SIEMENS

Datasheet for SIMOGEAR Geared Motors

1.783

MLFB-Ordering data : 2KJ3503-1GJ23-2AE1-Z

D12+K01+K07+L00+M10+M23+M64+N38+Q47

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	$\eta_{4/4\ load}$ [%]	$\eta_{3/4\ load}$ [%]	cos φ	I_A/I_N	T_A/T_N	T_K/T_N	T_H/T_N
230	D	50	4.000	5.36	13.70	1,460	26.16	IE3	S1	232.854	164.05	2.01	88.6	89.2	0.82	7.10	2.40	3.70	2.60
400	Y	50	4.000	5.36	7.90	1,460	26.16	IE3	S1	232.854	164.05	2.01	88.6	89.2	0.82	7.10	2.40	3.70	2.60
460	Y	60	4.550	6.10	7.70	1,760	24.68	IE3	CONT.	280.701	154.80	2.13	89.5	90.0	0.83	7.30	2.50	3.80	2.80

Motor type	1LE motor with Premium Efficiency LE112ZMKB4PF
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	155 (F)
Moment of inertia Jmot	0.01700 kgm²
Terminal box position	(M64) 3B
Electrical connection at terminal box	Cable gland metric
Ventilation	(M23) External fan

Geared motor

Type designation	SIMOGEAR B49-LE112ZMKB4PF-IN
Gearbox	Bevel gearbox B49
Mounting type gearbox	Foot-mounted design
Output shaft	V35 x 70 mm (Solid shaft with feather key)
Mounting position	(D12) M2 output side A
Transmission ratio	6.27 (533 / 85)
Nominal torque	330.00 Nm
Gear oil	(K07) Synthetic oil CLP PG VG220
Oil charge	1.7 l
Specification	CE (Europe / other countries)
Additional specifications	(N38) UL-R/CSA (North America)
Environment temperature	(K95) -20 ... +40 °C
Weight without oil	51.0 kg
Housing material first gearbox	Aluminum

General options

Surface treatments	Unpainted
Coating	(L00) Unpainted
Packing	Standard packing
Liability for defects	12 months from date of delivery (standard)

Further information

General product information	SIMOGEAR
Configurator	2KJ.....
Operating instructions	
Gearbox	BA 2030
Motor	BA 2330
Catalog	MD 50.1 Geared motors

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) PTC thermistor for disconnection

Encoder options

Encoder	Incremental encoder (Up 10-30 V DC)
Degree of protection	IP66
Mechanical variant	Cable and connector socket
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
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