

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6042-1AF61-2LB1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Engineering data | | Mechanical data | |
|---------------------------|--|--------------------------|---|
| Rated speed | 3000 rpm | Motor type | High Inertia |
| Rated torque (100 K) | 1.27 Nm | Motor type | Permanent-magnet synchronous motor |
| Rated current | 1.2 A | Shaft height | 45 |
| Rated power | 0.40 kW / 0.54 hp | Encoder system | Absolute encoder 20 bit + 12 bit multi-turn |
| Max. speed | 4000 rpm | Cooling | Natural cooling |
| Maximum torque | 3.80 Nm | Shaft extension | Feather key |
| Max. current | 3.6 A | Radial runout tolerance | Class N |
| Static torque | 1.90 Nm | Vibration severity grade | Grade A |
| Moment of inertia | 3.200 kgcm ² | Degree of protection | IP65 |
| Physical constants | | Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Torque constant | 1.10 Nm/A | Connection type | Angular connector (rotatable) |
| Thermal class | B (130 °C) | | |
| Net weight | 4.60 kg | | |
| Ambient conditions | | Holding brake | |
| Ambient temperature | | Holding torque M_{4Br} | 3.50 Nm |
| Operation | 0 ... 40 °C | Rated voltage | 24 V DC ±10 % |
| Relative humidity | | Opening time | 60 ms |
| Max. operation | 90 % RH maximum (no condensation at 30 °C) | Closing time | 45 ms |
| Standards | | Rated current | 0.90 A |
| Compliance with standards | CE, EAC | | |