

Article No. : 1FG1602-5PE04-2FK1-Z
D22+G23+K08+Q92

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

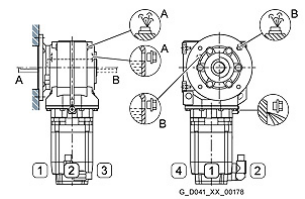
Item no. :
Consignment no. :
Project :

Figure similar

Gearbox data	
Gear box type	C39A
Gearbox basic type	Helical worm gearbox
Gearbox size	39
Transmission (ratio)	17.60
Gear number relation	88/5
Output moment maximum (short-time)	240 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	256 rpm
Emergency off output moment (1000 cycles)	255 Nm
Radial force maximum	3,660 N
Max. permissible radial force with Mmax	3,490 N
Moment of inertia	0.19 kgcm ²
Torsional stiffness	-/-
Efficiency	0.92
Mounting position	M2-B
Mounting type	Flange version (A type)
Output shaft version	Hollow shaft standard
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	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	14.23 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 longer service life
Oil charge	0.70 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	63 mm
Cooling	Natural cooling
Rated speed	4,500 rpm
Rated torque (100K)	3.30 Nm
Rated power	1.56 kW
Rated current (100K)	3.95 A
Static torque	5.30 Nm
Static current	5.70 A
Moment of inertia	7.70 kgcm ²
Efficiency η	91 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)

Limiting data	
Maximum speed (short-time)	7,200 rpm
Maximum torque	18.00 Nm
Motor current short term	21.5 A

Optimum operating point	
Optimum speed	4,500 rpm
Optimum power	1.55 kW



Data sheet for SIMOTICS S-1FG1

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Recommended Motor Module	
Rated inverter current	9.0 A
Maximum inverter current	27.0 A
Maximum torque	18.0 Nm

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

Options	
D22	M2-B for bevel and worm gearboxes
G23	Seal longer service life
K08	Polyglycol oil CLP ISO PG VG460
Q92	Plug position bottom

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.