

MLFB-Ordering data 1FG1603-5RE14-4FS1-Z
D15+G24+G53+K08+N23+Q92



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

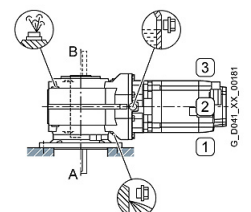
Gear box type	C49	Radial force maximum	2980 N
Gearbox basic type	Helical worm gearbox	Max. permissible radial force with Mmax	2980 N
Gearbox size	49	Moment of inertia	0.12 kgcm ²
Transmission (ratio)	39.33	Torsional stiffness	-/-
Gear number relation	118/3	Efficiency	0.89
Output moment maximum (short-time)	400 Nm	Mounting position	M5-A
max. input speed (briefly)	4500 rpm	Mounting type	Flange version (A type)
Output speed short-time	114 rpm	Output shaft version	Hollow shaft standard
Emergency off output moment (1000 cycles)	450 Nm	Output shaft dimension	H30 mm
		Gearbox flange diameter	200 mm
		Output shaft bearing	No
		Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	28.79 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	70
Plug position	bottom (4)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Polyglycol oil CLP ISO PG VG460
Output shaft sealing	Seal increased environmental load
Oil charge	1.10 l



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Data sheet for SIMOTICS S-1FG1

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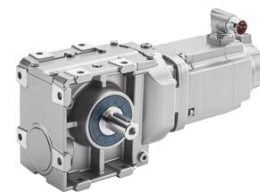


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	7500 rpm
Motor type	High Dynamic	Maximum torque	17.30 Nm
DC-link voltage, max.	510...720V	Motor current short term	26.5 A
Shaft height	63 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	4050 rpm
Rated speed	4500 rpm	Optimum power	1.66 kW
Rated torque (100K)	3.45 Nm	Recommended Motor Module	
Rated power	1.63 kW	Rated inverter current	9.0 A
Rated current (100K)	5.40 A	Maximum inverter current	27.0 A
Static torque	6.20 Nm	Maximum torque	17.3 Nm
Static current	8.60 A	Holding brake	
Moment of inertia	5.10000 kgcm ²	Holding brake	with holding brake
Efficiency η	91 %	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}	8.50 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}	13.00 Nm
		Opening time	100.0 ms
		Closing time	50.0 ms
		Maximum switching energy per braking action	380.0 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	
D15	M5-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G24	Seal increased environmental load		
G53	Oil drain plug magnetic		
K08	Polyglycol oil CLP ISO PG VG460	CE marking	EN 60034
N23	Standard holding brake (permanent magnet brake)		
Q92	Plug position bottom		