SIEMENS

## Data sheet for SIMOTICS S-1FT2

**Article No. :** **1FT2210-4AF10-0MB0**



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 | 40.00 Nm |
| Static current | 22.5 A |
| Maximum torque | 120.00 Nm |
| Maximum current | 84.0 A |
| Maximum speed | 4,950 rpm |
| Rotor moment of inertia | 133.0000 kgcm² |
| Weight | 31.0 kg |

### Rated data

SINAMICS S120, BLM/SLM 3AC 400V

| | |
|---|---|
| Rated speed | 3,000 rpm |
| Rated torque | 18.00 Nm |
| Rated current | 11.1 A |
| Rated power | 5.70 kW |

### Encoder system

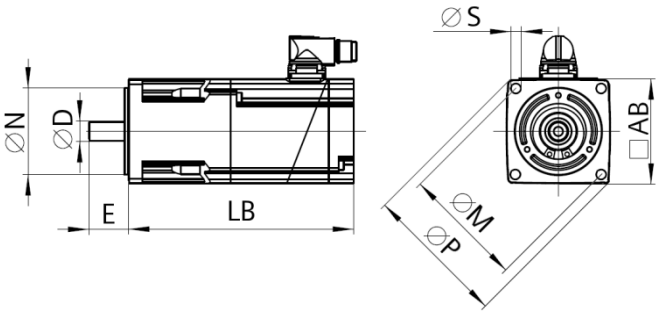
| | |
|---|---|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn |
| Safety Integrated - Suitable encoder | Yes |

### Motor connection

| | |
|---|---|
| Connection type | Double cable connection for S120 |
| Connector size power connector | M40 |
| 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 | 100 |
| Flange size (AB) | 192 mm |
| Centering ring (N) | 180 mm |
| Hole circle (M) | 215 mm |
| Screw-on hole (S) | 14.0 mm |
| Overall length (LB) | 282 mm |
| Diameter of shaft (D) | 38 mm |
| Length of shaft (E) | 80 mm |
| Length of flange diagonal (P) | 244 mm |
| Shaft end | Plain shaft |
| Color of the housing | Standard (Anthracite, similar to RAL 7016) |




### Holding brake

| | |
|---|---|
| Holding torque | 55.00 Nm |
| Average dynamic torque | 26.00 Nm |
| Opening time | 220 ms |
| Closing time | 80 ms |
| Maximum single switching energy [1)] | 8,700 J |
| Service life, operating energy | 3,800,000 J |
| Rated current[2)] | 1 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