SIEMENS

Data sheet for SIMOTICS S-1FK2

1FK2203-2AG10-0SA0 Article No.:

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

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	Compact	
Static torque	0.64 Nm	
Static current	1.4 A	
Maximum torque	1.85 Nm	
Maximum current	4.2 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.2200 kgcm²	
Weight	1.5 kg	

Rated data			
SINAMICS S210, 1AC 230V			
	Rated speed	3,000 rpm	
	Rated torque	0.64 Nm	
	Rated current	1.4 A	
	Rated power	0.20 kW	

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

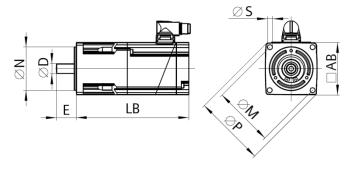
Motor connection		
Connection type	OCC for S210	
Connector size	M12	



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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)	5.5 mm		
Overall length (LB)	131 mm		
Diameter of shaft (D)	14 mm		
Length of shaft (E)	30 mm		
Length of flange diagonal (P)	81 mm		
Shaft end	Plain shaft		
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%.