SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. : **1FK2210-4AC10-0MA0**

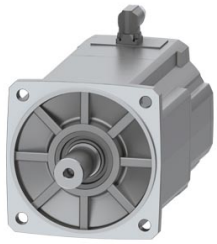


Figure similar

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

Item no. :
Consignment no. :
Project :

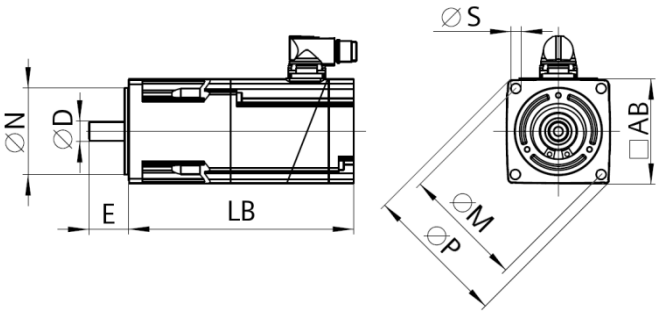
Basic motor data	
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	Compact
Static torque	40.00 Nm
Static current	15.0 A
Maximum torque	120.00 Nm
Maximum current	55.0 A
Maximum speed	3,300 rpm
Rotor moment of inertia	133.0000 kgcm²
Weight	31.0 kg

Rated data	
SINAMICS S210, 3AC 400V	
Rated speed	2,000 rpm
Rated torque	30.50 Nm
Rated current	11.8 A
Rated power	6.40 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	M23

Mechanical data	
Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	100
Flange size (AB)	192 mm
Centering ring (N)	180 mm
Hole circle (M)	215 mm
Screw-on hole (S)	14.0 mm
Overall length (LB)	282 mm
Diameter of shaft (D)	38 mm
Length of shaft (E)	80 mm
Length of flange diagonal (P)	244 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)



Holding brake	
Holding torque	55.00 Nm
Average dynamic torque	26.00 Nm
Opening time	130 ms
Closing time	65 ms
Maximum single switching energy [1]	8,700 J
Service life, operating energy	3,800,000 J
Holding current [2]	0.5 A
Break-induced current for 500 ms [2]	1.5 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%.