

MLFB-Ordering data 1FG1605-5PF12-2DU1-Z
D23+G24+K08+K82+N30



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

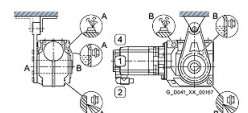
Gear box type	C89	Radial force maximum	8620 N
Gearbox basic type	Helical worm gearbox	Max. permissible radial force with Mmax	8350 N
Gearbox size	89	Moment of inertia	0.89 kgcm ²
Transmission (ratio)	55.61	Torsional stiffness	-/-
Gear number relation	1001/18	Efficiency	0.91
Output moment maximum (short-time)	1480 Nm	Mounting position	M3-B
max. input speed (briefly)	4500 rpm	Mounting type	Torque plate
Output speed short-time	81 rpm	Output shaft version	Hollow shaft standard
Emergency off output moment (1000 cycles)	1480 Nm	Output shaft dimension	H50 mm
		Gearbox flange diameter	-/-
		Output shaft bearing	No
		Figure 2 torque support	1

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	65.00 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75
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 increased environmental load
Oil charge	5.00 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)	6000 rpm
Motor type	Compact	Maximum torque	37.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	17.2 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	1.90 kW
Rated torque (100K)	9.10 Nm	Recommended Motor Module	
Rated power	1.91 kW	Rated inverter current	5.0 A
Rated current (100K)	4.00 A	Maximum inverter current	15.0 A
Static torque	11.00 Nm	Maximum torque	33.3 Nm
Static current	4.65 A	Holding brake	
Moment of inertia	22.32280 kgcm²	Holding brake	spring-loaded brake (shaft height 80 - 100)
Efficiency η	92 %	Holding brake version	Spring-type brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{1Br} / M_{2Br}	11.00 Nm
Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)	Holding torque M_{4Br}	8.00 Nm
		Opening time	150.0 ms
		Closing time	150.0 ms
		Maximum switching energy per braking action	2800.0 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	
D23	M3-B for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G24	Seal increased environmental load		
K08	Polyglycol oil CLP ISO PG VG460		
K82	Manual brake release (only for working brakes)	CE marking	EN 60034
N30	Spring-loaded brake		