



21.19

MLFB-Ordering data : **2KJ3503-9HJ23-9AF1-Z**
B25+C02+C27+C64+D14+H5A+K01+K07+L02+L75+M10+M56+N38+N3A+P91+Q47+Q95

Client order no. :

Order no. :

Offer no. :

Item no. :

Consignment no. :

Project :

Motor data

| U | D/Y | f _N | P _N | P _N | I _N | n _N | T _N | IE-CL | Operating mode | n ₂ | T ₂ | f _B | η [%] | | | cos φ | I _A /I _N | T _A /T _N | T _K /T _N | T _H /T _N |
|-----|-----|----------------|----------------|----------------|----------------|----------------|----------------|-------|----------------|----------------|----------------|----------------|-------|------|------|-------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| [V] | | [Hz] | [kW] | [hp] | [A] | [rpm] | [Nm] | | | [rpm] | [Nm] | | 4/4 | 3/4 | 2/4 | | | | | |
| 230 | D | 50 | 5.500 | 7.37 | 18.80 | 1,470 | 35.73 | IE3 | S1 | 199.457 | 263.34 | 1.25 | 89.6 | 90.0 | 89.4 | 0.82 | 8.50 | 2.90 | 3.70 | 3.20 |
| 400 | Y | 50 | 5.500 | 7.37 | 10.80 | 1,470 | 35.73 | IE3 | S1 | 199.457 | 263.34 | 1.25 | 89.6 | 90.0 | 89.4 | 0.82 | 8.50 | 2.90 | 3.70 | 3.20 |
| 460 | Y | 60 | 5.500 | 7.37 | 9.30 | 1,775 | 29.59 | IE3 | CONT. | 240.841 | 218.09 | 1.51 | 91.7 | 91.6 | 90.5 | 0.81 | 10.00 | 3.10 | 4.20 | 3.40 |
| 400 | D | 87 | 9.600 | 12.87 | 18.50 | 2,580 | 35.53 | - | INV.DUTY | 350.067 | 261.89 | 1.26 | 91.8 | 0.0 | 0.0 | 0.82 | 0.00 | 0.00 | 3.90 | 0.00 |
| 460 | D | 104 | 9.600 | 12.87 | 16.30 | 3,095 | 29.62 | - | INV.DUTY | 419.945 | 218.31 | 1.51 | 90.2 | 0.0 | 0.0 | 0.82 | 0.00 | 0.00 | 4.40 | 0.00 |

| | |
|--|--|
| Motor type | 1LE motor with Premium Efficiency LE132ZST4P |
| Number of poles | 4-pole |
| Degree of protection | (K01) IP55 |
| Thermal class | 155 (F) |
| Moment of inertia J_{mot} | 0.03400 kgm ² |

| | |
|--|--------------------|
| Terminal box position | (M56) 1B |
| Electrical connection at terminal box | Cable gland metric |
| Ventilation | Standard fan |

Geared motor

| | |
|---------------------------------------|--|
| Type designation | SIMOGEAR B49-LE132ZST4P-L80/35NH-IN |
| Gearbox | Bevel gearbox B49 |
| Mounting type gearbox | Foot-mounted design |
| Output shaft | VD35 x 70 mm (Solid shaft on both sides) |
| Mounting position | (D14) M4 output side A |
| Transmission ratio | 7.37 (2255 / 306) |
| Nominal torque | 330.00 Nm |
| Gear oil | (K07) Synthetic oil CLP PG VG220 |
| Oil charge | 3.1 l |
| Specification | CE (Europe / other countries) |
| Environment temperature | (K95) -20 ... +40 °C |
| Weight without oil | 89.5 kg |
| Housing material first gearbox | Aluminum |

Brake data

| | |
|---------------------------------------|--|
| Brake type (torque at 100 rpm) | (B25) L80/35 (35 Nm) |
| Safety factor k (at 50 Hz) | 0.97 |
| Supply voltage | (C64) 205V DC +-10% |
| Rectifier | DC voltage control (without) |
| Brake design | Open-type (standard) |
| Manual brake release lever | (C02) Manual brake release lever (C27) Position 2 |

Working capacity

| | |
|--|----------|
| per switching operation | 36.0 kJ |
| until readjustment of air gap | 396.0 MJ |
| until replacement of brake lining | 2310 MJ |

Electrical data

| | |
|-----------------------------------|---------|
| Coil voltage | 205V DC |
| Current consumption | 0.26 A |
| Power consumption at 20 °C | 55 W |

Switching times

Application time

| | |
|-----------------------------|---------|
| AC switched | 1200 ms |
| AC/DC or DC switched | 73 ms |
| Disconnection time | 128 ms |

Gearbox options

| | |
|-----------------------------|-------------------------|
| Output shaft bearing | Standard bearing |
| Output shaft sealing | Standard sealing |
| Gearbox breather | Pressure breather valve |
| Oil level control | Oil level screw |
| Oil drain | Oil drain plug |

Motor options

| | |
|-------------------------|--|
| Motor protection | (M10) Temperature sensor PTC thermistor, disconnection |
|-------------------------|--|

Encoder options

| | |
|------------------------------|-------------------------------------|
| Encoder | Incremental encoder (Up 10-30 V DC) |
| Degree of protection | IP66 |
| Mechanical variant | Cable and connector socket |
| Mechanical protection | (Q95) encoder underneath cover |
| Encoder type | (Q47) HTL1024S/R KD |

Legend

U = Voltage
D / Y = Circuit
f = Frequency
P_N = Rated motor power

I_N = Rated current
n_N = Rated motor speed
T_N = Rated motor torque
IE-CL = Efficiency class

n₂ = Geared motor output speed
T₂ = Geared motor output torque
f_B = Service factor
η = Efficiency
*) On request

cos φ = Power factor
I_A/I_N = Relative starting current
T_A/T_N = Relative starting torque
T_K/T_N = Relative breakdown torque
T_H/T_N = Relative average acceleration torque



Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data: 2KJ3503-9HJ23-9AF1-Z
B25+C02+C27+C64+D14+H5A+K01+K07+L02+L75+M10+M56+N38+N3A+P91+Q47+Q95

| General options | |
|--------------------|--|
| Surface treatments | Painted |
| Coating | (L02) Coating for normal environmental stress C1 |
| RAL Color | (L75) 7016 anthracite gray |
| Coating on flange | - |
| Packing | Standard packing |

| Further information | |
|-------------------------------|---------------------------------------|
| General product information | SIMOGEAR |
| Configurator | 2KJ..... |
| <u>Operating instructions</u> | |
| Gearbox | BA 2030 |
| Motor | BA 2330 |
| Catalog | MD 50.1 Geared motors |