

Data sheet for SIMOTICS S-1FS2

Article No. : **1FS2104-6AF17-0MZO
Q1H**



Figure similar

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

Item no. :
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Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP66/67 IP69K
Static torque	3.10 Nm
Static current	2.75 A
Maximum torque	10.00 Nm
Maximum current	10.9 A
Maximum speed	7,200 rpm
Rotor moment of inertia	0.8000 kgcm ²
Weight	8.7 kg

Rated data

SINAMICS S210, 3AC 400V

Rated speed	3,000 rpm
Rated torque	2.55 Nm
Rated current	2.4 A
Rated power	0.80 kW

Encoder system

Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn
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Motor connection

Connection type	OCC for S210
Cable outlet	with M17 plug for increased chemical resistance
Cable length	4.0 m

Mechanical data

Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	40
Centering ring (N)	70 mm
Hole circle (M)	90 mm
Screw-on hole (S)	6.50 mm
Overall length (LB)	259 mm
Total length (L)	309 mm
Diameter of shaft (D)	19 mm
Length of shaft (E)	40 mm
Flange diameter (P)	110 mm
Shaft end	Plain shaft

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⁾	270.0 J
Service life, operating energy	120,000 J
Holding current ²⁾	0.20 A
Break-induced current for 500 ms ²⁾	1.20 A

Special design

Q1H Cable outlet with plug for increased chemical resistance, 4.0 m

¹⁾Up to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

²⁾Typical value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.