SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2104-4AK10-2SB0



Figure similar

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

Encoder system

Connection type

Connector size

Basic motor 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		

SINAMICS 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

Motor connection

M17

Encoder AS22DQC: Absolute encoder

Double cable connection for S120

single turn 22 bit

Hole circle (M)	90 mm
. ,	6.5 mm
Screw-on hole (S)	
Overall length (LB)	142 mm
Diameter of shaft (D)	14 mm
Length of shaft (E)	30 mm
Length of flange diagonal (P)	105 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, 7016)
	ØS
1	

Mechanical data

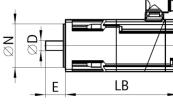
Grade A

80 mm

70 mm

40

IM B5 (IM V1, IM V3)



Item no. :

Project :

Consignment no. :

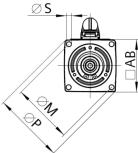
Design acc. to Code I

Shaft height

Flange size (AB)

Centering ring (N)

Vibration severity grade



similar to RAL

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 J	
Service life, operating energy	35,000 J	
Rated current ²⁾	0.5 A	

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

 $^{2)}Typcial value for 20^{\circ}C$ ambient temperature. At -15 $^{\circ}C$ the break-induced currents can be increased by up to 30%.