

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2104-5AF11-1MA0

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	2.40 Nm			
Static current	2.1 A			
Maximum torque	7.50 Nm			
Maximum current	7.6 A			
Maximum speed	6,700 rpm			
Rotor moment of inertia	0.6500 kgcm²			
Weight	3.7 kg			

	Rated data				
S	SINAMICS S210, 3AC 400V				
	Rated speed	3,000 rpm			
	Rated torque	2.40 Nm			
	Rated current	2.1 A			
	Rated power	0.75 kW			

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

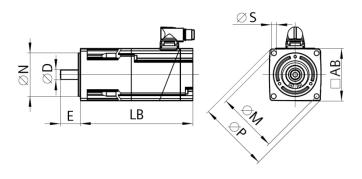
Motor connection				
Connection type	OCC for S210			
Connector size	M17			



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	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	Fitted key			
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	50 ms		
Closing time	40 ms		
Maximum single switching energy 1)	270 J		
Service life, operating energy	120,000 J		
Holding current ²⁾	0.2 A		
Break-induced current for 500 ms ²⁾	1.2 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%.