SIEMENS

Datasheet for SIMOGEAR Geared Motors

18.8

MLFB-Ordering data : **2KJ3510-5EM23-9CV1-Z**

B66+C66+D11+K03+K06+L02+L55+M10+M55+N38+N5H

Client order no. :
Order no. :
Offer no. :
Item no. :
Consignment 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	$\eta_{4/4\ load}$ [%]	$\eta_{3/4\ load}$ [%]	cos φ	I_A/I_N	T_A/T_N	T_K/T_N	T_H/T_N
460	Y	60	1.750	2.34	3.15	1,740	9.60	IE3	CONT.	27.022	618.45	2.59	86.5	87.0	0.80	7.70	2.90	3.70	3.19

Motor type	1LE motor with Premium Efficiency LE90ZLR4P
Number of poles	4-pole
Degree of protection	(K03) IP65
Thermal class	155 (F)
Moment of inertia Jmot	0.00490 kgm²
Terminal box position	(M55) 1A
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR KAD89-LE90ZLR4P-L32/14N
Gearbox	Bevel gearbox KAD89
Mounting type gearbox	Shaft-mounted design (torque arm)
Output shaft	H50 mm (Hollow shaft)
Mounting position	(D11) M1 output side A
Transmission ratio	64.39 (50,995 / 792)
Nominal torque	1,600.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	2.1 l
Specification	CE (Europe / other countries)
Additional specifications	(N38) UL-R/CSA (North America)
Environment temperature	-15 ... +40 °C
Weight without oil	74.3 kg
Housing material first gearbox	Cast iron

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	(M10) Temperature sensor PTC thermistor, disconnection

Brake data

Brake type (torque at 100 rpm)	(B66) L32/14 (14 Nm)
Safety factor k (at 60 Hz)	1.45
Supply voltage	(C66) 24V DC +-10%
Rectifier	DC voltage control (without)
Brake design	Open-type (standard)
Working capacity	
per switching operation	24.0 kJ
until readjustment of air gap	285.0 MJ
until replacement of brake lining	948 MJ
Electrical data	
Coil voltage	24V DC
Current consumption	1.66 A
Power consumption at 20 °C	40 W
Switching times	
Application time	
AC switched **AC/DC or DC switched**	400 ms 46 ms
Disconnection time	65 ms

General options

Surface treatments	Painted
Coating	(L02) Coating for normal environmental stress C1
RAL Color	(L55) 7030 stone 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
n_2 = Geared motor output speed
T_2 = 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.....
Operating instructions	
Gearbox	BA 2030
Motor	BA 2330
Catalog	MD 50.1 Geared motors