SIEMENS

Datasheet for SIMOGEAR Geared Motors

1.783

MLFB-Ordering data : 2KJ3403-3DF23-9HD1-Z

D02+G99+K01+K06+L02+L75+M45+M56+N38+N4N

Client order no. : Item no. :

Order no. : Consignment no. :

Offer no. : Project :

For selected output shaft a calculation of the bearing life and the allowable radial load is required!

Motor data

U [V]	D/Y	f_N [Hz]	P_N [kW]	P_N [hp]	I_N [A]	n_N [rpm]	T_N [Nm]	IE-CL	Operating mode	n_2 [rpm]	T_2 [Nm]	f_B	$\eta_{4/4\ load}$ [%]	$\eta_{3/4\ load}$ [%]	cos φ	I_A/I_N	T_A/T_N	T_K/T_N	T_H/T_N
230	YY	60	0.750	1.00	3.18	1,760	4.06	IE3	CONT.	23.857	300.21	1.60	83.5	82.6	0.71	8.30	3.10	4.70	3.40
460	Y	60	0.750	1.00	1.59	1,760	4.06	IE3	CONT.	23.857	300.21	1.60	83.5	82.6	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 Jmot	0.00290 kgm²
Terminal box position	(M56) 1B
Electrical connection at terminal box	(M45) Cable gland NPT
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR FDZW49-LE80ZMQ4P
Gearbox	Parallel shaft gearbox FDZW49
Mounting type gearbox	Housing flange
Output shaft	V40 x 80 mm (Solid shaft with feather key)
Mounting position	(D02) M2
Transmission ratio	73.77 (11951 / 162)
Nominal torque	480.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	2.3 l
Specification	CE (Europe / other countries)
Additional specifications	(N38) UL-R/CSA (North America)
Environment temperature	-15 ... +40 °C
Weight without oil	33.5 kg
Housing material first gearbox	Cast iron

General options

Surface treatments	Painted
Coating	(L02) Coating for normal environmental stress C1
RAL Color	(L75) 7016 anthracite gray
Coating on flange	-
Packing	Standard packing
Liability for defects	12 months from date of delivery (standard)

Further information

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

Gearbox options

Hollow shaft cover	Sealing cap
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
Backlash Design	(G99)
Torsional backlash	6.40 arcmin

Motor options

Motor protection	Without

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