



19.42

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3510-1EM22-4AB2-Z
D21+G25+G34+G49+K01+K07+L04+L55+M08+M63+P90

Client order no. : Item no. :
Order no. : Consignment no. :
Offer 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	-	S3-75%	13.982	1,024.53	1.56	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	-	S3-75%	13.982	1,024.53	1.56	82.8	83.5	0.79	6.40	2.60	3.40	2.90
460	Y	60	1.500	2.01	3.00	1,745	8.20	-	S3-75%	17.002	842.50	1.90	84.0	84.0	0.75	7.50	2.90	4.00	3.20

Motor type	1LE motor with High Efficiency LE90LH4E
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	(M08) 180 (H)
Moment of inertia J _{mot}	0.00360 kgm ²
Terminal box position	(M63) 3A
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor	
Type designation	SIMOGEAR K89-LE90LH4E
Gearbox	Bevel gearbox K89
Mounting type gearbox	Foot-mounted design
Output shaft	V50 x 100 mm (Solid shaft with feather key)
Mounting position	(D21) M1 output side B
Transmission ratio	102.63 (57,575 / 561)
Nominal torque	1,600.00 Nm
Gear oil	(K07) Synthetic oil CLP PG VG220
Oil charge	1.9 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	73.6 kg
Housing material first gearbox	Cast iron

Gearbox options	
Hollow shaft cover	Sealing cap
Output shaft bearing	Standard bearing
Output shaft sealing	(G25) High temperature resistant seal
Gearbox breather	(G49) Pressure breather stainless steel
Oil level control	(G34) Oil sight glass
Oil drain	Oil drain plug

Motor options	
Motor protection	Without

General options	
Surface treatments	Painted
Coating	(L04) Coating for medium environmental stress C3
RAL Color	(L55) 7030 stone gray
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

Legend			
U = Voltage	I _N = Rated current	n ₂ = Geared motor output speed	cos φ = Power factor
D / Y = Circuit	n _N = Rated motor speed	T ₂ = Geared motor output torque	I _A /I _N = Relative starting current
f = Frequency	T _N = Rated motor torque	f _B = Service factor	T _A /T _N = Relative starting torque
P _N = Rated motor power	IE-CL = Efficiency class	η = Efficiency	T _K /T _N = Relative breakdown torque
		*) On request	T _H /T _N = Relative average acceleration torque