

## Data sheet for SIMOTICS S-1FK2

Article No. : 1FK2205-4AF10-0MA0



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Client order no. :  
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### Basic motor data

Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64
Motor type	Compact
Static torque	6.00 Nm
Static current	4.7 A
Maximum torque	18.00 Nm
Maximum current	15.1 A
Maximum speed	6,000 rpm
Rotor moment of inertia	6.0000 kgcm <sup>2</sup>
Weight	6.2 kg

### Rated data

SINAMICS S210, 3AC 400V

Rated speed	3,000 rpm
Rated torque	4.60 Nm
Rated current	3.8 A
Rated power	1.45 kW

### Encoder system

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

Connection type	OCC for S210
Connector size	M17

### Mechanical data

Design acc. to Code I	IM B5 (IM V1, IM V3)
Vibration severity grade	Grade A
Shaft height	48
Flange size (AB)	95 mm
Centering ring (N)	80 mm
Hole circle (M)	100 mm
Screw-on hole (S)	6.5 mm
Overall length (LB)	220 mm
Diameter of shaft (D)	19 mm
Length of shaft (E)	40 mm
Length of flange diagonal (P)	120 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)



### Holding brake

Holding torque	8.00 Nm
Average dynamic torque	5.00 Nm
Opening time	35 ms
Closing time	20 ms
Maximum single switching energy <sup>1)</sup>	570 J
Service life, operating energy	284,000 J
Holding current <sup>2)</sup>	0.3 A
Break-induced current for 500 ms <sup>2)</sup>	1.1 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%.