



21.19

MLFB-Ordering data : **2KJ3101-3DF23-2AJ1-Z**
B04+C66+D01+K01+K08+L02+L77+M10+M64+P91+Q44+Q95+W10+W21

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 [%]			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]		4/4	3/4	2/4					
230	D	50	0.750	1.00	3.04	1,450	4.93	IE3	S1	175.757	40.75	1.82	82.5	82.3	79.9	0.75	7.10	2.70	3.90	3.00
400	Y	50	0.750	1.00	1.75	1,450	4.93	IE3	S1	175.757	40.75	1.82	82.5	82.3	79.9	0.75	7.10	2.70	3.90	3.00
460	Y	60	0.860	1.15	1.72	1,750	4.69	IE3	S1	212.121	38.72	1.91	83.5	83.2	80.8	0.75	7.70	2.70	4.10	3.00
400	D	87	1.310	1.75	3.10	2,560	4.88	-	INV.DUTY	310.303	40.32	1.84	85.6	0.0	0.0	0.71	0.00	0.00	3.94	0.00
460	D	104	1.490	1.99	2.95	3,070	4.63	-	INV.DUTY	372.121	38.24	1.94	86.3	0.0	0.0	0.73	0.00	0.00	4.15	0.00

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 kgm ²

Terminal box position	(M64) 3B
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR Z19-LE80ZMQ4P-L8N-IN
Gearbox	Helical gearbox Z19
Mounting type gearbox	Foot-mounted design
Output shaft	V16 x 40 mm (Solid shaft with feather key)
Mounting position	(D01) M1
Transmission ratio	8.25 (33 / 4)
Nominal torque	74.00 Nm
Gear oil	(K08) Synthetic oil CLP PG VG460
Oil charge	0.1 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	14.8 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

Motor options

Motor protection	(M10) Temperature sensor PTC thermistor, disconnection
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Brake data

Brake type (torque at 100 rpm)	(B04) L8 (8 Nm)
Safety factor k (at 50 Hz)	1.62
Supply voltage	(C66) 24V DC +-10%
Rectifier	DC voltage control (without)
Brake design	Open-type (standard)
Working capacity	
per switching operation	7.5 kJ
until readjustment of air gap	64.8 MJ
until replacement of brake lining	324 MJ
Electrical data	
Coil voltage	24V DC
Current consumption	1.04 A
Power consumption at 20 °C	25 W
Switching times	
Application time	
AC switched	245 ms
AC/DC or DC switched	31 ms
Disconnection time	57 ms

Encoder options

Encoder	Incremental encoder (Up 5 V +-10% DC)
Degree of protection	IP66
Mechanical variant	Cable and connector socket
Mechanical protection	(Q95) encoder underneath cover
Encoder type	(Q44) TTL1024S/R KD

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 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

Datasheet for SIMOGEAR Geared Motors

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B04+C66+D01+K01+K08+L02+L77+M10+M64+P91+Q44+Q95+W10+W21

General options	
Surface treatments	Painted
Coating	(L02) Coating for normal environmental stress C1
RAL Color	(L77) 9005 jet black
Coating on flange	-
Packing	Standard packing
Enclosed documentation	(W21) 1 set operating instructions GERMAN per geared motor
Additional documentation (E-Mail)	(W10) Works test certificate 3.1 motor

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