

Data sheet for SIMOTICS S-1FL2

Article No. : 1FL2102-2AF11-1MC0



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

Item no. :
Consignment no. :
Project :

Basic motor data

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|-------------------------|------------------------------------|
| Motor type | Permanent-magnet synchronous motor |
| Motor type | Low Inertia |
| Static torque | 0.16 Nm |
| Static current | 0.84 A |
| Maximum torque | 0.56 Nm |
| Maximum current | 3.40 A |
| Maximum speed | 6,500 rpm |
| Rotor moment of inertia | 0.0170 kgcm ² |
| Weight | 0.45 kg |

Rated data

SINAMICS S200, 3 AC 380 ... 480 V

| | |
|---------------|-----------|
| Rated speed | 3,000 rpm |
| Rated torque | 0.16 Nm |
| Rated current | 0.84 A |
| Rated power | 0.05 kW |

Encoder system

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|----------------|---|
| Encoder system | Absolute encoder 21-bit singleturn + 12-bit multiturn |
|----------------|---|

Motor connection

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|-----------------|------------------------|
| Connection type | Metal hybrid connector |
|-----------------|------------------------|

Mechanical data

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|-------------------------------|--|
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Vibration severity grade | Grade A |
| Shaft height | 20 |
| Flange size (AB) | 40.6 mm |
| Centering ring (N) | 30 mm |
| Hole circle (M) | 46 mm |
| Screw-on hole (S) | 4.4 mm |
| Overall length (LB) | 96.9 mm |
| Diameter of shaft (D) | 8 mm |
| Length of shaft (E) | 25 mm |
| Length of flange diagonal (P) | 54 mm |
| Shaft end | Shaft with parallel key (half-key balancing) |
| Color of the housing | Anthracite RAL 7016 |



Holding brake

| | |
|--------------------------|--------------|
| Rated voltage | 24 V DC 10 % |
| Rated current | 0.25 A |
| Holding torque M_{4Br} | 0.32 Nm |
| Opening time | 35 ms |
| Closing time | 10 ms |