



19.42

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3512-5FP23-2FH2-Z
B10+C66+D11+H09+K01+K06+L02+L75+M55

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Motor data

U [V]	D/Y	f _N [Hz]	P _N [kW]	P _N [hp]	I _N [A]	n _N [rpm]	T _N [Nm]	IE-CL	Operating mode	n ₂ [rpm]	T ₂ [Nm]	f _B	η _{4/4 load} [%]	η _{3/4 load} [%]	cos φ	I _A /I _N	T _A /T _N	T _R /T _N	T _H /T _N
230	D	50	3.000	4.02	10.30	1,460	19.62	IE3	S1	6.927	4,135.39	1.06	87.7	88.4	0.83	7.30	2.30	3.70	2.50
400	Y	50	3.000	4.02	5.90	1,460	19.62	IE3	S1	6.927	4,135.39	1.06	87.7	88.4	0.83	7.30	2.30	3.70	2.50
460	Y	60	3.450	4.62	5.80	1,760	18.72	IE3	S1	8.351	3,944.86	1.12	89.5	90.1	0.84	7.60	2.20	3.80	2.40

Motor type 1LE motor with Premium Efficiency LE100ZLSB4P

Number of poles 4-pole

Degree of protection (K01) IP55

Thermal class 155 (F)

Moment of inertia J_{mot} 0.01400 kgm²

Terminal box position (M55) 1A

Electrical connection at terminal box Cable gland metric

Ventilation Standard fan

Geared motor

Type designation SIMOGEAR KAF129-LE100ZLSB4P-L16N

Gearbox Bevel gearbox KAF129

Mounting type gearbox Flange-mounted design

Output shaft H70 mm (Hollow shaft)

Mounting position (D11) M1 output side A

Transmission ratio 210.74 (123,284 / 585)

Nominal torque 4,400.00 Nm

Gear oil (K06) Mineral oil CLP VG220

Oil charge 6.2 l

Specification CE (Europe / other countries)

Environment temperature -15 ... +40 °C

Weight without oil 208.9 kg

Housing material first gearbox Cast iron

Brake data

Brake type (torque at 100 rpm) (B10) L16 (16 Nm)

Safety factor k (at 50 Hz) 0.81

Supply voltage (C66) 24V DC +-10%

Rectifier DC voltage control (without)

Brake design Open-type (standard)

Working capacity

per switching operation 12.0 kJ

until readjustment of air gap 108.0 MJ

until replacement of brake lining 405 MJ

Electrical data

Coil voltage 24V DC

Current consumption 1.25 A

Power consumption at 20 °C 30 W

Switching times

Application time

AC switched 460 ms

AC/DC or DC switched 47 ms

Disconnection time 76 ms

Gearbox options

Flange diameter (H09) 450 mm

Hollow shaft cover Sealing cap

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 Without

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

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_R/T_N = Relative breakdown torque
T_H/T_N = Relative average acceleration torque

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Further information

General product information [SIMOGEAR](#)

Configurator [2KJ.....](#)

Operating instructions

Gearbox [BA 2030](#)

Motor [BA 2330](#)

Catalog [MD 50.1](#) Geared motors