## SIEMENS

Data sheet for SIMOTICS S-1FK2

## Article No. :

## 1FK2104-6AF10-0SB0



Figure similar

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

Encoder system

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	High Dynamic	
Static torque	3.20 Nm	
Static current	3.0 A	
Maximum torque	10.00 Nm	
Maximum current	10.9 A	
Maximum speed	7,200 rpm	
Rotor moment of inertia	0.8400 kgcm <sup>2</sup>	
Weight	4.2 kg	
Rated data		

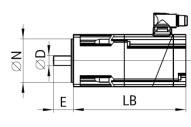
SINAMICS S120, BLM/SLM 3AC 400V		
Rated speed	3,000 rpm	
Rated torque	3.20 Nm	
Rated current	3.0 A	
Rated power	1.00 kW	

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)	188 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)

Mechanical data

Grade A

IM B5 (IM V1, IM V3)



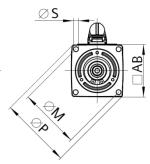
Item no. :

Project :

Consignment no. :

Design acc. to Code I

Vibration severity grade



Holding 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 Ј	
Service life, operating energy	35,000 J	
Rated current <sup>2)</sup>	0.5 A	

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

<sup>21</sup>Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.

Encoder system	
	Encoder AS22DQC: Absolute encoder single turn 22 bit

Motor connection	
Double cable connection for S120	
M17	