

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2204-6AF11-0MA0

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

| Basic motor data | | |
|-------------------------|---|--|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP65 | |
| Motor type | Compact | |
| Static torque | 3.20 Nm | |
| Static current | 3.0 A | |
| Maximum torque | 9.50 Nm | |
| Maximum current | 9.9 A | |
| Maximum speed | 7,600 rpm | |
| Rotor moment of inertia | 1.6900 kgcm² | |
| Weight | 4.3 kg | |

| SINAMICS S210, 3AC 400V | | |
|-------------------------|--|--|
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| Encoder system | |
|----------------|---|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn |

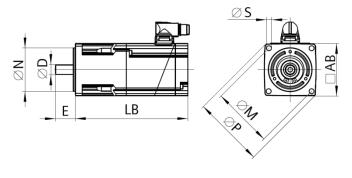
| Motor connection | | |
|------------------|--------------|--|
| Connection type | OCC for S210 | |
| Connector size | M17 | |



Item no. : Consignment no. : Project :

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| no.: | | |

| 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) | 188 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 1) | 270 J |
| Service life, operating energy | 120,000 J |
| Holding current ²⁾ | 0.2 A |
| Break-induced current for 500 ms ²⁾ | 1.2 A |

 $^{^{1)}\}mbox{Up}$ 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%.