SIEMENS

## Data sheet for SIMOTICS S-1FK2

**Article No. :** **1FK2102-1AG10-0MA0**



Figure similar

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

Item no. :
Consignment no. :
Project :

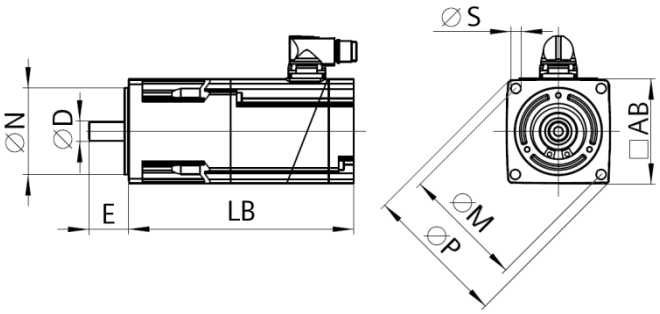
| Basic motor data | |
|---|---|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP64 |
| Motor type | High Dynamic |
| Static torque | 0.32 Nm |
| Static current | 0.8 A |
| Maximum torque | 1.11 Nm |
| Maximum current | 3.0 A |
| Maximum speed | 8,000 rpm |
| Rotor moment of inertia | 0.0400 kgcm² |
| Weight | 0.9 kg |

| Rated data | |
|---|---|
| SINAMICS S210, 1AC 230V | |
| Rated speed | 3,000 rpm |
| Rated torque | 0.32 Nm |
| Rated current | 0.8 A |
| Rated power | 0.10 kW |

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

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

| Mechanical data | |
|---|---|
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Vibration severity grade | Grade A |
| Shaft height | 20 |
| Flange size (AB) | 40 mm |
| Centering ring (N) | 30 mm |
| Hole circle (M) | 46 mm |
| Screw-on hole (S) | 4.5 mm |
| Overall length (LB) | 137 mm |
| Diameter of shaft (D) | 8 mm |
| Length of shaft (E) | 25 mm |
| Length of flange diagonal (P) | 54 mm |
| Shaft end | Plain shaft |
| Color of the housing | Standard (Anthracite, similar to RAL 7016) |




| Holding brake | |
|---|---|
| Holding torque | 0.32 Nm |
| Average dynamic torque | 0.32 Nm |
| Opening time | 25 ms |
| Closing time | 20 ms |
| Maximum single switching energy [1)] | 7.4 J |
| Service life, operating energy | 1,750 J |
| Holding current[2)] | 0.1 A |
| Break-induced current for 500 ms[2)] | 0.6 A |

[1)] 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%.