

Datasheet for SIMOGEAR Geared Motors



19.42

MLFB-Ordering data : **2KJ3605-1EM22-2AF2-Z**
D21+K01+K08+L03+L59+M10+M41+M55+P91

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	D	50	1.500	2.01	5.70	1,435	9.98	IE2	S1	8.410	1,253.44	1.09	82.8	83.5	0.79	6.40	2.60	3.40	2.90
400	Y	50	1.500	2.01	3.30	1,435	9.98	IE2	S1	8.410	1,253.44	1.09	82.8	83.5	0.79	6.40	2.60	3.40	2.90
460	Y	60	1.750	2.34	3.30	1,730	9.66	IE2	S1	10.139	1,210.97	1.12	84.0	85.0	0.79	6.70	2.50	3.40	2.80
400	D	87	2.500	3.35	5.80	2,550	9.36	-	INV.DUTY	14.945	1,167.88	1.16	85.3	0.0	0.73	0.00	0.00	3.60	0.00
460	D	104	2.900	3.88	5.50	3,060	9.05	-	INV.DUTY	17.934	1,126.35	1.21	86.1	0.0	0.77	0.00	0.00	3.60	0.00

Motor type	1LE motor with High Efficiency LE90LH4E
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	155 (F)
Moment of inertia J_{mot}	0.00360 kgm ²

Terminal box position	(M55) 1A
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR C89-LE90LH4E
Gearbox	Helical worm gearbox C89
Mounting type gearbox	Foot-mounted design
Output shaft	V45 x 90 mm (Solid shaft with feather key)
Mounting position	(D21) M1 output side B
Transmission ratio	170.62 (1,365 / 8)
Nominal torque	1,360.00 Nm
Gear oil	(K08) Synthetic oil CLP PG VG460
Oil charge	1.2 l
Specification	CE (Europe / other countries)
Environment temperature	(K95) -20 ... +40 °C
Weight without oil	68.1 kg
Housing material first gearbox	Cast iron

General options

Surface treatments	Painted
Coating	(L03) Coating for low environmental stress C2
RAL Color	(L59) 1018 zinc yellow
Coating on flange	-
Packing	Standard packing

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) Temperature sensor PTC thermistor, disconnection
Anti-condens. heating	(M41) 230 V Anti-condensation heating

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