



21.19

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3108-1FN23-9FW1-Z  
B17+C63+D01+H07+K01+K06+L04+L50+M56+N2B+N38

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

Motor data																				
U	D/Y	f <sub>N</sub>	P <sub>N</sub>	P <sub>N</sub>	I <sub>N</sub>	n <sub>N</sub>	T <sub>N</sub>	IE-CL	Operating	n <sub>2</sub>	T <sub>2</sub>	f <sub>B</sub>	η [%]			cos φ	I <sub>A</sub> /I <sub>N</sub>	T <sub>A</sub> /T <sub>N</sub>	T <sub>K</sub> /T <sub>N</sub>	T <sub>H</sub> /T <sub>N</sub>
[V]		[Hz]	[kW]	[hp]	[A]	[rpm]	[Nm]		mode	[rpm]	[Nm]		4/4	3/4	2/4					
400	D	50	2.200	2.95	4.40	1,465	14.34	IE3	S1	31.190	673.61	2.49	86.7	87.0	85.9	0.83	8.40	3.20	4.40	3.50
690	Y	50	2.200	2.95	2.55	1,465	14.34	IE3	S1	31.190	673.61	2.49	86.7	87.0	85.9	0.83	8.40	3.20	4.40	3.50
460	D	60	2.550	3.41	4.25	1,765	13.79	IE3	CONT.	37.577	648.07	2.59	89.5	89.7	88.5	0.84	8.50	3.00	4.40	3.30

Motor type	1LE motor with Premium Efficiency LE100ZLSA4P																		
Number of poles	4-pole																		
Degree of protection	(K01) IP55																		
Thermal class	155 (F)																		
Moment of inertia J <sub>mot</sub>	0.01400 kgm <sup>2</sup>																		
Terminal box position	(M56) 1B																		
Electrical connection at terminal box	Cable gland metric																		
Ventilation	Standard fan																		

Geared motor	
Type designation	SIMOGEAR ZF89-LE100ZLSA4P-L32/23N
Gearbox	Helical gearbox ZF89
Mounting type gearbox	Flange-mounted design
Output shaft	V50 x 100 mm (Solid shaft with feather key)
Mounting position	(D01) M1
Transmission ratio	46.97 (1691 / 36)
Nominal torque	1,680.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	2.1 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	97.7 kg
Housing material first gearbox	Cast iron

Gearbox options	
Flange diameter	(H07) 300 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

Brake data	
Brake type (torque at 100 rpm)	(B17) L32/23 (23 Nm)
Safety factor k (at 50 Hz)	1.60
Supply voltage	(C63) 460V AC +-10%
Rectifier	Standard
Brake design	Open-type (standard)
Working capacity	
per switching operation	24.0 kJ
until readjustment of air gap	260.0 MJ
until replacement of brake lining	948 MJ
Electrical data	
Coil voltage	205V DC
Current consumption	0.08 A
Power consumption at 20 °C	40 W
Switching times	
Application time	
AC switched	680 ms
AC/DC or DC switched	75 ms
Disconnection time	82 ms

General options	
Surface treatments	Painted
Coating	(L04) Coating for medium environmental stress C3
RAL Color	(L50) 5015 sky blue
Coating on flange	-
Packing	Standard packing

Legend			
U = Voltage	I <sub>N</sub> = Rated current	n <sub>2</sub> = Geared motor output speed	cos φ = Power factor
D / Y = Circuit	n <sub>N</sub> = Rated motor speed	T <sub>2</sub> = Geared motor output torque	I <sub>A</sub> /I <sub>N</sub> = Relative starting current
f = Frequency	T <sub>N</sub> = Rated motor torque	f <sub>B</sub> = Service factor	T <sub>A</sub> /T <sub>N</sub> = Relative starting torque
P <sub>N</sub> = Rated motor power	IE-CL = Efficiency class	η = Efficiency	T <sub>K</sub> /T <sub>N</sub> = Relative breakdown torque
		*) On request	T <sub>H</sub> /T <sub>N</sub> = Relative average acceleration torque



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Further information	
General product information	<a href="#">SIMOGEAR</a>
Configurator	<a href="#">2KJ.....</a>
<u>Operating instructions</u>	
Gearbox	<a href="#">BA 2030</a>
Motor	<a href="#">BA 2330</a>
Catalog	<a href="#">MD 50.1</a> Geared motors