



19.42

Datasheet for SIMOGEAR Geared Motors

MLFB-Ordering data : 2KJ3411-5JU22-9FL1-Z
D02+G34+H10+K01+K06+L03+L75+M10+M23+M55+N30+N6B+P91

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 _{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
[V]		[Hz]	[kW]	[hp]	[A]	[rpm]	[Nm]			[rpm]	[Nm]		[%]	[%]					
400	Y	50	15.000	20.11	28.00	1,475	97.11	IE2	S1	10.478	13,671.50	0.99	90.6	91.2	0.85	7.30	2.30	3.00	2.50
400	Y	50	15.000	20.11	28.00	1,475	97.11	-	INV.DUTY	10.478	13,671.50	0.99	90.6	91.2	0.85	7.30	2.30	3.00	2.50

Motor type	1LE motor with High Efficiency LE160LD4EF
Number of poles	4-pole
Degree of protection	(K01) IP55
Thermal class	155 (F)
Moment of inertia J_{mot}	0.07100 kgm ²

Terminal box position	(M55) 1A
Electrical connection at terminal box	Cable gland metric
Ventilation	(M23) External fan

Geared motor

Type designation	SIMOGEAR FDAF169-LE160LD4EF
Gearbox	Parallel shaft gearbox FDAF169
Mounting type gearbox	Flange-mounted design
Output shaft	H100 mm (Hollow shaft)
Mounting position	(D02) M2
Transmission ratio	140.77 (55,040 / 391)
Nominal torque	13,600.00 Nm
Gear oil	(K06) Mineral oil CLP VG220
Oil charge	52.2 l
Specification	CE (Europe / other countries)
Additional specifications	(N30) EAC (Russia)
Environment temperature	-15 ... +40 °C
Weight without oil	602.0 kg
Housing material first gearbox	Cast iron

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

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	(H10) 550 mm
Hollow shaft cover	Sealing cap
Output shaft bearing	Standard bearing
Output shaft sealing	Standard sealing
Gearbox breather	Pressure breather valve
Oil level control	(G34) Oil sight glass
Oil drain	Oil drain plug

Motor options

Motor protection	(M10) Temperature sensor PTC thermistor, disconnection
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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

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