SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2104-4AK10-0MB0

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

Basic mo	otor data
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	High Dynamic
Static torque	1.27 Nm
Static current	2.4 A
Maximum torque	3.85 Nm
Maximum current	8.7 A
Maximum speed	8,000 rpm
Rotor moment of inertia	0.4300 kgcm²
Weight	2.9 kg

	Rated	data
S	INAMICS S120, BLM/SLM 3AC 400V	
	Rated speed	6,000 rpm
	Rated torque	0.95 Nm
	Rated current	1.9 A
	Rated power	0.60 kW

	Encoder system
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

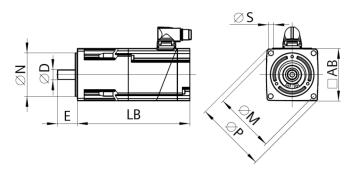
ľ	Motor connection
Connection type	Double cable connection for S120
Connector size	M17



Item no. : Consignment no. : Project :

Figure sim						

Mecha	anical data
Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	40
Flange size (AB)	80 mm
Centering ring (N)	70 mm
Hole circle (M)	90 mm
Screw-on hole (S)	6.5 mm
Overall length (LB)	142 mm
Diameter of shaft (D)	19 mm
Length of shaft (E)	40 mm
Length of flange diagonal (P)	105 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)



Holdii	ng brake
Holding torque	3.30 Nm
Average dynamic torque	3.30 Nm
Opening time	110 ms
Closing time	40 ms
Maximum single switching energy 1)	270 J
Service life, operating energy	35,000 J
Rated current ²⁾	0.5 A

 $^{^{1)}\}mbox{Up}$ 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%.