

## Data sheet for SIMOTICS S-1FG1

Article No. : **1FG1502-9PD34-4DW1-Z  
D11+H3A+K07**



Figure similar

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

Item no. :  
Consignment no. :  
Project :

### Gearbox data

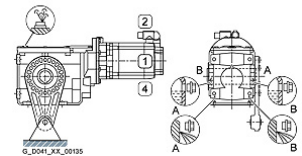
Gear box type	B39
Gearbox basic type	Bevel geared B / K
Gearbox size	39
Transmission stages	2
Transmission (ratio)	44.00
Gear number relation	44/1
Output moment maximum (short-time)	250 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	102 rpm
Emergency off output moment (1000 cycles)	425 Nm
Radial force maximum	6,980 N
Max. permissible radial force with Mmax	6,980 N
Moment of inertia	0.09 kgcm <sup>2</sup>
Torsional stiffness	40 Nm/°
Efficiency	0.94
Mounting position	M1-A
Mounting type	Torque plate
Output shaft version	Hollow shaft S disk standard I
Output shaft dimension	HS35 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
Figure 2 torque support	1

### General tech. specifications

Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	16.97 kg
1 m-sound pressure level L <sub>pA</sub> (Tol.+3dB(A))	65
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

### Lubrication and sealing

Gear oil	Synthetic oil CLP PG VG220
Output shaft sealing	Standard
Oil charge	0.45 l



### Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
DC-link voltage, max.	510...720V
Shaft height	48 mm
Cooling	Natural cooling
Rated speed	4,500 rpm
Rated torque (100K)	2.20 Nm
Rated power	1.04 kW
Rated current (100K)	3.00 A
Static torque	3.30 Nm
Static current	4.10 A
Moment of inertia	1.00 kgcm <sup>2</sup>
Efficiency η	91 %
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)	9,000 rpm
Maximum torque	10.00 Nm
Motor current short term	12.5 A

### Optimum operating point

Optimum speed	4,500 rpm
Optimum power	1.05 kW

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### Recommended Motor Module

Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	10.0 Nm

### Standards

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

### Options

D11	M1-A for bevel and worm gearboxes
H3A	Hollow shaft S disk standard I
K07	Polyglycol oil CLP ISO PG VG220

### 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.