## **SIEMENS**

## **Data sheet for SIMOTICS S-1FK2**

Article No.: 1FK2204-5AK11-0MB0

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

Basic motor data				
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65			
Motor type	Compact			
Static torque	2.40 Nm			
Static current	4.4 A			
Maximum torque	7.10 Nm			
Maximum current	14.2 A			
Maximum speed	8,000 rpm			
Rotor moment of inertia	1.3100 kgcm²			
Weight	3.8 kg			

	Rated data				
S	INAMICS S120, BLM/SLM 3AC 400V				
	Rated speed	6,000 rpm			
	Rated torque	0.90 Nm			
	Rated current	2.0 A			
	Rated power	0.57 kW			

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

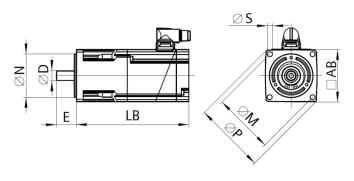
Motor connection				
Connection type	Double cable connection for S120			
Connector size	M17			



Item no. : Consignment no. : Project :

		e				

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)	170 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 <sup>2)</sup>	0.5 A	

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

<sup>&</sup>lt;sup>2)</sup>Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.