

Datasheet for SIMOGEAR Geared Motors



18.8

MLFB-Ordering data : 2KJ3531-1DF23-9AC1-Z
B04+C47+D11+K01+K06+L02+L75+M59+N4N

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 _{4/4 load}	η _{3/4 load}	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]		[%]	[%]					
230	YY	60	0.750	1.00	3.18	1,760	4.06	IE3	S1	5.722	1,150.52	2.52	83.5	82.6	0.71	8.30	3.10	4.70	3.40
460	Y	60	0.750	1.00	1.59	1,760	4.06	IE3	S1	5.722	1,150.52	2.52	83.5	82.6	0.71	8.30	3.10	4.70	3.40

Motor type	1LE motor with Premium Efficiency LE80ZMQ4P
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	155 (F)
Moment of inertia J _{mot}	0.00290 kgm ²

Terminal box position	(M59) 2A
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR K109-Z39-LE80ZMQ4P-L8N
Gearbox	Bevel gearbox K109-Z39
Mounting type gearbox	Foot-mounted design
Output shaft	V60 x 120 mm (Solid shaft with feather key)
Mounting position	(D11) M1 output side A
Transmission ratio	307.54 (26,843,782 / 87,285)
Nominal torque	2,900.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	3.3 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	114.2 kg
Housing material first gearbox	Cast iron
Housing material second gearbox	Aluminum

Gearbox options

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
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Brake data

Brake type (torque at 100 rpm)	(B04) L8 (8 Nm)
Safety factor k (at 60 Hz)	1.97
Supply voltage	(C47) 400V AC +-10%
Rectifier	Standard
Brake design	Open-type (standard)
Working capacity	
per switching operation	7.5 kJ
until readjustment of air gap	64.8 MJ
until replacement of brake lining	324 MJ
Electrical data	
Coil voltage	180V DC
Current consumption	.06 A
Power consumption at 20 °C	25 W
Switching times	
Application time	
AC switched	245 ms
AC/DC or DC switched	31 ms
Disconnection time	57 ms

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_K/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.....
<u>Operating instructions</u>	
Gearbox	BA 2030
Motor	BA 2330
Catalog	MD 50.1 Geared motors