SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. : **1FK2203-4AG11-1MA0**



Figure similar

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

Item no. :
Consignment no. :
Project :

Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65
Motor type	Compact
Static torque	1.27 Nm
Static current	2.5 A
Maximum torque	3.75 Nm
Maximum current	7.8 A
Maximum speed	7,800 rpm
Rotor moment of inertia	0.3700 kgcm²
Weight	2.0 kg

Rated data

SINAMICS S210, 1AC 230V

Rated speed	3,000 rpm
Rated torque	1.27 Nm
Rated current	2.5 A
Rated power	0.40 kW

Encoder system

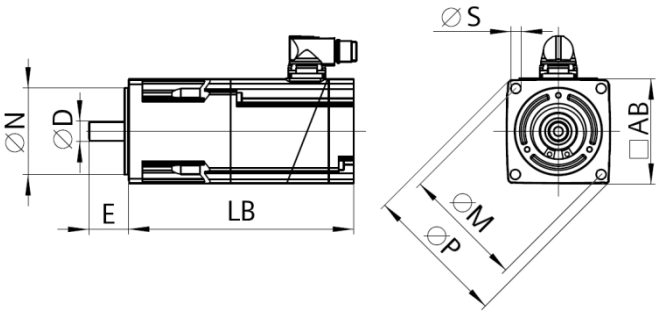
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn
Safety Integrated - Suitable encoder	Yes

Motor connection

Connection type	OCC for S210
Connector size OCC	M12

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)	5.5 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%.

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens