

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2205-2AF11-1MA0

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	3.60 Nm			
Static current	2.9 A			
Maximum torque	10.80 Nm			
Maximum current	9.5 A			
Maximum speed	6,000 rpm			
Rotor moment of inertia	4.0500 kgcm²			
Weight	4.8 kg			

Rated data					
SINAMICS S210, 3AC 400V					
	Rated speed	3,000 rpm			
	Rated torque	3.00 Nm			
	Rated current	2.5 A			
	Rated power	0.94 kW			

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

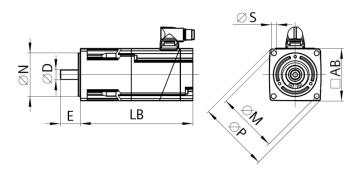
	Motor connection	
Connection type	OCC for S210	
Connector size	M17	



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	48				
Flange size (AB)	95 mm				
Centering ring (N)	80 mm				
Hole circle (M)	100 mm				
Screw-on hole (S)	6.5 mm				
Overall length (LB)	188 mm				
Diameter of shaft (D)	19 mm				
Length of shaft (E)	40 mm				
Length of flange diagonal (P)	120 mm				
Shaft end	Fitted key				
Color of the housing	Standard (Anthracite, similar to RAL 7016)				



Holding brake					
Holding torque	8.00 Nm				
Average dynamic torque	5.00 Nm				
Opening time	35 ms				
Closing time	20 ms				
Maximum single switching energy 1)	570 J				
Service life, operating energy	284,000 J				
Holding current ²⁾	0.3 A				
Break-induced current for 500 ms ²⁾	1.1 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%.