

MLFB-Ordering data 1FG1602-5RC46-2FU1-Z
D14+G23+K08+N23+X01



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

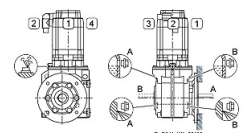
Gear box type	C39A	Radial force maximum	6160 N
Gearbox basic type	Helical worm gearbox	Max. permissible radial force with Mmax	5970 N
Gearbox size	39	Moment of inertia	0.06 kgcm ²
Transmission (ratio)	49.87	Torsional stiffness	-/-
Gear number relation	748/15	Efficiency	0.89
Output moment maximum (short-time)	250 Nm	Mounting position	M4-A
max. input speed (briefly)	4500 rpm	Mounting type	Flange version (A type)
Output speed short-time	90 rpm	Output shaft version	Hollow shaft standard
Emergency off output moment (1000 cycles)	250 Nm	Output shaft dimension	H25 mm
		Gearbox flange diameter	160 mm
		Output shaft bearing	No
		Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Jet black, matt RAL 9005
Specification	CE / UL / CSA / EAC / cRUus
Net weight	11.08 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	65
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Polyglycol oil CLP ISO PG VG460
Output shaft sealing	Seal longer service life
Oil charge	0.60 l



SIEMENS

Data sheet for SIMOTICS S-1FG1

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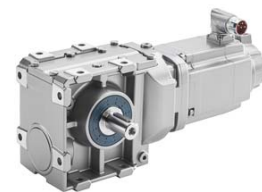


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	10000 rpm
Motor type	Compact	Maximum torque	6.50 Nm
DC-link voltage, max.	510...720V	Motor current short term	8.0 A
Shaft height	36 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	6000 rpm
Rated speed	6000 rpm	Optimum power	0.48 kW
Rated torque (100K)	0.77 Nm	Recommended Motor Module	
Rated power	0.49 kW	Rated inverter current	3.0 A
Rated current (100K)	1.08 A	Maximum inverter current	9.0 A
Static torque	1.40 Nm	Maximum torque	6.5 Nm
Static current	1.69 A	Holding brake	
Moment of inertia	1.00000 kgcm ²	Holding brake	with holding brake
Efficiency η	87 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{1Br} / M_{2Br}	1.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M_{4Br}	1.90 Nm
		Opening time	50.0 ms
		Closing time	30.0 ms
		Maximum switching energy per braking action	40.0 J

Info servo geared motor

Outside the standard temperature range of -10 to +40 °C, further selectable options must be observed, in addition to the lubricant selection.

Further, you have to check the suitability of the components and options used for the requested temperature range.

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Options		Standards	
D14	M4-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
K08	Polyglycol oil CLP ISO PG VG460		
N23	Standard holding brake (permanent magnet brake)	CE marking	EN 60034
X01	Paint finish: Jet black, matt RAL 9005		