SIEMENS

## Data sheet for SIMOTICS S-1FT2

**Article No. :** **1FT2203-2AK10-1MB0**



Figure similar

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

Item no. :
Consignment no. :
Project :

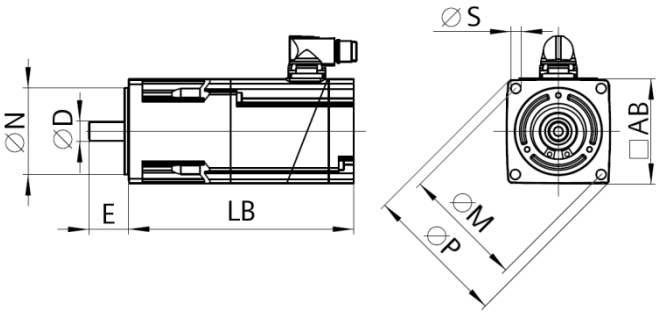
| Basic motor data | |
|---|---|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP64 |
| Motor type | Compact |
| Static torque | 0.64 Nm |
| Static current | 1.1 A |
| Maximum torque | 1.85 Nm |
| Maximum current | 3.4 A |
| Maximum speed | 8,000 rpm |
| Rotor moment of inertia | 0.2200 kgcm² |
| Weight | 1.5 kg |

| Rated data | |
|---|---|
| SINAMICS S120, BLM/SLM 3AC 400V | |
| Rated speed | 6,000 rpm |
| Rated torque | 0.41 Nm |
| Rated current | 0.8 A |
| Rated power | 0.26 kW |

| Encoder system | |
|---|---|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn |
| Safety Integrated - Suitable encoder | Yes |

| Motor connection | |
|---|---|
| Connection type | Double cable connection for S120 |
| Connector size power connector | M17 |
| Connector size signal connector | M17 |

| 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) | 5.4 mm |
| Overall length (LB) | 131 mm |
| Diameter of shaft (D) | 14 mm |
| Length of shaft (E) | 30 mm |
| Length of flange diagonal (P) | 81 mm |
| Shaft end | Fitted key |
| 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 | 90 ms |
| Closing time | 30 ms |
| Maximum single switching energy [1)] | 62 J |
| Service life, operating energy | 5,000 J |
| Rated current[2)] | 0.4 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%.

Subject to change. Calculated values may differ from nameplate ratings. © Copyright Siemens