SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2208-4AC10-1MB0

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

| Basic motor data | | |
|-------------------------|---|--|
| Motor type | Permanent-magnet synchronous motor, Natural cooling, IP64 | |
| Motor type | Compact | |
| Static torque | 22.00 Nm | |
| Static current | 11.7 A | |
| Maximum torque | 66.00 Nm | |
| Maximum current | 43.5 A | |
| Maximum speed | 4,600 rpm | |
| Rotor moment of inertia | 44.4000 kgcm² | |
| Weight | 17.3 kg | |

| | Rated | data |
|---|--------------------------------|-----------|
| S | INAMICS S120, BLM/SLM 3AC 400V | |
| | Rated speed | 2,000 rpm |
| | Rated torque | 17.00 Nm |
| | Rated current | 9.3 A |
| | Rated power | 3.55 kW |

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

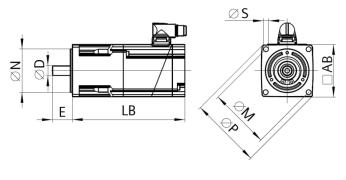
| Motor c | onnection |
|-----------------|----------------------------------|
| Connection type | Double cable connection for S120 |
| Connector size | M23 |



Item no. : Consignment no. : Project :

| Figure sim | | | | |
|------------|--|--|--|--|
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| Mechar | nical data |
|-------------------------------|--|
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Vibration severity grade | Grade A |
| Shaft height | 80 |
| Flange size (AB) | 155 mm |
| Centering ring (N) | 130 mm |
| Hole circle (M) | 165 mm |
| Screw-on hole (S) | 11.0 mm |
| Overall length (LB) | 256 mm |
| Diameter of shaft (D) | 32 mm |
| Length of shaft (E) | 58 mm |
| Length of flange diagonal (P) | 202 mm |
| Shaft end | Fitted key |
| Color of the housing | Standard (Anthracite, similar to RAL 7016) |



| Holdir | ng brake |
|------------------------------------|-------------|
| Holding torque | 32.00 Nm |
| Average dynamic torque | 17.00 Nm |
| Opening time | 200 ms |
| Closing time | 60 ms |
| Maximum single switching energy 1) | 4,800 J |
| Service life, operating energy | 2,400,000 J |
| Rated current ²⁾ | 0.9 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%.