

## Data sheet for SIMOTICS S-1FK2

Article No. : 1FK2104-4AK10-0SA0



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### Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	High Dynamic
Static torque	1.27 Nm
Static current	2.4 A
Maximum torque	3.85 Nm
Maximum current	8.7 A
Maximum speed	8,000 rpm
Rotor moment of inertia	0.4300 kgcm <sup>2</sup>
Weight	2.9 kg

### Rated data

SINAMICS S210, 3AC 400V

Rated speed	6,000 rpm
Rated torque	0.95 Nm
Rated current	1.9 A
Rated power	0.60 kW

### Encoder system

Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit
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### Motor connection

Connection type	OCC for S210
Connector size OCC	M17

### 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)	142 mm
Diameter of shaft (D)	19 mm
Length of shaft (E)	40 mm
Length of flange diagonal (P)	105 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)



### 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 <sup>1)</sup>	270 J
Service life, operating energy	120,000 J
Holding current <sup>2)</sup>	0.2 A
Break-induced current for 500 ms <sup>2)</sup>	1.2 A

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

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

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