

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2104-4AK10-1MA0

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	2.4 A	
Maximum torque	3.85 Nm	
Maximum current	8.7 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.4300 kgcm²	
Weight	2.9 ka	

Rated data		
SINAMICS S210, 3AC 400V		
	Rated speed	6,000 rpm
	Rated torque	0.95 Nm
	Rated current	1.9 A
	Rated power	0.60 kW

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

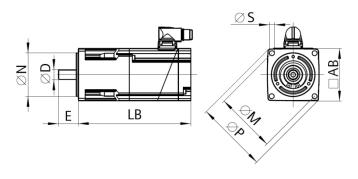
	Motor connection
Connection type	OCC for S210
Connector size	M17



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)	142 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%.