

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2206-4AF10-0MA0

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	12.00 Nm			
Static current	7.9 A			
Maximum torque	36.00 Nm			
Maximum current	29.5 A			
Maximum speed	5,800 rpm			
Rotor moment of inertia	16.8000 kgcm²			
Weight	10.6 kg			

	Rated data				
5	SINAMICS S210, 3AC 400V				
	Rated speed	3,000 rpm			
	Rated torque	9.10 Nm			
	Rated current	6.2 A			
	Rated power	2.85 kW			

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

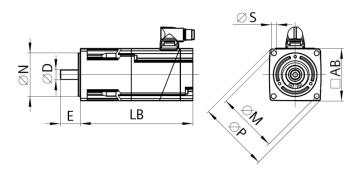
Motor connection			
Connection type	OCC for S210		
Connector size	M23		



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	63				
Flange size (AB)	125 mm				
Centering ring (N)	110 mm				
Hole circle (M)	130 mm				
Screw-on hole (S)	9.0 mm				
Overall length (LB)	244 mm				
Diameter of shaft (D)	24 mm				
Length of shaft (E)	50 mm				
Length of flange diagonal (P)	158 mm				
Shaft end	Plain shaft				
Color of the housing	Standard (Anthracite, similar to RAL 7016)				



Holding brake					
Holding torque	13.00 Nm				
Average dynamic torque	6.50 Nm				
Opening time	70 ms				
Closing time	35 ms				
Maximum single switching energy 1)	1,550 J				
Service life, operating energy	774,000 J				
Holding current ²⁾	0.35 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%.