SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2102-1AG10-1MA0



Figure simila

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

Rated current

Rated power

Encoder system

Connection type

Connector size

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	High Dynamic	
Static torque	0.32 Nm	
Static current	0.8 A	
Maximum torque	1.11 Nm	
Maximum current	3.0 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.0400 kgcm²	
Weight	0.9 kg	
Rated data		
SINAMICS S210, 1AC 230V		
Rated speed	3,000 rpm	
Rated torque	0.32 Nm	

0.8 A

Encoder system

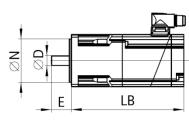
Motor connection

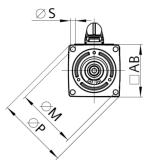
0.10 kW

OCC for S210 M12

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn 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	20
Flange size (AB)	40 mm
Centering ring (N)	30 mm
Hole circle (M)	46 mm
Screw-on hole (S)	4.5 mm
Overall length (LB)	137 mm
Diameter of shaft (D)	8 mm
Length of shaft (E)	25 mm
Length of flange diagonal (P)	54 mm
Shaft end	Fitted key
Color of the housing	Standard (Anthracite, similar to RAL 7016)





Holding brake		
Holding torque	0.32 Nm	
Average dynamic torque	0.32 Nm	
Opening time	25 ms	
Closing time	20 ms	
Maximum single switching energy 1)	7.4 J	
Service life, operating energy	1,750 J	
Holding current ²⁾	0.1 A	
Break-induced current for 500 ms ²⁾	0.6 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%.