

Article No. : 1FG1605-2PF03-2AR1-Z
D14+K12+N23



Figure similar

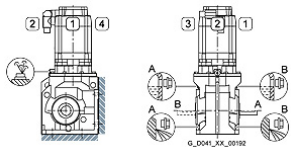
Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	C89
Gearbox basic type	Helical worm geared C
Gearbox size	89
Transmission (ratio)	41.74
Gear number relation	1628/39
Output moment maximum (short-time)	945 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	108 rpm
Emergency off output moment (1000 cycles)	1,480 Nm
Radial force maximum	7,680 N
Max. permissible radial force with Mmax	6,870 N
Moment of inertia	1.35 kgcm ²
Torsional stiffness	-/-
Efficiency	0.91
Mounting position	M4-A
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard II
Output shaft dimension	V50 x 100 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	66.03 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	Poly-alpha-olefin oil CLP ISO PAO VG220
Output shaft sealing	Standard
Oil charge	5.00 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	80 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	5.60 Nm
Rated power	1.76 kW
Rated current (100K)	3.70 A
Static torque	7.00 Nm
Static current	4.30 A
Moment of inertia	17.50000 kgcm ²
Efficiency η	92 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)

Limiting data	
Maximum speed (short-time)	6,000 rpm
Maximum torque	25.00 Nm
Motor current short term	18.0 A

Optimum operating point	
Optimum speed	3,000 rpm
Optimum power	1.76 kW



Data sheet for SIMOTICS S-1FG1

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Recommended Motor Module	
Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	22.1 Nm

Holding brake	
Holding brake	with holding brake
Holding brake version	Permanent-magnet brake
Power supply voltage	DC 24 V ± 10 %
Dynamic braking torque M _{1Br}	11.00 Nm
Holding torque M _{4Br}	22.00 Nm
Opening time	200.0 ms
Closing time	60.0 ms
Maximum switching energy per braking action	1,400.0 J

Standards	
Compliance with standards	CE / UL / CSA / EAC / cRUus
CE marking	EN 60034

Options	
D14	M4-A for bevel and worm gearboxes
K12	Poly-alpha-olefin oil CLP ISO PAO VG220
N23	Standard holding brake (permanent magnet brake)

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.