SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2104-4AF11-0MB0



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

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65	
Motor type	High Dynamic	
Static torque	1.27 Nm	
Static current	1.2 A	
Maximum torque	3.75 Nm	
Maximum current	4.2 A	
Maximum speed	7,200 rpm	
Rotor moment of inertia	0.4300 kgcm²	
Weight	2.9 kg	
Rated data		

Rated data

SINAMICS S120, BLM/SLM 3AC 400V		
Rate	ed speed	3,000 rpm
Rate	ed torque	1.27 Nm
Rate	ed current	1.2 A
Rate	ed power	0.40 kW
Encoder system		

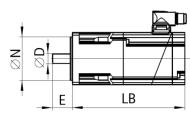
Encoder system	

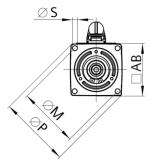
Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

Motor connection	
Connection type	Double cable connection for \$120
Connector size	M17

Item no. : Consignment no. : Project :

Mechanical 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)	





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°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.