SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2103-4AH10-1SA0

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

Basic motor data				
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64			
Motor type	High Dynamic			
Static torque	1.27 Nm			
Static current	1.9 A			
Maximum torque	4.05 Nm			
Maximum current	7.1 A			
Maximum speed	8,000 rpm			
Rotor moment of inertia	0.1580 kgcm²			
Weight	2.0 kg			

Encoder system					
Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit				

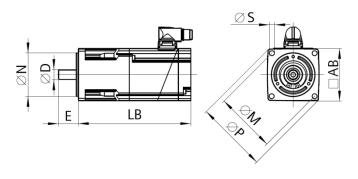
Motor connection					
Connection type	OCC for S210				
Connector size	M17				



Item no. : Consignment no. : Project :

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Mechanical data					
Design acc. to Code I	IM B5 (IM V1, IM V3)				
Vibration severity grade	Grade A				
Shaft height	30				
Flange size (AB)	60 mm				
Centering ring (N)	50 mm				
Hole circle (M)	70 mm				
Screw-on hole (S)	5.4 mm				
Overall length (LB)	155 mm				
Diameter of shaft (D)	14 mm				
Length of shaft (E)	30 mm				
Length of flange diagonal (P)	81 mm				
Shaft end	Fitted key				
Color of the housing	Standard (Anthracite, similar to RAL 7016)				



Holding brake		
Holding torque	1.30 Nm	
Average dynamic torque	1.30 Nm	
Opening time	40 ms	
Closing time	30 ms	
Maximum single switching energy 1)	62 J	
Service life, operating energy	17,500 J	
Holding current ²⁾	0.15 A	
Break-induced current for 500 ms ²⁾	0.8 A	

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

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