SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. : **1FK2106-6AF10-1MB0**

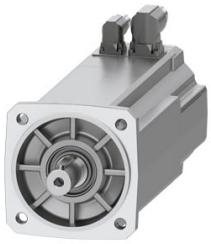


Figure similar

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

Item no. :
Consignment no. :
Project :

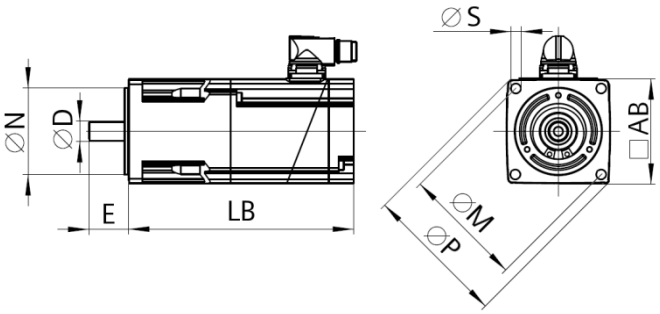
Basic motor data	
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	High Dynamic
Static torque	16.00 Nm
Static current	14.3 A
Maximum torque	45.50 Nm
Maximum current	49.0 A
Maximum speed	6,000 rpm
Rotor moment of inertia	10.4000 kgcm²
Weight	13.4 kg

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 multiturn
Safety Integrated - Suitable encoder	Yes

Motor connection	
Connection type	Double cable connection for S120
Connector size power connector	M23
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	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)] Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.