



24.002

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3105-3DF23-4FL1-Z
D04+H06+K01+K06+L03+L75+M65

Client order no. : Item no. :
Order no. : Consignment no. :
Offer no. : Project :

Attention: With functionally safe encoder only a holding brake is possible. If the Siemens AG provides support when defining or selecting safety-relevant components, Siemens AG is not responsible for their definition or selection and the corresponding implementation of these safety-relevant components. For selected output shaft a calculation of the bearing life and the allowable radial load is required!

Motor data																				
U	D/Y	f _N	P _N	P _N	I _N	n _N	T _N	IE-CL	Operating	n ₂	T ₂	f _B	η [%]			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]		mode	[rpm]	[Nm]		4/4	3/4	2/4					
230	D	50	0.75	1.01	3.04	1,450	4.94	IE3	S1	94.96	75.4	5.97	82.5	82.3	79.9	0.75	7.10	2.70	3.90	3.00
400	Y	50	0.75	1.01	1.75	1,450	4.94	IE3	S1	94.96	75.4	5.97	82.5	82.3	79.9	0.75	7.10	2.70	3.90	3.00
460	Y	60	0.75	1.01	1.59	1,760	4.07	IE3	S1	115.26	62.1	7.25	83.5	82.6	79.3	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 kgm²																		
Terminal box position	(M65) 3C																		
Electrical connection at terminal box	Cable gland metric																		
Ventilation	Standard fan																		

Geared motor	
Type designation	SIMOGEAR ZF59-LE80ZMQ4P
Gearbox	Helical gearbox ZF59
Mounting type gearbox	Flange-mounted design
Output shaft	V40 x 80 mm (Solid shaft with feather key)
Mounting position	(D04) M4
Transmission ratio	15.27 (611 / 40)
Nominal torque	450 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	1.9 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	33.2 kg
Housing material first gearbox	Cast iron

Gearbox options	
Flange diameter	(H06) 250 mm
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

General options	
Surface treatments	Painted
Coating	(L03) Coating for low environmental stress C2
RAL Color	(L75) 7016 anthracite gray
Coating on flange	-
Packing	Standard packing

Further information	
General product information	SIMOGEAR
Configurator	2KJ.....
<u>Operating instructions</u>	
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 _R /T _N = Relative breakdown torque
		*) On request	T _H /T _N = Relative average acceleration torque