SIEMENS

Datasheet for SIMOGEAR Geared Motors

19.42

MLFB-Ordering data : **2KJ3513-6MF33-9FB1-Z**

D15+H09+K01+K06+L04+L75+M11+M69+N2A+P91

Client order no. :
Order no. :
Offer no. :
Item no. :
Consignment 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	D	50	37.000	49.61	115.00	1,478	239.07	IE3	S1	216.715	1,630.47	2.23	93.9	94.5	0.86	6.40	2.50	2.70	2.80
400	Y	50	37.000	49.61	66.00	1,478	239.07	IE3	S1	216.715	1,630.47	2.23	93.9	94.5	0.86	6.40	2.50	2.70	2.80
460	Y	60	42.500	56.99	66.00	1,778	228.27	IE2	S1	260.703	1,556.84	2.33	93.6	94.1	0.86	6.70	2.40	2.70	2.60
400	D	87	55.500	74.42	100.00	2,592	204.48	-	INV.DUTY	380.058	1,394.59	2.60	93.9	0.0	0.85	0.00	0.00	3.10	0.00
460	D	104	63.800	85.55	100.00	3,104	196.29	-	INV.DUTY	455.131	1,338.71	2.71	95.4	0.0	0.84	0.00	0.00	3.00	0.00

Motor type	1LE motor with Premium Efficiency LES225SD4P
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	155 (F)
Moment of inertia Jmot	0.42000 kgm²
Terminal box position	(M69) 4C
Electrical connection at terminal box	Cable gland metric
Ventilation	Standard fan

Geared motor

Type designation	SIMOGEAR KAF149-LES225SD4P
Gearbox	Bevel gearbox KAF149
Mounting type gearbox	Flange-mounted design
Output shaft	H80 mm (Hollow shaft)
Mounting position	(D15) M5 output side A
Transmission ratio	6.82 (89,528 / 13,125)
Nominal torque	3,630.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	22.5 l
Specification	CE (Europe / other countries)
Environment temperature	-15 ... +40 °C
Weight without oil	593.0 kg
Housing material first gearbox	Cast iron

General options

Surface treatments	Painted
Coating	(L04) Coating for medium environmental stress C3
RAL Color	(L75) 7016 anthracite gray
Coating on flange	-
Packing	Standard packing

Further information

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

Gearbox options

Flange diameter	(H09) 450 mm
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

Motor options

Motor protection	(M11) Temperature sensor PTC thermistor, warning and disconnection
External ground screw	(N53)

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 motor torque
IE-CL = Efficiency class
n_2 = Geared motor output speed
T_2 = 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