SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2204-5AF11-0MB0

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 | 2.40 Nm | | | | |
| Static current | 2.3 A | | | | |
| Maximum torque | 7.10 Nm | | | | |
| Maximum current | 7.1 A | | | | |
| Maximum speed | 7,500 rpm | | | | |
| Rotor moment of inertia | 1.3100 kgcm² | | | | |
| Weight | 3.8 ka | | | | |

| | Rated data | | | |
|---|---------------------------------|-----------|--|--|
| S | SINAMICS S120, BLM/SLM 3AC 400V | | | |
| | Rated speed | 3,000 rpm | | |
| | Rated torque | 2.40 Nm | | |
| | Rated current | 2.3 A | | |
| | Rated power | 0.75 kW | | |
| | | | | |

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

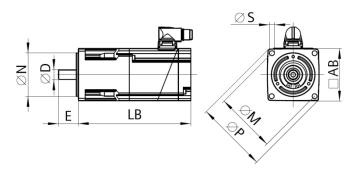
| Motor connection | | | | | |
|------------------|----------------------------------|--|--|--|--|
| Connection type | Double cable connection for S120 | | | | |
| Connector size | M17 | | | | |



Item no. : Consignment no. : Project :

| | | e | | | | |
|--|--|---|--|--|--|--|
| | | | | | | |

| 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) | 170 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 | 110 ms | |
| Closing time | 40 ms | |
| Maximum single switching energy 1) | 270 J | |
| Service life, operating energy | 35,000 J | |
| Rated current ²⁾ | 0.5 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%.