SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2104-4AK10-2SA0

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 kg	

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	

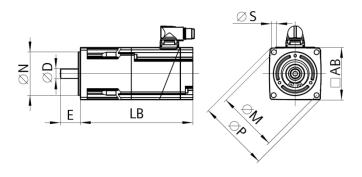
Encoder system		
Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit	

Motor connection		
Connection type	OCC for S210	
Connector size	M17	



Item no. : Consignment no. : Project :

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)	14 mm	
Length of shaft (E)	30 mm	
Length of flange diagonal (P)	105 mm	
Shaft end	Plain shaft	
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°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.