SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2103-2AG10-2MA0

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

| Basic motor data | | |
|-------------------------|---|--|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP64 | |
| Motor type | High Dynamic | |
| Static torque | 0.64 Nm | |
| Static current | 1.4 A | |
| Maximum torque | 1.95 Nm | |
| Maximum current | 4.8 A | |
| Maximum speed | 8,000 rpm | |
| Rotor moment of inertia | 0.1120 kgcm² | |
| Weight | 1.5 kg | |

| | Rated data | | |
|-------------------------|---------------|-----------|--|
| SINAMICS S210, 1AC 230V | | | |
| | Rated speed | 3,000 rpm | |
| | Rated torque | 0.64 Nm | |
| | Rated current | 1.4 A | |
| | Rated power | 0.20 kW | |

| Encoder system | | |
|----------------|---|--|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn | |

| Motor connection | | |
|------------------|--------------|--|
| Connection type | OCC for S210 | |
| Connector size | M12 | |



Item no. : Consignment no. : Project :

Diameter of shaft (D)

Length of flange diagonal (P)

Length of shaft (E)

Shaft end

| Mechanical data | | | |
|--------------------------|----------------------|--|--|
| Design acc. to Code I | IM B5 (IM V1, IM V3) | | |
| Vibration severity grade | Grade A | | |
| Shaft height | 30 | | |
| Flange size (AB) | 60 mm | | |
| Centering ring (N) | 50 mm | | |
| Hole circle (M) | 70 mm | | |
| Screw-on hole (S) | 5.5 mm | | |
| Overall length (LB) | 131 mm | | |

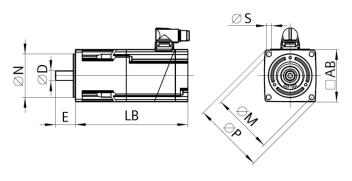
11 mm

23 mm

81 mm

Plain shaft

Color of the housing Standard (Anthracite, similar to RAL 7016)



| Holding brake | | |
|--|----------|--|
| Holding torque | 1.30 Nm | |
| Average dynamic torque | 1.30 Nm | |
| Opening time | 40 ms | |
| Closing time | 30 ms | |
| Maximum single switching energy 1) | 62 J | |
| Service life, operating energy | 17,500 J | |
| Holding current ²⁾ | 0.15 A | |
| Break-induced current for 500 ms ²⁾ | 0.8 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%.