SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2203-4AK10-1SA0



Figure simila

Client order no. : Order no. : Offer no. : Remarks :

Rated torque

Rated current

Rated power

Encoder system

Connection type

Connector size

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	Compact	
Static torque	1.27 Nm	
Static current	2.1 A	
Maximum torque	3.75 Nm	
Maximum current	6.7 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.3700 kgcm ²	
Weight	2.0 kg	
Rated data		
SINAMICS S210, 3AC 400V		
Rated speed	6,000 rpm	

0.68 Nm

0.43 kW

OCC for S210

Encoder AS22DQC: Absolute encoder single turn 22 bit

1.2 A

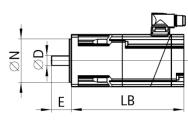
Encoder system

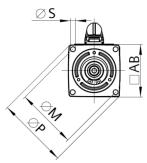
Motor connection

M17

ltem no. : Consignment no. : Project :

Mechanical data		
Design acc. to Code I	IM B5 (IM V1, IM V3)	
Vibration severity grade	Grade A	
Shaft height	30	
Flange size (AB)	60 mm	
Centering ring (N)	50 mm	
Hole circle (M)	70 mm	
Screw-on hole (S)	5.4 mm	
Overall length (LB)	155 mm	
Diameter of shaft (D)	14 mm	
Length of shaft (E)	30 mm	
Length of flange diagonal (P)	81 mm	
Shaft end	Fitted key	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	





Holding brake		
Holding torque	1.30 Nm	
Average dynamic torque	1.30 Nm	
Opening time	40 ms	
Closing time	30 ms	
Maximum single switching energy 1)	62 J	
Service life, operating energy	17,500 J	
Holding current ²⁾	0.15 A	
Break-induced current for 500 ms ²⁾	0.8 A	

¹⁾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%.