SIEMENS

Datasheet for SIMOGEAR Geared Motors



MLFB-Ordering data :

2KJ3102-1DF23-9AT1-Z

B57+C06+C66+D01+K01+K06+L03+L75+M10+M55+N6A+P91

Client o Order r Offer n	10. :	10.:								n no. : signment no. : ect :									
									Motor o	lata									
U [V]	D/Y	f _N [Hz]	P _N [kW]	P _N [hp]	Ι _Ν [A]	n _N [rpm]	T _N [Nm]	IE-CL	Operating mode	n ₂ [rpm]	T₂ [Nm]	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
230	D	50	0.750	1.00	3.04	1,450	4.93	IE3	S1	64.216	111.54	1.26	82.5	82.3	0.75	7.10	2.70	3.90	3.00
400	D	87	1.310	1.75	3.10	2,560	4.88	_	INV.DUTY	113.374	110.35	1.27	85.6	0.0	0.71	0.00	0.00	2.04	0.00

Motor type

Number of poles Degree of protection Thermal class Moment of inertia Jmot 1LE motor with Premium Efficiency LE80ZMQ4P

4-pole (K01) IP55 155 (F) 0.00290 kgm²

Gea	red motor					
Type designation	SIMOGEAR Z29-LE80ZMQ4P-L4/5N					
Gearbox	Helical gearbox Z29					
Mounting type gearbox	Foot-mounted design					
Output shaft	V25 x 50 mm (Solid shaft with feather key)					
Mounting position	(D01) M1					
Transmission ratio	22.58 (1,242 / 55)					
Nominal torque	140.00 Nm					
Gear oil	(K06) Mineral oil CLP VG220					
Oil charge	0.1 l					
Specification	CE (Europe / other countries)					
Environment temperature	-15 +40 °C					
Weight without oil	16.2 kg					
Housing material first gearbox	Aluminum					

Gearbox options				
Output shaft bearing	Standard bearing			
Output shaft sealing	Standard sealing			
Gearbox breather	Non-ventilated			
Oil level control	Without			
Oil drain	Oil drain plug			
	Matanantiana	_		

Motor options

Motor protection

(M10) Temperature sensor PTC thermistor, disconnection

(M55) 1A
Cable gland n
Standard fan

1A gland metric

Brake data					
Brake type (torque at 100 rpm)	(B57) L4/5 (5 Nm)				
Safety factor k (at 50 Hz)	1.01				
Supply voltage	(C66) 24V DC +-10%				
Rectifier	DC voltage control (without)				
Brake design	Open-type (standard)				
Wear	(C06) wear-resistant				
Working capacity					
per switching operation	3.0 kJ				
until readjustment of air gap	46.0 MJ				
until replacement of brake lining	351 MJ				
Electrical data					
Coil voltage	24V DC				
Current consumption	.83 A				
Power consumption at 20 °C	20 W				
Switching times					
Application time					
AC switched AC/DC or DC switched	158 ms 25 ms				
Disconnection time	56 ms				

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			

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

Legend n_2 = Geared motor output speed T_2 = Geared motor output torque f_B = Service factor η = Efficiency *) On request

 $\cos \phi = Power factor$ $I_A/I_N =$ 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	<u>2KJ</u>					
Operating instructions						
Gearbox	<u>BA 2030</u>					
Motor	<u>BA 2330</u>					
Catalog	MD 50.1 Geared motors					