

Data sheet for SIMOTICS S-1FT2

Article No. : 1FT2106-6AF10-1MB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	High Dynamic
Static torque	16.00 Nm
Static current	14.3 A
Maximum torque	45.50 Nm
Maximum current	49.0 A
Maximum speed	7,600 rpm
Rotor moment of inertia	10.4000 kgcm ²
Weight	13.4 kg

Rated data

SINAMICS S120, BLM/SLM 3AC 400V

Rated speed	3,000 rpm
Rated torque	10.60 Nm
Rated current	9.7 A
Rated power	3.30 kW

Encoder system

Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multitrurn
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Motor connection

Connection type	Double cable connection for S120
Connector size	M23

Mechanical data

Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	63
Flange size (AB)	125 mm
Centering ring (N)	110 mm
Hole circle (M)	130 mm
Screw-on hole (S)	9.0 mm
Overall length (LB)	283 mm
Diameter of shaft (D)	24 mm
Length of shaft (E)	50 mm
Length of flange diagonal (P)	158 mm
Shaft end	Fitted key
Color of the housing	Standard (Anthracite, similar to RAL 7016)



Holding brake

Holding torque	16.00 Nm
Average dynamic torque	9.00 Nm
Opening time	100 ms
Closing time	50 ms
Maximum single switching energy ¹⁾	1,065 J
Service life, operating energy	774,000 J
Rated current ²⁾	0.7 A

¹⁾ Up to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

²⁾ Typical value for 20°C ambient temperature. At -15°C the brake-induced currents can be increased by up to 30%.