SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2204-5AF10-2MA0



Figure similar

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	Compact			
Static torque	2.40 Nm			
Static current	2.3 A			
Maximum torque	7.10 Nm			
Maximum current	7.1 A			
Maximum speed	7,500 rpm			
Rotor moment of inertia	1.3100 kgcm²			
Weight	3.8 kg			
Rated data				
SINAMICS S210, 3AC 400V				
Rated speed	3,000 rpm			
Rated torque	2.40 Nm			

2.3 A

Encoder system

Motor connection

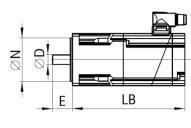
M17

0.75 kW

OCC for S210

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

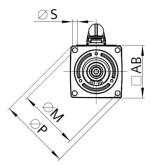
Mechanical data				
Design acc. to Code I	IM B5 (IM V1, IM V3)			
Vibration severity grade	Grade A			
Shaft height	40			
Flange size (AB)	80 mm			
Centering ring (N)	70 mm			
Hole circle (M)	90 mm			
Screw-on hole (S)	6.5 mm			
Overall length (LB)	170 mm			
Diameter of shaft (D)	14 mm			
Length of shaft (E)	30 mm			
Length of flange diagonal (P)	105 mm			
Shaft end	Plain shaft			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Item no. :

Project :

Consignment no. :



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⁾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%.