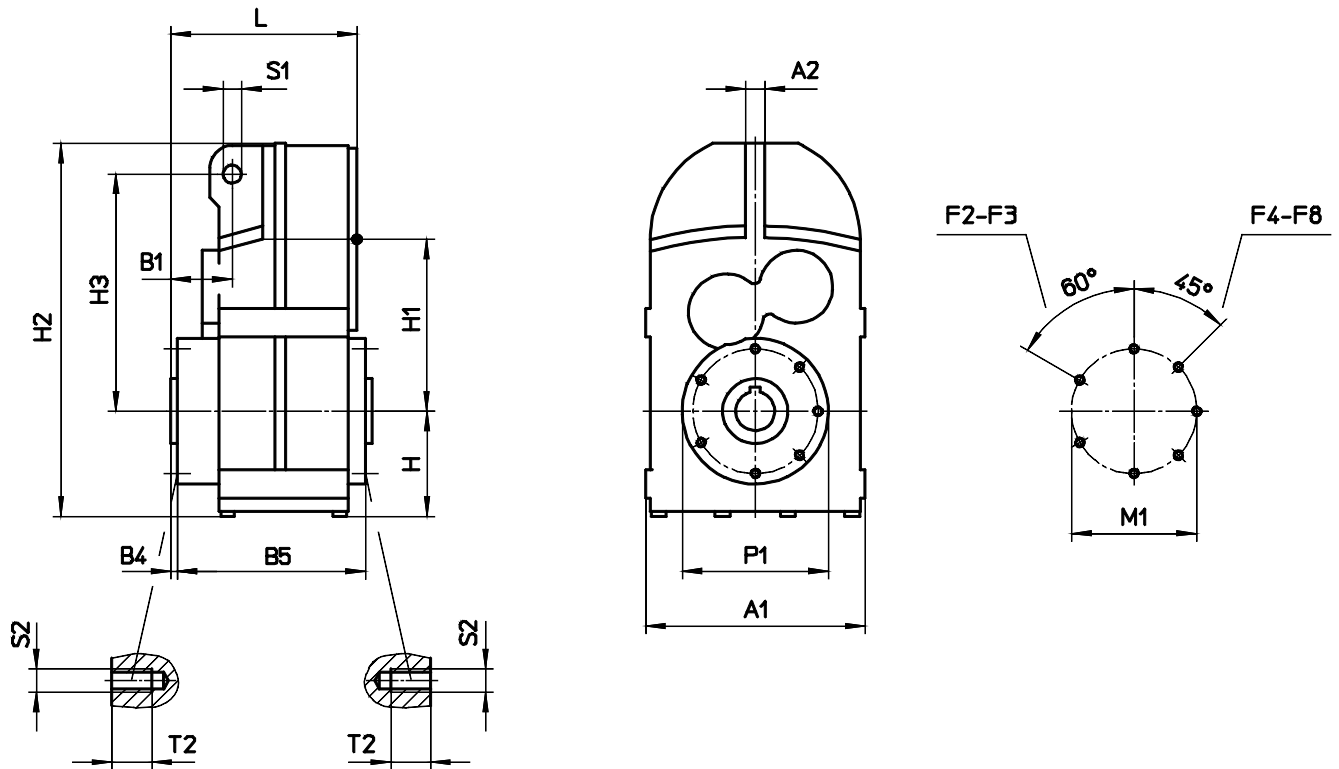
	A1	A2	B1	B2	B3	H	H1	H2	H3	L	S1
<b>F2</b>	150	12	40	1	119	70.5	110	243	156	109	Ø14
<b>F3</b>	168	15	45	1	148	81	132	286.5	182	140.5	Ø14
<b>F4</b>	210	20	47.5	1.5	172	98.5	159	341	217	158.5	Ø14
<b>F5</b>	263	25	53	1.5	207	120.5	196	421	270	184	Ø22
<b>F6</b>	313	30	62	2.5	235	144.5	234	508	328	215	Ø22
<b>F7</b>	367	35	76	3.5	293	171.5	273	599.5	382	250.5	Ø26
<b>F8</b>	417	40	93	3.5	343	191.5	324	696.5	458	301	Ø26

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## B - Shaft mounted version

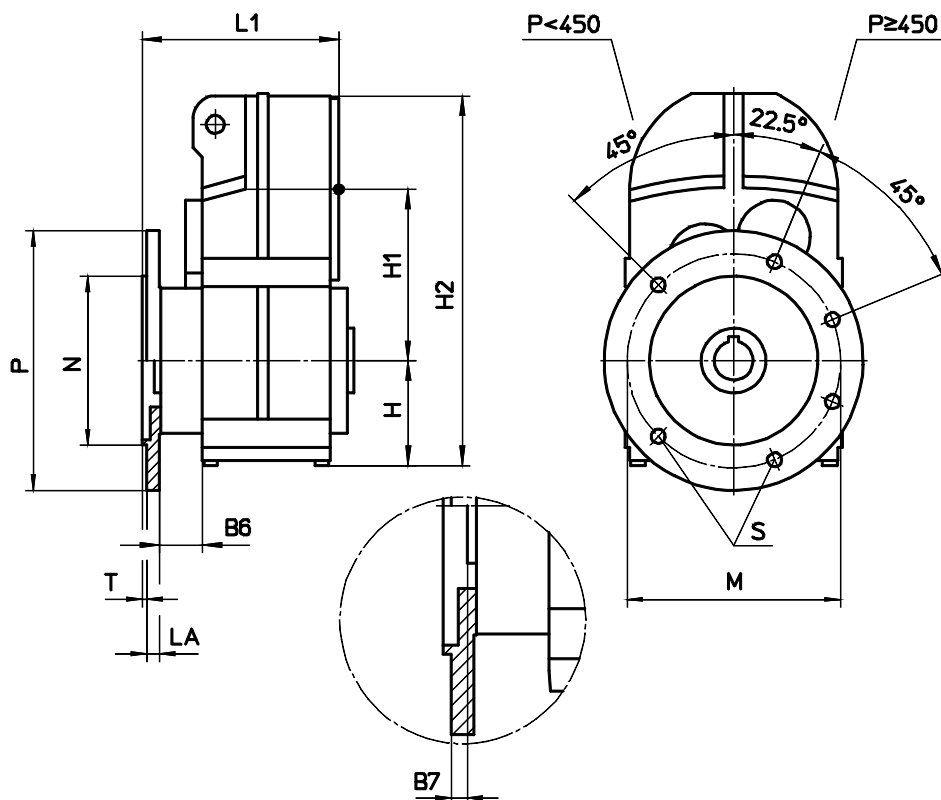


	A1	A2	B1	B4	B5	H	H1	H2	H3	L	S1	M1	P1	S2	T2
<b>F2</b>	150	12	40	2	116	70.5	110	243	156	109	Ø14	87	99	M6	9
<b>F3</b>	168	15	45	3	144	81	132	286.5	182	140.5	Ø14	96	112	M8	12
<b>F4</b>	210	20	47.5	3.5	168	98.5	159	341	217	158.5	Ø14	106	122	M8	12
<b>F5</b>	263	25	53	4	202	120.5	196	421	270	184	Ø22	130	150	M10	15
<b>F6</b>	313	30	62	5	230	144.5	234	508	328	215	Ø22	154	178	M12	18
<b>F7</b>	367	35	76	6	288	171.5	273	599.5	382	250.5	Ø26	182	214	M16	24
<b>F8</b>	417	40	93	6	338	191.5	324	696.5	458	301	Ø26	220	260	M20	30

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## C - Flange mounted version



	B6	B7	H	H1	H2	L1
F2	26	10	70.5	110	243	122.5
F3	33	8	81	132	286.5	152
F4	34	7.5	98.5	159	341	169.5
F5	42	8	120.5	196	421	196
F6	46	8	144.5	234	508	227
F7	55.5	10	171.5	273	599.5	265.5
F8	60	15	191.5	324	696.5	321

	M	N	P	LA	T	S
F2	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
F3	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
F4	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
F5	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
F6	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
F7	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
F8	Ø400	Ø350 h6	Ø450	16	5	Ø17.5

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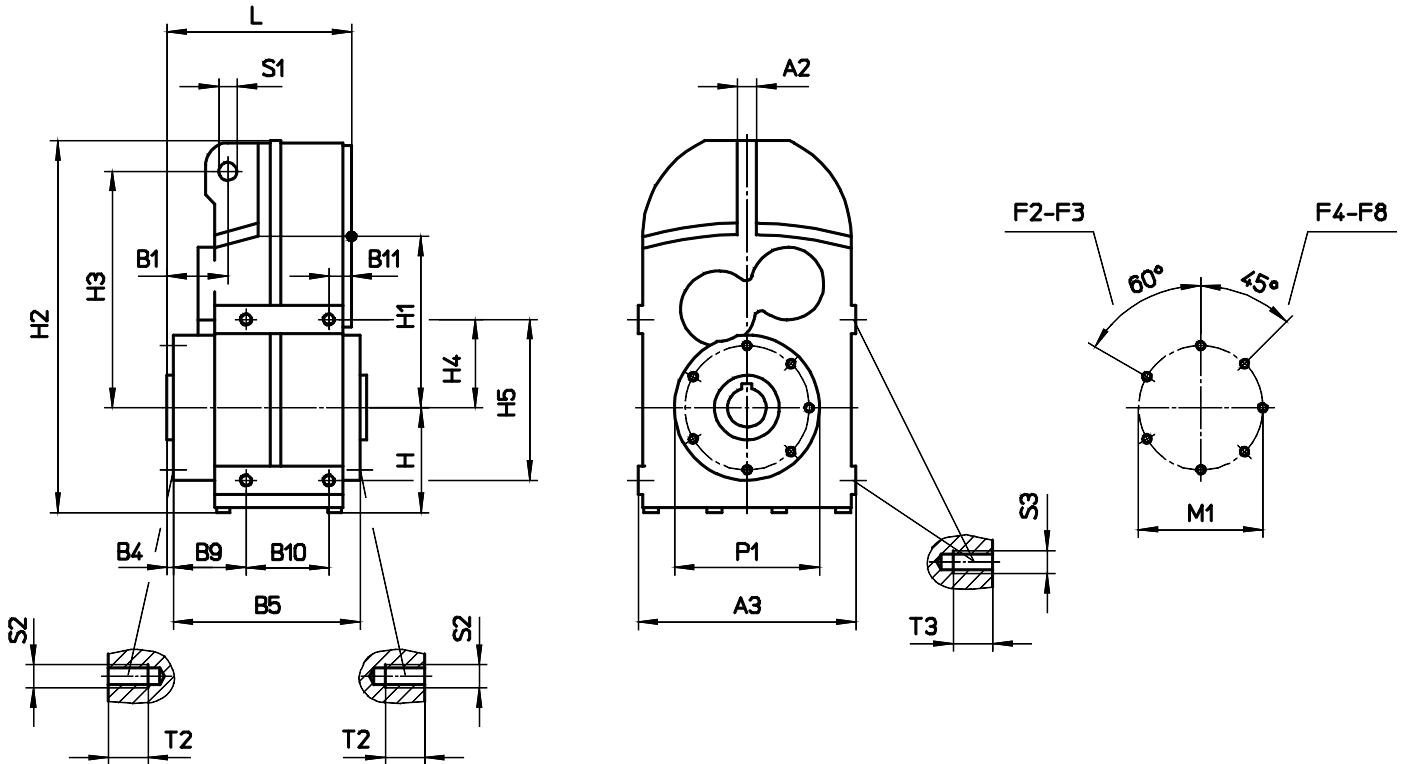
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### D - Shaft mounted version + side areas



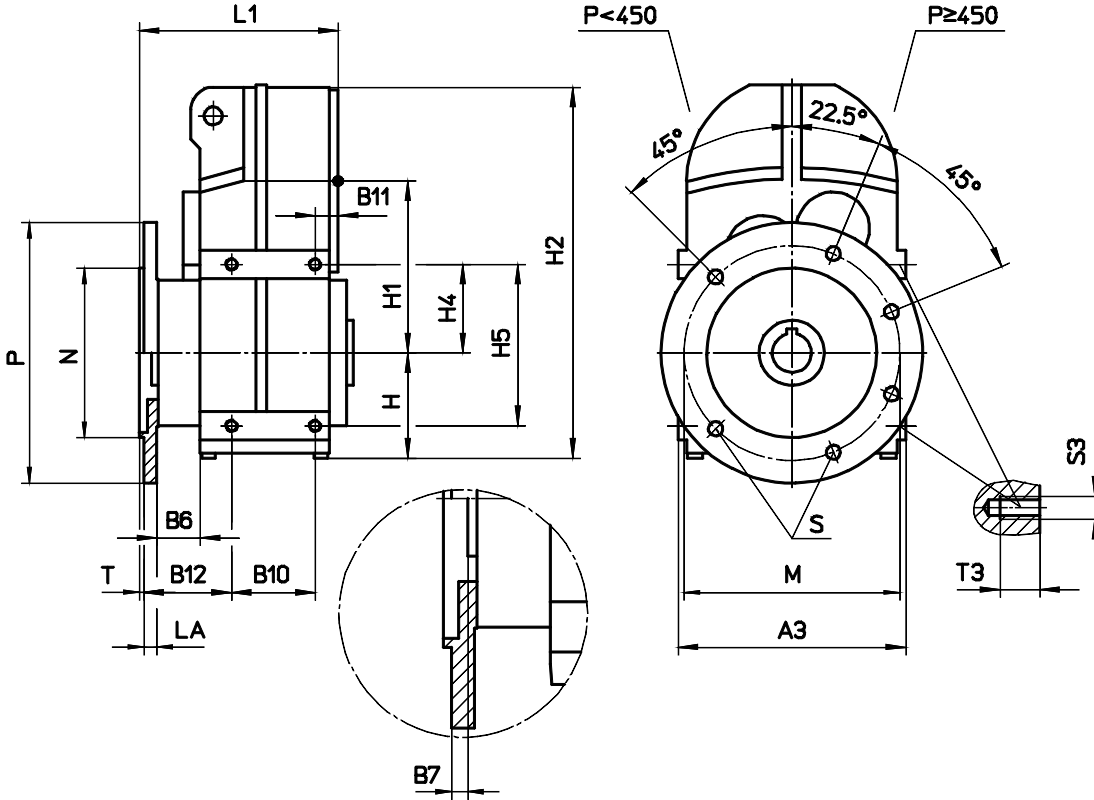
	A2	A3	B1	B4	B5	B9	B10	B11	H	H1	H2	H3	H4	H5	L	S1	M1	P1	S2	T2	S3	T3
<b>F2</b>	12	146	40	2	116	31	64	12	70.5	110	243	156	55	100	109	Ø14	87	99	M6	9	M8	12
<b>F3</b>	15	164	45	3	144	56	64	17.5	81	132	286.5	182	68	124	140.5	Ø14	96	112	M8	12	M10	15
<b>F4</b>	20	206	47.5	3.5	168	57	80	18	98.5	159	341	217	87	158	158.5	Ø14	106	122	M8	12	M12	18
<b>F5</b>	25	258	53	4	202	60	104	16	120.5	196	421	270	112	202	184	Ø22	130	150	M10	15	M12	18
<b>F6</b>	30	308	62	5	230	70	120	20	144.5	234	508	328	134	244	215	Ø22	154	178	M12	18	M16	24
<b>F7</b>	35	362	76	6	288	75.5	145	24	171.5	273	599.5	382	245	370	250.5	Ø26	182	214	M16	24	M20	30
<b>F8</b>	40	412	93	6	338	81	185	29	191.5	324	696.5	458	298	440	301	Ø26	220	260	M20	30	M24	36

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E - Flange mounted version + side areas



	A3	B6	B7	B10	B11	B12	H	H1	H2	H4	H5	L1	S3	T3
F2	146	26	10	64	12	43	70.5	110	243	55	100	122.5	M8	12
F3	164	33	8	64	17.5	67	81	132	286.5	68	124	152	M10	15
F4	206	34	7.5	80	18	68	98.5	159	341	87	158	169.5	M12	18
F5	258	42	8	104	16	72	120.5	196	421	112	202	196	M12	18
F6	308	46	8	120	20	83	144.5	234	508	134	244	227	M16	24
F7	362	55.5	10	145	24	91.5	171.5	273	599.5	245	370	265.5	M20	30
F8	412	60	15	185	29	102	191.5	324	696.5	298	440	321	M24	36

	M	N	P	LA	T	S
F2	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
F3	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
F4	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
F5	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
F6	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
F7	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
F8	Ø400	Ø350 h6	Ø450	16	5	Ø17.5

Sold & Serviced By:

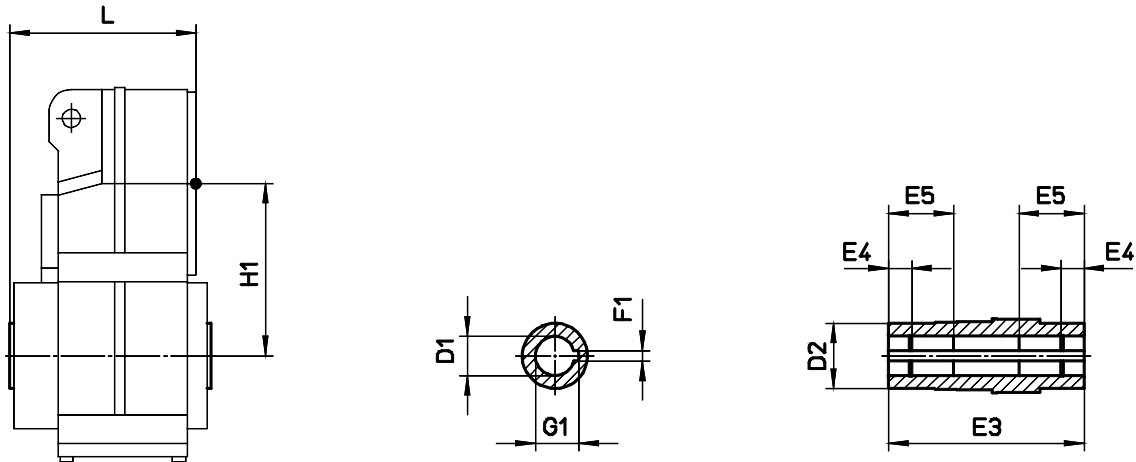
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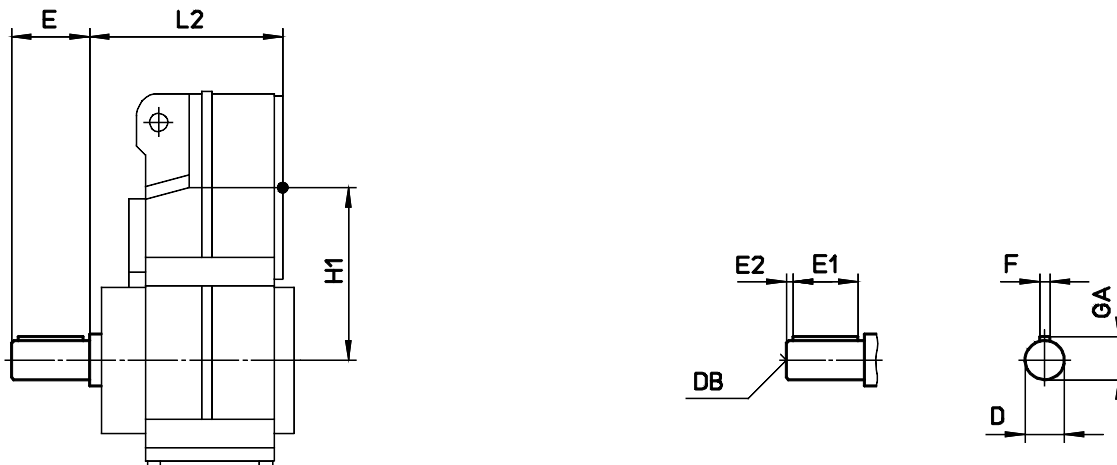
[sales@electromate.com](mailto:sales@electromate.com)

## Hollow shaft with keyway



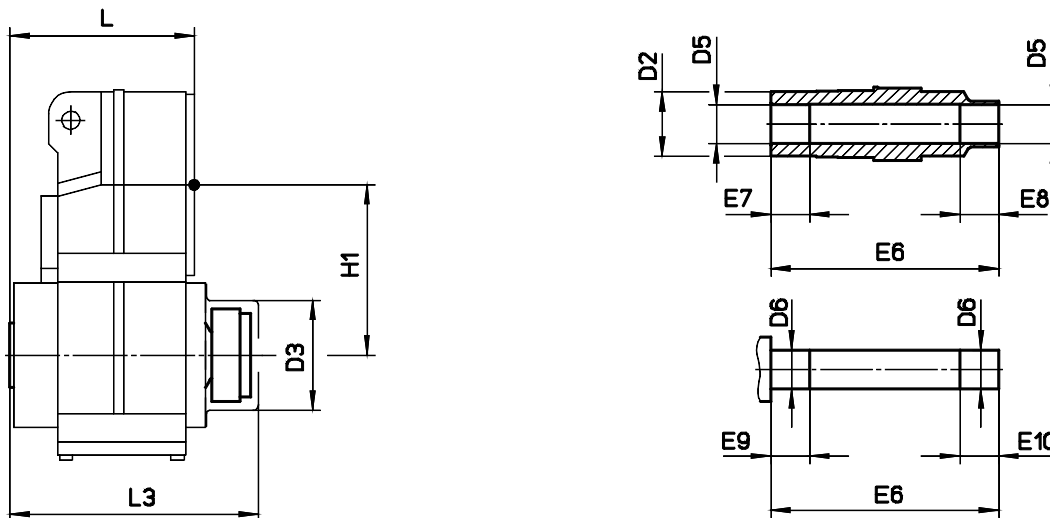
	D1	D2	E3	E4	E5	F1	G1	H1	L
F2	Ø25H7	45	120	15	-	8	28.3	110	109
F3	Ø30H7	50	150	18	-	8	33.3	132	140.5
F4	Ø35H7	55	175	20	-	10	38.3	159	158.5
F5	Ø40H7	70	210	25	70	14	53.8	196	184
F6	Ø50H7	85	240	30	80	18	64.4	234	215
F7	Ø60H7	100	300	30	100	20	74.9	273	250.5
F8	Ø90H7	120	350	35	120	25	95.4	324	301

## V - Output shaft with key



	D	DB	E	E1	E2	F	GA	H1	L2
F2	Ø25k6	M10	50	40	5	8	28	110	119
F3	Ø30k6	M10	60	50	5	8	33	132	148.5
F4	Ø35k6	M12	70	60	5	10	38	159	166
F5	Ø40k6	M16	80	70	5	12	43	196	192
F6	Ø50k6	M16	100	80	10	14	53.5	234	223
F7	Ø60m6	M20	120	100	10	18	64	273	260.5
F8	Ø75m6	M20	140	125	7.5	20	79.5	324	316

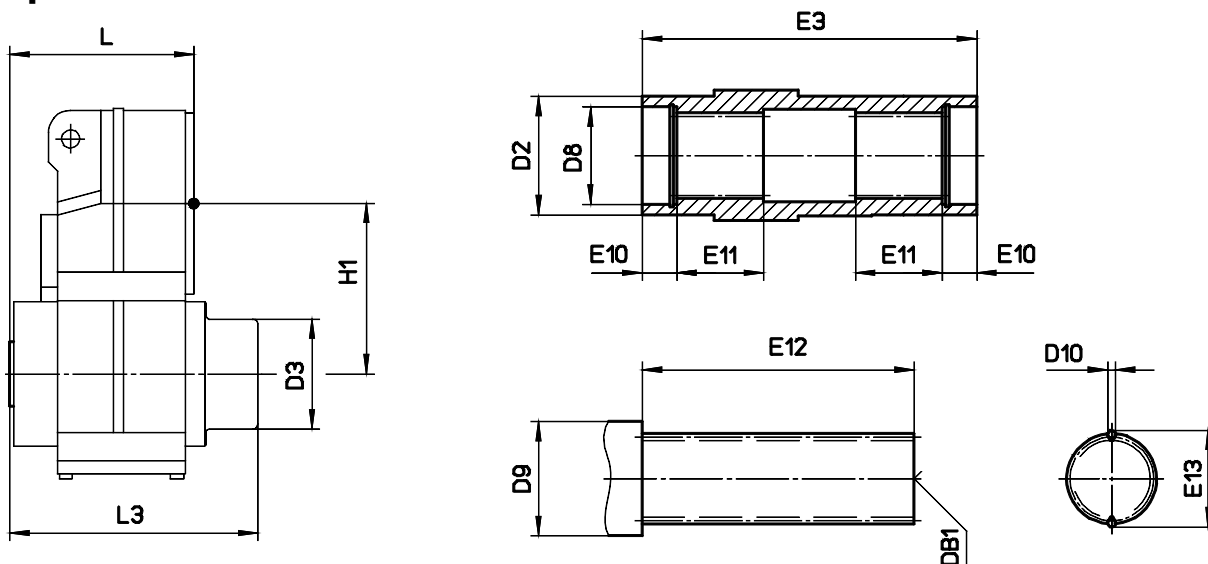
## S - Hollow shaft with shrink disc



	*)	D2	D3	D5	D6	E6	E7	E8	E9	E10	H1	L	L3
F2	DM80 (DM100)	45	77	Ø25H7	Ø25h6	143	25	25	27	27	110	109	158
F3	DM100 (DM112)	50	86	Ø30H7 Ø35H7	Ø30h6 Ø35h6	176	20	30	22	32	132	140.5	188
F4	DM112 (DA132)	55	96	Ø40H7	Ø40h6	202	20	40	22	42	159	158.5	214.5
F5	DA132	70	117	Ø50H7	Ø50h6	242	30	50	32	52	196	184	255
F6	DA180	85	148	Ø60H7	Ø60h6	274	40	60	42	62	234	215	292
F7	DA200	100	180	Ø70H7	Ø70h6	343	50	70	52	72	273	250.5	359
F8	DA225	120	225	Ø95H7	Ø95h6	402	60	80	62	82	324	301	422

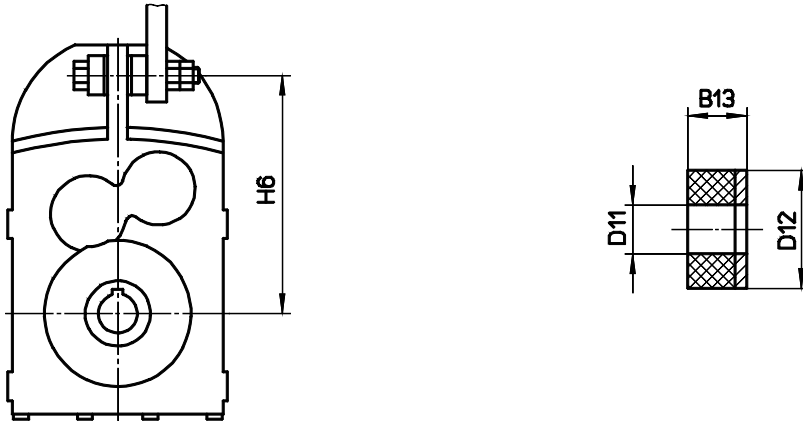
\*) largest possible motor size (without protection cover)

## Z - Splined hollow shaft



	DIN5480	D2	D3	D8	D9	D10	DB1	E3	E10	E11	E12	E13	H1	L	L3
F2	30x1.25x30x22	45	77	35	40	2.75	M10	120	18	25	88	33.05 <sub>-0.04</sub>	110	109	157
F3	35x2x30x16	50	86	40	46	4	M12	150	18	32	118	38.94 <sub>-0.04</sub>	132	140.5	188
F4	40x2x30x18	55	96	42	50	4.5	M16	175	23	42	140	45.08 <sub>-0.04</sub>	159	158.5	214.5
F5	50x2x30x24	70	117	52	62	4	M16	210	23	52	174	54.16 <sub>-0.05</sub>	196	184	255
F6	65x2x30x31	85	148	70	82	4	M20	240	25	62	195	68.99 <sub>-0.06</sub>	234	215	292
F7	70x2x30x34	100	180	72	85	4	M20	300	25	72	255	74.18 <sub>-0.06</sub>	273	250.5	359
F8	85x3x30x27	120	225	90	105	6	M20	350	27	88	298	91.02 <sub>-0.06</sub>	324	301	422

## G - Rubber elements

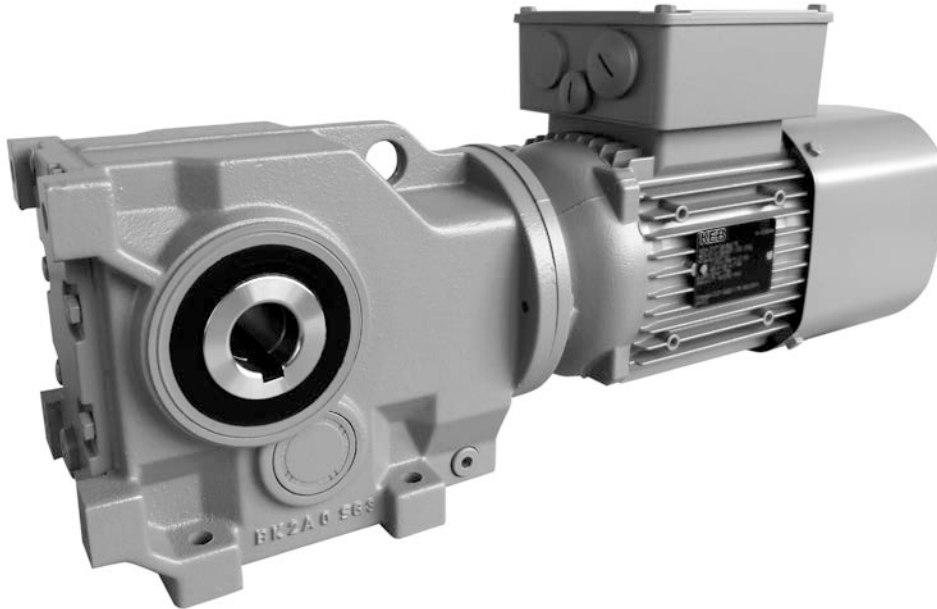


Gear unit	B13	D11	D12	H6
F2	15	12.5	30	156
F3	15	12.5	30	182
F4	20	12.5	40	217
F5	30	21	50	270
F6	30	21	60	328
F7	40	25	80	382
F8	40	25	80	458

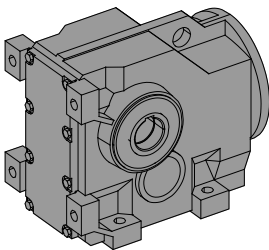
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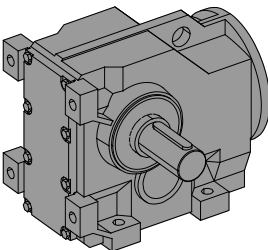
## Helical bevel gear units K



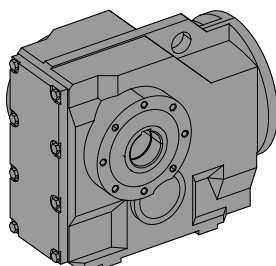
### Type of construction



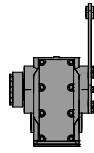
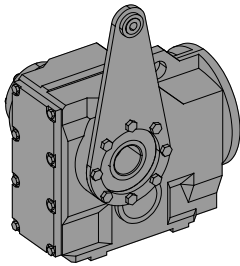
Foot mounted version  
Hollow shaft with keyway  
Example: K43A



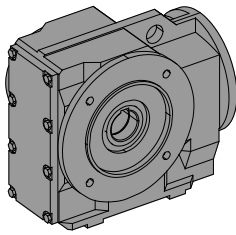
Foot mounted version  
Output shaft with key  
Example: K33AV



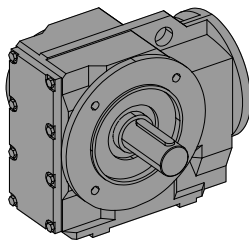
Shaft mounted version  
Hollow shaft with keyway  
Example: K53B



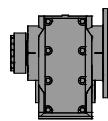
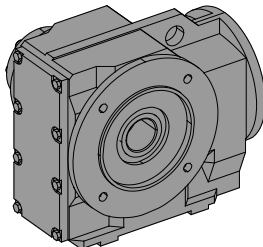
Shaft mounted version  
Hollow shaft with shrink disc  
Torque arm T1  
Example: **K53BT1S**



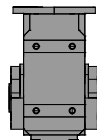
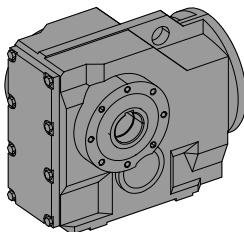
Flange mounted version  
Hollow shaft with keyway  
Example: **K43C**



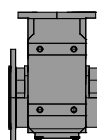
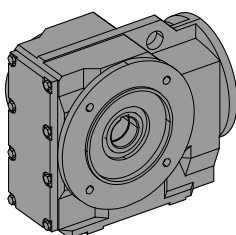
Flange mounted version  
Output shaft with key  
Example: **K33CV**



Flange mounted version  
Hollow shaft with shrink disc  
Example: **K43CS**



Shaft mounted version + foot area  
Hollow shaft with keyway  
Example: **K53D**



Flange mounted version + foot area  
Hollow shaft with keyway  
Example: **K33E**



Selection table - Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K02</b>			
44.20	32	58	0.19
37.47	37	58	0.23
32.16	44	58	0.26
27.86	50	56	0.29
24.30	58	53	0.32
21.32	66	51	0.35
18.78	75	49	0.38
16.58	84	50	0.44
14.05	100	48	0.50
12.06	116	45	0.55
10.45	134	43	0.60
9.11	154	41	0.66
8.00	175	40	0.73
7.04	199	38	0.79
6.10	229	41	0.99
5.29	265	39	1.08
4.61	304	38	1.21
4.05	346	36	1.30
3.56	393	35	1.30

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K12G03</b>			
3959.5	0.35	110	<0.05
3345.0	0.42	110	<0.05
2859.9	0.49	110	<0.05
2467.1	0.57	110	<0.05
2142.7	0.65	110	<0.05
1870.2	0.75	110	<0.05
1614.3	0.87	110	<0.05
1392.6	1.0	110	<0.05
1209.5	1.2	110	<0.05
1055.7	1.3	110	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K12G02</b>			
926.68	1.5	110	<0.05
782.87	1.8	110	<0.05
669.33	2.1	110	<0.05
577.42	2.4	110	<0.05
501.49	2.8	110	<0.05
437.71	3.2	110	<0.05
383.38	3.7	110	<0.05
329.52	4.2	110	<0.05
284.27	4.9	110	0.06
246.89	5.7	110	0.07
215.49	6.5	110	0.07
188.74	7.4	110	0.09
161.25	8.7	110	0.10
139.55	10	110	0.12
121.98	11	110	0.13
107.46	13	110	0.15
95.27	15	110	0.17
84.88	16	110	0.19
76.20	18	110	0.21
66.51	21	100	0.22
58.25	24	88	0.22

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K12</b>			
54.60	26	110	0.30
46.65	30	110	0.35
40.37	35	110	0.40
35.29	40	110	0.46
31.09	45	110	0.52
27.56	51	107	0.57
24.56	57	103	0.61
22.04	64	100	0.67
19.24	73	97	0.74
16.85	83	93	0.81
15.08	93	109	1.06
13.29	105	105	1.16
11.78	119	102	1.27
10.49	133	98	1.37
9.42	149	95	1.48
8.22	170	92	1.64
7.20	194	88	1.79
6.24	224	112	2.60
5.54	253	109	2.60
4.93	284	106	2.60
4.43	316	103	2.60
3.86	362	100	2.60
3.38	414	97	2.60

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K23G03</b>			
5483.4	0.26	205	<0.05
4632.4	0.30	205	<0.05
3960.6	0.35	205	<0.05
3416.7	0.41	205	<0.05
2967.4	0.47	205	<0.05
2590.0	0.54	205	<0.05
2235.6	0.63	205	<0.05
1928.6	0.73	205	<0.05
1675.0	0.84	205	<0.05
1462.0	0.96	205	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K23G02</b>			
1283.3	1.1	205	<0.05
1084.2	1.3	205	<0.05
926.94	1.5	205	<0.05
799.65	1.8	205	<0.05
694.50	2.0	205	<0.05
606.18	2.3	205	<0.05
530.94	2.6	205	0.06
456.34	3.1	205	0.07
393.68	3.6	205	0.08
341.91	4.1	205	0.09
298.43	4.7	205	0.10
261.38	5.4	205	0.11
228.47	6.1	205	0.13
201.29	7.0	205	0.15
178.45	7.8	205	0.17
159.00	8.8	205	0.19
142.73	9.8	205	0.21
124.58	11	205	0.24
109.11	13	205	0.27

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K23</b>			
102.27	14	205	0.29
87.38	16	205	0.34
75.61	19	205	0.40
66.09	21	205	0.45
58.23	24	205	0.51
51.62	27	205	0.58
46.00	30	205	0.65
41.29	34	205	0.72
36.04	39	205	0.83
31.57	44	205	0.95
26.14	54	205	1.14
22.85	61	205	1.31
20.13	70	205	1.49
17.84	78	205	1.68
15.90	88	205	1.88
14.27	98	205	2.10
12.46	112	205	2.40
10.91	128	205	2.74
9.34	150	161	2.53
8.28	169	161	2.85
7.38	190	161	3.20
6.63	211	161	3.56
5.78	242	161	4.08
5.07	276	161	4.66

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K33G13</b>			
8059.3	0.17	400	<0.05
6832.3	0.20	400	<0.05
5863.6	0.24	400	<0.05
5079.4	0.28	400	<0.05
4431.6	0.32	400	<0.05
3887.4	0.36	400	<0.05
3423.9	0.41	400	<0.05
3010.7	0.47	400	<0.05
2583.9	0.54	400	<0.05
2238.3	0.63	400	<0.05
1952.8	0.72	400	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K33G12</b>			
1738.3	0.81	400	<0.05
1485.1	0.94	400	<0.05
1285.2	1.1	400	<0.05
1123.4	1.2	400	0.05
989.70	1.4	400	0.06
877.42	1.6	400	0.07
781.77	1.8	400	0.07
701.79	2.0	400	0.08
612.54	2.3	400	0.10
536.51	2.6	400	0.11
493.12	2.8	400	0.12
434.44	3.2	400	0.13
385.15	3.6	400	0.15
343.16	4.1	400	0.17
308.06	4.5	400	0.19
268.88	5.2	400	0.22
235.51	5.9	400	0.25
210.10	6.7	400	0.28
188.46	7.4	400	0.31
171.28	8.2	400	0.34
151.01	9.3	400	0.39
133.74	10	400	0.44
119.69	12	400	0.49
104.17	13	400	0.56

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K33</b>			
120.13	12	400	0.49
103.13	14	400	0.57
89.71	16	400	0.65
78.85	18	400	0.74
69.88	20	400	0.84
62.34	22	400	0.94
55.92	25	400	1.05
50.82	28	400	1.15
44.80	31	400	1.31
39.68	35	400	1.47
35.51	39	400	1.65
30.91	45	400	1.89
27.26	51	400	2.15
24.15	58	400	2.42
21.55	65	400	2.71
19.33	72	400	3.03
17.57	80	400	3.33
15.49	90	400	3.78
13.72	102	400	4.26
12.27	114	390	4.66
10.68	131	375	5.1
9.30	151	240	3.80
8.45	166	300	5.2
7.45	188	285	5.6
6.60	212	275	6.1
5.91	237	300	7.0
5.14	272	290	7.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K43G13</b>			
10485	0.13	745	<0.05
8888.4	0.16	745	<0.05
7628.2	0.18	745	<0.05
6608.0	0.21	745	<0.05
5765.3	0.24	745	<0.05
5057.3	0.28	745	<0.05
4454.3	0.31	745	<0.05
3916.8	0.36	745	<0.05
3361.5	0.42	745	<0.05
2911.9	0.48	745	<0.05
2540.6	0.55	745	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
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### K43G12

2261.4	0.62	745	<0.05
1932.0	0.72	745	0.06
1672.0	0.84	745	0.07
1461.5	0.96	745	0.07
1287.6	1.1	745	0.08
1141.5	1.2	745	0.10
1017.0	1.4	745	0.11
912.99	1.5	745	0.12
796.88	1.8	745	0.14
697.97	2.0	745	0.16
641.52	2.2	745	0.17
565.19	2.5	745	0.19
501.06	2.8	745	0.22
446.44	3.1	745	0.24
400.77	3.5	745	0.27
349.80	4.0	745	0.31
306.38	4.6	745	0.36
275.54	5.1	745	0.40
249.26	5.6	745	0.44
227.20	6.2	745	0.48
202.69	6.9	745	0.54
181.81	7.7	745	0.60
164.95	8.5	745	0.66
146.17	9.6	745	0.75
128.66	11	745	0.85

### K43

151.92	9.2	745	0.72
131.28	11	745	0.83
114.99	12	745	0.95
101.80	14	745	1.07
90.90	15	745	1.20
81.75	17	745	1.33
73.96	19	745	1.47
67.41	21	745	1.62
60.14	23	745	1.81
53.94	26	745	2.02
48.94	29	745	2.23
43.37	32	745	2.51
38.17	37	745	2.85
33.43	42	745	3.26
29.37	48	745	3.71
25.56	55	745	4.26
23.30	60	745	4.67
20.79	67	745	5.2
18.65	75	745	5.8
16.92	83	745	6.4
14.99	93	745	7.3
13.20	106	745	7.5
11.56	121	745	7.5
10.15	138	745	7.5
8.60	163	550	7.5
7.62	184	550	7.5
6.71	209	580	7.5
5.87	238	550	7.5
5.16	271	520	7.5

i	n2 [1/min]	T2max [Nm]	P1max [kW]
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### K53G23

11426	0.12	1430	<0.05
9761.9	0.14	1430	<0.05
8447.9	0.17	1430	<0.05
7384.3	0.19	1430	<0.05
6505.6	0.22	1430	<0.05
5767.5	0.24	1430	<0.05
5175.3	0.27	1430	<0.05
4523.7	0.31	1430	<0.05
3985.4	0.35	1430	0.05
3533.2	0.40	1430	0.06
3093.4	0.45	1430	0.07
2725.3	0.51	1430	0.08
2416.1	0.58	1430	0.09

### K53G22

2176.4	0.64	1430	0.10
1868.5	0.75	1430	0.11
1625.3	0.86	1430	0.13
1428.5	0.98	1430	0.15
1266.0	1.1	1430	0.17
1129.4	1.2	1430	0.19
1013.0	1.4	1430	0.21
920.69	1.5	1430	0.23
811.74	1.7	1430	0.26
718.94	1.9	1430	0.29
648.83	2.2	1430	0.32
597.22	2.3	1430	0.35
524.36	2.7	1430	0.40
470.34	3.0	1430	0.45
427.46	3.3	1430	0.49
376.88	3.7	1430	0.56
333.79	4.2	1430	0.63
301.24	4.6	1430	0.69
277.28	5.0	1430	0.75
247.82	5.6	1430	0.84
220.06	6.4	1430	0.95
195.01	7.2	1430	1.07
173.54	8.1	1430	1.21
148.66	9.4	1430	1.41
135.16	10	1430	1.55

i	n2 [1/min]	T2max [Nm]	P1max [kW]
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### K53

138.94	10	1430	1.51
123.46	11	1430	1.70
110.68	13	1430	1.89
99.94	14	1430	2.09
90.79	15	1430	2.31
83.01	17	1430	2.52
74.48	19	1430	2.81
67.22	21	1430	3.11
61.87	23	1430	3.38
55.30	25	1430	3.79
49.10	29	1430	4.26
43.51	32	1430	4.81
38.72	36	1430	5.4
33.17	42	1430	6.3
29.56	47	1430	7.1
26.68	52	1430	7.8
24.56	57	1430	8.5
21.95	64	1430	9.5
19.49	72	1420	10.7
17.27	81	1370	11.6
15.37	91	1320	12.6
13.17	106	1260	14.0
11.61	121	1220	15.0
10.75	130	985	13.4
9.55	147	985	15.0
8.46	165	985	15.0
7.53	186	985	15.0
6.45	217	960	15.0
5.69	246	925	15.0

### K63G23

13818	0.10	2550	<0.05
11805	0.12	2550	<0.05
10216	0.14	2550	<0.05
8930.1	0.16	2550	<0.05
7867.5	0.18	2550	<0.05
6974.9	0.20	2550	0.05
6258.7	0.22	2550	0.06
5470.7	0.26	2550	0.07
4819.7	0.29	2550	0.08
4272.9	0.33	2550	0.09
3741.0	0.37	2550	0.10
3295.8	0.42	2550	0.11
2921.9	0.48	2550	0.13

i	n2 [1/min]	T2max [Nm]	P1max [kW]
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### K63G22

2632.0	0.53	2550	0.14
2259.6	0.62	2550	0.17
1965.6	0.71	2550	0.19
1727.6	0.81	2550	0.22
1531.0	0.91	2550	0.24
1365.8	1.0	2550	0.27
1225.1	1.1	2550	0.31
1113.4	1.3	2550	0.34
981.68	1.4	2550	0.38
869.44	1.6	2550	0.43
803.80	1.7	2550	0.47
724.09	1.9	2550	0.52
634.13	2.2	2550	0.59
568.80	2.5	2550	0.66
516.95	2.7	2550	0.72
455.78	3.1	2550	0.82
403.67	3.5	2550	0.93
373.19	3.8	2550	1.00
336.18	4.2	2550	1.11
301.25	4.6	2550	1.24
269.78	5.2	2550	1.39
242.80	5.8	2550	1.54
211.83	6.6	2550	1.77
189.77	7.4	2550	1.97

### K63

160.53	8.7	2550	2.33
144.48	9.7	2550	2.59
130.99	11	2550	2.86
119.50	12	2550	3.13
109.93	13	2550	3.40
99.21	14	2550	3.77
90.07	16	2550	4.15
83.27	17	2550	4.49
75.02	19	2550	4.99
67.22	21	2550	5.6
60.20	23	2550	6.2
54.18	26	2550	6.9
47.27	30	2550	7.9
42.35	33	2550	8.8
37.56	37	2550	10.0
33.00	42	2490	11.1
29.77	47	2550	12.6
26.68	52	2550	14.0
23.89	59	2470	15.2
21.50	65	2390	16.3
18.76	75	2300	18.0
16.81	83	2220	19.4
14.91	94	2140	21.0
13.10	107	2060	22.0
11.58	121	1700	21.5
10.43	134	1670	22.0
9.10	154	1700	22.0
8.15	172	1700	22.0
7.23	194	1640	22.0
6.35	220	1570	22.0

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## Selection table - Gear units

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K73G33</b>			
14283	0.098	4330	<0.05
12262	0.11	4330	0.05
10667	0.13	4330	0.06
9375.1	0.15	4330	0.07
8308.2	0.17	4330	0.08
7411.9	0.19	4330	0.09
6648.4	0.21	4330	0.10
6042.3	0.23	4330	0.11
5327.3	0.26	4330	0.12
4718.2	0.30	4330	0.13
4280.5	0.33	4330	0.15
3707.9	0.38	4330	0.17
3293.4	0.43	4330	0.19
2954.1	0.47	4330	0.21
2684.8	0.52	4330	0.24
2367.1	0.59	4330	0.27

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K73G32</b>			
2068.0	0.68	4330	0.31
1846.7	0.76	4330	0.34
1660.8	0.84	4330	0.38
1502.4	0.93	4330	0.42
1369.5	1.0	4330	0.46
1221.7	1.1	4330	0.52
1095.9	1.3	4330	0.58
994.22	1.4	4330	0.64
861.22	1.6	4330	0.74
779.24	1.8	4330	0.81
707.41	2.0	4330	0.90
630.75	2.2	4330	1.01
587.86	2.4	4330	1.08
527.31	2.7	4330	1.20
478.39	2.9	4330	1.33
414.39	3.4	4330	1.53
374.95	3.7	4330	1.69
340.39	4.1	4330	1.86
303.50	4.6	4330	2.09
256.81	5.5	4330	2.47
232.36	6.0	4330	2.73
210.95	6.6	4330	3.01
188.09	7.4	4330	3.37

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K73</b>			
183.21	7.6	4330	3.46
166.63	8.4	4330	3.81
152.50	9.2	4330	4.16
141.34	9.9	4330	4.49
128.10	11	4330	4.95
116.83	12	4330	5.4
108.36	13	4330	5.9
98.17	14	4330	6.5
89.29	16	4330	7.1
80.57	17	4330	7.9
73.10	19	4330	8.7
63.32	22	4330	10.0
57.29	24	4330	11.1
52.01	27	4330	12.2
46.38	30	4330	13.7
43.99	32	4330	14.4
40.01	35	4330	15.9
36.10	39	4330	17.6
32.75	43	4330	19.4
28.37	49	4330	22.4
25.67	55	4330	24.7
23.31	60	4330	27.2
20.78	67	4330	30.0
17.62	79	4330	30.0
15.04	93	4160	30.0
13.76	102	3100	30.0
12.45	112	3090	30.0
11.30	124	3100	30.0
10.08	139	3100	30.0
8.54	164	3100	30.0
7.29	192	3100	30.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K83G33</b>			
16285	0.086	7960	0.07
13981	0.10	7960	0.08
12162	0.12	7960	0.10
10689	0.13	7960	0.11
9472.7	0.15	7960	0.12
8450.8	0.17	7960	0.14
7580.3	0.18	7960	0.15
6889.3	0.20	7960	0.17
6074.0	0.23	7960	0.19
5379.6	0.26	7960	0.22
4900.2	0.29	7960	0.24
4292.3	0.33	7960	0.27
3755.0	0.37	7960	0.31
3368.2	0.42	7960	0.35
3061.2	0.46	7960	0.38
2698.9	0.52	7960	0.43

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K83G32</b>			
2357.9	0.59	7960	0.49
2105.6	0.66	7960	0.55
1893.6	0.74	7960	0.62
1713.0	0.82	7960	0.68
1561.4	0.90	7960	0.75
1393.0	1.0	7960	0.84
1249.5	1.1	7960	0.93
1138.2	1.2	7960	1.02
996.96	1.4	7960	1.17
906.86	1.5	7960	1.29
816.82	1.7	7960	1.43
774.35	1.8	7960	1.51
705.34	2.0	7960	1.65
617.84	2.3	7960	1.89
545.46	2.6	7960	2.14
483.36	2.9	7960	2.41
425.46	3.3	7960	2.74
372.59	3.8	7960	3.13
327.28	4.3	7960	3.56
298.11	4.7	7960	3.91
261.13	5.4	7960	4.47
237.53	5.9	7960	4.91
213.95	6.5	7960	5.5
192.10	7.3	7960	6.1
187.60	7.5	7680	6.0
164.78	8.5	7060	6.3

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K83</b>			
144.68	9.7	7960	8.1
132.28	11	7960	8.8
122.27	11	7960	9.5
111.12	13	7960	10.5
101.42	14	7960	11.5
91.87	15	7960	12.7
83.68	17	7960	13.9
73.30	19	7960	15.9
66.68	21	7960	17.5
60.06	23	7960	19.4
53.92	26	7960	21.6
46.25	30	7960	25.2
39.98	35	7960	29.2
34.75	40	7960	33.6
32.84	43	7960	35.5
29.88	47	7960	39.0
26.91	52	7960	43.3
24.16	58	7960	45.0
20.73	68	7740	45.0
17.91	78	7400	45.0
15.57	90	7100	45.0
14.01	100	4850	45.0
12.58	111	4850	45.0
10.79	130	4850	45.0
9.32	150	4850	45.0
8.11	173	4850	45.0

i	n2 [1/min]	T2max [Nm]	P1max [kW]
n1=1400 1/min			
<b>K93G43</b>			
19466	0.072	12300	0.09
16822	0.083	12300	0.11
14735	0.095	12300	0.12
13045	0.11	12300	0.14
11648	0.12	12300	0.15
10476	0.13	12300	0.17
9476.8	0.15	12300	0.19
8638.2	0.16	12300	0.21
7706.3	0.18	12300	0.23
6912.5	0.20	12300	0.26
6318.8	0.22	12300	0.28
5768.8	0.24	12300	0.31
5277.6	0.27	12300	0.34
4774.3	0.29	12300	0.38
4351.8	0.32	12300	0.41
3882.4	0.36	12300	0.46
3482.4	0.40	12300	0.52
3183.3	0.44	12300	0.56
2906.2	0.48	12300	0.62
2627.7	0.53	12300	0.68

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>K93G42</b>			
2486.8	0.56	12300	0.72
2245.4	0.62	12300	0.80
2039.9	0.69	12300	0.88
1865.1	0.75	12300	0.96
1673.5	0.84	12300	1.07
1510.3	0.93	12300	1.19
1380.6	1.0	12300	1.30
1260.4	1.1	12300	1.42
1139.6	1.2	12300	1.58
988.56	1.4	12300	1.82
864.99	1.6	12300	2.08
762.02	1.8	12300	2.36
651.55	2.1	12300	2.76
631.60	2.2	12300	2.84
560.85	2.5	12300	3.20
497.00	2.8	12300	3.61
454.31	3.1	12300	3.95
414.77	3.4	12300	4.33
375.01	3.7	12300	4.79
325.31	4.3	12300	5.5
284.64	4.9	12300	6.3
252.16	5.6	12300	7.1
218.74	6.4	12300	8.2
191.40	7.3	12300	9.4
168.61	8.3	12300	10.7
144.17	9.7	12300	11.0

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i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
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## K93

137.36	10	12300	13.1
126.06	11	12300	14.2
114.62	12	12300	15.7
104.80	13	12300	17.1
92.68	15	12300	19.4
84.72	17	12300	21.2
77.34	18	12300	23.2
69.93	20	12300	25.7
60.66	23	12300	29.6
53.08	26	12300	33.8
46.76	30	12300	38.4
39.98	35	12300	44.9
34.75	40	12300	51.7
31.33	45	12300	57.3
27.18	52	12300	66.1
23.78	59	12300	75.5
20.95	67	12300	85.7
17.91	78	12300	90.0
15.57	90	12300	90.0
14.34	98	7320	74.8
12.55	112	7320	85.5
11.06	127	7320	90.0
9.45	148	7320	90.0
8.22	170	7320	90.0

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## Selection table - Geared motors

### Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.12 kW</b>					
K33G12A DM63K4					24
2.8	395	1.00	493.12		
3.2	345	1.15	434.44		
3.6	305	1.30	385.15		
4.0	275	1.45	343.16		
4.5	245	1.60	308.06		
5.1	215	1.85	268.88		
K23G02A DM63K4					17
4.6	240	0.85	298.43		
5.3	210	1.00	261.38		
6.0	182	1.10	228.47		
6.9	160	1.25	201.29		
7.7	142	1.45	178.45		
8.7	127	1.60	159.00		
9.7	114	1.80	142.73		
K12G02A DM63K4					13
8.6	122	0.90	161.25		
9.9	105	1.05	139.55		
11	92	1.20	121.98		
13	81	1.35	107.46		
14	72	1.55	95.27		
16	64	1.70	84.88		
18	58	1.90	76.20		
21	50	2.00	66.51		
24	44	2.00	58.25		
K02A DM63K4					7
31	33	1.75	44.20		
37	28	2.0	37.47		
43	24	2.4	32.16		
50	21	2.7	27.86		
57	18	2.9	24.30		
65	16	3.2	21.32		
73	14	3.5	18.78		
83	13	3.9	16.58		
98	11	4.4	14.05		
114	9.3	4.8	12.06		
132	8.1	5.3	10.45		
151	7.0	5.8	9.11		
173	6.2	6.5	8.00		
196	5.4	7.0	7.04		
226	4.8	8.5	6.10		
261	4.2	9.4	5.29		
299	3.6	10	4.61		
341	3.2	11	4.05		
387	2.8	12	3.56		
<b>0.18 kW</b>					
K43G12A DM63G4					33
3.1	535	1.40	446.44		
3.4	480	1.55	400.77		
3.9	420	1.80	349.80		
4.5	365	2.0	306.38		
K33G12A DM63G4					24
3.6	460	0.85	385.15		
4.0	410	0.95	343.16		
4.5	370	1.10	308.06		
5.1	320	1.25	268.88		
5.9	280	1.40	235.51		
6.6	250	1.60	210.10		
7.3	225	1.75	188.46		
8.1	205	1.95	171.28		
<b>0.18 kW</b>					
K23G02A DM63G4					17
6.9	240	0.85	201.29		
7.7	215	0.95	178.45		
8.7	190	1.05	159.00		
9.7	171	1.20	142.73		
11	149	1.35	124.58		
13	130	1.55	109.11		
K23A DM63G4					14
13	127	1.60	102.27		
16	109	1.85	87.38		
K12G02A DM63G4					13
11	138	0.80	121.98		
13	122	0.90	107.46		
14	108	1.00	95.27		
16	96	1.15	84.88		
18	86	1.25	76.20		
21	75	1.35	66.51		
24	66	1.35	58.25		
K12A DM63G4					10
25	62	1.80	54.60		
K02A DM63G4					8
31	50	1.15	44.20		
37	42	1.35	37.47		
43	36	1.60	32.16		
50	32	1.75	27.86		
57	28	1.90	24.30		
65	24	2.1	21.32		
73	21	2.3	18.78		
83	19	2.6	16.58		
98	16	2.9	14.05		
114	14	3.2	12.06		
132	12	3.6	10.45		
151	11	3.9	9.11		
173	9.3	4.3	8.00		
196	8.2	4.7	7.04		
226	7.2	5.7	6.10		
261	6.3	6.2	5.29		
299	5.5	7.0	4.61		
341	4.8	7.5	4.05		
387	4.2	8.3	3.56		
<b>0.25 kW</b>					
K53G22A DM71K4					56
3.0	765	1.85	470.34		
K43G12A DM71K4					33
3.2	725	1.00	446.44		
3.5	650	1.15	400.77		
4.0	570	1.30	349.80		
4.6	500	1.50	306.38		
5.1	450	1.65	275.54		
5.7	405	1.85	249.26		
6.2	370	2.0	227.20		
K33G12A DM71K4					25
4.6	500	0.80	308.06		
5.2	435	0.90	268.88		
6.0	385	1.05	235.51		
6.7	340	1.15	210.10		
7.5	305	1.30	188.46		
8.2	280	1.45	171.28		
9.3	245	1.65	151.01		
11	215	1.85	133.74		
K33A DM71K4					20
12	205	1.95	120.13		
<b>0.25 kW</b>					
K23G02A DM71K4					18
8.9	260	0.80	159.00		
9.9	230	0.90	142.73		
11	205	1.00	124.58		
13	177	1.15	109.11		
K23A DM71K4					14
14	173	1.20	102.27		
16	148	1.40	87.38		
19	128	1.60	75.61		
21	112	1.80	66.09		
K12G02A DM71K4					14
17	131	0.85	84.88		
19	117	0.95	76.20		
21	102	1.00	66.51		
24	90	1.00	58.25		
K12A DM71K4					10
26	84	1.30	54.60		
30	72	1.55	46.65		
35	62	1.75	40.37		
40	54	2.0	35.29		
K02A DM71K4					8
32	68	0.85	44.20		
38	58	1.00	37.47		
44	50	1.15	32.16		
51	43	1.30	27.86		
58	37	1.40	24.30		
66	33	1.55	21.32		
75	29	1.70	18.78		
85	26	1.90	16.58		
100	22	2.2	14.05		
117	19	2.4	12.06		
135	16	2.6	10.45		
155	14	2.9	9.11		
176	13	3.2	8.00		
200	11	3.4	7.04		
231	9.8	4.2	6.10		
267	8.5	4.6	5.29		
306	7.4	5.1	4.61		
349	6.5	5.5	4.05		
396	5.7	6.1	3.56		
<b>0.37 kW</b>					
K53G22A DM71G4					57
3.0	1130	1.25	470.34		
3.3	1030	1.40	427.46		
3.7	905	1.55	376.88		
4.2	805	1.80	333.79		
4.7	725	1.95	301.24		
K43G12A DM71G4					34
4.0	840	0.90	349.80		
4.6	735	1.00	306.38		
5.1	665	1.10	275.54		
5.7	600	1.25	249.26		
6.2	545	1.35	227.20		
7.0	490	1.50	202.69		
7.8	435	1.70	181.81		
8.5	395	1.85	164.95		
K43A DM71G4					29
9.3	380	1.95	151.92		
<b>0.37 kW</b>					
K33G12A DM71G4					26
6.7	505	0.80	210.10		
7.5	455	0.90	188.46		
8.2	410	0.95	171.28		
9.3	365	1.10	151.01		
11	320	1.25	133.74		
12	290	1.40	119.69		
14	250	1.60	104.17		
K33A DM71G4					20
12	300	1.35	120.13		
14	260	1.55	103.13		
16	225	1.75	89.71		
18	198	2.0	78.85		
K23G02A DM71G4					19
13	265	0.80	109.11		
K23A DM71G4					15
14	255	0.80	102.27		
16	220	0.95	87.38		
19	189	1.10	75.61		
21	166	1.25	66.09		
24	146	1.40	58.23		
27	129	1.60	51.62		
31	115	1.75	46.00		
34	103	1.95	41.29		
K12A DM71G4					11
26	125	0.90	54.60		
30	106	1.05	46.65		
35	92	1.20	40.37		
40	80	1.35	35.29		
45	71	1.55	31.09		
51	63	1.70	27.56		
57	56	1.85	24.56		
64	50	2.00	22.04		
K02A DM71G4					9
44	73	0.80	32.16		
51	64	0.90	27.86		
58	55	0.95	24.30		
66	49	1.05	21.32		
75	43	1.15	18.78		
85	39	1.30	16.58		
100	33	1.45	14.05		
117	28	1.60	12.06		
135	24	1.75	10.45		

Type -kg  
n2 [1/min] T2 [Nm] cG i

## 0.55 kW

K43G12A DM80K4	36
5.6	895 0.85 249.26
6.2	815 0.90 227.20
6.9	725 1.00 202.69
7.7	655 1.15 181.81
8.5	590 1.25 164.95
9.6	525 1.40 146.17
11	460 1.60 128.66
K43A DM80K4	30
12	430 1.75 114.99
14	380 1.95 101.80
K33G12A DM80K4	28
11	480 0.85 133.74
12	430 0.95 119.69
13	375 1.05 104.17
K33A DM80K4	22
16	335 1.20 89.71
18	295 1.35 78.85
20	260 1.55 69.88
23	235 1.70 62.34
25	210 1.90 55.92
K23A DM80K4	17
21	245 0.85 66.09
24	220 0.95 58.23
27	193 1.05 51.62
31	172 1.20 46.00
34	154 1.30 41.29
39	135 1.50 36.04
45	118 1.75 31.57
K12A DM80K4	13
35	137 0.80 40.37
40	120 0.90 35.29
45	106 1.05 31.09
51	94 1.15 27.56
57	84 1.25 24.56
64	75 1.35 22.04
73	65 1.50 19.24
83	57 1.60 16.85
K02A DM80K4	11
117	42 1.05 12.06
134	36 1.20 10.45
154	32 1.30 9.11
176	28 1.45 8.00
200	24 1.55 7.04
230	22 1.90 6.10
266	19 2.1 5.29
305	16 2.3 4.61
347	14 2.5 4.05
394	13 2.8 3.56

## 0.75 kW

K73G32A DM80GB4	138
3.0	2310 1.85 478.39
K63G22A DM80GB4	88
3.1	2200 1.15 455.78
3.5	1950 1.30 403.67
3.8	1800 1.40 373.19
4.2	1620 1.55 336.18
4.7	1450 1.75 301.25
5.3	1300 1.95 269.78

Type -kg  
n2 [1/min] T2 [Nm] cG i

## 0.75 kW

K53G22A DM80GB4	61
3.8	1820 0.80 376.88
4.3	1610 0.90 333.79
4.7	1450 1.00 301.24
5.1	1340 1.05 277.28
5.8	1200 1.20 247.82
6.5	1060 1.35 220.06
7.3	940 1.50 195.01
8.2	835 1.70 173.54
9.6	715 2.00 148.66
K43G12A DM80GB4	39
7.8	875 0.85 181.81
8.6	795 0.95 164.95
9.7	705 1.05 146.17
11	620 1.20 128.66
K43A DM80GB4	33
12	580 1.30 114.99
14	510 1.45 101.80
16	455 1.65 90.90
17	410 1.80 81.75
19	370 2.00 73.96
K33G12A DM80GB4	31
14	505 0.80 104.17
K33A DM80GB4	25
16	450 0.90 89.71
18	395 1.00 78.85
20	350 1.15 69.88
23	315 1.25 62.34
25	280 1.40 55.92
28	255 1.55 50.82
32	225 1.75 44.80
36	199 2.0 39.68
K23A DM80GB4	20
28	260 0.80 51.62
31	230 0.90 46.00
35	210 1.00 41.29
40	181 1.15 36.04
45	159 1.30 31.57
55	131 1.55 26.14
62	115 1.80 22.85
71	101 2.0 20.13
K12A DM80GB4	16
52	126 0.85 27.56
58	112 0.90 24.56
65	101 1.00 22.04
74	88 1.10 19.24
85	77 1.20 16.85
95	70 1.55 15.08
107	62 1.70 13.29
121	55 1.85 11.78
136	49 2.00 10.49
K02A DM80GB4	14
118	56 0.80 12.06
136	49 0.90 10.45
156	43 0.95 9.11
178	37 1.05 8.00
202	33 1.15 7.04
234	29 1.40 6.10
270	25 1.55 5.29
309	22 1.75 4.61
352	19 1.85 4.05
400	17 2.1 3.56

## 1.1 kW

K83G32A DM90SB4	205
3.0	3370 2.4 483.36

Type -kg  
n2 [1/min] T2 [Nm] cG i

## 1.1 kW

K73G32A DM90SB4	141
3.0	3340 1.30 478.39
3.5	2890 1.50 414.39
3.9	2620 1.65 374.95
4.2	2380 1.80 340.39
4.8	2120 2.0 303.50
5.6	1790 2.4 256.81
K63G22A DM90SB4	92
3.2	3180 0.80 455.78
3.6	2820 0.90 403.67
3.9	2600 1.00 373.19
4.3	2350 1.10 336.18
4.8	2100 1.20 301.25
5.4	1880 1.35 269.78
6.0	1690 1.50 242.80
6.8	1480 1.75 211.83
7.6	1320 1.95 189.77
K63A DM90SB4	84
9.0	1170 2.2 160.53
10	1050 2.4 144.48
K53G22A DM90SB4	65
5.8	1730 0.85 247.82
6.6	1540 0.95 220.06
7.4	1360 1.05 195.01
8.3	1210 1.20 173.54
9.7	1040 1.40 148.66
11	945 1.50 135.16
K53A DM90SB4	56
12	900 1.60 123.46
13	805 1.75 110.68
14	725 1.95 99.94
16	660 2.2 90.79
17	605 2.4 83.01
K43G12A DM90SB4	43
11	900 0.85 128.66
K43A DM90SB4	37
14	740 1.00 101.80
16	660 1.10 90.90
18	595 1.25 81.75
20	540 1.40 73.96
21	490 1.50 67.41
24	435 1.70 60.14
27	390 1.90 53.94
30	355 2.1 48.94
33	315 2.4 43.37
K33A DM90SB4	29
21	510 0.80 69.88
23	455 0.90 62.34
26	405 1.00 55.92
28	370 1.10 50.82
32	325 1.20 44.80
36	290 1.40 39.68
41	260 1.55 35.51
47	225 1.80 30.91
53	198 2.0 27.26
60	176 2.3 24.15
K23A DM90SB4	24
40	260 0.80 36.04
46	230 0.90 31.57
63	166 1.25 22.85
72	146 1.40 20.13
81	130 1.55 17.84
91	116 1.75 15.90
101	104 1.95 14.27
116	91 2.3 12.46
155	68 2.4 9.34

Type -kg  
n2 [1/min] T2 [Nm] cG i

## 1.1 kW

K12A DM90SB4	20
86	111 0.85 16.85
96	102 1.05 15.08
109	90 1.15 13.29
123	80 1.30 11.78
138	71 1.40 10.49
153	64 1.50 9.42
176	56 1.65 8.22
201	49 1.80 7.20
231	43 2.6 6.24
261	38 2.9 5.54
293	34 3.1 4.93
326	31 3.4 4.43
374	27 3.7 3.86
427	23 4.1 3.38

## 1.5 kW

K83G32A DM90LB4	212
3.0	4570 1.75 483.36
3.4	4020 2.00 425.46
3.9	3520 2.3 372.59
K73G32A DM90LB4	147
3.0	4520 0.95 478.39
3.5	3920 1.10 414.39
3.9	3540 1.20 374.95
4.3	3220 1.35 340.39
4.8	2870 1.50 303.50
5.7	2430 1.80 256.81
6.3	2200 1.95 232.36
6.9	1990 2.2 210.95
7.7	1780 2.4 188.09
K73A DM90LB4	134
7.9	1800 2.4 183.21
K63G22A DM90LB4	99
4.3	3180 0.80 336.18
4.8	2850 0.90 301.25
5.4	2550 1.00 269.78
6.0	2290 1.10 242.80
6.9	2000 1.25 211.83
7.7	1790 1.40 189.77
K63A DM90LB4	90
9.1	1580 1.60 160.53
10	1420 1.80 144.48
11	1290 2.00 130.99
12	1180 2.2 119.50
13	1080 2.4 109.93
K53G22A DM90LB4	72
8.4	1640 0.85 173.54
9.8	1410 1.00 148.66
11	1280 1.10 135.16
K53A DM90LB4	64
12	1220 1.15 123.46
13	1090 1.30 110.68
15	985 1.45 99.94
16	895 1.60 90.79
18	815 1.75 83.01
20	735 1.95 74.48
22	660 2.2 67.22
24	610 2.3 61.87



Type  
n2 [1/min] T2 [Nm] cG i -kg

## 1.5 kW

K43A DM90LB4	44
16	895 0.85 90.90
18	805 0.90 81.75
20	730 1.00 73.96
22	665 1.10 67.41
24	590 1.25 60.14
27	530 1.40 53.94
30	480 1.55 48.94
34	425 1.75 43.37
38	375 2.00 38.17
44	330 2.3 33.43

K33A DM90LB4	36
29	500 0.80 50.82
32	440 0.90 44.80
37	390 1.00 39.68
41	350 1.15 35.51
47	305 1.30 30.91
53	270 1.50 27.26
60	240 1.70 24.15
68	210 1.90 21.55
75	190 2.1 19.33
83	173 2.3 17.57

K23A DM90LB4	31
64	225 0.90 22.85
72	198 1.05 20.13
82	176 1.15 17.84
92	157 1.30 15.90
102	141 1.45 14.27
117	123 1.65 12.46
133	107 1.90 10.91
156	92 1.75 9.34
176	82 1.95 8.28
197	73 2.2 7.38
220	65 2.5 6.63
252	57 2.8 5.78
287	50 3.2 5.07

K12A DM90LB4	27
96	138 0.80 15.08
110	122 0.85 13.29
124	108 0.95 11.78
139	96 1.00 10.49
154	86 1.10 9.42
177	75 1.20 8.22
202	66 1.35 7.20
233	58 1.90 6.24
263	52 2.1 5.54
295	46 2.3 4.93
329	41 2.5 4.43

## 2.2 kW

K93G42A DM100LA4	347
2.9	6870 1.80 497.00
3.2	6280 1.95 454.31
3.5	5730 2.1 414.77
3.9	5180 2.4 375.01
K83G32A DM100LA4	238
3.0	6680 1.20 483.36
3.4	5880 1.35 425.46
3.9	5150 1.55 372.59
4.5	4520 1.75 327.28
4.9	4120 1.95 298.11
5.6	3610 2.2 261.13
6.1	3280 2.4 237.53

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 2.2 kW

K73G32A DM100LA4	167
3.9	5180 0.85 374.95
4.3	4700 0.90 340.39
4.8	4190 1.05 303.50
5.7	3550 1.20 256.81
6.3	3210 1.35 232.36
6.9	2910 1.50 210.95
7.8	2600 1.65 188.09
K73A DM100LA4	158
8.0	2640 1.65 183.21
8.8	2400 1.80 166.63
9.6	2190 1.95 152.50
10	2030 2.1 141.34
11	1840 2.3 128.10

K63G22A DM100LA4	114
6.9	2930 0.85 211.83
7.7	2620 0.95 189.77
K63A DM100LA4	108
10	2080 1.25 144.48
11	1890 1.35 130.99
12	1720 1.50 119.50
13	1580 1.60 109.93
15	1430 1.80 99.21
16	1300 1.95 90.07
18	1200 2.1 83.27
19	1080 2.4 75.02

K53A DM100LA4	82
13	1590 0.90 110.68
15	1440 1.00 99.94
16	1310 1.10 90.79
18	1190 1.20 83.01
20	1070 1.35 74.48
22	965 1.50 67.22
24	890 1.60 61.87
26	795 1.80 55.30
30	705 2.0 49.10
34	625 2.3 43.51

K43A DM100LA4	63
24	865 0.85 60.14
27	775 0.95 53.94
30	705 1.05 48.94
34	625 1.20 43.37
38	550 1.35 38.17
44	480 1.55 33.43
50	425 1.75 29.37
57	370 2.0 25.56
63	335 2.2 23.30
70	300 2.5 20.79

K33A DM100LA4	55
41	510 0.80 35.51
47	445 0.90 30.91
60	350 1.15 24.15
68	310 1.30 21.55
76	280 1.45 19.33
83	255 1.60 17.57
94	225 1.80 15.49
106	197 2.0 13.72
119	177 2.2 12.27
137	154 2.4 10.68
157	134 1.80 9.30
173	122 2.5 8.45
196	107 2.7 7.45
221	95 2.9 6.60
247	85 3.5 5.91
284	74 3.9 5.14

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 3.0 kW

K93G42A DM100LE4	333
2.9	9390 1.30 497.00
3.2	8590 1.45 454.31
3.5	7840 1.55 414.77
3.9	7090 1.75 375.01
4.5	6150 2.00 325.31
5.1	5380 2.3 284.64

K83G32A DM100LE4	223
3.0	9140 0.85 483.36
3.4	8040 1.00 425.46
3.9	7040 1.15 372.59
4.4	6190 1.30 327.28
4.9	5640 1.40 298.11
5.6	4940 1.60 261.13
6.1	4490 1.75 237.53
6.8	4040 1.95 213.95
7.6	3630 2.2 192.10
7.8	3550 2.2 187.60
8.8	3110 2.3 164.78

K73G32A DM100LE4	160
5.7	4850 0.90 256.81
6.3	4390 1.00 232.36
6.9	3990 1.10 210.95
7.7	3560 1.20 188.09
K73A DM100LE4	146
7.9	3610 1.20 183.21
8.7	3280 1.30 166.63
9.5	3000 1.45 152.50
10	2780 1.55 141.34
11	2520 1.70 128.10
12	2300 1.90 116.83
13	2130 2.0 108.36
15	1930 2.2 98.17
16	1760 2.5 89.29

K63A DM100LE4	102
10	2840 0.90 144.48
11	2580 1.00 130.99
12	2350 1.10 119.50
13	2160 1.20 109.93
15	1950 1.30 99.21
16	1770 1.45 90.07
17	1640 1.55 83.27
19	1480 1.75 75.02
22	1320 1.95 67.22
24	1190 2.2 60.20
27	1070 2.4 54.18

K53A DM100LE4	76
16	1790 0.80 90.79
18	1630 0.85 83.01
20	1470 0.95 74.48
22	1320 1.10 67.22
24	1220 1.15 61.87
26	1090 1.30 55.30
30	965 1.50 49.10
33	855 1.65 43.51
38	760 1.85 38.72
49	580 2.5 29.56

K43A DM100LE4	56
34	855 0.85 43.37
38	750 1.00 38.17
44	660 1.15 33.43
50	580 1.30 29.37
57	505 1.50 25.56
62	460 1.60 23.30
70	410 1.80 20.79
78	365 2.0 18.65
86	335 2.2 16.92
97	295 2.5 14.99

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 3.0 kW

K33A DM100LE4	48
60	475 0.85 24.15
68	425 0.95 21.55
75	380 1.05 19.33
83	345 1.15 17.57
94	305 1.30 15.49
106	270 1.50 13.72
119	240 1.60 12.27
136	210 1.80 10.68
156	183 1.30 9.30
172	166 1.80 8.45
195	147 1.95 7.45
220	130 2.1 6.60
246	116 2.6 5.91
283	101 2.9 5.14

## 4.0 kW

K93G42A DM112MB4	337
2.9	12500 1.00 497.00
3.2	11400 1.05 454.31
3.5	10400 1.20 414.77
3.9	9420 1.30 375.01
4.5	8170 1.50 325.31
5.1	7150 1.70 284.64

K83G32A DM112MB4	226
3.9	9360 0.85 372.59
4.5	8220 0.95 327.28
4.9	7490 1.05 298.11
5.6	6560 1.20 261.13
6.1	5970 1.35 237.53
6.8	5370 1.50 213.95
7.6	4830 1.65 192.10
7.8	4710 1.65 187.60
8.9	4140 1.70 164.78

K83A DM112MB4	212
10	3790 2.1 144.68
11	3460 2.3 132.28
12	3200 2.5 122.27

K73G32A DM112MB4	163
6.9	5300 0.80 210.95
7.8	4720 0.90 188.09

K73A DM112MB4	150
8.8	4360 1.00 166.63
9.6	3990 1.10 152.50
10	3700 1.15 141.34
11	3350 1.30 128.10
12	3060 1.40 116.83
13	2840 1.55 108.36
15	2570 1.70 98.17
16	2340 1.85 89.29
18	2110 2.1 80.57
20	1910 2.3 73.10

K63A DM112MB4	106
12	3130 0.80 119.50
13	2880 0.90 109.93
15	2600 1.00 99.21
16	2360 1.10 90.07
18	2180 1.15 83.27
19	1960 1.30 75.02
22	1760 1.45 67.22
24	1580 1.60 60.20
27	1420 1.80 54.18



Type  
n2 [1/min] T2 [Nm] cG i -kg

## 4.0 kW

<b>K53A DM112MB4</b>				79
22	1760	0.80	67.22	
24	1620	0.90	61.87	
26	1450	1.00	55.30	
30	1280	1.10	49.10	
34	1140	1.25	43.51	
38	1010	1.40	38.72	
49	775	1.85	29.56	
55	700	2.0	26.68	
59	640	2.2	24.56	
67	575	2.5	21.95	

<b>K43A DM112MB4</b>				60
44	875	0.85	33.43	
50	770	0.95	29.37	
57	670	1.10	25.56	
63	610	1.20	23.30	
70	545	1.35	20.79	
78	490	1.50	18.65	
86	445	1.70	16.92	
97	390	1.90	14.99	
111	345	2.2	13.20	
126	300	2.5	11.56	
170	225	2.5	8.60	

<b>K33A DM112MB4</b>				52
76	505	0.80	19.33	
83	460	0.85	17.57	
94	405	1.00	15.49	
106	360	1.10	13.72	
119	320	1.20	12.27	
137	280	1.35	10.68	
157	245	1.50	9.30	
173	220	1.70	8.45	
196	195	1.90	7.45	
221	173	2.0	6.60	
247	155	2.2	5.91	
284	134	2.5	5.14	

## 5.5 kW

<b>K93G42A DA132SB4</b>				368
3.2	15700	0.80	454.31	
3.5	14400	0.85	414.77	
3.9	13000	0.95	375.01	
4.5	11300	1.10	325.31	
5.1	9860	1.25	284.64	
5.8	8740	1.40	252.16	
6.7	7580	1.60	218.74	
7.6	6630	1.85	191.40	
8.6	5840	2.1	168.61	
10	5000	2.5	144.17	

<b>K93A DA132SB4</b>				344
11	4960	2.5	137.36	

<b>K83G32A DA132SB4</b>				257
5.6	9050	0.90	261.13	
6.1	8230	0.95	237.53	
6.8	7410	1.05	213.95	
7.6	6660	1.20	192.10	
7.8	6500	1.20	187.60	
8.8	5710	1.25	164.78	

<b>K83A DA132SB4</b>				244
10	5220	1.50	144.68	
11	4780	1.65	132.28	
12	4410	1.80	122.27	
13	4010	2.00	111.12	
14	3660	2.2	101.42	
16	3320	2.4	91.87	

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 5.5 kW

<b>K73A DA132SB4</b>				181
11	4620	0.95	128.10	
12	4220	1.05	116.83	
13	3910	1.10	108.36	
15	3540	1.20	98.17	
16	3220	1.35	89.29	
18	2910	1.50	80.57	
20	2640	1.65	73.10	
23	2290	1.90	63.32	
25	2070	2.1	57.29	
28	1880	2.3	52.01	

<b>K63A DA132SB4</b>				137
16	3250	0.80	90.07	
17	3010	0.85	83.27	
19	2710	0.95	75.02	
22	2430	1.05	67.22	
24	2170	1.15	60.20	
27	1960	1.30	54.18	
31	1710	1.50	47.27	
34	1530	1.65	42.35	
39	1360	1.90	37.56	
44	1190	2.1	33.00	
49	1070	2.4	29.77	

<b>K53A DA132SB4</b>				111
30	1770	0.80	49.10	
33	1570	0.90	43.51	
38	1400	1.00	38.72	
44	1200	1.20	33.17	
49	1070	1.35	29.56	
55	965	1.50	26.68	
59	885	1.60	24.56	
66	790	1.80	21.95	
75	705	2.0	19.49	
84	625	2.2	17.27	
95	555	2.4	15.37	
135	390	2.5	10.75	

<b>K43A DA132SB4</b>				91
70	750	1.00	20.79	
78	675	1.10	18.65	
86	610	1.20	16.92	
97	540	1.35	14.99	
110	475	1.55	13.20	
126	415	1.80	11.56	
143	365	2.0	10.15	
169	310	2.25	8.60	
191	275	2.50	7.62	
217	240	2.75	6.71	
248	210	3.00	5.87	
282	186	3.25	5.16	

## 7.5 kW

<b>K93G42A DA132MB4</b>				368
4.5	15300	0.80	325.31	
5.1	13400	0.90	284.64	
5.8	11900	1.05	252.16	
6.7	10300	1.20	218.74	
7.6	9010	1.35	191.40	
8.7	7940	1.55	168.61	
10	6790	1.80	144.17	

<b>K93A DA132MB4</b>				344
11	6740	1.80	137.36	
12	6180	2.00	126.06	
13	5620	2.2	114.62	
14	5140	2.4	104.80	

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 7.5 kW

<b>K83A DA132MB4</b>				244
10	7100	1.10	144.68	
11	6490	1.25	132.28	
12	6000	1.35	122.27	
13	5450	1.45	111.12	
14	4980	1.60	101.42	
16	4510	1.75	91.87	
17	4110	1.95	83.68	
20	3600	2.2	73.30	
22	3270	2.4	66.68	

<b>K73A DA132MB4</b>				180
13	5320	0.80	108.36	
15	4820	0.90	98.17	
16	4380	1.00	89.29	
18	3950	1.10	80.57	
20	3590	1.20	73.10	
23	3110	1.40	63.32	
25	2810	1.55	57.29	
28	2550	1.70	52.01	
31	2280	1.90	46.38	
33	2160	2.0	43.99	
36	1960	2.2	40.01	
40	1770	2.4	36.10	

<b>K63A DA132MB4</b>				137
24	2950	0.85	60.20	
27	2660	0.95	54.18	
31	2320	1.10	47.27	
34	2080	1.25	42.35	
39	1840	1.40	37.56	
44	1620	1.55	33.00	
49	1460	1.75	29.77	
55	1310	1.95	26.68	
61	1170	2.1	23.89	
68	1050	2.3	21.50	
78	920	2.5	18.76	

<b>K53A DA132MB4</b>				111
44	1630	0.90	33.17	
49	1450	1.00	29.56	
55	1310	1.10	26.68	
59	1200	1.20	24.56	
67	1080	1.35	21.95	
75	955	1.50	19.49	
85	845	1.60	17.27	
95	755	1.75	15.37	
111	645	1.95	13.17	
126	570	2.1	11.61	
136	530	2.25	10.75	
153	470	2.4	9.55	
173	415	2.6	8.46	

<b>K43A DA132MB4</b>				91
78	915	0.80	18.65	
86	830	0.90	16.92	
97	735	1.00	14.99	
111	645	1.15	13.20	
126	565	1.30	11.56	
144	500	1.50	10.15	
170	420	1.75	8.60	
192	375	1.95	7.62	
218	330	2.1	6.71	
249	290	2.3	5.87	
283	255	2.5	5.16	

## 11.0 kW

<b>K93G42A DA160MB4</b>				395
6.7	15100	0.80	218.74	
7.7	13200	0.95	191.40	
8.7	11600	1.05	168.61	
10	9920	1.25	144.17	

Type  
n2 [1/min] T2 [Nm] cG i -kg

## 11.0 kW

<b>K93A DA160MB4</b>				371
11	9850	1.25	137.36	
12	9040	1.35	126.06	
13	8220	1.50	114.62	
14	7520	1.65	104.80	
16	6650	1.85	92.68	
17	6070	2.0	84.72	
19	5550	2.2	77.34	
21	5010	2.4	69.93	

<b>K83A DA160MB4</b>				270
13	7970	1.00	111.12	
14	7270	1.10	101.42	
16	6590	1.20	91.87	
18	6000	1.35	83.68	
20	5260	1.50	73.30	
22	4780	1.65	66.68	
24	4310	1.85	60.06	
27	3870	2.1	53.92	
32	3320	2.4	46.25	

<b>K73A DA160MB4</b>				207
20	5240	0.85	73.10	
23	4540	0.95	63.32	
26	4110	1.05	57.29	
28	3730	1.15	52.01	
32	3330	1.30	46.38	
33	3150	1.35	43.99	
37	2870	1.50	40.01	
41	2590	1.65	36.10	
45	2350	1.85	32.75	
52	2030	2.1	28.37	
57	1840	2.4	25.67	

<b>K63A DA160MB4</b>				164
35	3040	0.85	42.35	
39	2690	0.95	37.56	
44	2370	1.05	33.00	
49	2130	1.20	29.77	
55	1910	1.35	26.68	
61	1710	1.45	23.89	
68	1540	1.55	21.50	
78	1350	1.70	18.76	
87	1210	1.85	16.81	
98	1070	2.0	14.91	
112	940	2.2	13.10	
126	830	2.4	11.58	
141	750	2.6	10.43	

<b>K53A DA160MB4</b>				137
67	1570	0.90	21.95	
75	1400	1.00	19.49	
85	1240	1.10	17.27	
95	1100	1.20	15.37	
111	945	1.35	13.17	
126	835	1.45	11.61	
136	770	1.50	10.75	
153	685	1.65	9.55	
173	605	1.80	8.46	
195	540	1.95	7.53	
227	465	2.1	6.45	
257	410	2.3	5.69	

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>15.0 kW</b>					
K93A DA160LB4					382
11	13400	0.90	137.36		
12	12300	1.00	126.06		
13	11200	1.10	114.62		
14	10200	1.20	104.80		
16	9060	1.35	92.68		
17	8280	1.50	84.72		
19	7560	1.60	77.34		
21	6840	1.80	69.93		
24	5930	2.1	60.66		
28	5190	2.4	53.08		
K83A DA160LB4					282
14	9920	0.80	101.42		
16	8980	0.90	91.87		
18	8180	0.95	83.68		
20	7170	1.10	73.30		
22	6520	1.20	66.68		
24	5870	1.35	60.06		
27	5270	1.50	53.92		
32	4520	1.75	46.25		
37	3910	2.0	39.98		
45	3210	2.5	32.84		
K73A DA160LB4					219
28	5090	0.85	52.01		
32	4530	0.95	46.38		
33	4300	1.00	43.99		
37	3910	1.10	40.01		
41	3530	1.25	36.10		
45	3200	1.35	32.75		
52	2770	1.55	28.37		
57	2510	1.70	25.67		
63	2280	1.90	23.31		
71	2030	2.1	20.78		
83	1720	2.5	17.62		
106	1350	2.3	13.76		
118	1220	2.5	12.45		
K63A DA160LB4					175
49	2910	0.90	29.77		
55	2610	1.00	26.68		
61	2340	1.05	23.89		
68	2100	1.15	21.50		
78	1830	1.25	18.76		
87	1640	1.35	16.81		
98	1460	1.45	14.91		
112	1280	1.60	13.10		
126	1130	1.50	11.58		
141	1020	1.65	10.43		
161	890	1.90	9.10		
180	795	2.1	8.15		
203	705	2.3	7.23		
231	620	2.5	6.35		
K53A DA160LB4					149
85	1690	0.80	17.27		
95	1500	0.90	15.37		
111	1290	1.00	13.17		
126	1140	1.05	11.61		
136	1050	0.95	10.75		
153	935	1.05	9.55		
173	825	1.20	8.46		
195	735	1.35	7.53		
227	630	1.50	6.45		
257	555	1.65	5.69		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>18.5 kW</b>					
K93A DA180MD4					434
13	13800	0.90	114.62		
14	12600	0.95	104.80		
16	11200	1.10	92.68		
17	10200	1.20	84.72		
19	9330	1.30	77.34		
21	8430	1.45	69.93		
24	7320	1.65	60.66		
28	6400	1.90	53.08		
31	5640	2.2	46.76		
K83A DA180MD4					334
18	10100	0.80	83.68		
20	8840	0.90	73.30		
22	8040	1.00	66.68		
24	7240	1.10	60.06		
27	6500	1.20	53.92		
32	5580	1.45	46.25		
37	4820	1.65	39.98		
42	4190	1.90	34.75		
45	3960	2.0	32.84		
49	3600	2.2	29.88		
54	3250	2.5	26.91		
K73A DA180MD4					271
41	4350	1.00	36.10		
45	3950	1.10	32.75		
52	3420	1.25	28.37		
57	3100	1.40	25.67		
63	2810	1.55	23.31		
71	2510	1.75	20.78		
83	2130	2.0	17.62		
97	1810	2.3	15.04		
106	1660	1.85	13.76		
118	1500	2.1	12.45		
130	1360	2.3	11.30		
K63A DA180MD4					228
61	2880	0.85	23.89		
68	2590	0.90	21.50		
78	2260	1.00	18.76		
87	2030	1.10	16.81		
98	1800	1.20	14.91		
112	1580	1.30	13.10		
126	1400	1.20	11.58		
141	1260	1.35	10.43		
161	1100	1.55	9.10		
180	985	1.75	8.15		
203	870	1.90	7.23		
231	765	2.1	6.35		
<b>22.0 kW</b>					
K93A DA180LB4					434
14	15000	0.80	104.80		
16	13300	0.90	92.68		
17	12100	1.00	84.72		
19	11100	1.10	77.34		
21	10000	1.20	69.93		
24	8700	1.40	60.66		
28	7610	1.60	53.08		
31	6710	1.85	46.76		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>22.0 kW</b>					
K83A DA180LB4					334
22	9560	0.85	66.68		
24	8610	0.90	60.06		
27	7730	1.05	53.92		
32	6630	1.20	46.25		
37	5730	1.40	39.98		
42	4980	1.60	34.75		
45	4710	1.70	32.84		
49	4280	1.85	29.88		
54	3860	2.1	26.91		
61	3470	2.3	24.16		
105	2010	2.4	14.01		
K73A DA180LB4					271
41	5180	0.85	36.10		
45	4700	0.90	32.75		
52	4070	1.05	28.37		
57	3680	1.20	25.67		
63	3340	1.30	23.31		
71	2980	1.45	20.78		
83	2530	1.70	17.62		
97	2160	1.95	15.04		
106	1970	1.55	13.76		
118	1790	1.75	12.45		
130	1620	1.90	11.30		
145	1440	2.1	10.08		
171	1230	2.5	8.54		
K63A DA180LB4					228
68	3080	0.80	21.50		
78	2690	0.85	18.76		
87	2410	0.90	16.81		
98	2140	1.00	14.91		
112	1880	1.10	13.10		
126	1660	1.00	11.58		
141	1500	1.10	10.43		
161	1300	1.30	9.10		
180	1170	1.45	8.15		
203	1040	1.60	7.23		
231	910	1.70	6.35		
<b>30.0 kW</b>					
K93A DA200LB4					491
19	15000	0.80	77.34		
21	13500	0.90	69.93		
24	11700	1.05	60.66		
28	10300	1.20	53.08		
32	9050	1.35	46.76		
37	7740	1.60	39.98		
43	6730	1.80	34.75		
47	6070	2.0	31.33		
54	5260	2.3	27.18		
K83A DA200LB4					391
32	8950	0.90	46.25		
37	7740	1.05	39.98		
43	6730	1.20	34.75		
45	6360	1.25	32.84		
50	5780	1.40	29.88		
55	5210	1.55	26.91		
61	4680	1.70	24.16		
71	4010	1.95	20.73		
83	3470	2.1	17.91		
95	3010	2.4	15.57		
106	2710	1.80	14.01		
118	2430	2.00	12.58		
137	2090	2.3	10.79		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>30.0 kW</b>					
K73A DA200LB4					329
52	5490	0.80	28.37		
58	4970	0.85	25.67		
64	4510	0.95	23.31		
71	4020	1.10	20.78		
84	3410	1.25	17.62		
98	2910	1.45	15.04		
108	2660	1.15	13.76		
119	2410	1.30	12.45		
131	2190	1.40	11.30		
147	1950	1.60	10.08		
173	1650	1.90	8.54		
203	1410	2.2	7.29		
<b>37.0 kW</b>					
K93A DA225SD4					607
24	14500	0.85	60.66		
28	12700	0.95	53.08		
32	11200	1.10	46.76		
37	9580	1.30	39.98		
42	8330	1.45	34.75		
47	7510	1.65	31.33		
54	6510	1.90	27.18		
62	5700	2.2	23.78		
70	5020	2.4	20.95		
103	3440	2.1	14.34		
118	3010	2.4	12.55		
K83A DA225SD4					507
37	9580	0.85	39.98		
42	8330	0.95	34.75		
45	7870	1.00	32.84		
49	7160	1.10	29.88		
55	6450	1.25	26.91		
61	5790	1.35	24.16		

Type				-kg
n2 [1/min]	T2 [Nm]	cG	i	

## 45.0 kW

K83A DA225MD4				540
42	10100	0.80	34.75	
45	9570	0.85	32.84	
49	8700	0.90	29.88	
55	7840	1.00	26.91	
61	7040	1.15	24.16	
71	6040	1.30	20.73	
82	5220	1.40	17.91	
95	4540	1.55	15.57	
105	4080	1.20	14.01	
117	3660	1.30	12.58	
137	3140	1.55	10.79	
158	2720	1.80	9.32	
182	2360	2.1	8.11	

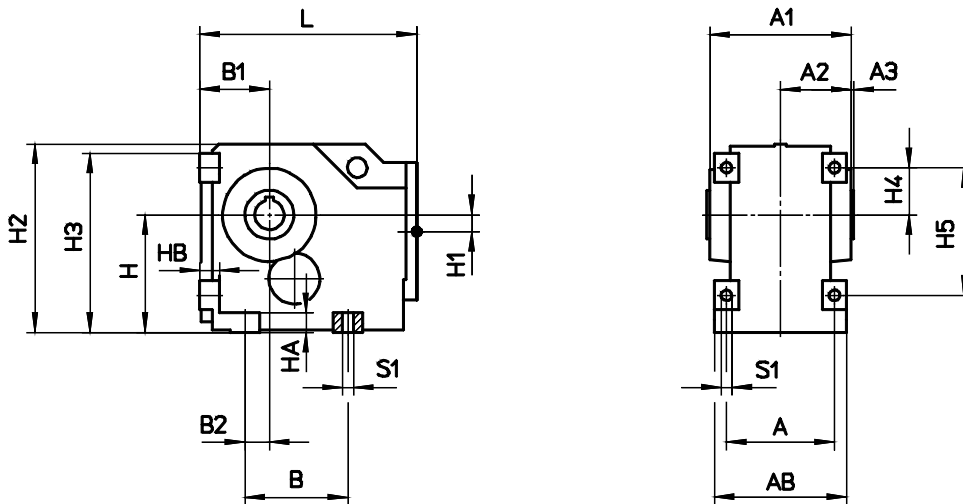
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Dimensions

A - Foot mounted version



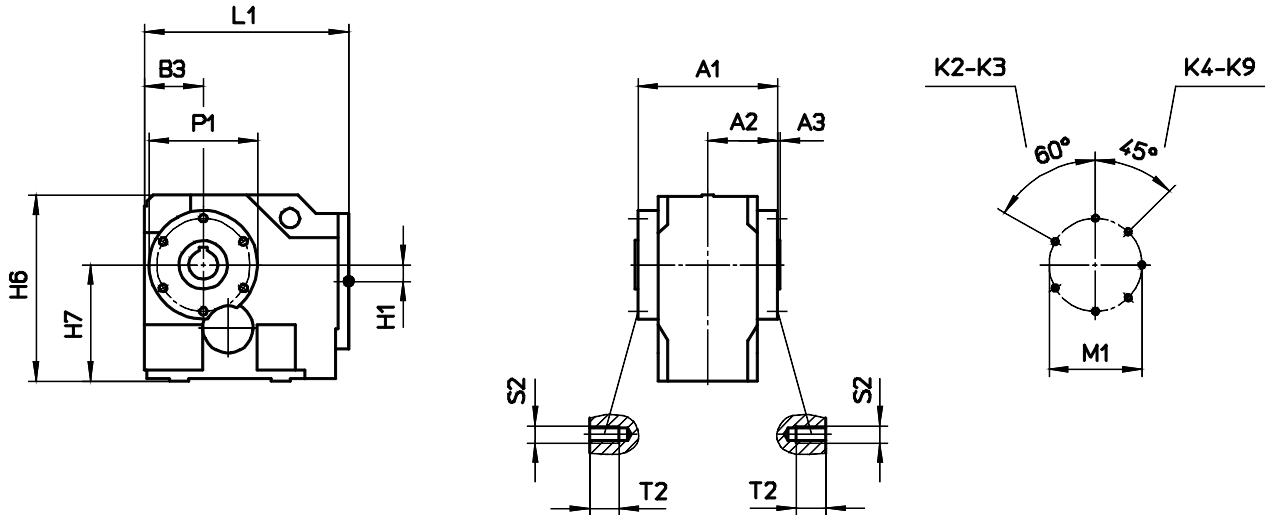
	A	AB	A1	A2	A3	B	B1	B2	H	HA	HB	H1	H2	H3	H4	H5	L	S1
<b>K2</b>	90	110	116	58	2	90	65-0.5	25	100-0.5	20	20	12	163.5	160.5	48	110	192	Ø9
<b>K3</b>	110	135	144	72	3	105	75-0.5	25	120-0.5	20	20	17	192	183	48	130	225	Ø11
<b>K4</b>	125	155	168	84	3.5	125	90-0.5	25	145-0.5	25	25	18	230	223	58	150	266	Ø13.5
<b>K5</b>	150	190	202	101	4	160	110-0.5	40	180-0.5	30	30	23.5	283.5	274.5	72	190	322	Ø17.5
<b>K6</b>	175	220	230	115	5	200	130-0.5	49	220-0.5	35	35	29	344.5	334.5	87	230	370	Ø22
<b>K7</b>	220	280	288	144	6	240	150-0.5	75	250-1	40	40	31	398.5	396	120	280	430	Ø26
<b>K8</b>	270	330	338	169	6	270	180-0.5	70	290-1	45	45	39	463	447.5	120	310	510	Ø33
<b>K9</b>	300	370	398	199	6	320	200-0.5	90	340-1	50	50	42	537	525	140	360	578	Ø39

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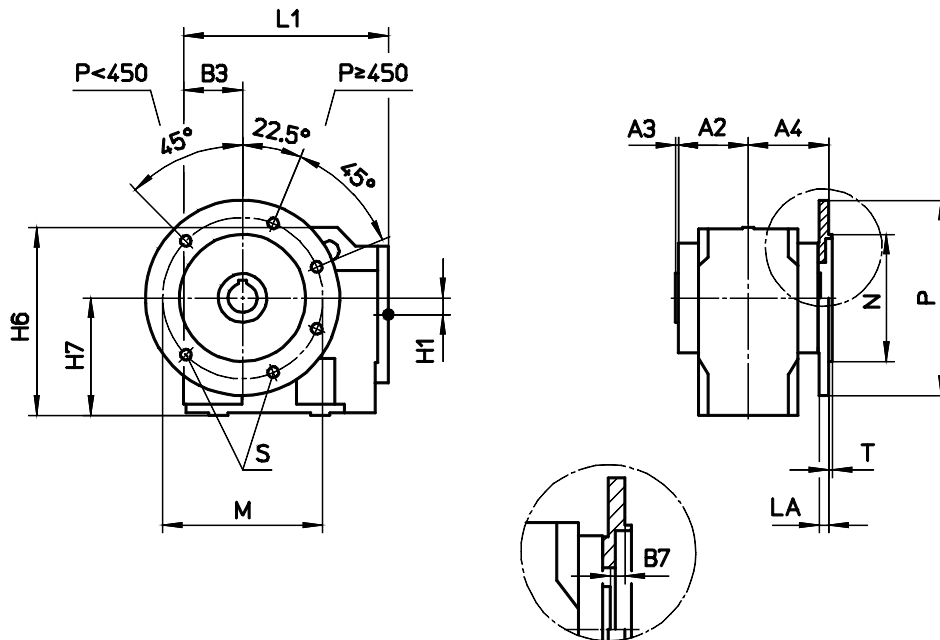
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## B - Shaft mounted version



	A1	A2	A3	B3	H1	H6	H7	L1	M1	P1	S2	T2
<b>K2</b>	116	58	2	61	12	165.5	102	188	87	99	M6	9
<b>K3</b>	144	72	3	70.5	17	194	122	220.5	96	112	M8	12
<b>K4</b>	168	84	3.5	85	18	232	147	261	106	122	M8	12
<b>K5</b>	202	101	4	106.5	23.5	286	182.5	318.5	130	150	M10	15
<b>K6</b>	230	115	5	126	29	347	222.5	366	154	178	M12	18
<b>K7</b>	288	144	6	146	31	398.5	250	426	182	214	M16	24
<b>K8</b>	338	169	6	171.5	39	463	290	501.5	220	260	M20	30
<b>K9</b>	398	199	6	193.5	42	537	340	571.5	258	306	M24	36

## C - Flange mounted version



	A2	A3	A4	B3	B7	H1	H6	H7	L1
<b>K2</b>	58	2	70	61	10	12	165.5	102	188
<b>K3</b>	72	3	83	70.5	8	17	194	122	220.5
<b>K4</b>	84	3.5	95	85	7.5	18	232	147	261
<b>K5</b>	101	4	113	106.5	8	23.5	286	182.5	318.5
<b>K6</b>	115	5	128	126	8	29	347	222.5	366
<b>K7</b>	144	6	160	146	10	31	398.5	250	426
<b>K8</b>	169	6	190	171.5	15	39	463	290	501.5
<b>K9</b>	199	6	222	193.5	17	42	537	340	571.5

	M	N	P	LA	T	S
<b>K2</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
<b>K3</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>K4</b>	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
<b>K5</b>	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
<b>K6</b>	Ø265	Ø230 j6	Ø300	12	4	Ø13.5
	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
<b>K7</b>	Ø300	Ø250 h6	Ø350	13	5	Ø17.5
	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
<b>K8</b>	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
<b>K9</b>	Ø400	Ø350 h6	Ø450	16	5	Ø17.5
	Ø500	Ø450 h6	Ø550	18	5	Ø17.5

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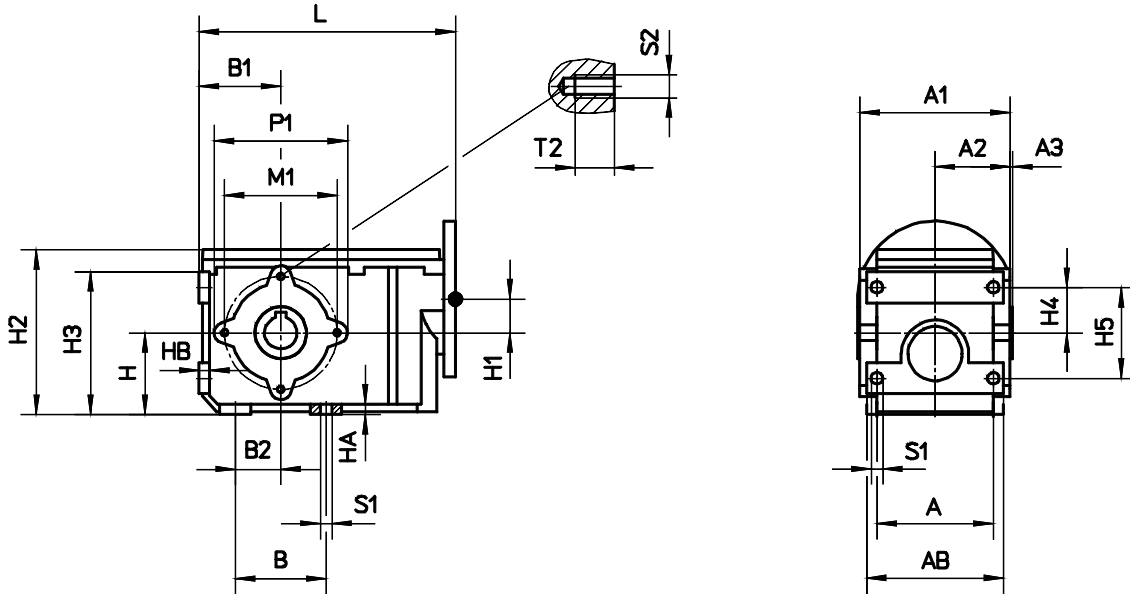
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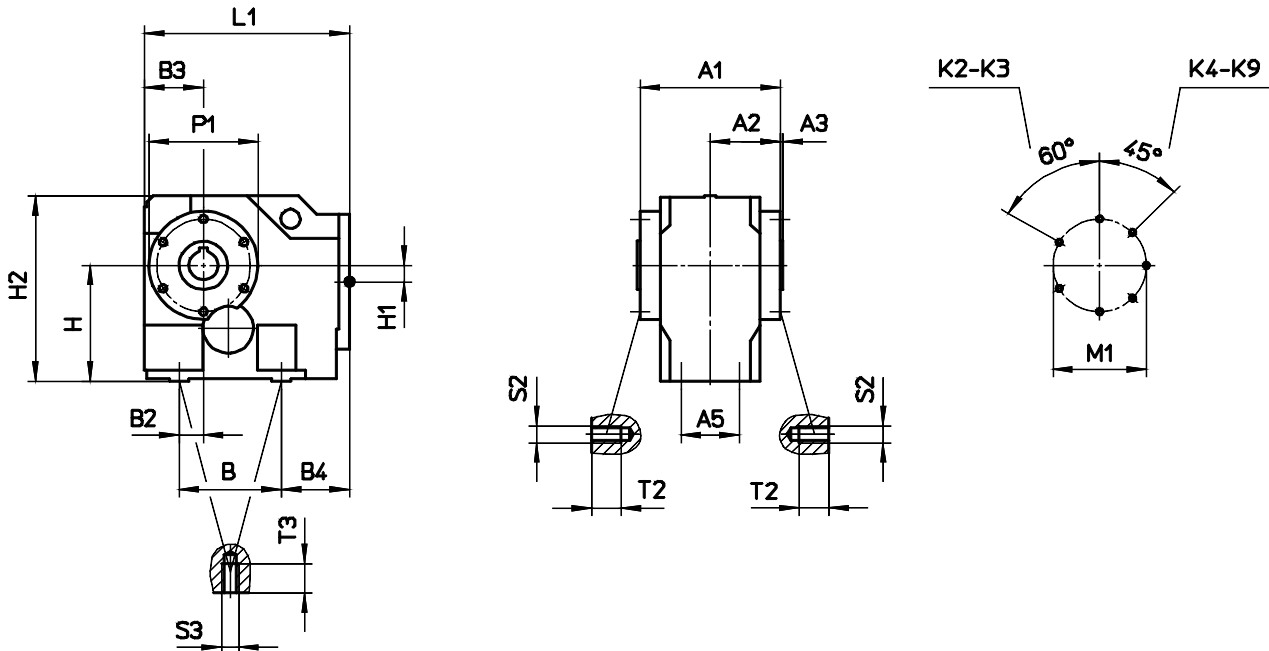
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### D - Shaft mounted version + foot area



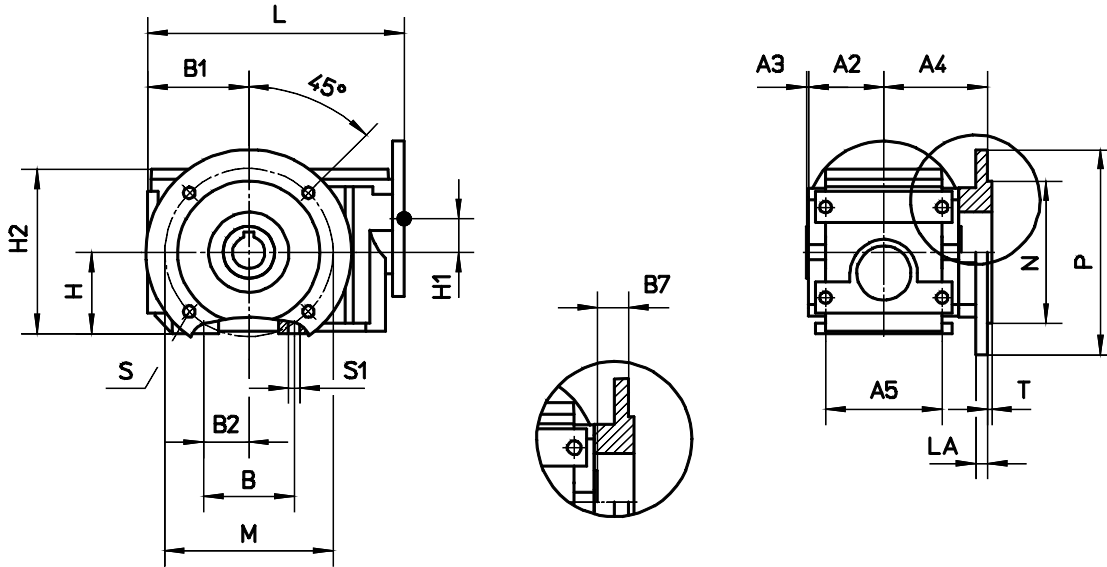
	A	AB	A1	A2	A3	B	B1	B2	H	H1	H2	H3	H4	H5	HA	HB	L	M1	P1	S1	S2	T2
K0	80	95	102	51	1.5	60	50	30	50	23.7	108.5	89	30	60	7	7	165	74	88	Ø6.6	M6	9
K1	90	106	116	58	2	70	63	35	63	26	128	108	35	70	8	8	198	87	103	Ø9	M6	9



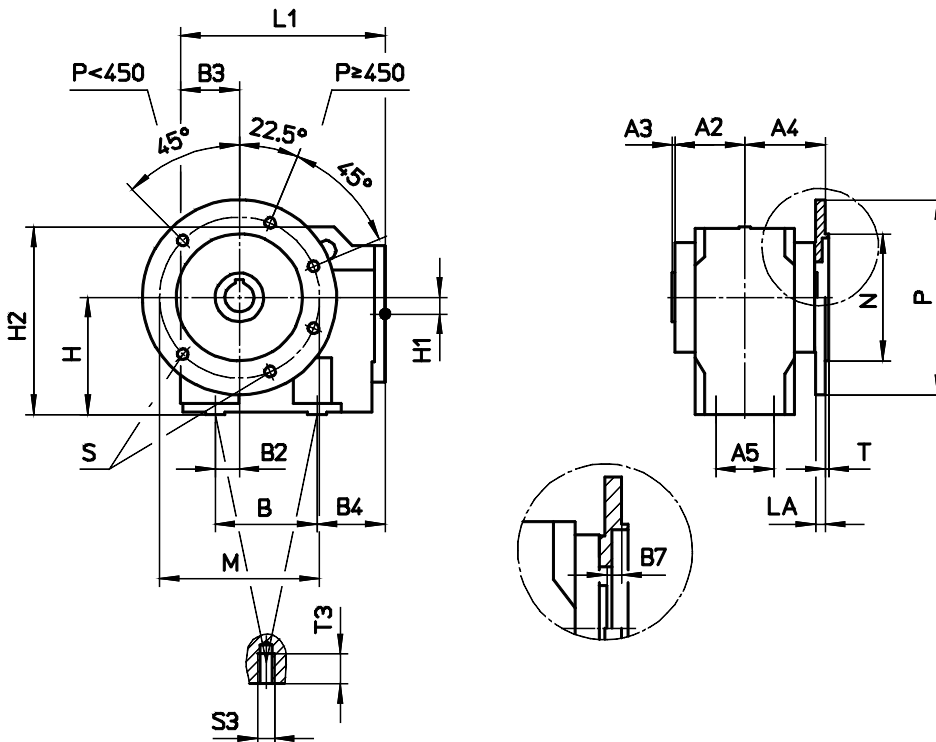
	A1	A2	A3	A5	B	B2	B3	B4	H	H1	H2	L1	M1	P1	S2	T2	S3	T3
K2	116	58	2	50	90	25	61	62	100	12	163.5	188	87	99	M6	9	M8	12
K3	144	72	3	60	105	25	70.5	70	120	17	192	220.5	96	112	M8	12	M10	15
K4	168	84	3.5	70	125	25	85	76	145	18	230	261	106	122	M8	12	M12	18
K5	202	101	4	80	160	40	106.5	92	180	23.5	283.5	318.5	130	150	M10	15	M16	24
K6	230	115	5	95	200	49	126	89	220	29	344.5	366	154	178	M12	18	M16	24
K7	288	144	6	125	240	75	146	115	250	31	398.5	426	182	214	M16	24	M20	30
K8	338	169	6	150	270	70	171.5	130	290	39	463	501.5	220	260	M20	30	M24	36
K9	398	199	6	160	320	90	193.5	148	340	42	537	571.5	258	306	M24	36	M30	45



E - Flange mounted version + foot area

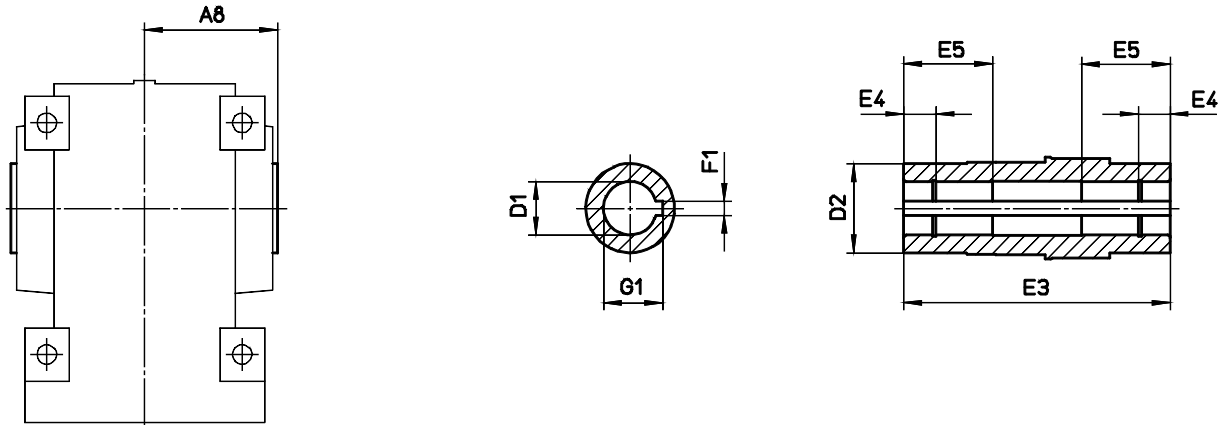


	A2	A3	A4	A5	B	B1	B2	B7	H	H1	H2	L	LA	M	N	P	T	S	S1
K0	51	1.5	71	80	60	50	30	18.5	50	23.7	108.5	165	8	Ø100	Ø80 j6	Ø120	3	Ø6.6	Ø6.6
K1	58	2	80	90	70	63	35	20	63	26	128	198	9	Ø130	Ø110 j6	Ø160	3.5	Ø9	Ø9



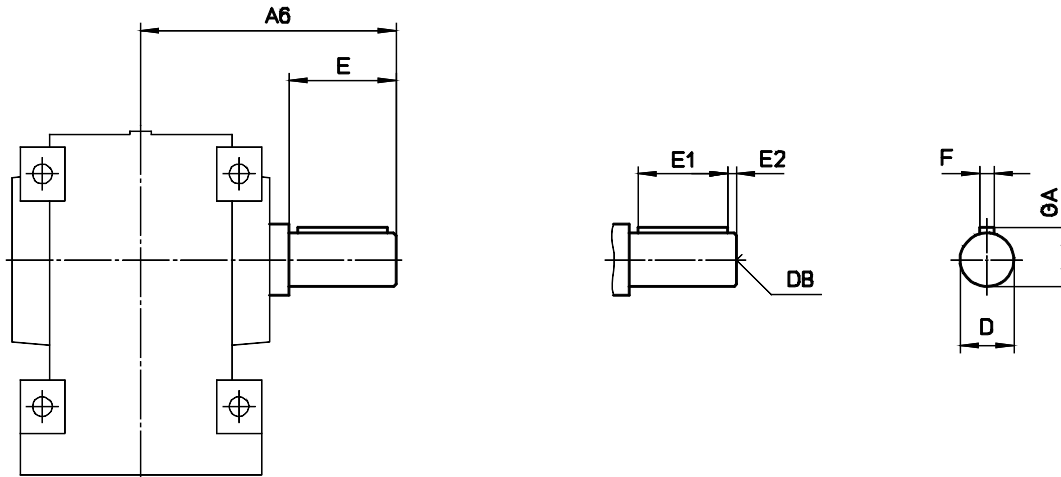
	A2	A3	A4	A5	B	B2	B3	B4	B7	H	H1	H2	L1	LA	M	N	P	T	T3	S	S3
K2	58	2	70	50	90	25	61	62	10	100	12	163.5	188	9	Ø130	Ø110 j6	Ø160	3.5	12	Ø9	M8
K3	72	3	83	60	105	25	70.5	70	8	120	17	192	220.5	10	Ø165	Ø130 j6	Ø200	3.5	15	Ø11	M10
K4	84	3.5	95	70	125	25	85	76	7.5	145	18	230	261	10	Ø165	Ø130 j6	Ø200	3.5	18	Ø11	M12
K5	101	4	113	80	160	40	106.5	92	8	180	23.5	283.5	318.5	11	Ø215	Ø180 j6	Ø250	4	24	Ø13.5	M16
K6	115	5	128	95	200	49	126	89	8	220	29	344.5	366	12	Ø265	Ø230 j6	Ø300	4	24	Ø13.5	M16
K7	144	6	160	125	240	75	146	115	10	250	31	398.5	426	13	Ø300	Ø250 h6	Ø350	5	30	Ø17.5	M20
K8	169	6	190	150	270	70	171.5	130	15	290	39	463	501.5	16	Ø400	Ø350 h6	Ø450	5	36	Ø17.5	M24
K9	199	6	222	160	320	90	193.5	148	17	340	42	537	571.5	16	Ø400	Ø350 h6	Ø450	5	45	Ø17.5	M30

## Hollow shaft with keyway



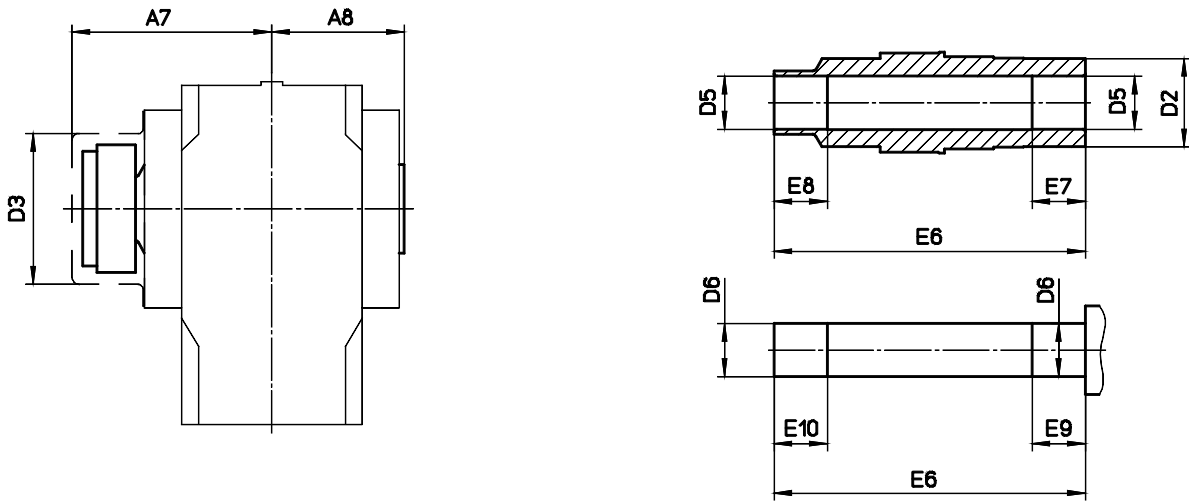
	A8	D1	D2	E3	E4	E5	F1	G1
K0	52.5	Ø20H7	30	105	14	-	6	22.8
K1	60	Ø25H7	40	120	15	-	8	28.3
K2	60	Ø25H7	45	120	15	-	8	28.3
K3	75	Ø30H7 Ø35H7	50	150	18	-	8 10	33.3 38.3
K4	87.5	Ø40H7	55	175	20	-	12	43.3
K5	105	Ø50H7	70	210	25	70	14	53.8
K6	120	Ø60H7	85	240	30	80	18	64.4
K7	150	Ø70H7	100	300	30	100	20	74.9
K8	175	Ø90H7	120	350	35	120	25	95.4
K9	205	Ø100H7	140	410	35	140	28	106.4

## V - Output shaft with key



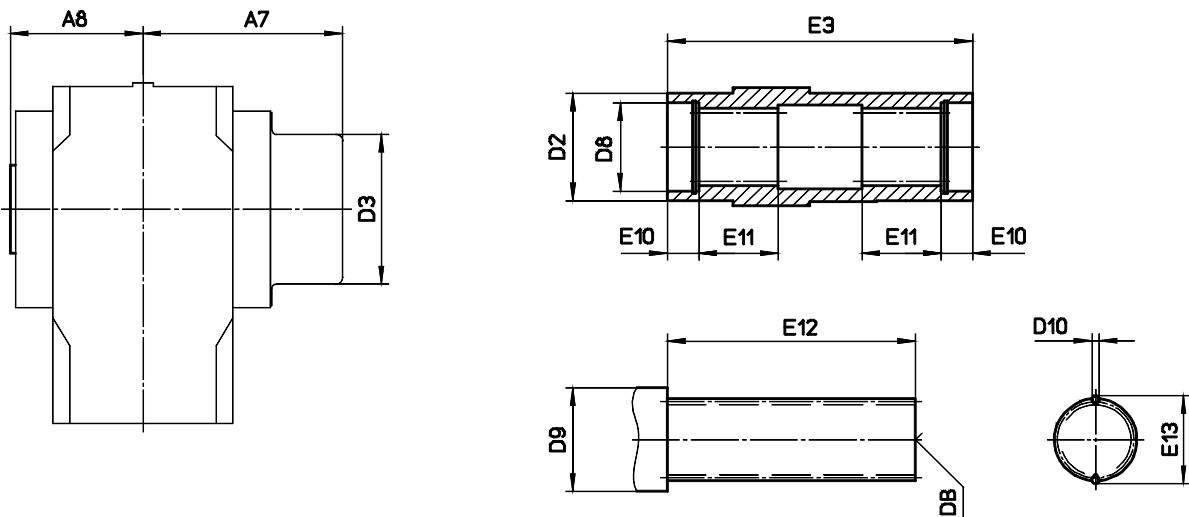
	A6	D	DB	E	E1	E2	F	GA
K02D	92.5	Ø20k6	M6	40	32	4	6	22.5
K02E	111							
K12D	110	Ø25k6	M10	50	40	5	8	28
K12E	130							
K2	120	Ø25k6	M10	50	40	5	8	28
K3	143	Ø30k6	M10	60	50	5	8	33
K4	153	Ø35k6	M12	70	60	5	10	38
	175							
K5	213	Ø50k6	M16	100	80	10	14	53.5
K6	248	Ø60m6	M20	120	100	10	18	64
K7	300	Ø75m6	M20	140	125	7.5	20	79.5
K8	360	Ø90m6	M24	170	140	15	25	95
K9	432	Ø110m6	M24	210	180	15	28	116

## S - Hollow shaft with shrink disc



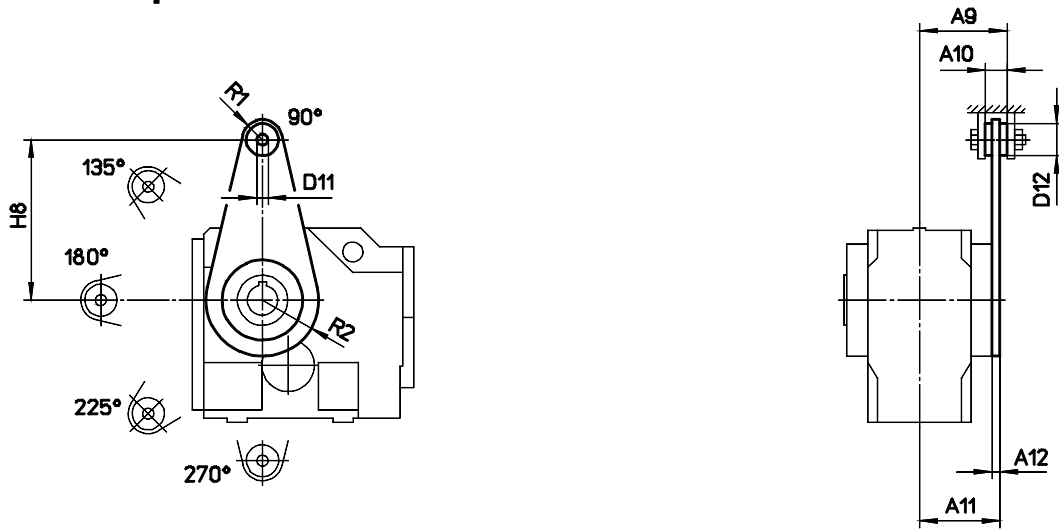
	A7	A8	D2	D3	D5	D6	E6	E7	E8	E9	E10
<b>K0</b>	86	52.5	30	64	Ø20H7	Ø20h6	126	25	25	27	27
<b>K1</b>	98	60	40	77	Ø25H7	Ø25h6	143	25	25	27	27
<b>K2</b>	98	60	45	77	Ø25H7	Ø25h6	143	25	25	27	27
<b>K3</b>	113	75	50	86	Ø30H7 Ø35H7	Ø30h6 Ø35h6	176	20	30	22	32
<b>K4</b>	127	87.5	55	96	Ø40H7	Ø40h6	202	20	40	22	42
<b>K5</b>	150	105	70	117	Ø50H7	Ø50h6	242	30	50	32	52
<b>K6</b>	172	120	85	148	Ø60H7	Ø60h6	274	40	60	42	62
<b>K7</b>	209	150	100	180	Ø70H7	Ø70h6	343	50	70	52	72
<b>K8</b>	247	175	120	225	Ø95H7	Ø95h6	402	60	80	62	82
<b>K9</b>	288	205	140	242	Ø110H7	Ø110h6	473	70	100	72	102

## Z - Splined hollow shaft



	DIN5480	A7	A8	D2	D3	D8	D9	D10	E3	E10	E11	E12	E13	DB
<b>K2</b>	30x1.25x30x22	97	60	45	77	35	40	2.75	120	18	25	88	33.05 -0.04	M10
<b>K3</b>	35x2x30x16	113	75	50	86	40	46	4	150	18	32	118	38.94 -0.04	M12
<b>K4</b>	40x2x30x18	127	87.5	55	96	42	50	4.5	175	23	42	140	45.08 -0.04	M16
<b>K5</b>	50x2x30x24	150	105	70	117	52	62	4	210	23	52	174	54.16 -0.05	M16
<b>K6</b>	65x2x30x31	172	120	85	148	70	82	4	240	25	62	195	68.99 -0.06	M20
<b>K7</b>	70x2x30x34	209	150	100	180	72	85	4	300	25	72	255	74.18 -0.06	M20
<b>K8</b>	85x3x30x27	247	175	120	225	90	105	6	350	27	88	298	91.02 -0.06	M20

## T1 - Torque arm



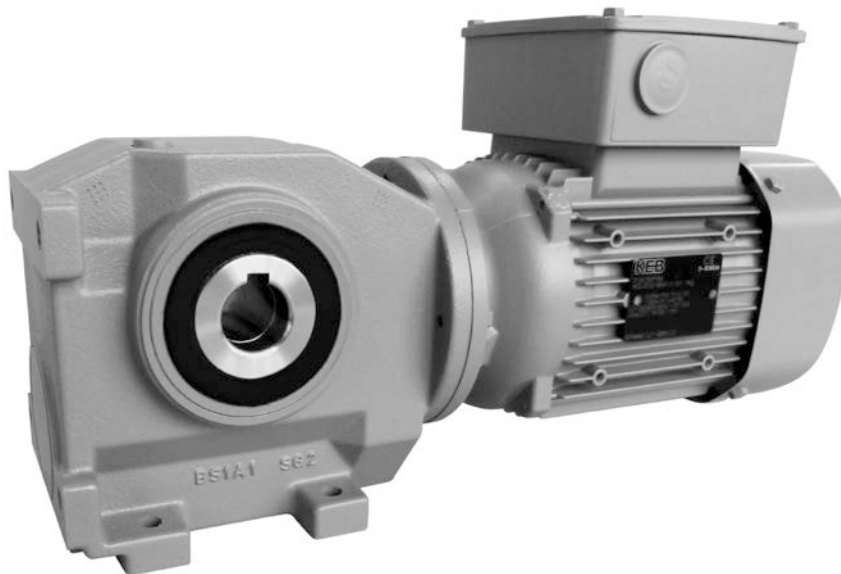
	A9	A10	A11	A12	D11	D12	H8	R1	R2
<b>K0</b>	60.5	15	55	4	11	32	100	20	43
<b>K1</b>	68.5	15	64	6	11	32	130	20	49.5
<b>K2</b>	68.5	15	64	6	11	32	130	20	49.5
<b>K3</b>	87	22	80	8	11	32	160	20	56
<b>K4</b>	99	22	92	8	11	32	200	23	61
<b>K5</b>	121	32	109	8	17	40	250	30	75
<b>K6</b>	155.5	66	130	15	16	32	300	30	89
<b>K7</b>	202	96	164	20	24	42	350	36	107
<b>K8</b>	229.5	96	194	25	24	42	450	36	130
<b>K9</b>	281.5	135	229	30	38	64	550	56	153

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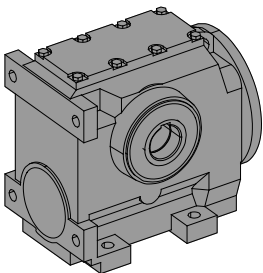


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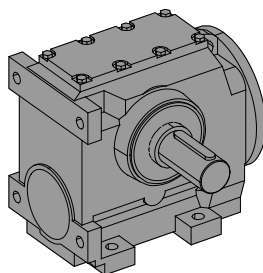
## Helical worm gear units S



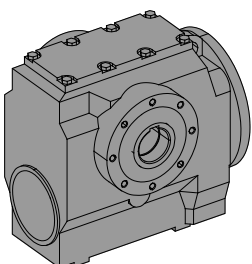
### Type of construction



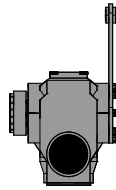
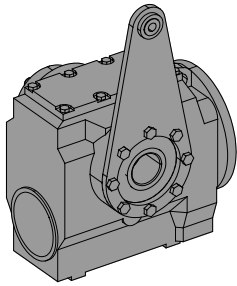
Foot mounted version  
Hollow shaft with keyway  
Example: S32A



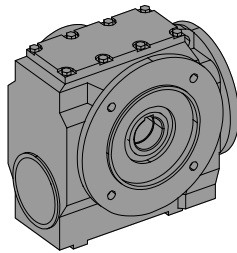
Foot mounted version  
Output shaft with key  
Example: S12AV



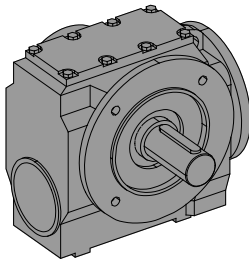
Shaft mounted version  
Hollow shaft with keyway  
Example: S22B



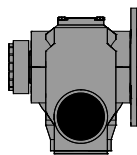
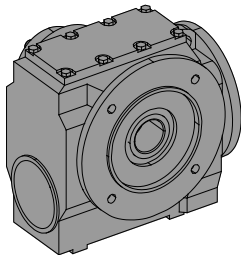
Shaft mounted version  
Hollow shaft with shrink disc  
Torque arm T1  
Example: S22**BT1S**



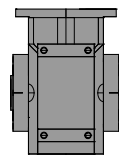
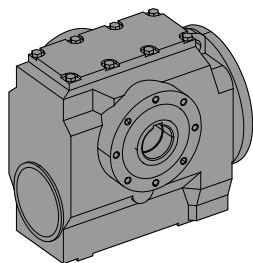
Flange mounted version  
Hollow shaft with keyway  
Example: S22**C**



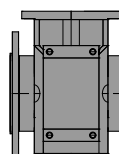
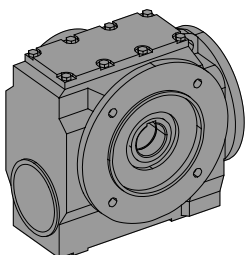
Flange mounted version  
Output shaft with key  
Example: S12**CV**



Flange mounted version  
Hollow shaft with shrink disc  
Example: S32**CS**



Shaft mounted version + foot area  
Hollow shaft with keyway  
Example: S22**D**



Flange mounted version + foot area  
Hollow shaft with keyway  
Example: S32**E**

## Selection table - Gear units

### Selection table - Gear units

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S02</b>			
189.00	7.4	58	0.10
159.35	8.8	58	0.11
135.95	10	57	0.12
117.00	12	56	0.14
101.35	14	55	0.15
88.20	16	53	0.16
77.00	18	52	0.18
69.00	20	69	0.21
58.18	24	67	0.24
49.63	28	66	0.27
42.71	33	64	0.30
37.00	38	62	0.34
32.20	43	60	0.37
28.11	50	58	0.41
25.00	56	63	0.44
21.08	66	61	0.50
17.98	78	59	0.56
15.48	90	57	0.63
13.41	104	55	0.70
12.50	112	67	0.87
11.67	120	53	0.77
10.54	133	65	1.00
10.19	137	51	0.85
8.99	156	63	1.13
7.74	181	61	1.25
6.70	209	59	1.30
5.83	240	57	1.30
5.09	275	55	1.30

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>S12G03</b>			
9007.5	0.16	188	<0.05
7609.6	0.18	188	<0.05
6505.9	0.22	188	<0.05
5612.6	0.25	188	<0.05
4874.5	0.29	188	<0.05
4254.6	0.33	188	<0.05
3672.3	0.38	188	<0.05
3168.0	0.44	188	<0.05
2751.5	0.51	187	<0.05
2401.5	0.58	187	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>S12G02</b>			
2108.1	0.66	187	<0.05
1781.0	0.79	187	<0.05
1522.7	0.92	186	<0.05
1313.6	1.1	186	<0.05
1140.8	1.2	186	0.05
995.75	1.4	185	0.06
872.16	1.6	185	0.07
749.62	1.9	184	0.08
646.68	2.2	184	0.09
561.65	2.5	183	0.10
490.22	2.9	182	0.11
429.37	3.3	181	0.12
375.31	3.7	180	0.14
330.65	4.2	179	0.15
293.14	4.8	178	0.17
261.18	5.4	177	0.18
234.46	6.0	176	0.20
204.64	6.8	174	0.22
179.24	7.8	172	0.25

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S12</b>			
168.00	8.3	171	0.26
143.53	9.8	168	0.29
124.21	11	165	0.32
108.57	13	162	0.35
95.65	15	160	0.39
84.80	17	157	0.42
75.56	19	153	0.46
67.83	21	150	0.49
60.90	23	166	0.52
59.20	24	146	0.54
52.03	27	163	0.59
51.85	27	141	0.59
45.03	31	160	0.66
39.36	36	156	0.73
34.67	40	153	0.80
30.74	46	150	0.88
27.39	51	146	0.96
24.59	57	143	1.04
22.68	62	152	1.12
21.46	65	138	1.14
19.38	72	149	1.27
18.80	74	133	1.25
16.77	83	146	1.43
14.66	96	142	1.58
12.91	108	139	1.75
11.45	122	136	1.92
10.20	137	132	2.09
9.16	153	129	2.26
7.99	175	124	2.48
7.00	200	120	2.60

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>S22G13</b>			
13901	0.10	340	<0.05
11784	0.12	340	<0.05
10114	0.14	340	<0.05
8761.0	0.16	340	<0.05
7643.7	0.18	340	<0.05
6705.1	0.21	340	<0.05
5905.6	0.24	340	<0.05
5193.0	0.27	340	<0.05
4456.7	0.31	340	<0.05
3860.7	0.36	340	<0.05
3368.3	0.42	340	<0.05

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S22G12</b>			
2998.2	0.47	340	<0.05
2561.5	0.55	340	<0.05
2216.7	0.63	340	<0.05
1937.6	0.72	340	0.05
1707.1	0.82	340	0.06
1513.4	0.93	335	0.07
1348.4	1.0	335	0.07
1210.5	1.2	335	0.08
1056.5	1.3	335	0.09
925.37	1.5	335	0.10
850.54	1.6	335	0.11
749.33	1.9	335	0.12
664.32	2.1	330	0.14
591.90	2.4	330	0.15
531.34	2.6	330	0.17
463.77	3.0	330	0.19
406.20	3.4	325	0.21
362.38	3.9	325	0.23
325.05	4.3	325	0.25
295.42	4.7	320	0.27
260.46	5.4	320	0.30
230.68	6.1	315	0.34
206.44	6.8	315	0.37
179.67	7.8	310	0.41

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>S22</b>			
207.20	6.8	315	0.37
177.88	7.9	310	0.41
154.74	9.0	305	0.46
136.00	10	300	0.50
120.52	12	295	0.54
107.52	13	295	0.59
96.44	15	290	0.64
87.65	16	285	0.69
77.28	18	275	0.75
71.53	20	305	0.81
68.44	20	270	0.82
61.41	23	295	0.91
61.25	23	265	0.88
53.42	26	290	1.01
53.31	26	255	0.97
46.95	30	285	1.11
41.61	34	280	1.20
37.12	38	275	1.31
33.30	42	265	1.42
30.26	46	260	1.51
26.68	52	250	1.65
26.64	53	295	1.85
23.63	59	245	1.79
22.87	61	290	2.10
21.15	66	235	1.93
19.89	70	285	2.34
18.40	76	225	2.12
17.49	80	280	2.59
15.50	90	270	2.83
13.82	101	265	3.09
12.40	113	260	3.35
11.27	124	255	3.59
9.94	141	245	3.91
8.80	159	235	4.26
7.88	178	230	4.58
6.85	204	220	5.0

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S32G13</b>			
18745	0.075	665	<0.05
15891	0.088	665	<0.05
13638	0.10	665	<0.05
11814	0.12	665	<0.05
10307	0.14	665	<0.05
9041.7	0.15	665	<0.05
7963.6	0.18	665	<0.05
7002.7	0.20	665	<0.05
6009.8	0.23	665	<0.05
5206.1	0.27	665	<0.05
4542.1	0.31	660	<0.05

i	n2 [1/min]	T2max [Nm]	P1max [kW]
<b>S32G12</b>			
4043.0	0.35	660	<0.05
3454.1	0.41	660	0.06
2989.2	0.47	660	0.07
2612.8	0.54	660	0.08
2301.9	0.61	660	0.09
2040.8	0.69	660	0.10
1818.3	0.77	655	0.11
1632.3	0.86	655	0.12
1424.7	0.98	655	0.13
1247.9	1.1	655	0.15
1146.9	1.2	650	0.16
1010.5	1.4	650	0.18
895.82	1.6	650	0.20
798.16	1.8	645	0.22
716.51	2.0	645	0.25
625.38	2.2	640	0.28
547.76	2.6	635	0.31
492.61	2.8	635	0.33
445.64	3.1	630	0.36
406.20	3.4	625	0.39
362.38	3.9	625	0.42
325.05	4.3	620	0.47
294.91	4.7	615	0.51
261.33	5.4	610	0.56
230.03	6.1	600	0.62



i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S32</b>			
271.60	5.2	610	0.54
234.71	6.0	605	0.61
205.58	6.8	595	0.68
182.00	7.7	585	0.74
162.52	8.6	580	0.80
146.16	9.6	570	0.86
132.22	11	560	0.92
120.52	12	550	0.98
107.52	13	540	1.06
96.44	15	530	1.14
87.50	16	515	1.22
77.54	18	500	1.32
68.25	21	485	1.43
59.77	23	465	1.55
52.50	27	450	1.69
52.21	27	635	2.12
46.22	30	625	2.33
41.28	34	615	2.54
37.12	38	600	2.75
33.58	42	590	2.95
30.61	46	575	3.14
27.31	51	560	3.42
24.49	57	545	3.70
22.22	63	535	3.96
19.69	71	515	4.29
17.33	81	495	4.68
15.18	92	470	5.1
13.33	105	450	5.5

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S42G23</b>			
20360	0.069	1530	<0.05
17395	0.080	1530	<0.05
15053	0.093	1530	<0.05
13158	0.11	1530	<0.05
11592	0.12	1530	<0.05
10277	0.14	1530	<0.05
9221.9	0.15	1530	0.05
8060.8	0.17	1530	0.06
7101.6	0.20	1530	0.07
6295.9	0.22	1530	0.08
5512.1	0.25	1530	0.09
4856.2	0.29	1520	0.10
4305.3	0.33	1520	0.11

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S42G22</b>			
3878.1	0.36	1520	0.12
3329.4	0.42	1520	0.14
2896.2	0.48	1520	0.16
2545.5	0.55	1510	0.18
2255.8	0.62	1510	0.20
2012.4	0.70	1510	0.22
1805.1	0.78	1510	0.24
1640.6	0.85	1500	0.27
1446.4	0.97	1500	0.30
1281.1	1.1	1500	0.33
1156.1	1.2	1490	0.37
1064.2	1.3	1490	0.39
934.35	1.5	1480	0.44
838.10	1.7	1470	0.48
761.70	1.8	1470	0.52
671.56	2.1	1460	0.58
594.78	2.4	1450	0.64
536.78	2.6	1440	0.69
494.08	2.8	1430	0.73
441.60	3.2	1420	0.79
392.13	3.6	1410	0.86
384.81	3.6	1410	0.88
347.49	4.0	1390	0.96
343.94	4.1	1390	0.96
309.22	4.5	1380	1.05
305.41	4.6	1380	1.06
270.64	5.2	1360	1.17
264.91	5.3	1360	1.19
240.84	5.8	1350	1.29

i	n2 [1/min] n1=1400 1/min	T2max [Nm]	P1max [kW]
<b>S42</b>			
247.58	5.7	1350	1.26
220.00	6.4	1330	1.38
197.22	7.1	1310	1.49
178.08	7.9	1290	1.60
161.78	8.7	1270	1.71
147.91	9.5	1250	1.81
132.72	11	1220	1.93
119.78	12	1180	2.05
110.25	13	1160	2.16
98.54	14	1130	2.33
87.50	16	1090	2.51
77.54	18	1050	2.68
69.00	20	1000	2.84
59.37	24	1260	3.59
59.11	24	920	3.00
53.22	26	1390	4.38
52.14	27	915	3.37
48.05	29	1360	4.74
43.65	32	1320	5.0
39.91	35	1250	5.2
35.81	39	1250	5.7
32.32	43	1200	6.1
29.75	47	1140	6.2
26.59	53	1140	7.0
23.61	59	1080	7.4
20.92	67	1010	7.5
18.62	75	950	7.5
15.95	88	885	7.5
14.07	100	820	7.5

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## Selection table - Gear units

S02

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
189.00	1/63	18	52	0.18	0.55	15	54	0.16	0.53	9.0	57	0.11	0.49	7.4	58	0.10	0.47
159.35	1/63	21	50	0.20	0.57	18	52	0.17	0.55	11	57	0.13	0.50	8.8	58	0.11	0.49
135.95	1/63	25	48	0.22	0.58	21	51	0.19	0.56	13	56	0.14	0.51	10	57	0.12	0.50
117.00	1/63	29	46	0.24	0.59	24	49	0.21	0.58	15	54	0.16	0.53	12	56	0.14	0.51
101.35	1/63	34	44	0.26	0.60	28	47	0.23	0.59	17	53	0.17	0.54	14	55	0.15	0.52
88.20	1/63	39	42	0.28	0.61	32	45	0.25	0.60	19	51	0.19	0.56	16	53	0.16	0.54
77.00	1/63	44	40	0.30	0.62	36	43	0.27	0.61	22	50	0.20	0.57	18	52	0.18	0.55
69.00	1/23	49	58	0.40	0.75	41	61	0.35	0.73	25	67	0.25	0.70	20	69	0.21	0.68
58.18	1/23	58	56	0.45	0.76	48	59	0.40	0.75	29	65	0.28	0.71	24	67	0.24	0.70
49.63	1/23	69	53	0.49	0.77	56	56	0.44	0.76	34	63	0.31	0.72	28	66	0.27	0.71
42.71	1/23	80	51	0.54	0.78	66	54	0.48	0.77	40	61	0.35	0.73	33	64	0.30	0.72
37.00	1/23	92	48	0.58	0.79	76	52	0.52	0.78	46	59	0.38	0.74	38	62	0.34	0.73
32.20	1/23	106	46	0.63	0.79	87	49	0.56	0.79	53	57	0.42	0.75	43	60	0.37	0.74
28.11	1/23	121	43	0.68	0.80	100	47	0.61	0.79	60	55	0.46	0.76	50	58	0.41	0.75
25.00	3/25	136	51	0.75	0.87	112	54	0.73	0.87	68	61	0.51	0.85	56	63	0.44	0.83
21.08	3/25	161	49	0.75	0.88	133	52	0.75	0.87	81	59	0.58	0.85	66	61	0.50	0.84
17.98	3/25	189	46	0.75	0.88	156	49	0.75	0.88	95	56	0.65	0.86	78	59	0.56	0.85
15.48	3/25	220	44	0.75	0.89	181	47	0.75	0.88	110	54	0.72	0.87	90	57	0.63	0.86
13.41	3/25	254	41	0.75	0.89	209	45	0.75	0.88	127	52	0.75	0.87	104	55	0.70	0.86
12.50	6/25	272	55	0.75	0.92	224	58	0.75	0.92	136	65	0.75	0.91	112	67	0.75	0.90
11.67	3/25	291	39	0.75	0.89	240	42	0.75	0.89	146	50	0.75	0.87	120	53	0.75	0.87
10.54	6/25	323	52	0.75	0.93	266	56	0.75	0.92	161	63	0.75	0.91	133	65	0.75	0.90
10.19	3/25	334	37	0.75	0.90	275	40	0.75	0.89	167	48	0.75	0.88	137	51	0.75	0.87
8.99	6/25	378	49	0.75	0.93	311	53	0.75	0.93	189	60	0.75	0.92	156	63	0.75	0.91
7.74	6/25	439	47	0.75	0.94	362	50	0.75	0.93	220	58	0.75	0.92	181	61	0.75	0.92
6.70	6/25	507	44	0.75	0.94	418	48	0.75	0.93	254	56	0.75	0.92	209	59	0.75	0.92
5.83	6/25	583	42	0.75	0.94	480	45	0.75	0.94	291	54	0.75	0.92	240	57	0.75	0.92
5.09	6/25	668	39	0.75	0.94	550	43	0.75	0.94	334	52	0.75	0.93	275	55	0.75	0.92

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S02

i	is	n1=900 1/min				n1=700 1/min				n1=500 1/min				n1=10 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η
189.00	1/63	4.8	61	0.07	0.43	3.7	62	0.06	0.41	2.6	63	<0.05	0.39	0.053	65	<0.05	0.32
159.35	1/63	5.6	60	0.08	0.44	4.4	61	0.07	0.42	3.1	62	0.05	0.40	0.063	65	<0.05	0.32
135.95	1/63	6.6	59	0.09	0.46	5.1	61	0.08	0.43	3.7	62	0.06	0.41	0.074	65	<0.05	0.32
117.00	1/63	7.7	58	0.10	0.48	6.0	60	0.08	0.45	4.3	61	0.07	0.42	0.085	65	<0.05	0.32
101.35	1/63	8.9	58	0.11	0.49	6.9	59	0.09	0.46	4.9	61	0.07	0.43	0.099	65	<0.05	0.32
88.20	1/63	10	57	0.12	0.50	7.9	58	0.10	0.48	5.7	60	0.08	0.44	0.11	65	<0.05	0.32
77.00	1/63	12	56	0.14	0.51	9.1	57	0.11	0.49	6.5	59	0.09	0.46	0.13	65	<0.05	0.32
69.00	1/23	13	72	0.15	0.64	10	73	0.13	0.62	7.2	75	0.09	0.60	0.14	78	<0.05	0.51
58.18	1/23	15	71	0.18	0.65	12	72	0.14	0.63	8.6	74	0.11	0.61	0.17	78	<0.05	0.51
49.63	1/23	18	70	0.20	0.67	14	72	0.16	0.64	10	73	0.12	0.62	0.20	78	<0.05	0.51
42.71	1/23	21	68	0.22	0.69	16	70	0.18	0.66	12	73	0.14	0.63	0.23	78	<0.05	0.51
37.00	1/23	24	67	0.24	0.70	19	69	0.20	0.67	14	72	0.16	0.64	0.27	78	<0.05	0.51
32.20	1/23	28	66	0.27	0.71	22	68	0.22	0.69	16	71	0.18	0.65	0.31	78	<0.05	0.51
28.11	1/23	32	64	0.30	0.72	25	67	0.25	0.70	18	70	0.20	0.67	0.36	78	<0.05	0.51
25.00	3/25	36	66	0.31	0.80	28	67	0.25	0.79	20	69	0.19	0.77	0.40	72	<0.05	0.69
21.08	3/25	43	65	0.36	0.81	33	66	0.29	0.80	24	68	0.22	0.78	0.47	72	<0.05	0.69
17.98	3/25	50	64	0.41	0.82	39	66	0.33	0.80	28	67	0.25	0.79	0.56	72	<0.05	0.69
15.48	3/25	58	62	0.45	0.84	45	64	0.37	0.82	32	67	0.28	0.79	0.65	72	<0.05	0.69
13.41	3/25	67	61	0.51	0.84	52	63	0.42	0.83	37	66	0.32	0.80	0.75	72	<0.05	0.69
12.50	6/25	72	71	0.61	0.88	56	72	0.49	0.87	40	74	0.36	0.86	0.80	77	<0.05	0.80
11.67	3/25	77	59	0.56	0.85	60	62	0.46	0.84	43	65	0.36	0.81	0.86	72	<0.05	0.69
10.54	6/25	85	69	0.70	0.88	66	71	0.57	0.87	47	73	0.42	0.87	0.95	77	<0.05	0.80
10.19	3/25	88	57	0.62	0.86	69	61	0.52	0.85	49	64	0.40	0.82	0.98	72	<0.05	0.69
8.99	6/25	100	68	0.75	0.89	78	70	0.65	0.88	56	72	0.48	0.87	1.1	77	<0.05	0.80
7.74	6/25	116	66	0.75	0.90	90	69	0.74	0.89	65	71	0.55	0.87	1.3	77	<0.05	0.80
6.70	6/25	134	65	0.75	0.90	104	67	0.75	0.89	75	70	0.63	0.88	1.5	77	<0.05	0.80
5.83	6/25	154	63	0.75	0.91	120	66	0.75	0.90	86	69	0.70	0.88	1.7	77	<0.05	0.80
5.09	6/25	177	61	0.75	0.92	137	65	0.75	0.91	98	68	0.75	0.89	2.0	77	<0.05	0.80

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## Selection table - Gear units

# S12

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
168.00	1/40	20	151	0.49	0.66	17	156	0.43	0.64	10	168	0.30	0.59	8.3	171	0.26	0.57
143.53	1/40	24	146	0.54	0.67	20	152	0.47	0.65	12	164	0.33	0.61	9.8	168	0.29	0.59
124.21	1/40	27	141	0.59	0.68	23	148	0.52	0.67	14	161	0.37	0.63	11	165	0.32	0.61
108.57	1/40	31	136	0.65	0.69	26	143	0.57	0.68	16	158	0.41	0.64	13	162	0.35	0.62
95.65	1/40	36	131	0.70	0.70	29	139	0.62	0.69	18	155	0.45	0.65	15	160	0.39	0.63
84.80	1/40	40	126	0.75	0.70	33	134	0.67	0.69	20	151	0.48	0.66	17	157	0.42	0.64
75.56	1/40	45	121	0.80	0.71	37	129	0.71	0.70	23	148	0.52	0.67	19	153	0.46	0.65
67.83	1/40	50	116	0.84	0.72	41	124	0.76	0.71	25	144	0.56	0.68	21	150	0.49	0.66
60.90	2/29	56	144	1.02	0.82	46	150	0.89	0.81	28	162	0.61	0.78	23	166	0.52	0.76
59.20	1/40	57	110	0.91	0.73	47	119	0.82	0.72	29	139	0.61	0.69	24	146	0.54	0.67
52.03	2/29	65	138	1.14	0.83	54	145	0.99	0.82	33	158	0.68	0.79	27	163	0.59	0.77
51.85	1/40	66	104	0.98	0.73	54	113	0.88	0.72	33	134	0.66	0.69	27	141	0.59	0.68
45.03	2/29	76	133	1.26	0.83	62	140	1.10	0.83	38	155	0.76	0.80	31	160	0.66	0.79
39.36	2/29	86	128	1.38	0.84	71	135	1.21	0.83	43	151	0.85	0.81	36	156	0.73	0.80
34.67	2/29	98	123	1.49	0.85	81	131	1.32	0.84	49	148	0.93	0.82	40	153	0.80	0.81
30.74	2/29	111	117	1.50	0.85	91	126	1.42	0.84	55	144	1.01	0.82	46	150	0.88	0.81
27.39	2/29	124	112	1.50	0.86	102	121	1.50	0.85	62	140	1.10	0.83	51	146	0.96	0.82
24.59	2/29	138	107	1.50	0.86	114	116	1.50	0.85	69	136	1.19	0.83	57	143	1.04	0.82
22.68	5/27	150	130	1.50	0.91	123	136	1.50	0.91	75	148	1.31	0.89	62	152	1.12	0.88
21.46	2/29	158	101	1.50	0.86	130	110	1.50	0.86	79	131	1.30	0.84	65	138	1.14	0.83
19.38	5/27	175	124	1.50	0.92	145	131	1.50	0.91	88	144	1.48	0.90	72	149	1.27	0.88
18.80	2/29	181	95	1.50	0.87	149	104	1.50	0.86	90	126	1.42	0.84	74	133	1.25	0.83
16.77	5/27	203	119	1.50	0.92	167	126	1.50	0.92	101	141	1.50	0.90	83	146	1.43	0.89
14.66	5/27	232	114	1.50	0.93	191	121	1.50	0.92	116	137	1.50	0.91	96	142	1.50	0.90
12.91	5/27	263	109	1.50	0.93	217	117	1.50	0.92	132	134	1.50	0.91	108	139	1.50	0.90
11.45	5/27	297	105	1.50	0.93	245	112	1.50	0.93	148	130	1.50	0.91	122	136	1.50	0.91
10.20	5/27	333	100	1.50	0.93	275	108	1.50	0.93	167	126	1.50	0.92	137	132	1.50	0.91
9.16	5/27	371	95	1.50	0.93	306	103	1.50	0.93	186	122	1.50	0.92	153	129	1.50	0.91
7.99	5/27	425	90	1.50	0.93	350	98	1.50	0.93	213	118	1.50	0.92	175	124	1.50	0.92
7.00	5/27	486	84	1.50	0.94	400	92	1.50	0.93	243	113	1.50	0.93	200	120	1.50	0.92

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# S12

i	is	n1=900 1/min				n1=700 1/min				n1=500 1/min				n1=10 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η
168.00	1/40	5.4	177	0.18	0.54	4.2	179	0.15	0.52	3.0	182	0.11	0.50	0.060	188	<0.05	0.42
143.53	1/40	6.3	175	0.21	0.55	4.9	178	0.17	0.53	3.5	181	0.13	0.51	0.070	188	<0.05	0.42
124.21	1/40	7.2	173	0.23	0.56	5.6	176	0.19	0.54	4.0	179	0.14	0.52	0.081	188	<0.05	0.42
108.57	1/40	8.3	171	0.26	0.57	6.4	175	0.21	0.55	4.6	178	0.16	0.53	0.092	188	<0.05	0.42
95.65	1/40	9.4	169	0.28	0.58	7.3	173	0.24	0.56	5.2	177	0.18	0.54	0.10	188	<0.05	0.42
84.80	1/40	11	167	0.31	0.60	8.3	171	0.26	0.57	5.9	176	0.20	0.54	0.12	188	<0.05	0.42
75.56	1/40	12	164	0.33	0.61	9.3	169	0.28	0.58	6.6	174	0.22	0.55	0.13	188	<0.05	0.42
67.83	1/40	13	162	0.36	0.62	10	167	0.30	0.60	7.4	173	0.24	0.56	0.15	188	<0.05	0.42
60.90	2/29	15	173	0.36	0.73	11	175	0.29	0.72	8.2	178	0.22	0.70	0.16	185	<0.05	0.63
59.20	1/40	15	159	0.40	0.63	12	164	0.33	0.61	8.4	171	0.26	0.57	0.17	188	<0.05	0.42
52.03	2/29	17	171	0.42	0.74	13	174	0.33	0.73	9.6	177	0.25	0.71	0.19	185	<0.05	0.63
51.85	1/40	17	155	0.44	0.64	14	161	0.37	0.62	9.6	169	0.29	0.59	0.19	188	<0.05	0.42
45.03	2/29	20	168	0.47	0.75	16	172	0.38	0.74	11	175	0.28	0.72	0.22	185	<0.05	0.63
39.36	2/29	23	166	0.52	0.76	18	170	0.43	0.74	13	174	0.32	0.73	0.25	185	<0.05	0.63
34.67	2/29	26	164	0.58	0.77	20	168	0.47	0.75	14	173	0.36	0.73	0.29	185	<0.05	0.63
30.74	2/29	29	161	0.63	0.78	23	166	0.52	0.76	16	171	0.39	0.74	0.33	185	<0.05	0.63
27.39	2/29	33	158	0.69	0.79	26	164	0.57	0.77	18	170	0.43	0.75	0.37	185	<0.05	0.63
24.59	2/29	37	156	0.74	0.80	28	162	0.62	0.78	20	168	0.48	0.75	0.41	185	<0.05	0.63
22.68	5/27	40	159	0.77	0.86	31	161	0.61	0.85	22	164	0.45	0.84	0.44	171	<0.05	0.79
21.46	2/29	42	152	0.83	0.81	33	158	0.68	0.79	23	166	0.53	0.76	0.47	185	<0.05	0.63
19.38	5/27	46	157	0.88	0.86	36	160	0.70	0.86	26	163	0.52	0.85	0.52	171	<0.05	0.79
18.80	2/29	48	148	0.91	0.82	37	155	0.75	0.80	27	163	0.59	0.77	0.53	185	<0.05	0.63
16.77	5/27	54	154	1.00	0.87	42	158	0.80	0.86	30	161	0.59	0.85	0.60	171	<0.05	0.79
14.66	5/27	61	152	1.12	0.88	48	156	0.90	0.87	34	160	0.67	0.85	0.68	171	<0.05	0.79
12.91	5/27	70	150	1.24	0.88	54	154	1.01	0.87	39	159	0.75	0.86	0.77	171	<0.05	0.79
11.45	5/27	79	147	1.36	0.89	61	152	1.11	0.88	44	157	0.83	0.86	0.87	171	<0.05	0.79
10.20	5/27	88	144	1.49	0.90	69	150	1.22	0.88	49	156	0.92	0.87	0.98	171	<0.05	0.79
9.16	5/27	98	142	1.50	0.90	76	148	1.33	0.89	55	154	1.01	0.87	1.1	171	<0.05	0.79
7.99	5/27	113	138	1.50	0.90	88	144	1.48	0.90	63	152	1.13	0.88	1.3	171	<0.05	0.79
7.00	5/27	129	134	1.50	0.91	100	141	1.50	0.90	71	149	1.26	0.88	1.4	171	<0.05	0.79

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## Selection table - Gear units

# S22

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
207.20	1/42	16	280	0.70	0.69	14	290	0.61	0.68	8.2	310	0.42	0.63	6.8	315	0.37	0.61
177.88	1/42	19	275	0.78	0.70	16	285	0.68	0.69	9.6	305	0.47	0.64	7.9	310	0.41	0.62
154.74	1/42	22	265	0.86	0.71	18	275	0.75	0.70	11	300	0.52	0.66	9.0	305	0.46	0.64
136.00	1/42	25	260	0.94	0.72	21	270	0.82	0.71	13	295	0.57	0.67	10	300	0.50	0.65
120.52	1/42	28	250	1.02	0.73	23	265	0.89	0.72	14	290	0.63	0.68	12	295	0.54	0.67
107.52	1/42	32	245	1.09	0.74	26	255	0.96	0.73	16	285	0.68	0.69	13	295	0.59	0.68
96.44	1/42	35	235	1.16	0.75	29	250	1.04	0.73	18	280	0.74	0.70	15	290	0.64	0.68
87.65	1/42	39	230	1.23	0.75	32	245	1.10	0.74	19	275	0.79	0.71	16	285	0.69	0.69
77.28	1/42	44	220	1.33	0.76	36	235	1.18	0.75	22	265	0.86	0.71	18	275	0.75	0.70
71.53	2/29	48	260	1.54	0.84	39	270	1.34	0.83	24	295	0.94	0.78	20	305	0.81	0.77
68.44	1/42	50	210	1.43	0.76	41	225	1.27	0.75	25	260	0.93	0.72	20	270	0.82	0.71
61.41	2/29	55	250	1.71	0.84	46	260	1.50	0.83	28	290	1.05	0.80	23	295	0.91	0.78
61.25	1/42	56	200	1.52	0.77	46	215	1.36	0.76	28	255	1.01	0.73	23	265	0.88	0.72
53.42	2/29	64	240	1.88	0.85	52	250	1.65	0.84	32	280	1.16	0.81	26	290	1.01	0.79
53.31	1/42	64	190	1.64	0.77	53	205	1.48	0.76	32	245	1.10	0.74	26	255	0.97	0.73
46.95	2/29	72	230	2.05	0.85	60	245	1.80	0.84	36	275	1.27	0.82	30	285	1.11	0.80
41.61	2/29	82	220	2.22	0.85	67	235	1.95	0.85	41	270	1.39	0.83	34	280	1.20	0.82
37.12	2/29	92	215	2.38	0.86	75	225	2.11	0.85	46	260	1.50	0.83	38	275	1.31	0.82
33.30	2/29	102	205	2.53	0.86	84	220	2.26	0.85	51	255	1.62	0.84	42	265	1.42	0.83
30.26	2/29	112	196	2.67	0.86	93	210	2.40	0.86	56	250	1.73	0.84	46	260	1.51	0.83
26.68	2/29	127	185	2.84	0.87	105	200	2.57	0.86	64	240	1.88	0.85	52	250	1.65	0.84
26.64	5/27	128	250	3.00	0.92	105	265	3.00	0.91	64	290	2.17	0.89	53	295	1.85	0.89
23.63	2/29	144	174	3.00	0.87	118	191	2.74	0.86	72	230	2.04	0.85	59	245	1.79	0.84
22.87	5/27	149	240	3.00	0.92	122	255	3.00	0.92	74	280	2.45	0.90	61	290	2.10	0.89
21.15	2/29	161	166	3.00	0.87	132	181	2.89	0.87	80	225	2.20	0.85	66	235	1.93	0.85
19.89	5/27	171	230	3.00	0.93	141	245	3.00	0.92	85	275	2.72	0.91	70	285	2.34	0.90
18.40	2/29	185	154	3.00	0.88	152	170	3.00	0.87	92	210	2.39	0.86	76	225	2.12	0.85
17.49	5/27	194	220	3.00	0.93	160	235	3.00	0.92	97	270	2.99	0.91	80	280	2.59	0.90
15.50	5/27	219	215	3.00	0.93	181	225	3.00	0.93	110	260	3.00	0.91	90	270	2.83	0.91
13.82	5/27	246	205	3.00	0.94	203	220	3.00	0.93	123	255	3.00	0.92	101	265	3.00	0.91
12.40	5/27	274	194	3.00	0.94	226	210	3.00	0.93	137	245	3.00	0.92	113	260	3.00	0.91
11.27	5/27	302	187	3.00	0.94	248	205	3.00	0.94	151	240	3.00	0.92	124	255	3.00	0.92
9.94	5/27	342	176	3.0	0.94	282	192	3.0	0.94	171	231	3.0	0.93	141	244	3.0	0.92
8.80	5/27	386	166	3.0	0.94	318	183	3.0	0.94	193	222	3.0	0.93	159	236	3.0	0.92
7.88	5/27	432	158	3.0	0.94	356	173	3.0	0.94	216	214	3.0	0.93	178	228	3.0	0.93
6.85	5/27	496	146	3.0	0.94	409	162	3.0	0.94	248	203	3.0	0.94	204	218	3.0	0.93

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# S22

i	is	n1=900 1/min				n1=700 1/min				n1=500 1/min				n1=10 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η	n2 [1/min]	T2max [Nm]	P1max [kW]	η
207.20	1/42	4.3	325	0.25	0.58	3.4	325	0.20	0.56	2.4	330	0.16	0.54	0.048	340	<0.05	0.48
177.88	1/42	5.1	320	0.29	0.59	3.9	325	0.23	0.57	2.8	330	0.18	0.55	0.056	340	<0.05	0.48
154.74	1/42	5.8	320	0.32	0.60	4.5	325	0.26	0.58	3.2	325	0.20	0.56	0.065	340	<0.05	0.48
136.00	1/42	6.6	315	0.36	0.61	5.1	320	0.29	0.59	3.7	325	0.22	0.57	0.074	340	<0.05	0.48
120.52	1/42	7.5	310	0.40	0.62	5.8	320	0.32	0.60	4.1	325	0.24	0.58	0.083	340	<0.05	0.48
107.52	1/42	8.4	310	0.43	0.63	6.5	315	0.36	0.61	4.7	320	0.27	0.58	0.093	340	<0.05	0.48
96.44	1/42	9.3	305	0.47	0.64	7.3	315	0.39	0.61	5.2	320	0.29	0.59	0.10	340	<0.05	0.48
87.65	1/42	10	300	0.50	0.65	8.0	310	0.42	0.62	5.7	320	0.32	0.60	0.11	340	<0.05	0.48
77.28	1/42	12	295	0.54	0.67	9.1	305	0.46	0.64	6.5	315	0.35	0.60	0.13	340	<0.05	0.48
71.53	2/29	13	315	0.56	0.75	9.8	320	0.45	0.73	7.0	325	0.34	0.71	0.14	340	<0.05	0.64
68.44	1/42	13	290	0.59	0.68	10	300	0.50	0.65	7.3	315	0.39	0.61	0.15	340	<0.05	0.48
61.41	2/29	15	310	0.63	0.75	11	315	0.51	0.74	8.1	325	0.38	0.72	0.16	340	<0.05	0.64
61.25	1/42	15	290	0.65	0.68	11	300	0.54	0.66	8.2	310	0.42	0.63	0.16	340	<0.05	0.48
53.42	2/29	17	310	0.71	0.76	13	315	0.58	0.75	9.4	320	0.43	0.73	0.19	340	<0.05	0.64
53.31	1/42	17	280	0.71	0.70	13	290	0.59	0.68	9.4	305	0.47	0.64	0.19	340	<0.05	0.48
46.95	2/29	19	305	0.79	0.77	15	310	0.64	0.76	11	320	0.48	0.74	0.21	340	<0.05	0.64
41.61	2/29	22	300	0.87	0.78	17	310	0.71	0.76	12	315	0.53	0.75	0.24	340	<0.05	0.64
37.12	2/29	24	295	0.95	0.79	19	305	0.78	0.77	13	315	0.59	0.75	0.27	340	<0.05	0.64
33.30	2/29	27	290	1.03	0.80	21	300	0.85	0.78	15	310	0.65	0.76	0.30	340	<0.05	0.64
30.26	2/29	30	285	1.10	0.80	23	295	0.92	0.78	17	310	0.70	0.76	0.33	340	<0.05	0.64
26.68	2/29	34	280	1.20	0.82	26	290	1.01	0.79	19	305	0.78	0.77	0.37	340	<0.05	0.64
26.64	5/27	34	310	1.25	0.87	26	315	1.00	0.87	19	305	0.71	0.84	0.38	285	<0.05	0.79
23.63	2/29	38	270	1.32	0.82	30	285	1.10	0.80	21	300	0.86	0.78	0.42	340	<0.05	0.64
22.87	5/27	39	305	1.44	0.88	31	305	1.13	0.87	22	300	0.81	0.85	0.44	280	<0.05	0.79
21.15	2/29	43	265	1.43	0.83	33	280	1.19	0.82	24	295	0.93	0.78	0.47	340	<0.05	0.64
19.89	5/27	45	300	1.63	0.88	35	305	1.28	0.87	25	300	0.92	0.86	0.50	275	<0.05	0.79
18.40	2/29	49	255	1.57	0.84	38	270	1.31	0.82	27	290	1.04	0.80	0.54	340	<0.05	0.64
17.49	5/27	51	300	1.82	0.88	40	300	1.43	0.88	29	295	1.02	0.87	0.57	270	<0.05	0.79
15.50	5/27	58	295	2.01	0.89	45	295	1.59	0.88	32	295	1.14	0.87	0.65	265	<0.05	0.79
13.82	5/27	65	290	2.20	0.89	51	290	1.74	0.88	36	285	1.24	0.88	0.72	260	<0.05	0.79
12.40	5/27	73	285	2.40	0.90	56	285	1.90	0.89	40	285	1.36	0.88	0.81	255	<0.05	0.79
11.27	5/27	80	280	2.58	0.90	62	290	2.12	0.89	44	305	1.60	0.88	0.89	315	<0.05	0.79
9.94	5/27	91	270	2.83	0.91	70	285	2.35	0.90	50	300	1.78	0.88	1.0	300	<0.05	0.79
8.80	5/27	102	265	3.00	0.91	80	280	2.58	0.90	57	295	1.97	0.89	1.1	290	<0.05	0.79
7.88	5/27	114	260	3.00	0.91	89	275	2.79	0.91	63	290	2.16	0.89	1.3	335	0.06	0.79
6.85	5/27	131	250	3.00	0.92	102	265	3.00	0.91	73	285	2.41	0.90	1.5	320	0.06	0.79

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S32

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
271.60	1/42	13	545	1.03	0.69	10	565	0.91	0.67	6.3	600	0.63	0.62	5.2	610	0.54	0.61
234.71	1/42	14	530	1.14	0.70	12	550	0.99	0.69	7.2	590	0.71	0.63	6.0	605	0.61	0.62
205.58	1/42	17	515	1.25	0.71	14	535	1.09	0.70	8.3	580	0.78	0.65	6.8	595	0.68	0.63
182.00	1/42	19	500	1.35	0.72	15	520	1.19	0.71	9.3	570	0.85	0.66	7.7	585	0.74	0.64
162.52	1/42	21	485	1.45	0.73	17	510	1.28	0.72	10	560	0.91	0.67	8.6	580	0.80	0.65
146.16	1/42	23	470	1.55	0.74	19	495	1.37	0.72	12	550	0.98	0.69	9.6	570	0.86	0.66
132.22	1/42	26	455	1.65	0.74	21	480	1.46	0.73	13	540	1.05	0.69	11	560	0.92	0.67
120.52	1/42	28	440	1.75	0.75	23	470	1.54	0.74	14	530	1.12	0.70	12	550	0.98	0.69
107.52	1/42	32	425	1.87	0.75	26	455	1.66	0.74	16	520	1.21	0.71	13	540	1.06	0.70
96.44	1/42	35	405	1.98	0.76	29	440	1.78	0.75	18	505	1.30	0.72	15	530	1.14	0.70
87.50	1/42	39	390	2.08	0.77	32	425	1.88	0.75	19	495	1.38	0.73	16	515	1.22	0.71
77.54	1/42	44	375	2.21	0.77	36	400	2.00	0.76	22	475	1.49	0.73	18	500	1.32	0.72
68.25	1/42	50	350	2.35	0.78	41	385	2.14	0.77	25	460	1.62	0.74	21	485	1.43	0.73
59.77	1/42	57	330	2.52	0.78	47	360	2.27	0.78	28	440	1.76	0.75	23	465	1.55	0.74
52.50	1/42	65	310	2.66	0.79	53	340	2.44	0.78	32	420	1.89	0.75	27	450	1.69	0.74
52.21	3/32	65	530	4.00	0.89	54	555	3.53	0.88	33	615	2.47	0.85	27	635	2.12	0.84
46.22	3/32	74	510	4.00	0.89	61	540	3.86	0.89	37	605	2.70	0.86	30	625	2.33	0.85
41.28	3/32	82	490	4.00	0.90	68	520	4.00	0.89	41	590	2.93	0.87	34	615	2.54	0.86
37.12	3/32	92	475	4.00	0.90	75	505	4.00	0.89	46	575	3.14	0.88	38	600	2.75	0.86
33.58	3/32	101	455	4.00	0.90	83	490	4.00	0.90	51	565	3.38	0.88	42	590	2.95	0.87
30.61	3/32	111	440	4.00	0.90	91	475	4.00	0.90	56	550	3.63	0.88	46	575	3.14	0.88
27.31	3/32	125	420	4.00	0.91	103	455	4.00	0.90	62	535	3.93	0.89	51	560	3.42	0.88
24.49	3/32	139	400	4.00	0.91	114	435	4.00	0.90	69	515	4.00	0.89	57	545	3.70	0.88
22.22	3/32	153	385	4.00	0.91	126	420	4.00	0.91	77	505	4.00	0.89	63	535	3.96	0.89
19.69	3/32	173	360	4.00	0.92	142	395	4.00	0.91	86	485	4.00	0.90	71	515	4.00	0.89
17.33	3/32	196	335	4.00	0.92	162	375	4.00	0.91	98	460	4.00	0.90	81	495	4.00	0.89
15.18	3/32	224	315	4.00	0.92	184	345	4.00	0.92	112	440	4.00	0.90	92	470	4.00	0.90
13.33	3/32	255	290	4.00	0.92	210	325	4.00	0.92	128	415	4.00	0.91	105	450	4.00	0.90

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# S32

i	is	n1=900 1/min				n1=700 1/min				n1=500 1/min				n1=10 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
271.60	1/42	3.3	630	0.38	0.58	2.6	635	0.31	0.56	1.8	645	0.23	0.53	0.037	665	<0.05	0.48
234.71	1/42	3.8	625	0.42	0.59	3.0	635	0.35	0.57	2.1	640	0.26	0.54	0.043	665	<0.05	0.48
205.58	1/42	4.4	620	0.47	0.60	3.4	630	0.38	0.58	2.4	640	0.29	0.55	0.049	665	<0.05	0.48
182.00	1/42	4.9	615	0.52	0.61	3.8	625	0.42	0.59	2.7	635	0.32	0.56	0.055	665	<0.05	0.48
162.52	1/42	5.5	610	0.57	0.61	4.3	620	0.47	0.60	3.1	630	0.35	0.57	0.062	665	<0.05	0.48
146.16	1/42	6.2	600	0.62	0.62	4.8	615	0.51	0.60	3.4	630	0.38	0.59	0.068	665	<0.05	0.48
132.22	1/42	6.8	595	0.68	0.63	5.3	610	0.55	0.61	3.8	625	0.42	0.59	0.076	665	<0.05	0.48
120.52	1/42	7.5	590	0.72	0.64	5.8	605	0.60	0.62	4.1	620	0.45	0.60	0.083	665	<0.05	0.48
107.52	1/42	8.4	580	0.79	0.65	6.5	600	0.65	0.63	4.7	615	0.50	0.60	0.093	665	<0.05	0.48
96.44	1/42	9.3	570	0.85	0.66	7.3	590	0.71	0.63	5.2	610	0.54	0.61	0.10	665	<0.05	0.48
87.50	1/42	10	565	0.90	0.67	8.0	585	0.76	0.64	5.7	605	0.59	0.62	0.11	665	<0.05	0.48
77.54	1/42	12	550	0.98	0.69	9.0	575	0.83	0.66	6.4	600	0.65	0.62	0.13	665	<0.05	0.48
68.25	1/42	13	540	1.07	0.70	10	565	0.90	0.67	7.3	590	0.71	0.64	0.15	665	<0.05	0.48
59.77	1/42	15	525	1.17	0.71	12	550	0.98	0.69	8.4	580	0.79	0.65	0.17	665	<0.05	0.48
52.50	1/42	17	510	1.27	0.72	13	535	1.08	0.70	9.5	570	0.86	0.66	0.19	665	<0.05	0.48
52.21	3/32	17	665	1.46	0.83	13	680	1.17	0.82	9.6	695	0.88	0.79	0.19	730	<0.05	0.73
46.22	3/32	19	660	1.62	0.83	15	675	1.30	0.82	11	690	0.98	0.80	0.22	730	<0.05	0.73
41.28	3/32	22	650	1.78	0.83	17	665	1.43	0.83	12	685	1.08	0.81	0.24	730	<0.05	0.73
37.12	3/32	24	645	1.95	0.84	19	660	1.57	0.83	13	680	1.17	0.82	0.27	730	<0.05	0.73
33.58	3/32	27	635	2.12	0.84	21	655	1.72	0.83	15	675	1.28	0.82	0.30	730	<0.05	0.73
30.61	3/32	29	625	2.28	0.85	23	650	1.86	0.84	16	670	1.39	0.82	0.33	730	<0.05	0.73
27.31	3/32	33	615	2.49	0.85	26	640	2.04	0.84	18	665	1.53	0.83	0.37	730	<0.05	0.73
24.49	3/32	37	605	2.70	0.86	29	630	2.23	0.85	20	655	1.69	0.83	0.41	730	<0.05	0.73
22.22	3/32	41	590	2.89	0.87	32	620	2.40	0.85	23	650	1.83	0.84	0.45	730	<0.05	0.73
19.69	3/32	46	575	3.14	0.88	36	610	2.63	0.86	25	640	2.02	0.84	0.51	730	0.05	0.73
17.33	3/32	52	560	3.45	0.88	40	595	2.89	0.87	29	630	2.24	0.85	0.58	730	0.06	0.73
15.18	3/32	59	540	3.80	0.89	46	575	3.16	0.88	33	615	2.49	0.85	0.66	730	0.07	0.73
13.33	3/32	68	520	4.00	0.89	53	560	3.48	0.88	38	600	2.74	0.86	0.75	730	0.08	0.73

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# S42

i	is	n1=3400 1/min				n1=2800 1/min				n1=1700 1/min				n1=1400 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
247.58	1/42	14	1140	2.28	0.72	11	1190	2.01	0.70	6.9	1320	1.46	0.65	5.7	1350	1.26	0.64
220.00	1/42	15	1100	2.46	0.73	13	1160	2.17	0.71	7.7	1290	1.59	0.66	6.4	1330	1.38	0.64
197.22	1/42	17	1070	2.62	0.74	14	1130	2.33	0.72	8.6	1270	1.71	0.67	7.1	1310	1.49	0.65
178.08	1/42	19	1030	2.78	0.74	16	1100	2.48	0.73	9.5	1240	1.82	0.68	7.9	1290	1.60	0.66
161.78	1/42	21	1000	2.94	0.75	17	1070	2.62	0.74	11	1220	1.93	0.69	8.7	1270	1.71	0.67
147.91	1/42	23	970	3.08	0.76	19	1040	2.76	0.74	11	1190	2.03	0.71	9.5	1250	1.81	0.68
132.72	1/42	26	935	3.28	0.76	21	1000	2.95	0.75	13	1160	2.18	0.71	11	1220	1.93	0.69
119.78	1/42	28	900	3.48	0.77	23	965	3.11	0.76	14	1130	2.33	0.72	12	1180	2.05	0.71
110.25	1/42	31	865	3.62	0.77	25	935	3.26	0.76	15	1110	2.45	0.73	13	1160	2.16	0.71
98.54	1/42	35	820	3.81	0.78	28	895	3.48	0.77	17	1070	2.62	0.74	14	1130	2.33	0.72
87.50	1/42	39	775	4.03	0.78	32	850	3.69	0.77	19	1030	2.81	0.75	16	1090	2.51	0.73
77.54	1/42	44	730	4.25	0.79	36	800	3.88	0.78	22	985	3.01	0.75	18	1050	2.68	0.74
69.00	1/42	49	685	4.46	0.79	41	760	4.11	0.78	25	945	3.20	0.76	20	1000	2.84	0.75
59.37	3/34	57	1150	7.5	0.91	47	1220	6.7	0.90	29	1260	4.32	0.87	24	1260	3.59	0.87
59.11	1/42	58	630	4.79	0.79	47	695	4.37	0.79	29	895	3.50	0.77	24	920	3.00	0.76
53.22	3/34	64	1110	7.5	0.91	53	1180	7.2	0.90	32	1340	5.1	0.88	26	1390	4.38	0.87
52.14	1/42	65	585	4.99	0.80	54	655	4.65	0.79	33	845	3.72	0.77	27	915	3.37	0.77
48.05	3/34	71	1070	7.5	0.91	58	1150	7.5	0.91	35	1310	5.5	0.89	29	1360	4.74	0.88
43.65	3/34	78	1040	7.5	0.91	64	1110	7.5	0.91	39	1280	5.8	0.89	32	1320	5.0	0.88
39.91	3/34	85	1000	7.5	0.91	70	1080	7.5	0.91	43	1250	6.2	0.90	35	1250	5.2	0.89
35.81	3/34	95	960	7.5	0.91	78	1040	7.5	0.91	47	1210	6.7	0.90	39	1250	5.7	0.89
32.32	3/34	105	925	7.5	0.91	87	995	7.5	0.91	53	1180	7.2	0.90	43	1200	6.1	0.90
29.75	3/34	114	890	7.5	0.92	94	965	7.5	0.91	57	1140	7.5	0.91	47	1140	6.2	0.90
26.59	3/34	128	840	7.5	0.92	105	925	7.5	0.91	64	1110	7.5	0.91	53	1140	7.0	0.90
23.61	3/34	144	790	7.5	0.92	119	875	7.5	0.92	72	1070	7.5	0.91	59	1080	7.4	0.91
20.92	3/34	163	740	7.5	0.93	134	820	7.5	0.92	81	1010	7.5	0.91	67	1010	7.5	0.91
18.62	3/34	183	695	7.5	0.93	150	775	7.5	0.92	91	950	7.5	0.91	75	950	7.5	0.91
15.95	3/34	213	640	7.5	0.93	176	705	7.5	0.93	107	885	7.5	0.91	88	885	7.5	0.91

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i	is	n1=900 1/min				n1=700 1/min				n1=500 1/min				n1=10 1/min			
		n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$	n2 [1/min]	T2max [Nm]	P1max [kW]	$\eta$
247.58	1/42	3.6	1410	0.88	0.61	2.8	1430	0.73	0.58	2.0	1460	0.56	0.55	0.040	1530	<0.05	0.48
220.00	1/42	4.1	1390	0.97	0.62	3.2	1420	0.80	0.59	2.3	1450	0.62	0.56	0.045	1530	<0.05	0.48
197.22	1/42	4.6	1380	1.06	0.62	3.5	1410	0.86	0.61	2.5	1440	0.67	0.57	0.051	1530	<0.05	0.48
178.08	1/42	5.1	1370	1.15	0.63	3.9	1400	0.94	0.61	2.8	1430	0.73	0.58	0.056	1530	<0.05	0.48
161.78	1/42	5.6	1350	1.24	0.63	4.3	1390	1.01	0.62	3.1	1420	0.78	0.59	0.062	1530	<0.05	0.48
147.91	1/42	6.1	1340	1.33	0.64	4.7	1380	1.09	0.62	3.4	1410	0.83	0.60	0.068	1530	<0.05	0.48
132.72	1/42	6.8	1320	1.44	0.65	5.3	1360	1.19	0.63	3.8	1400	0.90	0.61	0.075	1530	<0.05	0.48
119.78	1/42	7.5	1300	1.55	0.66	5.8	1340	1.29	0.64	4.2	1390	0.98	0.62	0.083	1530	<0.05	0.48
110.25	1/42	8.2	1280	1.65	0.67	6.3	1330	1.38	0.64	4.5	1380	1.05	0.62	0.091	1530	<0.05	0.48
98.54	1/42	9.1	1250	1.77	0.68	7.1	1310	1.49	0.65	5.1	1370	1.16	0.63	0.10	1530	<0.05	0.48
87.50	1/42	10	1220	1.91	0.69	8.0	1290	1.62	0.66	5.7	1350	1.27	0.64	0.11	1530	<0.05	0.48
77.54	1/42	12	1190	2.04	0.71	9.0	1260	1.76	0.68	6.4	1330	1.39	0.64	0.13	1530	<0.05	0.48
69.00	1/42	13	1000	1.91	0.72	10	1000	1.54	0.69	7.2	1000	1.16	0.65	0.14	1000	<0.05	0.48
59.37	3/34	15	1260	2.34	0.85	12	1260	1.85	0.84	8.4	1260	1.36	0.81	0.17	1260	<0.05	0.76
59.11	1/42	15	920	2.02	0.73	12	920	1.61	0.71	8.5	920	1.22	0.67	0.17	920	<0.05	0.48
53.22	3/34	17	1460	3.03	0.86	13	1470	2.39	0.85	9.4	1430	1.71	0.82	0.19	1320	<0.05	0.76
52.14	1/42	17	1070	2.62	0.74	13	1150	2.25	0.72	9.6	1240	1.83	0.68	0.19	1530	0.06	0.48
48.05	3/34	19	1450	3.31	0.86	15	1460	2.61	0.85	10	1420	1.86	0.83	0.21	1300	<0.05	0.76
43.65	3/34	21	1320	3.31	0.86	16	1320	2.59	0.85	11	1320	1.89	0.84	0.23	1280	<0.05	0.76
39.91	3/34	23	1250	3.41	0.87	18	1250	2.68	0.86	13	1250	1.94	0.84	0.25	1250	<0.05	0.76
35.81	3/34	25	1250	3.78	0.87	20	1250	2.97	0.86	14	1250	2.15	0.85	0.28	1250	<0.05	0.76
32.32	3/34	28	1200	4.00	0.87	22	1200	3.15	0.86	15	1200	2.28	0.85	0.31	1200	0.05	0.76
29.75	3/34	30	1140	4.12	0.88	24	1140	3.24	0.87	17	1140	2.34	0.86	0.34	1140	0.05	0.76
26.59	3/34	34	1140	4.57	0.88	26	1140	3.61	0.87	19	1140	2.61	0.86	0.38	1140	0.06	0.76
23.61	3/34	38	1080	4.84	0.89	30	1080	3.82	0.88	21	1080	2.78	0.86	0.42	1080	0.06	0.76
20.92	3/34	43	1010	5.1	0.90	33	1010	4.01	0.88	24	1010	2.91	0.87	0.48	1010	0.07	0.76
18.62	3/34	48	950	5.3	0.90	38	950	4.20	0.89	27	950	3.06	0.87	0.54	950	0.07	0.76
15.95	3/34	56	885	5.8	0.91	44	885	4.52	0.90	31	885	3.30	0.88	0.63	885	0.08	0.76

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### Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.12 kW</b>					
S22G12A DM63K4					22
3.0	215	1.55	463.77		
3.4	191	1.70	406.20		
3.8	172	1.90	362.38		
S12G02A DM63K4					15
2.8	200	0.90	490.22		
3.2	180	1.00	429.37		
3.7	161	1.10	375.31		
4.2	144	1.25	330.65		
4.7	129	1.40	293.14		
5.3	117	1.50	261.18		
5.9	106	1.65	234.46		
6.7	94	1.85	204.64		
S02A DM63K4					8
7.3	74	0.80	189.00		
8.7	64	0.90	159.35		
10	56	1.00	135.95		
12	49	1.15	117.00		
14	44	1.25	101.35		
16	39	1.35	88.20		
18	35	1.50	77.00		
20	39	1.75	69.00		
24	34	2.0	58.18		
28	29	2.3	49.63		
32	26	2.5	42.71		
37	22	2.8	37.00		
43	20	3.0	32.20		
49	17	3.3	28.11		
55	17	3.6	25.00		
65	15	4.1	21.08		
77	13	4.7	17.98		
89	11	5.2	15.48		
103	9.6	5.7	13.41		
110	9.3	7.2	12.50		
118	8.4	6.3	11.67		
131	7.9	8.2	10.54		
135	7.4	7.0	10.19		
153	6.8	9.3	8.99		
178	5.9	10	7.74		
206	5.1	12	6.70		
237	4.5	13	5.83		
271	3.9	14	5.09		
<b>0.18 kW</b>					
S32G12A DM63G4					30
2.8	345	1.85	492.61		
3.1	320	2.00	445.64		
S22G12A DM63G4					22
3.0	320	1.05	463.77		
3.4	285	1.15	406.20		
3.8	260	1.25	362.38		
4.2	235	1.40	325.05		
4.7	215	1.50	295.42		
5.3	192	1.65	260.46		
6.0	172	1.85	230.68		
6.7	156	2.0	206.44		
S22A DM63G4					17
6.7	157	2.0	207.20		
S12G02A DM63G4					16
4.2	215	0.85	330.65		
4.7	194	0.90	293.14		
5.3	175	1.00	261.18		
5.9	159	1.10	234.46		
6.7	141	1.25	204.64		
7.7	126	1.35	179.24		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.18 kW</b>					
S12A DM63G4					12
8.2	119	1.45	168.00		
9.6	105	1.60	143.53		
11	93	1.75	124.21		
13	84	1.95	108.57		
S02A DM63G4					8
14	66	0.85	101.35		
16	59	0.90	88.20		
18	53	1.00	77.00		
20	58	1.20	69.00		
24	50	1.35	58.18		
28	44	1.50	49.63		
32	38	1.70	42.71		
37	34	1.85	37.00		
43	30	2.0	32.20		
49	26	2.2	28.11		
55	26	2.4	25.00		
65	22	2.8	21.08		
77	19	3.1	17.98		
89	17	3.4	15.48		
103	14	3.8	13.41		
110	14	4.8	12.50		
118	13	4.2	11.67		
131	12	5.5	10.54		
135	11	4.6	10.19		
153	10	6.2	8.99		
178	8.9	6.9	7.74		
206	7.7	7.7	6.70		
237	6.7	8.6	5.83		
271	5.9	9.4	5.09		
<b>0.25 kW</b>					
S32G12A DM71K4					31
2.9	475	1.35	492.61		
3.2	435	1.45	445.64		
3.5	405	1.55	406.20		
3.9	365	1.70	362.38		
4.3	330	1.90	325.05		
4.8	300	2.0	294.91		
S22G12A DM71K4					23
3.5	390	0.85	406.20		
3.9	350	0.90	362.38		
4.3	320	1.00	325.05		
4.8	290	1.10	295.42		
5.4	260	1.20	260.46		
6.1	235	1.35	230.68		
6.8	215	1.50	206.44		
7.8	189	1.65	179.67		
S22A DM71K4					18
6.8	215	1.45	207.20		
7.9	187	1.65	177.88		
9.1	167	1.85	154.74		
10	150	2.0	136.00		
S12G02A DM71K4					17
6.0	215	0.80	234.46		
6.9	193	0.90	204.64		
7.9	172	1.00	179.24		
S12A DM71K4					13
8.4	163	1.05	168.00		
9.8	143	1.15	143.53		
11	128	1.30	124.21		
13	114	1.40	108.57		
15	102	1.55	95.65		
17	92	1.70	84.80		
19	83	1.85	75.56		
21	76	2.00	67.83		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.25 kW</b>					
S02A DM71K4					9
20	80	0.85	69.00		
24	69	1.00	58.18		
28	60	1.10	49.63		
33	52	1.20	42.71		
38	46	1.35	37.00		
44	40	1.50	32.20		
50	36	1.65	28.11		
56	35	1.75	25.00		
67	30	2.0	21.08		
78	26	2.3	17.98		
91	23	2.5	15.48		
105	20	2.8	13.41		
113	19	3.5	12.50		
121	17	3.1	11.67		
134	16	4.0	10.54		
138	15	3.4	10.19		
157	14	4.5	8.99		
182	12	5.0	7.74		
210	10	5.6	6.70		
242	9.1	6.3	5.83		
277	8.0	6.9	5.09		
<b>0.37 kW</b>					
S42G22A DM71G4					50
2.9	720	2.00	494.08		
S32G12A DM71G4					32
2.9	700	0.90	492.61		
3.2	645	1.00	445.64		
3.5	595	1.05	406.20		
3.9	540	1.15	362.38		
4.3	490	1.25	325.05		
4.8	445	1.40	294.91		
5.4	400	1.50	261.33		
6.1	360	1.70	230.03		
S32A DM71G4					26
5.2	415	1.45	271.60		
6.0	365	1.65	234.71		
6.9	325	1.85	205.58		
7.7	290	2.0	182.00		
S22G12A DM71G4					24
5.4	385	0.85	260.46		
6.1	345	0.90	230.68		
6.8	315	1.00	206.44		
7.8	280	1.10	179.67		
S22A DM71G4					19
6.8	315	1.00	207.20		
7.9	275	1.10	177.88		
9.1	245	1.25	154.74		
10	220	1.35	136.00		
12	200	1.45	120.52		
13	182	1.60	107.52		
15	165	1.75	96.44		
16	152	1.85	87.65		
18	136	2.0	77.28		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.37 kW</b>					
S12A DM71G4					14
9.8	210	0.80	143.53		
11	189	0.85	124.21		
13	169	0.95	108.57		
15	151	1.05	95.65		
17	136	1.15	84.80		
19	123	1.25	75.56		
21	112	1.35	67.83		
23	116	1.45	60.90		
24	100	1.45	59.20		
27	101	1.60	52.03		
27	89	1.60	51.85		
31	89	1.80	45.03		
36	79	2.00	39.36		
S02A DM71G4					10
33	77	0.85	42.71		
38	68	0.90	37.00		
44	60	1.00	32.20		
50	53	1.10	28.11		
56	52	1.20	25.00		
67	45	1.35	21.08		
78	38	1.55	17.98		
91	33	1.70	15.48		
105	29	1.90	13.41		
113	28	2.4	12.50		
121	25	2.1	11.67		
134	24	2.7	10.54		
138	22	2.3	10.19		
157	21	3.1	8.99		
182	18	3.4	7.74		
210	15	3.8	6.70		
242	13	4.2	5.83		
277	12	4.7	5.09		
<b>0.55 kW</b>					
S42G22A DM80K4			</		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.55 kW</b>					
S12A DM80K4					16
19	183	0.85	75.56		
21	167	0.90	67.83		
24	149	1.00	59.20		
27	132	1.05	51.85		
31	133	1.20	45.03		
36	118	1.30	39.36		
41	105	1.45	34.67		
46	93	1.60	30.74		
51	84	1.75	27.39		
57	76	1.90	24.59		
S02A DM80K4					12
78	57	1.05	17.98		
91	50	1.15	15.48		
105	43	1.25	13.41		
120	38	1.40	11.67		
138	33	1.55	10.19		
156	31	2.1	8.99		
182	27	2.3	7.74		
210	23	2.6	6.70		
241	20	2.8	5.83		
276	18	3.1	5.09		
<b>0.75 kW</b>					
S42G22A DM80GB4					55
2.9	1450	1.00	494.08		
3.2	1320	1.05	441.60		
3.6	1200	1.15	392.13		
4.1	1080	1.30	347.49		
4.6	965	1.40	309.22		
5.4	840	1.60	264.91		
S42A DM80GB4					46
5.8	790	1.70	247.58		
6.5	715	1.85	220.00		
7.2	650	2.0	197.22		
S32G12A DM80GB4					36
6.2	720	0.85	230.03		
S32A DM80GB4					31
6.9	650	0.90	205.58		
7.8	585	1.00	182.00		
8.8	535	1.10	162.52		
9.7	490	1.15	146.16		
11	450	1.25	132.22		
12	415	1.30	120.52		
13	375	1.45	107.52		
15	340	1.55	96.44		
S22A DM80GB4					23
13	365	0.80	107.52		
15	330	0.85	96.44		
16	305	0.95	87.65		
18	275	1.00	77.28		
21	245	1.10	68.44		
27	215	1.35	53.42		
30	190	1.50	46.95		
34	171	1.60	41.61		
38	154	1.75	37.12		
43	139	1.90	33.30		
S12A DM80GB4					19
27	178	0.80	51.85		
32	179	0.90	45.03		
36	159	1.00	39.36		
41	141	1.10	34.67		
46	126	1.20	30.74		
52	113	1.30	27.39		
58	102	1.40	24.59		
66	89	1.55	21.46		
76	79	1.70	18.80		
85	75	1.95	16.77		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>0.75 kW</b>					
S02A DM80GB4					15
92	67	0.85	15.48		
106	58	0.95	13.41		
122	51	1.05	11.67		
140	45	1.15	10.19		
158	41	1.50	8.99		
184	36	1.70	7.74		
213	31	1.90	6.70		
244	27	2.1	5.83		
280	24	2.3	5.09		
<b>1.1 kW</b>					
S42G22A DM90SB4					59
3.7	1740	0.80	392.13		
3.8	1710	0.80	384.81		
4.2	1560	0.90	347.49		
4.2	1540	0.90	343.94		
4.7	1400	1.00	309.22		
4.7	1390	1.00	305.41		
5.3	1240	1.10	270.64		
5.5	1220	1.10	264.91		
6.0	1120	1.20	240.84		
S42A DM90SB4					50
6.6	1030	1.30	220.00		
7.3	940	1.40	197.22		
8.1	860	1.50	178.08		
8.9	795	1.60	161.78		
9.8	735	1.70	147.91		
11	675	1.80	132.72		
12	620	1.90	119.78		
13	575	2.0	110.25		
15	520	2.2	98.54		
17	465	2.3	87.50		
19	420	2.5	77.54		
S32A DM90SB4					35
9.9	705	0.80	146.16		
11	650	0.85	132.22		
12	605	0.90	120.52		
13	545	1.00	107.52		
15	495	1.05	96.44		
17	455	1.15	87.50		
19	405	1.20	77.54		
21	365	1.35	68.25		
24	320	1.45	59.77		
31	285	2.2	46.22		
35	260	2.4	41.28		
S22A DM90SB4					27
24	320	0.80	61.25		
27	280	0.90	53.31		
31	275	1.05	46.95		
35	250	1.10	41.61		
39	225	1.20	37.12		
43	200	1.30	33.30		
48	184	1.40	30.26		
54	163	1.55	26.68		
61	145	1.65	23.63		
68	131	1.80	21.15		
79	114	1.95	18.40		
83	115	2.4	17.49		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.1 kW</b>					
S12A DM90SB4					23
47	182	0.80	30.74		
53	163	0.90	27.39		
59	147	0.95	24.59		
67	129	1.05	21.46		
77	114	1.15	18.80		
99	96	1.45	14.66		
112	85	1.65	12.91		
126	76	1.80	11.45		
142	68	1.95	10.20		
158	61	2.1	9.16		
181	53	2.3	7.99		
206	47	2.5	7.00		
<b>1.5 kW</b>					
S42G22A DM90LB4					66
5.4	1680	0.80	270.64		
5.5	1650	0.80	264.91		
6.0	1520	0.90	240.84		
S42A DM90LB4					58
6.6	1400	0.95	220.00		
7.4	1270	1.00	197.22		
8.2	1170	1.10	178.08		
9.0	1080	1.15	161.78		
9.8	1000	1.25	147.91		
11	915	1.30	132.72		
12	840	1.40	119.78		
13	780	1.50	110.25		
15	705	1.60	98.54		
17	630	1.70	87.50		
19	565	1.85	77.54		
25	505	2.5	59.37		
S32A DM90LB4					42
15	670	0.80	96.44		
17	615	0.85	87.50		
19	550	0.90	77.54		
21	490	1.00	68.25		
24	435	1.05	59.77		
31	390	1.60	46.22		
35	350	1.75	41.28		
39	315	1.90	37.12		
43	290	2.0	33.58		
48	265	2.2	30.61		
53	235	2.3	27.31		
59	215	2.5	24.49		
S22A DM90LB4					34
35	335	0.80	41.61		
39	300	0.90	37.12		
44	270	0.95	33.30		
48	250	1.05	30.26		
55	220	1.15	26.68		
62	197	1.25	23.63		
69	177	1.30	21.15		
79	155	1.45	18.40		
83	156	1.80	17.49		
94	139	1.95	15.50		
105	124	2.1	13.82		
117	112	2.3	12.40		
129	102	2.5	11.27		
146	90	2.7	9.94		
165	80	2.9	8.80		
185	72	3.1	7.88		
212	63	3.4	6.85		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
<b>1.5 kW</b>					
S12A DM90LB4					30
68	175	0.80	21.46		
77	155	0.85	18.80		
99	130	1.10	14.66		
113	115	1.20	12.91		
127	102	1.30	11.45		
143	91	1.45	10.20		
159	82	1.55	9.16		
182	72	1.70	7.99		
208	64	1.85	7.00		
<b>2.2 kW</b>					
S42A DM100LA4					78
9.0	1570	0.80	161.78		
9.9	1460	0.85	147.91		
11	1340	0.90	132.72		
12	1230	0.95	119.78		
13	1140	1.00	110.25		
15	1030	1.10	98.54		
17	925	1.15	87.50		
19	830	1.25	77.54		
21	745	1.35	69.00		
27	670	2.1	53.22		
30	605	2.2	48.05		
33	555	2.4	43.65		
37	510	2.5	39.91		
S32A DM100LA4					61
28	565	0.80	52.50		
35	510	1.20	41.28		
39	465	1.30	37.12		
43	420	1.40	33.58		
48	390	1			

## Selection table - Geared motors

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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### 3.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S32A DM100LE4					54
35	700	0.85	41.28		
39	635	0.95	37.12		
43	580	1.00	33.58		
48	530	1.10	30.61		
53	475	1.15	27.31		
59	425	1.25	24.49		
65	390	1.35	22.22		
74	345	1.45	19.69		
84	305	1.60	17.33		
96	270	1.75	15.18		
109	235	1.90	13.33		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S22A DM100LE4					46
94	280	0.95	15.50		
105	250	1.05	13.82		
117	225	1.15	12.40		
129	205	1.25	11.27		
146	180	1.35	9.94		
165	160	1.45	8.80		
185	144	1.55	7.88		
212	126	1.70	6.85		

### 4.0 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S42A DM112MB4					74
30	1100	1.20	48.05		
33	1010	1.30	43.65		
37	925	1.35	39.91		
41	840	1.50	35.81		
45	760	1.60	32.32		
49	700	1.60	29.75		
55	630	1.80	26.59		
62	560	1.95	23.61		
70	500	2.0	20.92		
78	445	2.1	18.62		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
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Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S32A DM112MB4					58
48	705	0.80	30.61		
53	630	0.90	27.31		
60	565	0.95	24.49		
66	515	1.00	22.22		
74	460	1.10	19.69		
84	405	1.20	17.33		
96	360	1.30	15.18		
110	315	1.40	13.33		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
------	------------	---------	----	---	-----

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S22A DM112MB4					50
106	330	0.80	13.82		
118	295	0.85	12.40		
130	270	0.90	11.27		
147	240	1.00	9.94		
166	215	1.10	8.80		
185	192	1.15	7.88		
213	167	1.30	6.85		

### 5.5 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S42A DA132SB4					105
41	1160	1.10	35.81		
45	1050	1.15	32.32		
49	970	1.20	29.75		
55	870	1.30	26.59		
62	775	1.40	23.61		
70	685	1.45	20.92		
78	610	1.55	18.62		
91	525	1.70	15.95		
103	465	1.75	14.07		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
------	------------	---------	----	---	-----

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S32A DA132SB4					89
74	635	0.80	19.69		
84	560	0.85	17.33		
96	495	0.95	15.18		
109	435	1.00	13.33		

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
------	------------	---------	----	---	-----

### 7.5 kW

Type	n2 [1/min]	T2 [Nm]	cG	i	-kg
S42A DA132MB4					105
41	1570	0.80	35.81		
45	1430	0.85	32.32		
49	1320	0.85	29.75		
55	1180	0.95	26.59		
62	1050	1.05	23.61		
70	935	1.10	20.92		
78	830	1.15	18.62		
92	715	1.25	15.95		
104	630	1.30	14.07		

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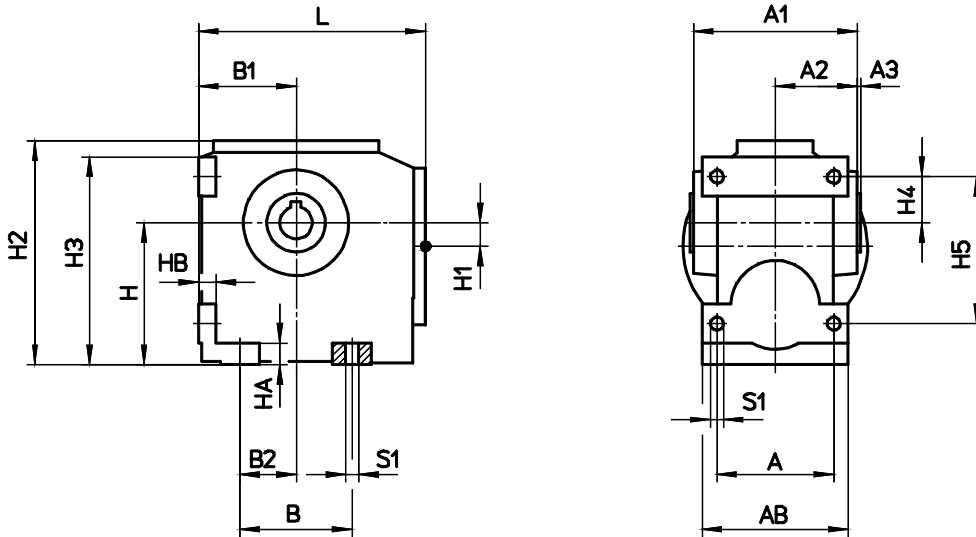
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## Dimensions

### A - Foot mounted version



	A	AB	A1	A2	A3	B	B1	B2	H	HA	HB	H1	H2	H3	H4	H5	L	S1
<b>S0</b>	50	63	86	43	2	60	52-0.5	30	70-0.5	9	9	7.5	113	106.5	29	86	126	M6
<b>S1</b>	90	110	116	58	2	75	70-0.5	37.5	95-0.5	15	12	10	151.5	137.5	30	95	160	Ø9
<b>S2</b>	110	135	144	72	3	90	85-0.5	45	120-0.5	18	15	18	191	175	40	120	191	Ø11
<b>S3</b>	120	150	168	84	3.5	115	100-0.5	57.5	145-0.5	22	18	24	229.5	212	47	150	233	Ø13.5
<b>S4</b>	150	185	202	101	4	135	125-0.5	70	180-0.5	25	22	35	280	259.5	57	180	280	Ø17.5

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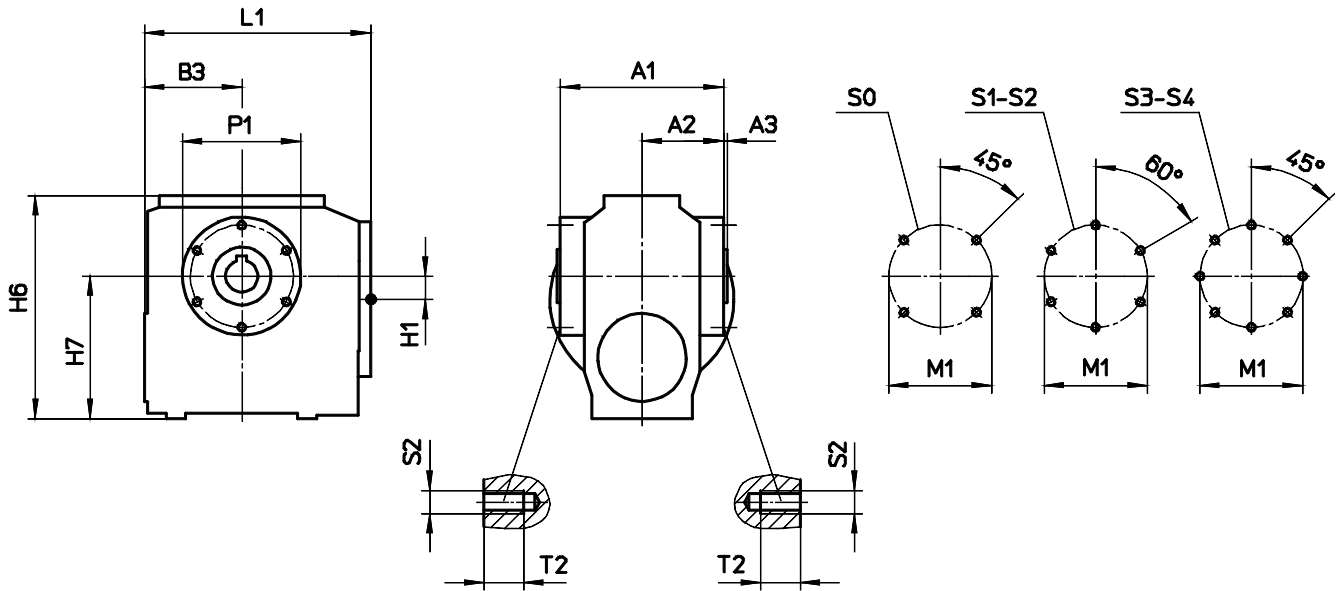
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**B - Shaft mounted version**



	A1	A2	A3	B3	H1	H6	H7	L1	M1	P1	S2	T2
<b>S0</b>	86	43	2	52	7.5	113.5	70.5	126	74	86	M6	9
<b>S1</b>	116	58	2	69	10	153.5	97	159	87	99	M6	9
<b>S2</b>	144	72	3	85	18	193	122	191	96	112	M8	12
<b>S3</b>	168	84	3.5	100	24	231.5	147	233	106	122	M8	12
<b>S4</b>	202	101	4	125	35	282	182	280	130	150	M10	15

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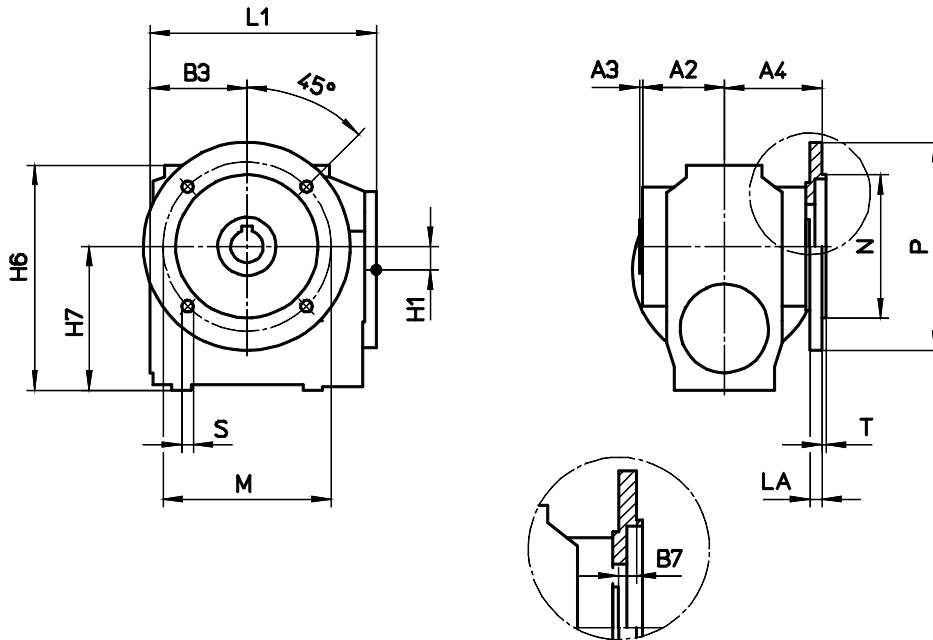
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### C - Flange mounted version



	A2	A3	A4	B3	B7	H1	H6	H7	L1
<b>S0</b>	43	2	63	52	18	7.5	113.5	70.5	126
<b>S1</b>	58	2	70	69	10	10	153.5	97	159
<b>S2</b>	72	3	83	85	8	18	193	122	191
<b>S3</b>	84	3.5	95	100	7.5	24	231.5	147	233
<b>S4</b>	101	4	113	125	8	35	282	182	280

	M	N	P	LA	T	S
<b>S0</b>	Ø100	Ø80 j6	Ø120	8	3	Ø6.6
<b>S1</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
<b>S2</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>S3</b>	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
<b>S4</b>	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
	Ø265	Ø230 j6	Ø300	12	4	Ø13.5

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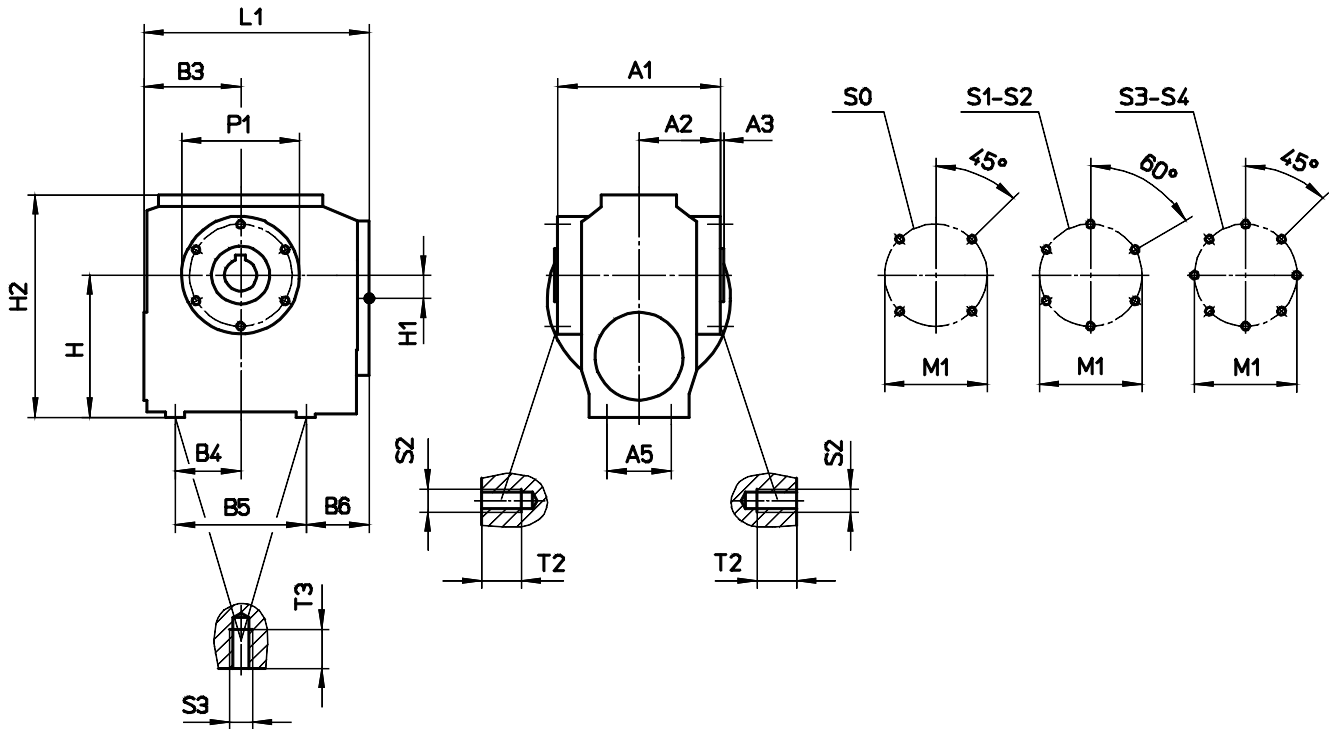


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D - Shaft mounted version + foot area



	A1	A2	A3	A5	B3	B4	B5	B6	H	H1	H2	L1	M1	P1	S2	T2	S3	T3
<b>S1</b>	116	58	2	50	69	46	82	54	95	10	151.5	159	87	99	M6	9	M8	12
<b>S2</b>	144	72	3	65	85	58	110	54	120	18	191	191	96	112	M8	12	M8	12
<b>S3</b>	168	84	3.5	70	100	67.5	135	65.5	145	24	229.5	233	106	122	M8	12	M10	15
<b>S4</b>	202	101	4	80	125	87.5	175	67.5	180	35	280	280	130	150	M10	15	M16	24

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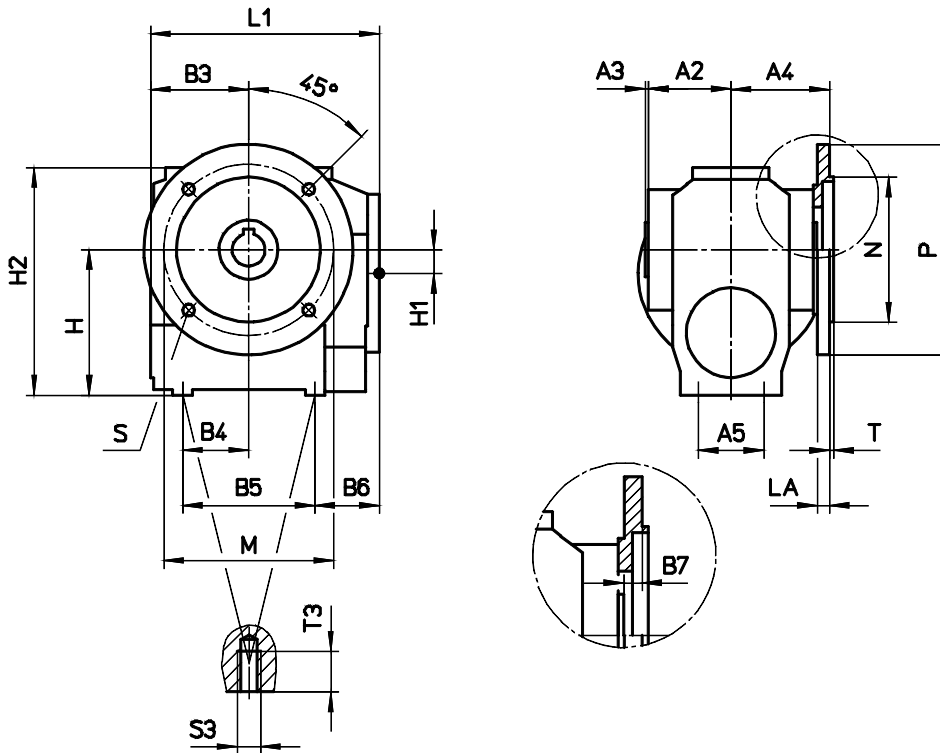


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## E - Flange mounted version + foot area



	A2	A3	A4	A5	B3	B4	B5	B6	B7	H	H1	H2	L1	S3	T3
<b>S1</b>	58	2	70	50	69	46	82	54	10	95	10	151.5	159	M8	12
<b>S2</b>	72	3	83	65	85	58	110	54	8	120	18	191	191	M8	12
<b>S3</b>	84	3.5	95	70	100	67.5	135	65.5	7.5	145	24	229.5	233	M10	15
<b>S4</b>	101	4	113	80	125	87.5	175	67.5	8	180	35	280	280	M16	24

	M	N	P	LA	T	S
<b>S1</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
<b>S2</b>	Ø130	Ø110 j6	Ø160	9	3.5	Ø9
	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
<b>S3</b>	Ø165	Ø130 j6	Ø200	10	3.5	Ø11
	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
<b>S4</b>	Ø215	Ø180 j6	Ø250	11	4	Ø13.5
	Ø265	Ø230 j6	Ø300	12	4	Ø13.5

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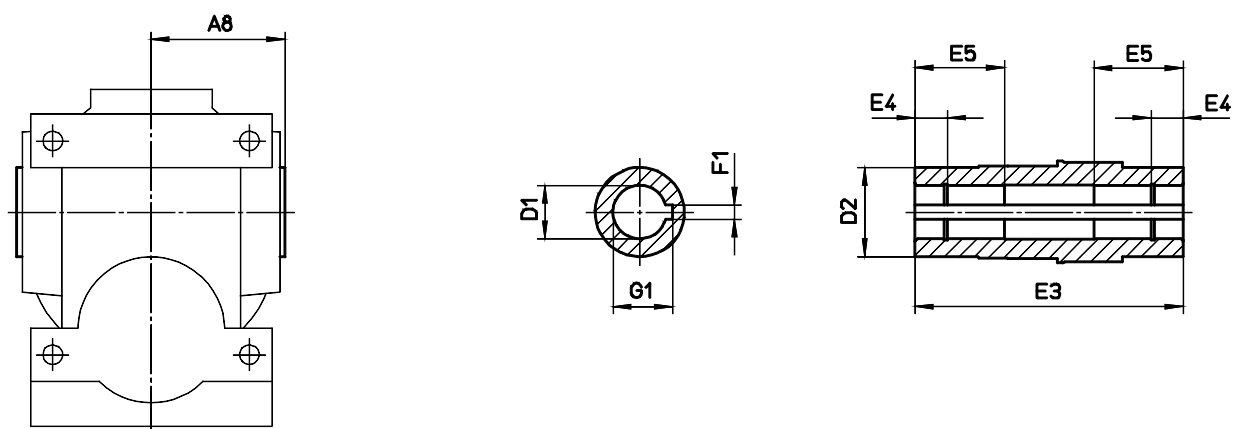


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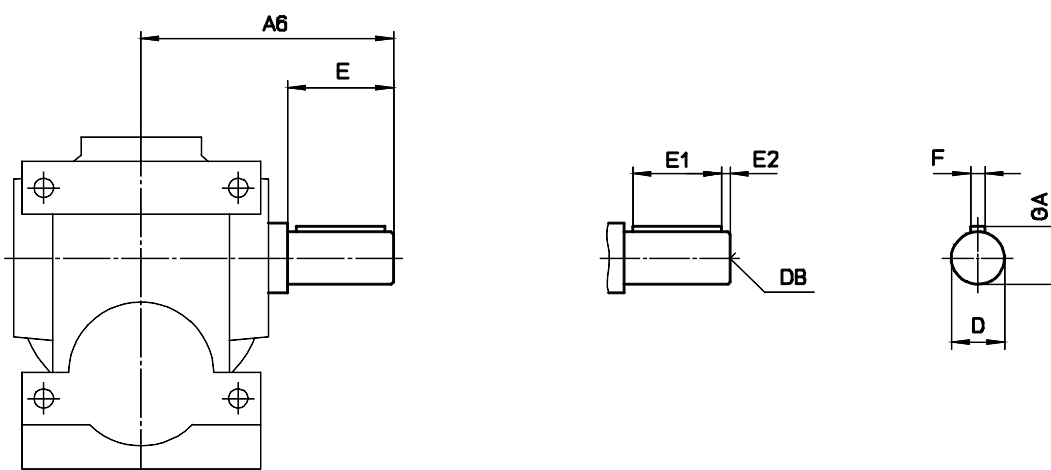
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## Hollow shaft with keyway



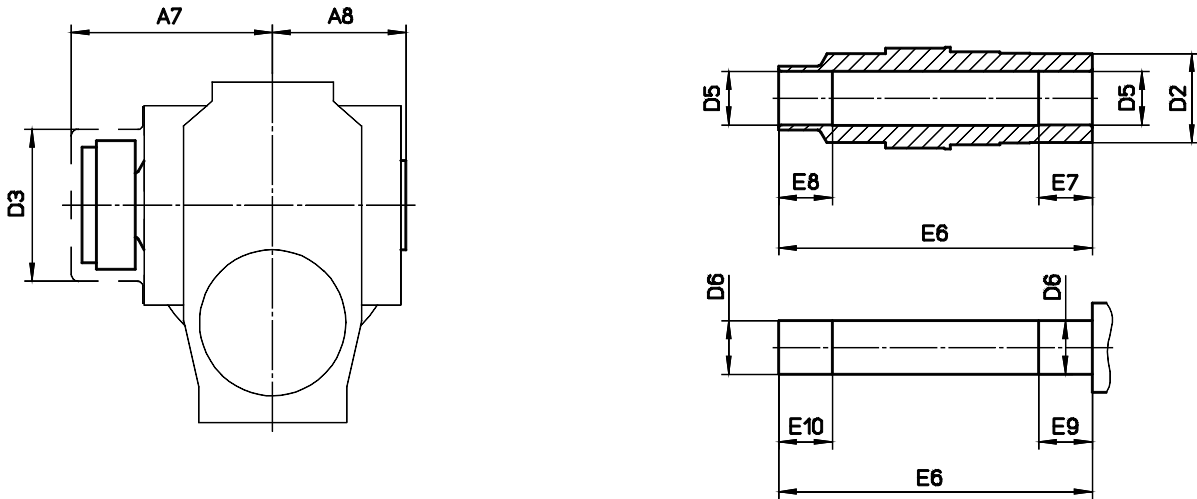
	A8	D1	D2	E3	E4	E5	F1	G1
<b>S0</b>	45	Ø20H7	35	90	14	-	6	22.8
<b>S1</b>	60	Ø25H7	45	120	15	-	8	28.3
<b>S2</b>	75	Ø30H7	50	150	18	-	8	33.3
		Ø35H7						
<b>S3</b>	87.5	Ø40H7	55	175	20	-	12	43.3
<b>S4</b>	105	Ø50H7	70	210	25	70	14	53.8

## V - Output shaft with key



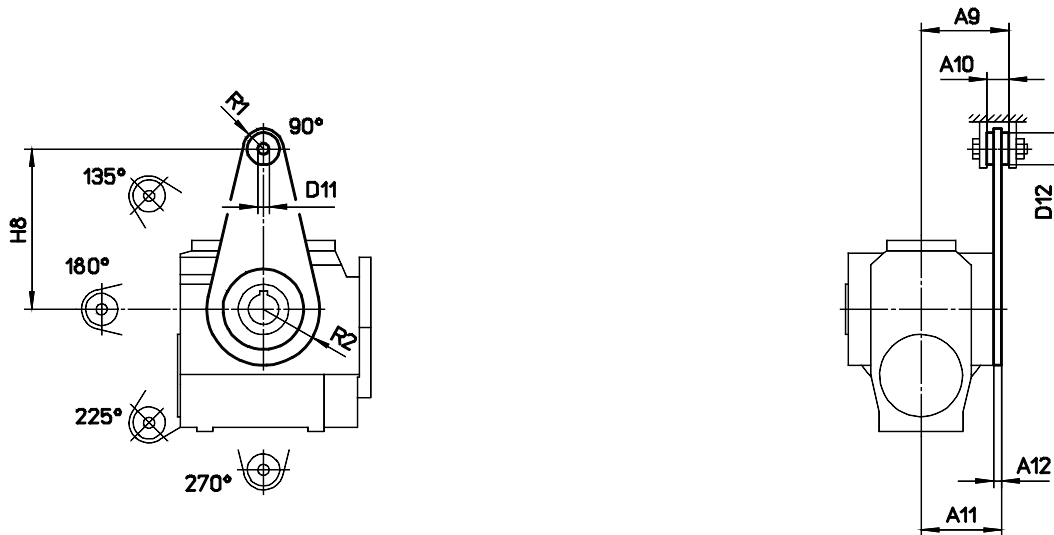
	A6	D	DB	E	E1	E2	F	GA
<b>S02A</b>	85	Ø20k6	M6	40	32	4	6	22.5
<b>S02C</b>	103	Ø25k6	M10	50	40	5	8	28
<b>S1</b>	120	Ø30k6	M10	60	50	5	8	33
		Ø35k6						
<b>S3</b>	175	Ø40k6	M16	80	70	5	12	43
<b>S4</b>	213	Ø50k6	M16	100	80	10	14	53.5

## S - Hollow shaft with shrink disc



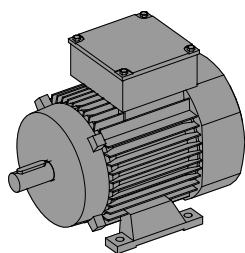
	A7	A8	D2	D3	D5	D6	E6	E7	E8	E9	E10
<b>S1</b>	98	60	45	77	Ø25H7	Ø25h6	143	25	25	27	27
<b>S2</b>	113	75	50	86	Ø30H7 Ø35H7	Ø30h6 Ø35h6	176	20	30	22	32
<b>S3</b>	127	87.5	55	96	Ø40H7	Ø40h6	202	20	40	22	42
<b>S4</b>	150	105	70	117	Ø50H7	Ø50h6	242	30	50	32	52

## T1 - Torque arm

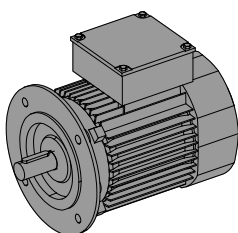


	A9	A10	A11	A12	D11	D12	H8	R1	R2
<b>S0</b>	52.5	15	47	4	11	32	100	20	43
<b>S1</b>	68.5	15	64	6	11	32	130	20	49.5
<b>S2</b>	87	22	80	8	11	32	160	20	56
<b>S3</b>	99	22	92	8	11	32	200	23	61
<b>S4</b>	121	32	109	8	17	40	250	30	75

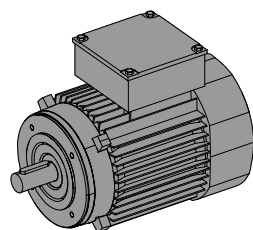
## Three phase motors



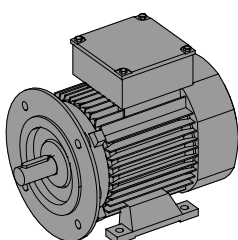
Foot mounted version B3  
Example: DM80GB4 – B3



Flange mounted version B5  
Example: DA132MB4 – B5



Flange mounted version B14  
Example: DM71G6 – B14K



Foot-flange mounted version B3/B5  
Example: DM90SB4 – B3/B5

**Technical characteristics**

The motors correspond to the following standards:

- DIN EN 60034 Rotating electrical machines, rating and performance.
- IEC60072 Totally enclosed fan-cooled motors with squirrel cage, fixing dimensions and allocation of rating.
- DIN42948 Mounting flanges for electrical machines

- Number of poles: 2 pole, 4 pole, 6 pole, 8 pole, 4/2 pole, 8/2 pole

- Protection standard IP54
- Insulation class 155
- Voltage/Frequency
  - Δ/Y 230/400V 50Hz 1)
  - Δ/Y 230/400V 50Hz // Y 460V 60Hz 1)
  - Δ/Y 400/690 V 50 Hz
  - Δ/Y 400/690 V 50 Hz // Δ 460V 60Hz
  - Δ/Y 290/500 V 50Hz (DM63..DM112)
  - Δ 500V 50Hz (DA132..DA225)
  - 200V 50Hz
  - 400V 87Hz (frequency inverter operation) 1)

1) Standard voltages  
Different voltages and frequencies are available.

Options:

- UL-Version
- CCC-Version
- Dust- and water protection IP65

More Motor Options:

- Explosion proof motor in accordance with ATEX, for use in zone 1, 2, 21, or 22
- Flame proof Motor EExd
- motors with noise reduced brake or with double brake
- Backstop RS
- Torque motor
- Single phase motor 230V 50Hz (service capacitor, Steinmetz circuit)

**Motor Power Pn**

The values given in the tables are valid for the following conditions:

- Duty cycle S1
- Maximum ambient temperature +40°C
- Installation altitude up to 1000m above mean sea level

The available motor power for different conditions is calculated as follows:  $P = P_n \cdot f_s \cdot f_t \cdot f_h$

**Factor fs for different duty type**

Duty type		fs
S1	Continuous duty. Operation with constant load. The motor reaches the thermal equilibrium.	1.0
S2-10min	Short term duty. Operation with constant load followed by a stop. During the stop the motor returns to the ambient temperature. Described by the duration of the load period in min.	1.4
S2-30min		1.25
S2-60min		1.1
S3-15%	Intermittent periodic duty. Operation with a sequence of identical cycles including a time of operation with constant load and a stop. Described by the cyclic duration factor in %.	1.4
S3-25%		1.3
S3-40%		1.2
S3-60%		1.1
S4 .. S10	Intermittent periodic duty. The start or stop phase of the motor is effecting the temperature raise. More data of the duty cycle are necessary.	On request

**Factor ft for different ambient temperature θ**

θ ≤ 40°C	ft=1.0
40°C < θ ≤ 50°C	ft=0.87
50°C < θ ≤ 60°C	ft=0.75

**Factor fh for different altitude h**

h ≤ 1000m	fh=1.0
1000m < h ≤ 2000m	fh=0.9
2000m < h ≤ 3000m	fh=0.8
3000m < h ≤ 4000m	fh=0.7
4000m < h ≤ 5000m	fh=0.6

**Permissible Radial Forces for the Output Shaft**

Motor	Output shaft d <sub>xl</sub> [mm]	K1 [mm]	FR1 [N]			
			3000 1/min	1500 1/min	1000 1/min	750 1/min
DM63	11x23	155.5	430	540	620	680
DM71	14x30	176	420	530	610	670
DM80	19x40	200	700	880	1010	1110
DM90	24x50	217	750	950	1080	1190
DM100	28x60	275	1050	1330	1520	1670
DM112	28x60	286	1520	1920	2190	2410
DA132	38x80	368.5	1670	2100	2410	2650
DA160	42x110	495	1790	2250	2580	2840
DA180	48x110	495	1870	2360	2060	2970
DA200	55x110	590.5	2820	3550	4070	4480
DA225	60x140	665.5	4910	6190	7090	7800

For selection condition formulas, see page 6/7



## Selection table

### Three phase motors 4 pole

Motor	Pn [kW]	n1 [1/min]	In (400V)	cos φ		η -Pn [%]	η -3/4 Pn [%]	η -1/2 Pn [%]	Ma/Mn	Ia/In	Mk/Mn	Jm [kgcm <sup>2</sup> ]	~kg	Brake
DM63K4	0.12	1380	0.47	0.61	IE2	61.3	60.7	53.6	2.1	3.0	2.4	4.5	2.1	B02
DM63G4	0.18	1380	0.55	0.70	IE2	66.5	65.7	60.3	2.4	3.4	2.4	5.1	2.8	B02
DM71K4	0.25	1410	0.79	0.64	IE2	71.4	69.8	63.9	2.5	4.3	2.9	6.4	5.6	B02
DM71G4	0.37	1410	1.00	0.71	IE2	75.5	75.9	72.1	2.5	4.6	2.8	7.2	7.3	B02
DM80K4	0.55	1405	1.46	0.70	IE2	77.4	77.5	74.7	2.5	4.6	2.8	9.4	12.8	B03/B02
DM80GB4	0.75	1425	1.81	0.72	IE3	82.5	83.2	80.9	3.1	5.8	3.2	12.4	20.6	B03/B02
DM90SB4	1.1	1445	2.50	0.76	IE3	84.1	83.9	82.1	3.5	7.0	4.1	16.6	31.3	B04/B03
DM90LB4	1.5	1455	3.35	0.76	IE3	85.3	84.9	82.5	3.7	8.1	4.3	24	50	B04
DM100LA4	2.2	1460	4.45	0.82	IE3	86.7	87.5	87.1	3.0	8.4	4.1	36	119	B05
DM100LE4	3	1455	6.2	0.80	IE3	87.7	88.0	87.0	3.1	7.8	3.8	36	119	B05
DM112MB4	4	1460	8.7	0.75	IE3	88.6	88.4	86.2	3.0	7.6	4.0	42	180	B06/B05
DA132SB4	5.5	1455	10.75	0.82	IE3	89.6	90.6	90.3	2.6	7.9	3.5	69	380	B06
DA132MB4	7.5	1460	15.4	0.78	IE3	90.4	90.9	90.5	2.5	7.8	3.9	69	380	B07/B06
DA160MB4	11	1465	19.7	0.88	IE3	91.4	91.8	91.5	2.5	8.3	3.4	100	690	B08
DA160LB4	15	1465	27.5	0.85	IE3	92.1	92.6	92.4	2.6	8.5	3.6	111	810	B09/B08
DA180MD4	18.5	1465	34	0.85	IE3	92.6	92.5	92.0	2.9	8.9	3.6	179	2500	B09
DA180LB4	22	1465	40.5	0.84	IE3	93.0	92.3	92.8	2.9	8.3	3.4	179	2500	B09
DA200LB4	30	1480	54	0.86	IE3	93.6	93.7	93.5	3.1	8.9	3.5	215	2900	B10/B09
DA225SD4	37	1475	65.7	0.87	IE3	93.9	94.5	94.1	2.8	8.8	3.3	330	3750	B10
DA225MD4	45	1475	82.1	0.84	IE3	94.2	94.8	94.8	3.9	8.4	2.9	430	4400	B10

Pn	Nominal power
n1	Nominal speed
In	Nominal current
cos φ	Power factor
η	Efficiency
Ma/Mn	Relative starting torque
Ia/In	Relative starting current
Mk/Mn	Relative pull-out torque
Jm	Inertia

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## Motor options

### B - Brake COMBISTOP

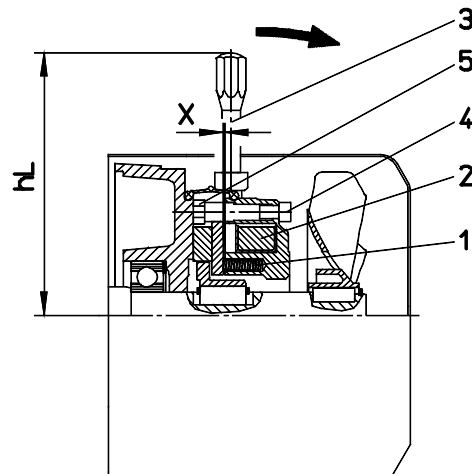
- spring-set twin-disc safety brake
- Protection standard: IP54
- connection via contacts in terminal box
- adjustment provision for wear of friction linings without dismantling
- torque reduction possible
- Standard voltages: 230VAC, 400VAC, 24VDC

Options:

- Manual brake release MB
- Dust- and water protection IP65

### Mode of Operation

The brake is released by direct-current excitation of the brake coil (2) or by a manual release unit MB (3) which can be attached as an option. Braking is achieved in power off condition by means of spring force (1). The adjusting screws (5) are used to adjust the nominal air gap (X) in case of wear.



### Technical Data

Brake	Mbr [Nm]	Mbred [Nm]	JB [kgcm <sup>2</sup> ]	P20 [W]	t2 [ms]	t11~ [ms]	t11= [ms]	WR0.1 [J*10 <sup>6</sup> ]	WRmax [J*10 <sup>3</sup> ]	X [mm]	Xn [mm]	hL [mm]	~kg
B02	5	2.5 / 2	0.3	25	40	70	10	7.5	5.3	0.2	0.4	106	1.4
B03	10	7.5	0.7	30	55	100	15	12.5	7.5	0.2	0.5	114	2.0
B04	20	15	1.4	30	90	180	25	19.1	18	0.2	0.6	128	3.6
B05	36	27	3.5	48	110	220	25	28.0	28	0.2	0.6	168	5.7
B06	70	53	5.6	62	240	260	25	28.8	38	0.3	1.0	176	9.1
B07	100		16	65	220	400	40	35.7	49	0.3	1.0	225	15
B08	150		30	75	320	700	50	44.2	56	0.4	1.2	235	24
B09	250	188	75	80	350	900	60	69.0	78	0.4	1.2	256	34
B10	500	375	210	130	400	1400	100	80.0	100	0.5	1.5	335	49

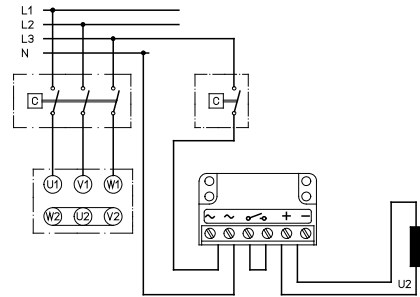
Mbr	Static braking torque after completed run-in phase
Mbred	possible reduced brake torques
JB	Inertia
P20	Excitation rating at 20°C
t2	Release time, time from connecting the current to the beginning of torque decrease
t11~	Engagement delay time for AC side switching (Fig. 1,3)
t11=	Engagement delay time for DC side switching (Fig. 2)
WR0.1	Time from disconnecting the current to the raise of the torque friction work until 0.1mm abrasion
WRmax	permissible friction work for emergency stop from 3000 1/min (B08..B10 - 1500 1/min)
X	Nominal clearance
Xn	Clearance, at which a readjustment is recommended

The specified switching times apply to nominal clearance and nominal torque. It relates to average values and depends on the type of rectification and coil temperature.

## Electrical Connection

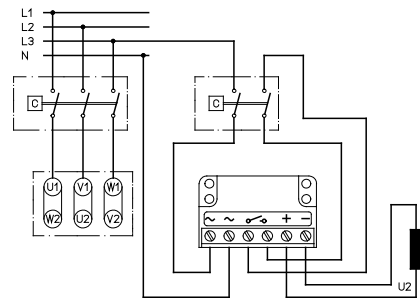
**Figure 1: AC side switching**

- The brake is switched independent from the motor voltage, Engagement delay time  $t_{11\sim}$
- Suitable for operation with frequency inverter



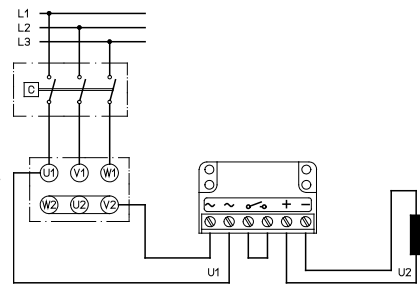
**Figure 2: DC side switching**

- The switching of the brake on AC and DC side leads to faster Engagement delay times  $t_{11=}$ .



**Figure 3: Brake ready for connection**

- Voltage supply from motor terminal board.
- The brake is switched together with the motor voltage, Engagement delay time  $t_{11\sim}$
- In comparison to Figure 1 the connection to the brake is made within the motor terminal box
- Not suitable for frequency inverter operation and for pole changing motors

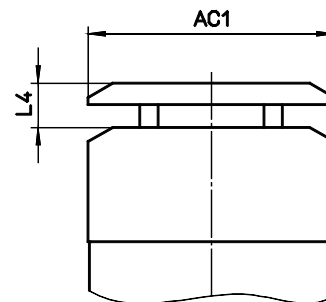


## Protection cowl

The protection cowl prevents the penetration of foreign objects or liquids when the motor is mounted in vertical position.

Motor	L4	AC1
DM63..DM80	26	122
DM90..DM112	30	176
DA132	42	230
DA160..DA225	43	240/338 1)

1) Dimension for forced ventilation

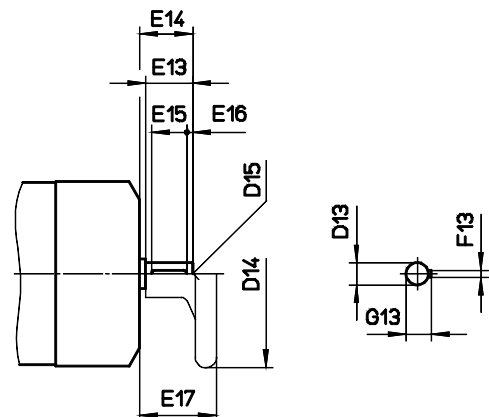


## Second shaft end WE and handwheel

The second shaft end can be used for fixing a handwheel or for radial force free transmission of the motor torque.

If radial forces apply to the second shaft end, please consult the manufacturer.

	D13	D14	D15	E13	E14	E15	E16	E17	F13	G13
DM63										
DM71	11	100	M4	23	28	16	3.5	44	4	12.5
DM80										
DM90	14	160	M5	30	35	22	4	44	5	16
DM100										
DM112										
DA132	19	160	M6	40	45	32	4	54	6	21.5
DA160										
DA180	38	250	M12	80	90	70	5	98.5	10	41
DA200										
DA225										



**F - Forced ventilation**

- Motors: DM71..DM225
- Standard voltages: 3~ 400V 50Hz/460V 60Hz, 3~ 230V 50/60Hz, 1~ 230V 50/60Hz
- connection via contacts in terminal box
- Protection standard IP65

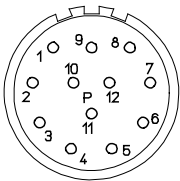
**Motor protection**

The following motor protection can be supplied:

- TW - PTC thermistor sensor
- TS - Thermorelay (closed)
- KTY - KTY sensor
- PT1000 - PT1000 sensor

**I - Incremental encoder**

- Signals: A, /A, B, /B, 0, /0
- Current consumption: 40mA / max. 90mA
- Permissible load / channel: ± 20 mA
- Protection standard: IP65
- ENCODER 5V TTL  
Pulses/Rev.: 2500 or 1024 or selectable from 10, 25, 50, 60, 100, 200, 250, 500, 512, 1000, 1200, 2000, 2048, 4000, 4096, 5000  
Interface: RS422, TTL  
Supply voltage: 5VDC ± 5%
- ENCODER 10-30V HTL  
Pulses/Rev.: 2500 or 1024 or selectable from 10, 25, 50, 60, 100, 200, 250, 500, 512, 1000, 1200, 2000, 2048, 4000, 4096, 5000  
Interface: HTL  
Supply voltage: 10-30VDC
- The encoder is mounted under the motor fan cowl for added protection

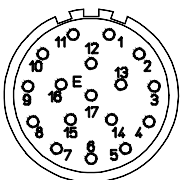


Signal connector 12pole, Counterplug optional

Pin	10	12	5	6	8	1	3	4
Signal	0V	+V	A	/A	B	/B	0	/0

**EAM - Absolute encoder multiturn**

- Resolution singleturn: 19bit
- Resolution multiturn: 12bit (4096 rev)
- Code type: BiSS, binary code
- Supply voltage: 5VDC ± 5%
- Current consumption: max. 80mA
- Permissible load / channel: ± 20 mA
- Protection standard: IP65
- The encoder is mounted under the motor fan cowl for added protection



Signal connector 17pole, Counterplug optional

Pin	10	7	8	9	14	17	1	2
Signal	0V	+V	clock	/clock	data	/data	set	dir

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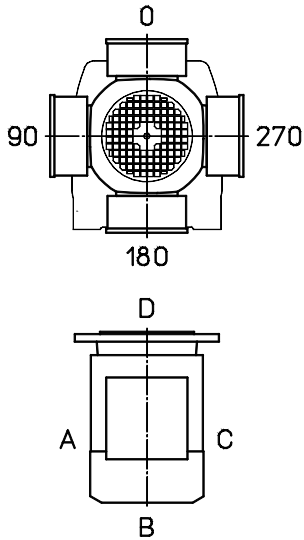


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# Motor options

## Position of terminal box



Example: 270C is for terminal box at 270  
Cable lead in C

The position of other motor options (manual brake release, connection of forced ventilation, connection of encoder) is specified with the same method, independently, if different from position of terminal box.

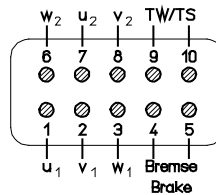
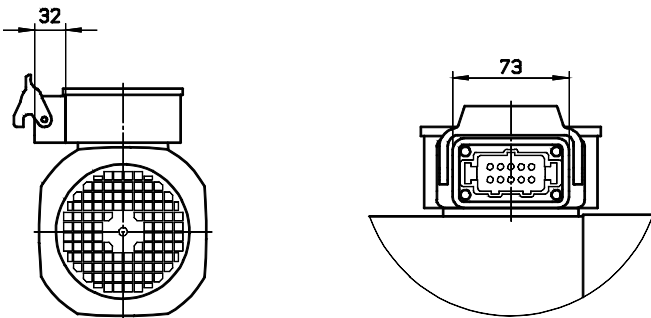
Example: 90A, Manual brake release 270

## Cable lead in

	normal	TW	B F	B + TW B + F F + TW	B + TW + F
DM63..DM112	1xM25	2xM25	2xM25	2xM25+1xM16	1xM25+3xM16
DA132	2xM32	2xM32+1xM16	2xM32	2xM32+1xM16	2xM32+1xM16
DA160..DA180	2xM40	2xM40+1xM16	2xM40	2xM40+1xM16	2xM40+1xM16
DA200..DA225	2xM50	2xM50+1xM16	2xM50	2xM50+1xM16	2xM50+1xM16

- B Brake
- TW Motor protection TW, TS, KTY or PT
- F Forced ventilation

## Plug connector HAN 10ES

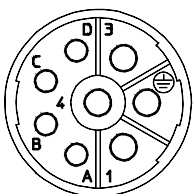


System: HAN 10ES (Harting)  
U<sub>max</sub>=500VAC, I<sub>max</sub> = 16A

Forced ventilation, incremental encoder or brake with manual release are mounted 90° or 270° to the plug connector.

## Plug connector M23

Motors: DM63..DM112

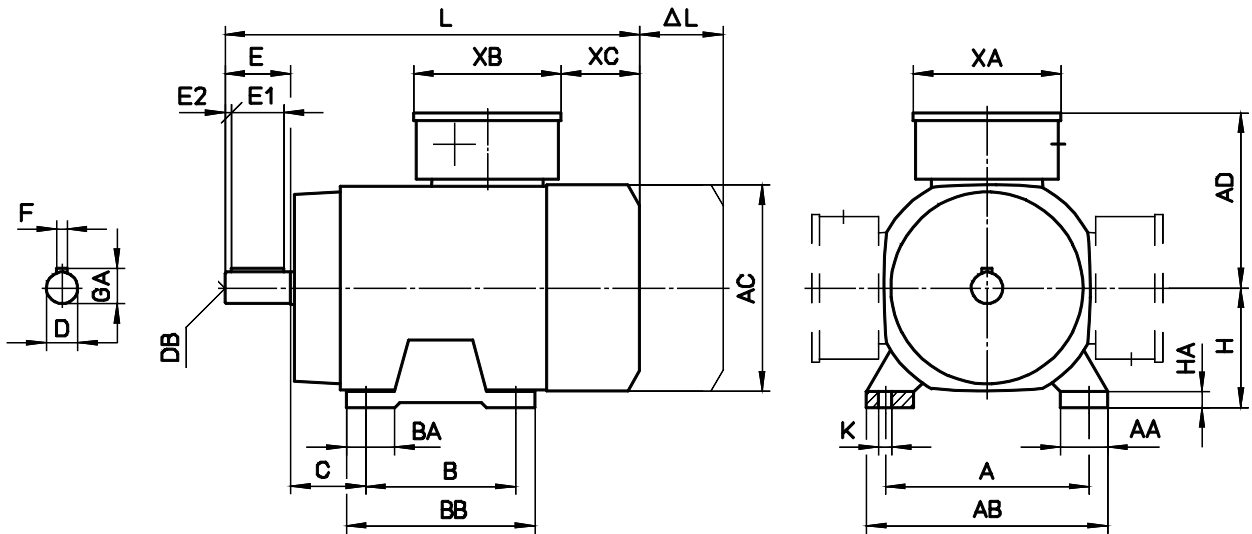


Power connector Size 1, 8pole, Counterplug optional  
Brake: U<sub>max</sub>=250V

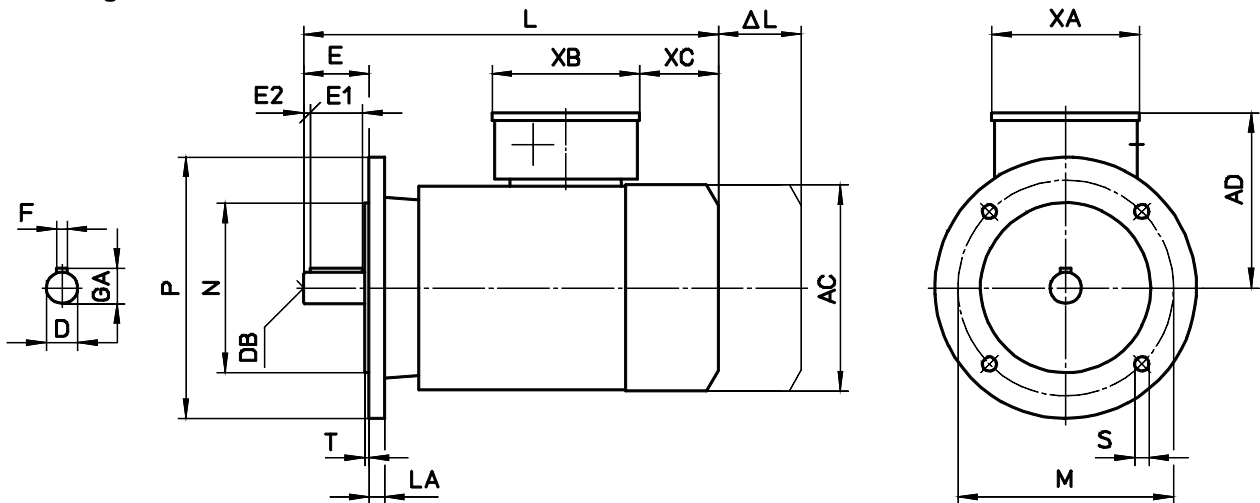
Pin	1	2	3	4	A	B	C	D
Signal	U	PE	W	V	Brake +	Brake -	TW	TW

## Dimensions

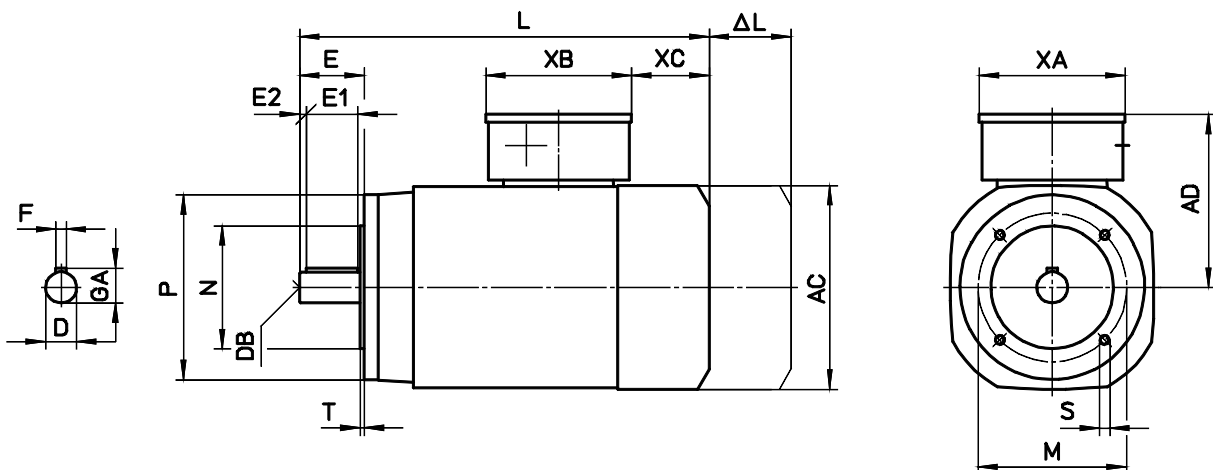
### B3 - Foot mounted version



### B5 - Flange mounted version



### B14 - Flange mounted version



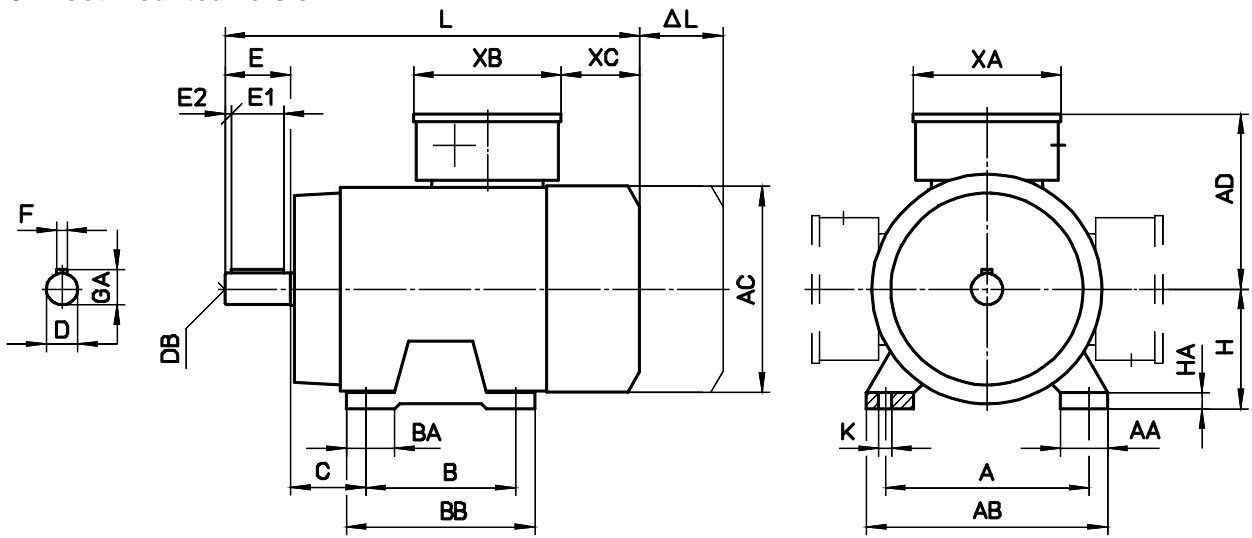
## Dimensions

	DM63	DM71	DM80GB	DM90SB	DM90LB	DM100LA DM100LE	DM112MB
<b>B3</b>							
A		112	125	140	140	160	190
AA		26.5	25	25	27.5	29	30
AB		136	150	165	170	190	220
B		90	100	100	125	140	140
BA		22	25	27.5	27.5	42	40.5
BB		108	120	150	150	170	175
C		45	50	56	56	63	70
H		71	80	90	90	100	112
HA		6	8	10	8	8	10
K		Ø7	Ø10	Ø10	Ø10	Ø12	Ø12
<b>B5</b>							
LA		10	10	10	10	11	11
M		Ø130	Ø165	Ø165	Ø165	Ø215	Ø215
N		Ø110	Ø130	Ø130	Ø130	Ø180	Ø180
P		Ø160	Ø200	Ø200	Ø200	Ø250	Ø250
S		Ø10	Ø11	Ø11	Ø11	Ø14	Ø14
T		3.5	3.5	3.5	3.5	4	4
<b>B14G</b>							
M		Ø115	Ø130	Ø130	Ø130	Ø165	Ø165
N		Ø95	Ø110	Ø110	Ø110	Ø130	Ø130
P		Ø140	Ø160	Ø160	Ø160	Ø200	Ø200
S		M8	M8	M8	M8	M10	M10
T		3	3.5	3.5	3.5	3.5	3.5
<b>B14K</b>							
M	Ø75	Ø85	Ø100	Ø115	Ø115	Ø130	Ø130
N	Ø60	Ø70	Ø80	Ø95	Ø95	Ø110	Ø110
P	Ø90	Ø105	Ø120	Ø140	Ø140	Ø160	Ø160
S	M5	M6	M6	M8	M8	M8	M8
T	2.5	2.5	3	3	3	3.5	3.5
D	11k6	14k6	19k6	24k6	24k6	28k6	28k6
DB	M4	M5	M6	M8	M8	M10	M10
E	23	30	40	50	50	60	60
E1	16	22	32	40	40	50	50
E2	3.5	4	4	5	5	5	5
F	4	5	6	8	8	8	8
GA	12.5	16	21.5	27	27	31	31
AC	110	124	140	158	178	198	198
AD	113.5	122	129	136.5	145.5	155.5	155.5
XA	113	113	113	113	113	113	113
XB	113	113	113	113	113	113	113
XC	45.5	56.5	54	60	73	72.5	72.5
L	210.5	238.5	268	317	351	374	399
<b>ΔL</b>							
B	59	57	66	74	79	86	86
RS	0	0	0	0	0	0	0
I	56	56	56	56	56	56	56
EAM	84	89	97	107	121	126	126
F		90	93	98	106	113	113
B I	115	113	122	130	135	142	142
B EAM	143	146	163	181	200	212	212
B F		135	143	170	187	199	199
F I		168	143	140	139	149	149
F EAM		168	170	170	187	199	199
B F I		183	190	194	214	226	226
B F EAM		213	222	236	247	262	262

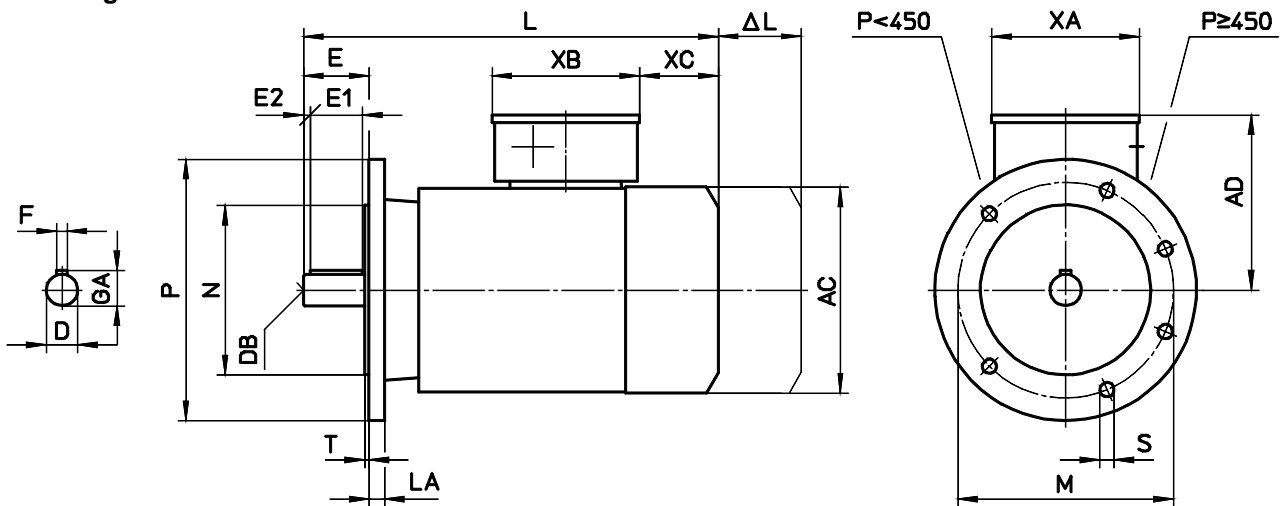
B Brake  
I Incremental encoder  
F Forced ventilation

RS Backstop  
EAM Absolute encoder multiturn

**B3 - Foot mounted version**



**B5 - Flange mounted version**





## Dimensions

	DA132SB4 DA132MB4	DA160MB4 DA160LB4	DA180MD4 DA180LB4	DA200LB4	DA225SD4	DA225MD4
<b>B3</b>						
A	216	254	279	318	356	356
AA	50.5	69	74	100	108	87
AB	260	320	352	403	440	440
B	140	210	241	305	286	311
BA	50	62	75	95	70	70
BB	218	260 304	300 340	380	341	366
C	89	108	121	133	149	149
H	132	160	180	200	225	225
HA	18	22	20	27	35	35
K	Ø12	Ø14	Ø14	Ø18	Ø18	Ø18
<b>B5</b>						
LA	12	13	13	15	16	16
M	Ø265	Ø300	Ø300	Ø350	Ø400	Ø400
N	Ø230	Ø250	Ø250	Ø300	Ø350	Ø350
P	Ø300	Ø350	Ø350	Ø400	Ø450	Ø450
S	Ø14	Ø18	Ø18	Ø18	Ø18	Ø18.5
T	4	5	5	5	5	5
D	38k6	42k6	48k6	55m6	60m6	60m6
DB	M12	M16	M16	M20	M20	M20
E	80	110	110	110	140	140
E1	70	100	100	100	125	125
E2	5	5	5	5	7.5	7.5
F	10	12	14	16	18	18
GA	41	45	51.5	59	64	64
AC	256.5	311	356	356	356	433
AD	196	250	291	291	299	338
XA	117	140	226	226	226	226
XB	142	140	226	226	226	226
XC	88	107.5	204.5	298.5	328.5	237
L	520	627	688	807	897	807
<b>ΔL</b>						
B	132	120	185	116	116	121
RS	0	120	185	116	116	-
I	93	96	96	96	96	95
EAM	93	96	96	96	96	95
F	132	120	363	294	294	121
B I	225	216	281	212	212	216
B EAM	225	216	281	212	212	216
B F	246	314	363	294	294	303
F I	246	314	363	294	294	303
F EAM	246	314	363	294	294	303
B F I	246	314	363	294	294	303
B F EAM	246	314	363	294	294	303

B Brake  
I Incremental encoder  
F Forced ventilation

RS Backstop  
EAM Absolute encoder multiturn

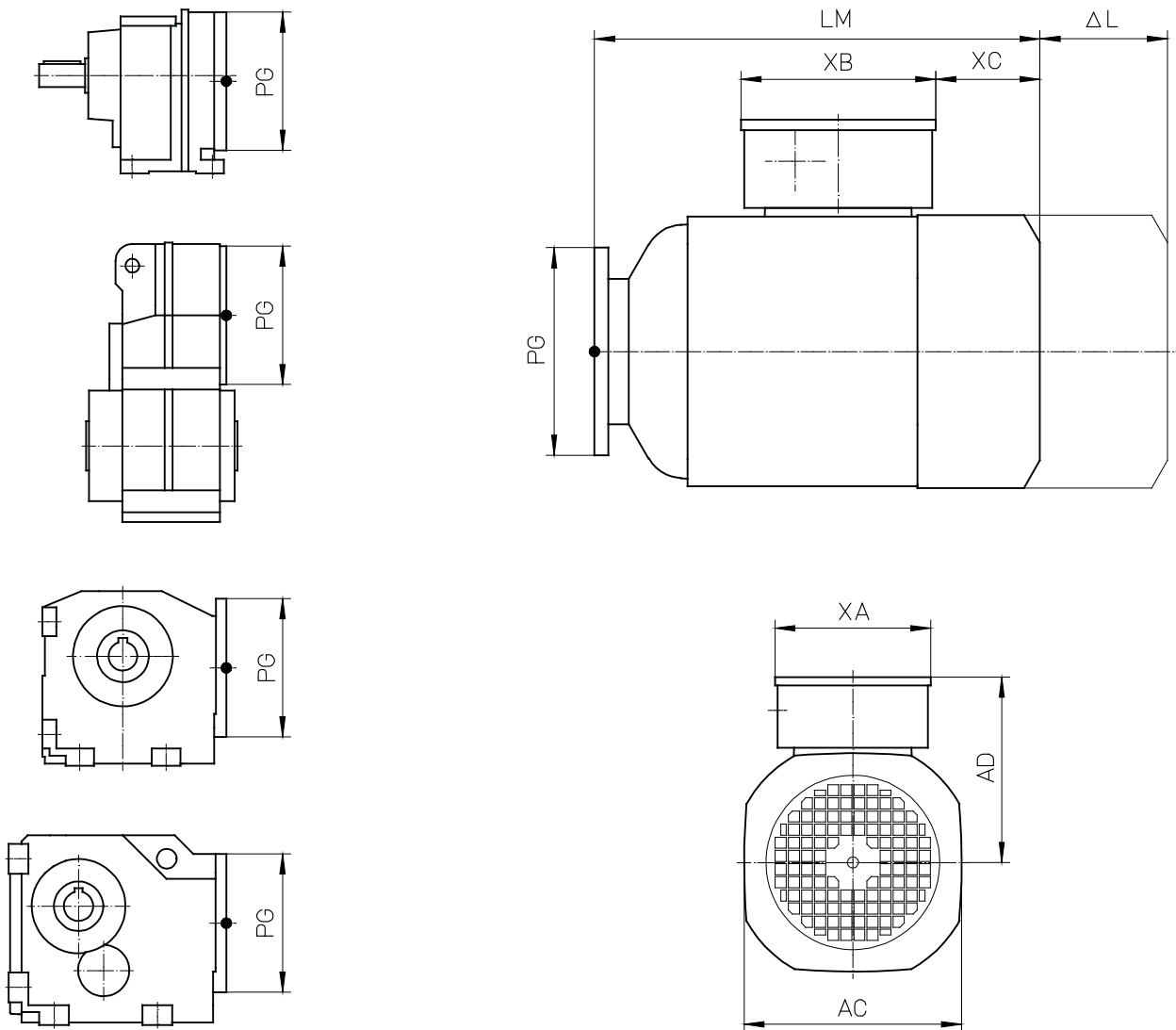
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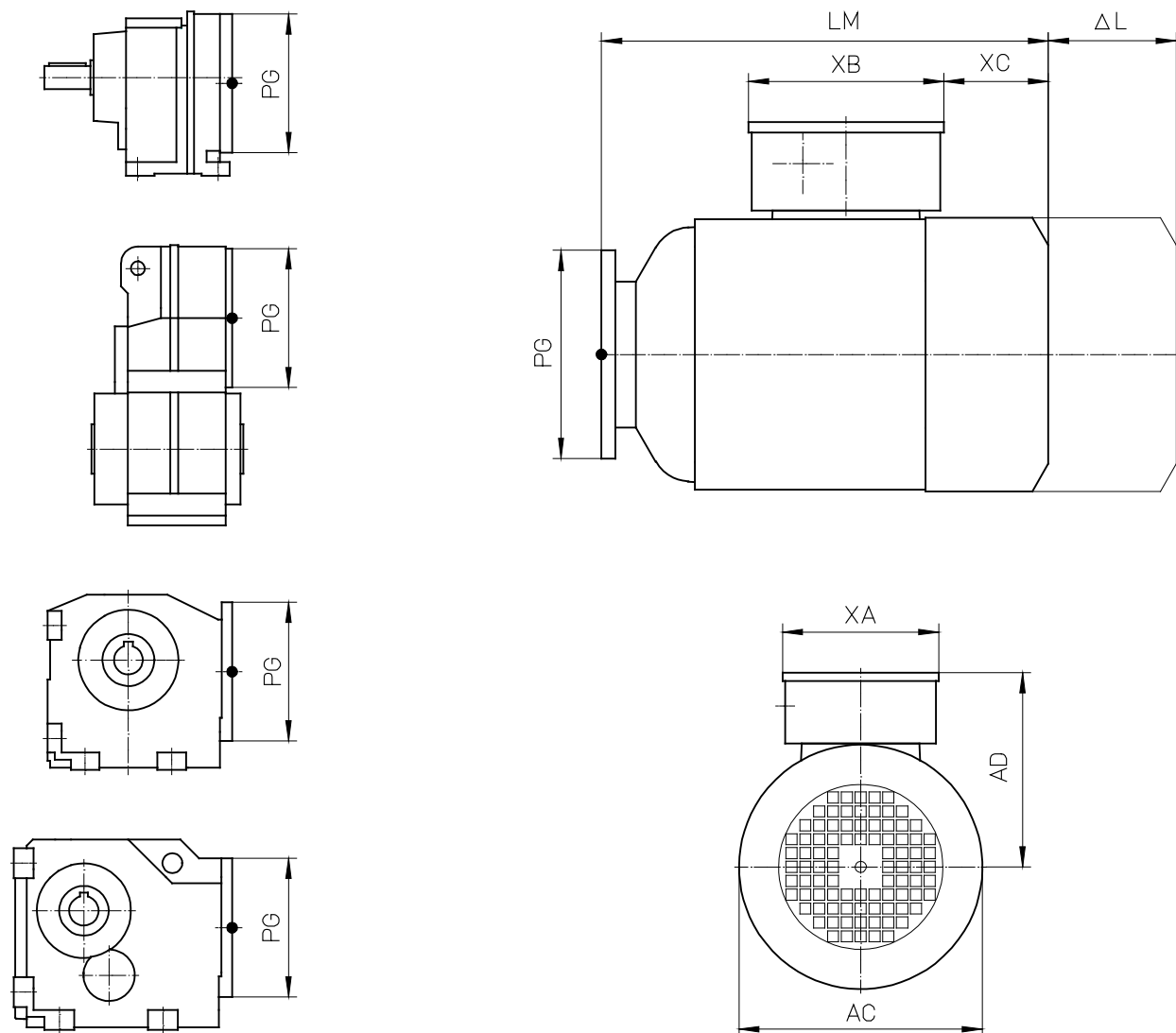
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	DM63	DM71	DM80GB	DM90SB	DM90LB	DM100LA DM100LE	DM112MB		
<b>AC</b>	110	124	140	158	178	198	198		
<b>AD</b>	113.5	122	129	136.5	145.5	155.5	155.5		
<b>XA</b>	113	113	113	113	113	113	113		
<b>XB</b>	113	113	113	113	113	113	113		
<b>XC</b>	45.5	56.5	54	60	73	72.5	72.5		
<b>LM</b>								<b>PG</b>	<b>Gear unit</b>
	202	224.5	245.5					105	<b>G0,S0,K0</b>
	201	224.5	244.5	283	320			120	<b>G1,S1,F2,K1,K2</b>
	198	220.5	241.5	278	314.5	334.5	359.5	140	<b>G2,S2,F3,K3</b>
	198.5	220	242	278.5	314.5	333.5	358.5	160	<b>G3,S3,F4,K4</b>
		216.5	237.5	276	309.5	329	354	200	<b>G4,S4,F5,K5</b>
			232.5	271	303.5	324	349	250	<b>G5,F6,K6</b>
				264	299.5	317	342	300	<b>G6,F7,K7</b>
				294.5	312	337	350	<b>G7,F8,K8</b>	

## Dimensions



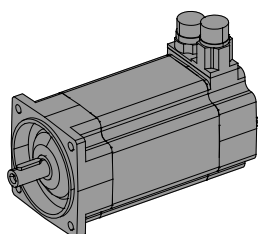
	DA132SB4 DA132MB4	DA160MB4 DA160LB4	DA180MD4 DA180LB4	DA200LB4	DA225SD4	DA225MD4		
<b>AC</b>	256.5	311	356	356	356	433		
<b>AD</b>	196	250	291	291	299	338		
<b>XA</b>	117	140	226	226	226	226		
<b>XB</b>	142	140	226	226	226	226		
<b>XC</b>	88	107.5	204.5	298.5	328.5	237		
<b>LM</b>	484						<b>PG</b>	<b>Gear unit</b>
	480.5	539.5					160	<b>G3,S3,F4,K4</b>
	477	532	589	708			200	<b>G4,S4,F5,K5</b>
	470	526	583	702			250	<b>G5,F6,K6</b>
	462	522	577.5	696.5	756.5	687.5	300	<b>G6,F7,K7</b>
	445.5	503.5	560.5	679.5	739.5	670.5	350	<b>G7,F8,K8</b>
		491.5	548	667	727	658	400	<b>G8,K9</b>
						450	<b>G9</b>	

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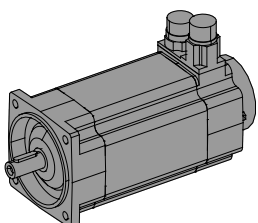


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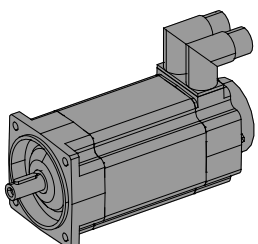
## Servo motors TA



Encoder system ER  
Resolver  
Plug connector radial  
Example: TA2S VD0 ER TW



Encoder system EN02  
Absolute encoder singleturn BiSS-C  
Plug connector radial  
Example: TA52 V30 EN02 TW



Encoder system EN05  
Absolute encoder multiturn HIPERFACE  
Right angle plug connector, turnable  
Example: TA41 V40 EN05 TW

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## Technical characteristics

AC servo-motor, suitable for KEB frequency inverter

Standard version:

- Protection standard IP54
- Insulation class 155
- PTC thermistor sensor
- Nominal voltage Un=400V or Un=230V
- Number of poles: 6-pole

Options:

- UL-Version
- Dust- and water protection IP65

The motors correspond to the following standards:

DIN EN 60034 Rotating electrical machines, rating and performance.  
 DIN 42948 Mounting flanges for electrical machines

### Nominal torque Mn

The values given in the tables are valid for the following conditions:

- Duty cycle S1
- Maximum ambient temperature +40°C

$$\text{reduced motor torque at ambient temperature } 40^{\circ}\text{C} < \theta \leq 80^{\circ}\text{C: } M_{th} = M_n \cdot \left( \frac{145^{\circ}\text{C} - \theta}{105^{\circ}\text{C}} \right)$$

- Installation altitude up to 1000m above mean sea level

### selection conditions at periodical load

$$M_a = \sqrt{\frac{1}{t} \cdot \sum_i M_{ai}^2 \cdot t_i} \leq M_n$$

$$M_{amax} = \max(M_{ai}) \leq M_{max}$$

Mn [Nm] Nominal torque Servo motor  
 Mmax [Nm] Maximum torque Servo motor  
 Ma [Nm] Actual average load torque  
 Mamax [Nm] Maximum load torque  
 Mai [Nm] Load torque of cycle i  
 ti [s] Duration of cycle i  
 t [s] Total time  $t = \sum_i t_i$

### Permissible Radial Forces for the Output Shaft

Motor	Output shaft dxl [mm]	K1 [mm]	FR1 [N]				
			1500 1/min	2000 1/min	3000 1/min	4500 1/min	6000 1/min
TA1S	9x20	111	430	390	340	295	270
TA1M	9x20	141	455	410	360	315	285
TA2S	14x30	134.5	470	425	370	325	295
TA2M	14x30	174.5	500	455	395	345	310
TA2L	14x30	214.5	515	470	410	355	320
TA3S	19x40	153	775	700	610	535	485
TA3M	19x40	203	830	750	660	570	520
TA3L	19x40	253	860	780	680	595	540
TA41	24x50	221.5	890	810	710	610	560
TA42	24x50	256.5	920	830	720	630	570
TA43	24x50	291.5	930	850	740	640	580
TA51	32x58	241.5	1620	1460	1280	1110	1010
TA52	32x58	276.5	1660	1500	1310	1140	1030
TA53	32x58	311.5	1690	1530	1330	1160	1050
TA61	38x80	340.5	2550	2310	2010	1750	1580
TA62	38x80	410.5	2630	2380	2060	1790	1620
TA63	38x80	480.5	2670	2420	2090	1810	1640

For selection condition formulas, see page 6/7

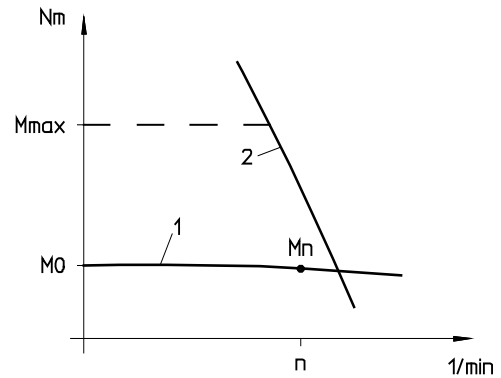
## Selection table

### Selection table

Motor	M0 [Nm]	Mn [Nm]	Mmax [Nm]	~kg	Jm [kgcm <sup>2</sup> ]	400V					230V				
						V	I0 [A]	R <sub>u-v</sub> [Ω]	L <sub>u-v</sub> [mH]	kEpk [mV*min]	V	I0 [A]	R <sub>u-v</sub> [Ω]	L <sub>u-v</sub> [mH]	kEpk [mV*min]
<b>1500 1/min</b>															
TA61	34.5	31.5	103.5	33	77.71	10	11.1	2.323	19.302	278.64	A0	21.5	0.635	5.256	145.43
TA61F	48	43.5	103.5	36	77.71	10	15.4	2.323	19.302	278.64	A0	30	0.635	5.256	145.43
TA62	50	44	150	44	113.71	10	16.4	1.2	12.356	273.51	A0	31	0.345	3.515	145.89
TA62F	70	61	150	47	113.71	10	23	1.2	12.356	273.51	A0	43.5	0.345	3.515	145.89
TA63	64	55	192	54	149.7	10	21.5	0.783	8.867	267.65	A0	39.5	0.232	2.637	145.9
TA63F	90	82	192	57	149.7	10	30	0.783	8.867	267.65	A0	55	0.232	2.637	145.9
<b>2000 1/min</b>															
TA41	6.9	6.6	20.7	7.5	5.65	20	3.15	13.812	32.931	198.16	B0	6.2	3.601	8.499	100.46
TA42	9.2	8.6	27.6	10.3	8.15	20	4	8.388	23.631	205.81	B0	8	2.096	5.905	102.86
TA43	11.7	10.8	35.1	13	10.65	20	5	5.554	18.36	209.53	B0	10.4	1.309	4.278	101.12
TA51	11.5	10.8	34.5	13.3	14.9	20	5	7.336	27.341	205.42	B0	11	1.521	5.679	93.88
TA51F	16	15	34.5	16.3	14.9	20	7	7.336	27.341	205.42	B0	15.3	1.521	5.679	93.88
TA52	16.1	14.7	48.3	16.7	21.53	20	6.9	4.114	19.124	210.74	B0	15.8	0.828	3.594	91.4
TA52F	22	20	48.3	19.7	21.53	20	9.4	4.114	19.124	210.74	B0	21.5	0.828	3.594	91.4
TA53	20	17.7	60	21	28.15	20	8.7	2.553	13.752	206.64	B0	19.2	0.513	2.839	93.84
TA53F	30	27	60	24	28.15	20	13.1	2.553	13.752	206.64	B0	28.8	0.513	2.839	93.84
TA61	34.5	30	103.5	33	77.71	20	15.1	1.259	10.558	206.2	B0	30.2	0.31475	2.6395	103.1
TA61F	48	41.5	103.5	36	77.71	20	21	1.259	10.558	206.2	B0	42	0.31475	2.6395	103.1
TA62	50	41	150	44	113.71	20	22.5	0.649	6.638	200.37	B0	45	0.16225	1.6595	100.185
TA62F	70	57	150	47	113.71	20	31.5	0.649	6.638	200.37	B0	63	0.16225	1.6595	100.185
TA63	64	50	192	54	149.7	20	29.5	0.413	4.687	194.54	B0	59	0.10325	1.17175	97.27
TA63F	90	75	192	57	149.7	20	41.5	0.413	4.687	194.54	B0	83	0.10325	1.17175	97.27
<b>3000 1/min</b>															
TA3S	2.9	2.6	8.7	3.7	1.13	30	1.81	24.755	59.82	141.33	C0	3.47	6.606	15.8	73.99
TA3M	4.95	4.5	14.85	5	1.95	30	3	11.606	28.1	144.769	C0	5.78	3.105	7.75	75.737
TA3L	6.8	5.7	20.4	6.3	2.76	30	4	7.04	20	149.596	C0	7.97	1.826	4.86	76.236
TA41	6.9	6.3	20.7	7.5	5.65	30	4.45	6.995	16.493	139.96	C0	9.1	1.674	3.919	68.26
TA42	9.2	8.1	27.6	10.3	8.15	30	5.9	3.727	11.042	140.55	C0	11.8	0.955	2.761	70.28
TA43	11.7	10.1	35.1	13	10.65	30	7.3	2.611	8.735	144.54	C0	14.6	0.654	2.183	72.25
TA51	11.5	10.2	34.5	13.3	14.9	30	7.4	3.441	12.71	140.06	C0	14.8	0.86025	3.1775	70.03
TA51F	16	14	34.5	16.3	14.9	30	10.3	3.441	12.71	140.06	C0	20.6	0.86025	3.1775	70.03
TA52	16.1	13.5	48.3	16.7	21.53	30	10.3	1.815	8.498	140.47	C0	20.6	0.45375	2.1245	70.235
TA52F	22	18	48.3	19.7	21.53	30	14.1	1.815	8.498	140.47	C0	28.2	0.45375	2.1245	70.235
TA53	20	16.1	60	21	28.15	30	12.8	1.279	6.39	140.83	C0	25.6	0.31975	1.5975	70.415
TA53F	30	24	60	24	28.15	30	19.2	1.279	6.39	140.83	C0	38.4	0.31975	1.5975	70.415
TA61	34.5	26	103.5	33	77.71	30	21.5	0.635	5.256	145.43	C0	43	0.15875	1.314	72.715
TA61F	48	36	103.5	36	77.71	30	30	0.635	5.256	145.43	C0	60	0.15875	1.314	72.715
TA62	50	33	150	44	113.71	30	31	0.345	3.515	145.89	C0	62	0.08625	0.87875	72.945
TA62F	70	46	150	47	113.71	30	43.5	0.345	3.515	145.89	C0	87	0.08625	0.87875	72.945
TA63	64	37	192	54	149.7	30	39.5	0.232	2.637	145.9	C0	79	0.058	0.65925	72.95
TA63F	90	55	192	57	149.7	30	55	0.232	2.637	145.9	C0	110	0.058	0.65925	72.95
<b>4500 1/min</b>															
TA1S	0.5	0.49	1.5	1.5	0.136	40	0.62	138.339	113.2	81.911	D0	1.13	39.952	28.8	41.599
TA1M	1	0.99	3	1.9	0.2	40	1	73.082	57	90.686	D0	1.99	17.055	14.58	45.795
TA2S	1.4	1.39	4.2	2.2	0.391	40	1.29	40.535	54.9	97.828	D0	2.6	10.715	13.59	48.256
TA2M	2.4	2.2	7.2	2.9	0.66	40	2.14	18.504	26.6	99.123	D0	4.31	4.37	6.53	49.703
TA2L	3.3	3	9.9	3.6	0.927	40	2.95	10.846	19.07	99.241	D0	5.81	2.635	4.5	51.103
TA3S	2.9	2.45	8.7	3.7	1.13	40	2.65	11.083	29.3	98.13	D0	5.29	2.781	6.397	49.225
TA3M	4.95	4	14.85	5	1.95	40	4.43	4.965	12.84	100.189	D0	9.12	1.292	3.08	48.689
TA3L	6.8	4.7	20.4	6.3	2.76	40	6.16	2.885	8.27	100.264	D0	12.33	0.773	2.05	50.025
TA41	6.9	5.7	20.7	7.5	5.65	40	6.5	3.165	7.611	95.05	D0	13.3	0.76	1.835	46.73
TA42	9.2	7.1	27.6	10.3	8.15	40	8.5	1.766	5.295	97.35	D0	17	0.446	1.324	48.68
TA43	11.7	8.6	35.1	13	10.65	40	11.2	1.12	3.69	93.94	D0	24.5	0.233	0.786	43.36
TA51	11.5	9	34.5	13.3	14.9	40	11	1.521	5.679	93.88	D0	22	0.38025	1.41975	46.94
TA51F	16	12.5	34.5	16.3	14.9	40	15.3	1.521	5.679	93.88	D0	30.6	0.38025	1.41975	46.94
TA52	16.1	11.3	48.3	16.7	21.53	40	15.8	0.828	3.594	91.4	D0	31.6	0.207	0.8985	45.7
TA52F	22	15.4	48.3	19.7	21.53	40	21.5	0.828	3.594	91.4	D0	43	0.207	0.8985	45.7
TA53	20	10.4	60	21	28.15	40	19.2	0.513	2.839	93.84	D0	38.4	0.12825	0.70975	46.92
TA53F	30	15.5	60	24	28.15	40	28.8	0.513	2.839	93.84	D0	57.6	0.12825	0.70975	46.92

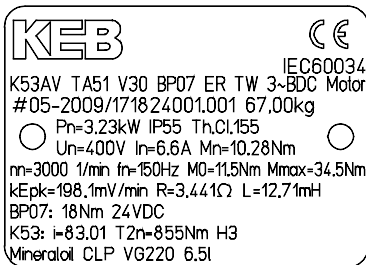
Motor	M0 [Nm]	Mn [Nm]	Mmax [Nm]	~kg	Jm [kgcm <sup>2</sup> ]	400V					230V									
						V	I0 [A]	R_u-v [Ω]	L_u-v [mH]	kEpk [mV*min]	V	I0 [A]	R_u-v [Ω]	L_u-v [mH]	kEpk [mV*min]					
<b>6000 1/min</b>																				
TA1S	0.5	0.48	1.5	1.5	0.136	60	0.72	103.019	67.5	64.433	F0	1.27	23.458	18.32	33.264					
TA1M	1	0.98	3	1.9	0.2	60	1.26	43.072	34.9	70.757	F0	2.77	11.423	8.9	35.227					
TA2S	1.4	1.38	4.2	2.2	0.391	60	1.75	23.385	30.4	73.406	F0	3.49	5.842	7.64	37.076					
TA2M	2.4	2	7.2	2.9	0.66	60	2.82	9.997	15.28	76.021	F0	5.79	2.214	4.3	38.174					
TA2L	3.3	2.6	9.9	3.6	0.927	60	3.96	5.451	9.91	76.575	F0	7.7	1.484	2.57	39.25					
TA3S	2.9	2.25	8.7	3.7	1.13	60	3.52	6.606	15.8	73.99	F0	7.18	1.769	3.59	35.166					
TA3M	4.95	3.3	14.85	5	1.95	60	6	3.105	7.75	75.737	F0	12.21	0.836	1.773	37.591					

- n Nominal speed
- M0 Stall torque
- Mn Nominal torque S1
- Mmax Maximum torque
- ~kg Weight
- Jm Inertia
- V Type of motor winding
- I0 Current at stall torque
- R\_u-v Winding resistance
- L\_u-v Winding inductance
- kEpk Voltage constant, Peak value  
mV\*min = V/(1000 1/min)
- Effektive value  $kE = kEpk / \sqrt{2}$
- nmax Maximum speed  
 n ≤ 2000 1/min → nmax = 3000 1/min  
 n = 3000 1/min → nmax = 4500 1/min  
 n ≤ 6000 1/min → nmax = 6000 1/min



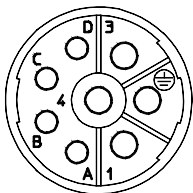
1 - Characteristic curve for S1-duty cycle  
2 - Voltage limit curve 400V or 230V

Rating plate (Example)



Electrical Connection

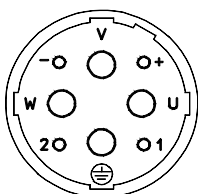
Motor TA2..TA5



Power connector Size 1, 8pole, Counterplug optional

Pin	1		3	4	A	B	C	D
Signal	U	PE	W	V	Brake +	Brake -	TW	TW

Motor TA6



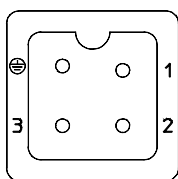
Power connector Size 1.5, 8pole, Counterplug optional

Pin	U	V	W		+	-	1	2
Signal	U	V	W	PE	Brake +	Brake -	TW	TW



## Motor options

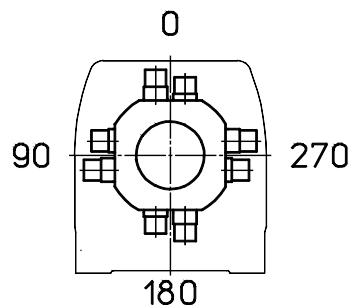
### F – Forced ventilation



Power connector 4pole, Counterplug included  
Voltage/Frequency: 3 ~ 400V 50Hz  
Rated current of forced ventilation: 0.14A

Pin	1	2	3	⊖
Signal	U	V	W	PE

### Position of motor connection for geared motors



Example: Motor connection 90, Plug connector radial

## Motor options

### Brake COMBIPERM

- Permanent magnet holding brake with emergency-stop-function
- Standard voltages: 24VDC
- Insulation class: F

Connection with power connector

Motor	Brake	Mbr [Nm]	JB [kgcm <sup>2</sup> ]	P20 [W]	~kg
TA1	BP03	2	0.068	11	0.2
TA2	BP03	2	0.068	11	0.2
TA3	BP05	4.5	0.18	12	0.4
TA4	BP06	9	0.54	18	0.6
TA5	BP07	18	1.66	24	1.0

### Brake COMBISTOP

- spring-set twin-disc safety brake
- Standard voltages: 24VDC
- Insulation class: F

Connection with power connector

Motor	Brake	Mbr [Nm]	JB [kgcm <sup>2</sup> ]	P20 [W]	~kg
TA3	BF02	7	0.3	18	1.5
TA4	BF03	16	0.7	20	2.5
TA5	BF04	36	1.4	25	4.8
TA6	BF05	70	3.5	30	8.3

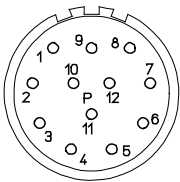
Mbr	Static braking torque after completed run-in phase (20°C)
JB	Inertia
P20	Excitation rating at 20°C
t2	Release time, time from connecting the current to the beginning of torque decrease
t1=	Engaging time: Time from disconnecting of current until the rated torque is attained
t11=	Engaging delay time: Time from disconnecting of current until the torque rises
WR0.1	friction work until 0.1mm abrasion
WRmax	permissible friction work for emergency stop from 3000 1/min

The specified switching times apply to nominal clearance and nominal torque. It relates to average values and depends on the type of rectification and coil temperature.

**Encoder system**

**ER – Resolver**

- Type: BRX 2-pole
- Voltage: 7VAC
- Frequency: 10kHz
- Transformation factor:  $0.5 \pm 5\%$
- Encoder system position:  
 +  $\rightarrow$  U, -  $\rightarrow$  V  
 Rotor 330°- electrical offset  $15^\circ = 315^\circ$   
 KEB: 57344

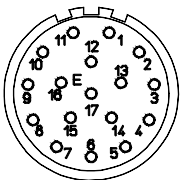


Signal connector 12pole, Counterplug optional

Pin	1	2	5	7	10	11
Signal	/sin	/cos	/sin-ref	sin-ref	sin	cos

**EN01 - Absolute encoder multiturn, BiSS-C**  
**EN02 – Absolute encoder singleturn, BiSS-C**

- Resolution singleturn: 19bit
- Resolution multiturn (EN01): 12bit (4096 rev)
- Code type: BiSS, binary code
- Supply voltage: 5VDC  $\pm$  5%
- Current consumption: max. 50mA singleturn / 100mA multiturn
- Permissible load / channel:  $\pm$  20 mA
- Encoder system position KEB: 0

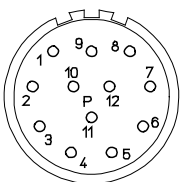


Signal connector 17pole, Counterplug optional

Pin	10	7	8	9	14	17
Signal	0V	+V	clock	/clock	data	/data

**EN05 - Absolute encoder multiturn, HIPERFACE**  
**EN06 - Absolute encoder singleturn, HIPERFACE**

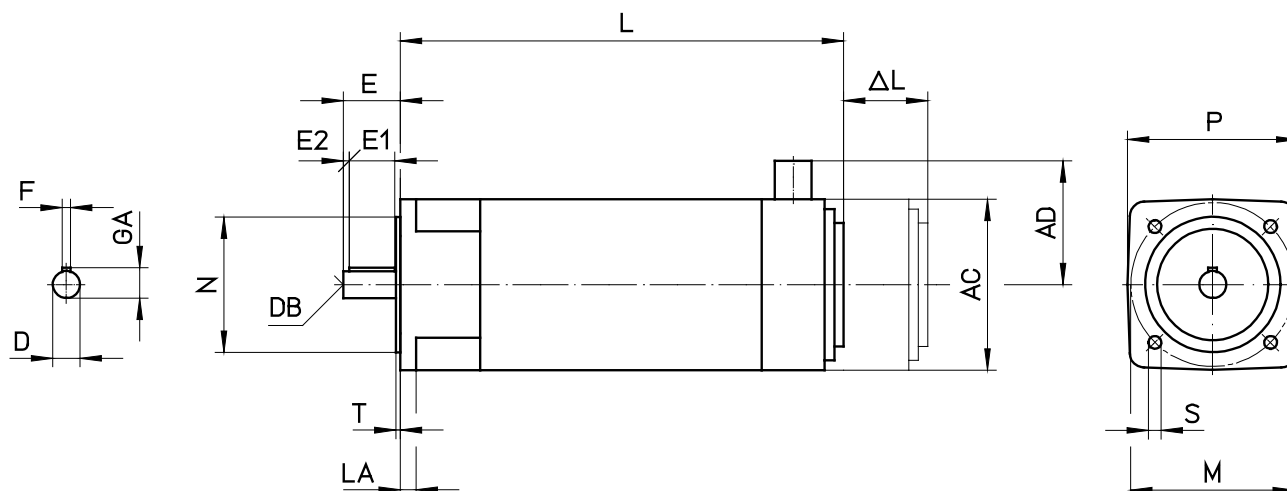
- Resolution singleturn: 13bit
- Resolution multiturn (EN05): 12bit (4096 rev)
- Code type: HIPERFACE
- Sin/Cos-periods: 128ppr 1Vpp
- Supply voltage: 7..12VDC (recommended: 8VDC)
- Current consumption: max. 60mA
- Permissible load / channel:  $\pm$  20 mA
- Encoder system position KEB: 11000



Signal connector 12pole, Counterplug optional

Pin	4	5	6	7	8	9	10	11
Signal	/sin	/cos	data	/data	sin	cos	+V	0V

## Dimensions



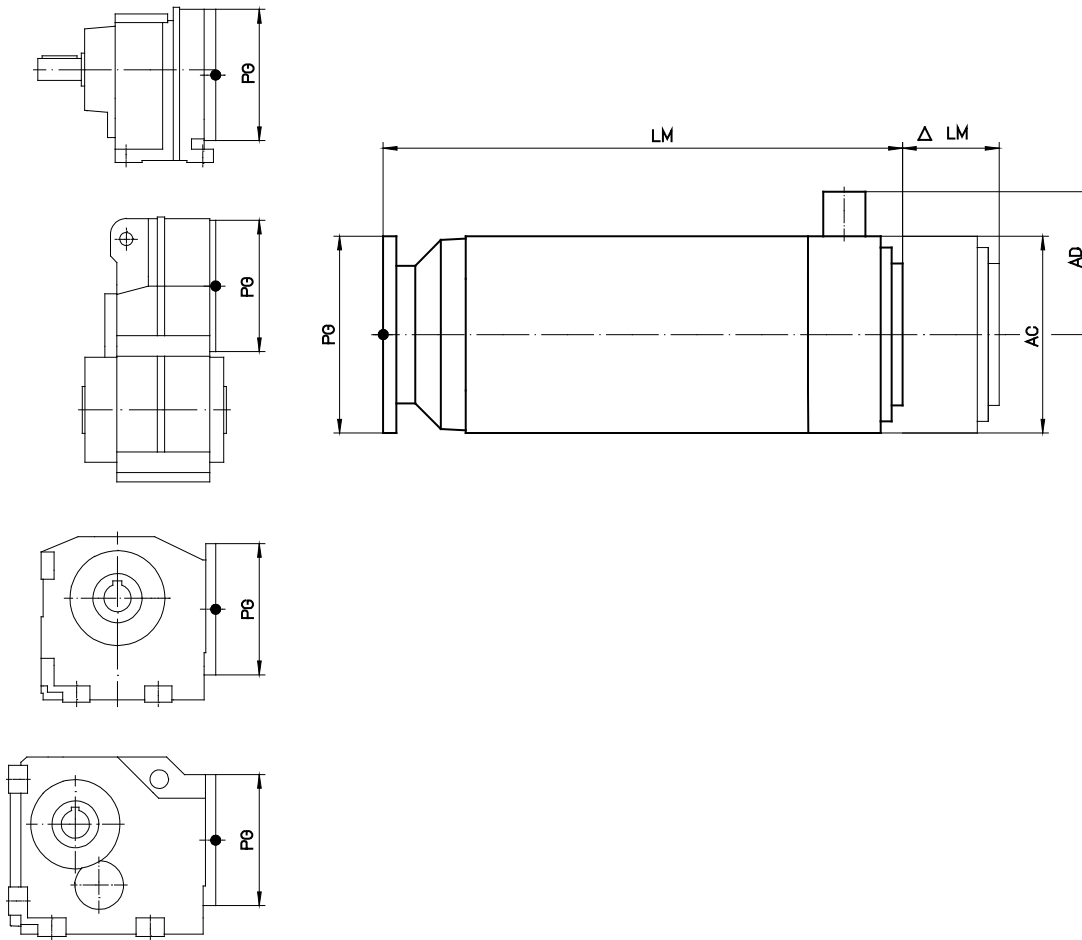
	TA1	TA2	TA3	TA4	TA5	TA6
LA	7	8	8	9	12	14
M	Ø63	Ø75	Ø100	Ø130/Ø115	Ø165	Ø215
N	Ø40	Ø60	Ø80	Ø110/Ø95	Ø130	Ø180
P	58	75	90	116/116	145	188
S	5.5	5.5	6.8	9	11	14
T	2.5	2.5	3	3	3.5	4

	Ø9k6	Ø11k6/Ø14k6	Ø14k6/Ø19k6	Ø19k6/Ø24k6	Ø24k6/Ø32k6	Ø32k6/Ø38k6
DB	M3	M4/M5	M5/M6	M6/M8	M8/M12	M12/M12
E	20	23/30	30/40	40/50	50/58	58/80
E1	14	16/22	22/32	32/40	40/50	50/70
E2	3	3.5/4	4	4/5	5/4	4/5
F	3	4/5	5/6	6/8	8/10	10/10
GA	10.2	12.5/16	16/21.5	21.5/27	27/35	35/41

AC	58	75	90	116	145 F:158	185 F:198
AD	73	80	88	102	115.5	158
L	TA1S:134 TA1M:164	TA2S:153 TA2M:193 TA2L:253	TA3S:166 TA3M:216 TA3L:263	TA41:232 TA42:267 TA43:302	TA51:252 TA52:287 TA53:322	TA61:343 TA62:413 TA63:483

ΔL						
B_	35	25	50	45	55	60
EN_	27	27	27	27	27	27
B_EN_	62	52	77	72	82	87
F					156	163.5
B_F					211	223.5
B_F EN_					211	223.5

ER Resolver or without encoder: ΔL=0  
 B\_ Brake BP or BF  
 EN\_ Absolute encoder EN..  
 F Forced ventilation



	TA1S/M	TA2S/M/L	TA3S/M/L	TA41/TA42/TA43	TA51/TA52/TA53	TA61/TA62/TA63
<b>AC</b>	58	75	90	116	145 F:158	185 F:198
<b>AD</b>	73	80	88	102	115.5	158

<b>LM</b>							PG	Gear unit
	123/153	138.5/178.5/218.5	162/212/262				105	<b>G0,S0,K0</b>
		137.5/177.5/217.5	161/211/261	235.5/270.5/305.5			120	<b>G1,S1,F2,K1,K2</b>
			158/208/258	230.5/265.5/300.5	257/292/327		140	<b>G2,S2,F3,K3</b>
			158.5/208.5/258.5	231/266/301	257/292/327	356/426/496	160	<b>G3,S3,F4,K4</b>
				228.5/263.5/298.5	252.5/287.5/322.5	351.5/421.5/491.5	200	<b>G4,S4,F5,K5</b>
					247.5/282.5/317.5	346.5/416.5/486.5	250	<b>G5,F6,K6</b>
					240.5/275.5/310.5	339.5/409.5/479.5	300	<b>G6,F7,K7</b>
						334.5/404.5/474.5	350	<b>G7,F8,K8</b>

<b>AL</b>						
<b>B_</b>	35	25	50	45	55	60
<b>EN_</b>	27	27	27	27	27	27
<b>B_EN_</b>	62	52	77	72	82	87
<b>F</b>					156	163.5
<b>B_F</b>					211	223.5
<b>B_F EN_</b>					211	223.5

ER Resolver or without encoder: ΔL=0  
 B\_ Brake BP or BF  
 EN\_ Absolute encoder EN..  
 F Forced ventilation

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