

## Data sheet for SIMOTICS S-1FT2

Article No. : 1FT2108-7AC11-0MB0



Figure similar

Client order no. :  
Order no. :  
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Item no. :  
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### Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65
Motor type	High Dynamic
Static torque	37.50 Nm
Static current	22.0 A
Maximum torque	140.00 Nm
Maximum current	123.0 A
Maximum speed	5,600 rpm
Rotor moment of inertia	32.2000 kgcm <sup>2</sup>
Weight	27.7 kg

### Rated data

SINAMICS S120, BLM/SLM 3AC 400V

Rated speed	2,000 rpm
Rated torque	26.00 Nm
Rated current	16.0 A
Rated power	5.40 kW

### Encoder system

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

Connection type	Double cable connection for S120
Connector size power connector	M17
Connector size signal connector	M17

### Mechanical data

Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	80
Flange size (AB)	155 mm
Centering ring (N)	130 mm
Hole circle (M)	165 mm
Screw-on hole (S)	11.0 mm
Overall length (LB)	340 mm
Diameter of shaft (D)	32 mm
Length of shaft (E)	58 mm
Length of flange diagonal (P)	194 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)



### Holding brake

Holding torque	36.00 Nm
Average dynamic torque	15.00 Nm
Opening time	200 ms
Closing time	60 ms
Maximum single switching energy <sup>1)</sup>	1,300 J
Service life, operating energy	2,400,000 J
Rated current <sup>2)</sup>	0.9 A

<sup>1)</sup>Up to three consecutive emergency stops and up to 25% of all emergency stops as a W<sub>max</sub> high energy stop possible.

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