

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6042-1AF61-0LG1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

| | |
|----------------------|-------------------------|
| Rated speed | 3000 rpm |
| Rated torque (100 K) | 1.27 Nm |
| Rated current | 1.2 A |
| Rated power | 0.40 kW / 0.54 hp |
| Max. speed | 4000 rpm |
| Maximum torque | 3.80 Nm |
| Max. current | 3.6 A |
| Static torque | 1.90 Nm |
| Moment of inertia | 2.700 kgcm ² |

Physical constants

| | |
|-----------------|------------|
| Torque constant | 1.10 Nm/A |
| Thermal class | B (130 °C) |
| Net weight | 3.30 kg |

Ambient conditions

Ambient temperature

| | |
|-----------|-------------|
| Operation | 0 ... 40 °C |
|-----------|-------------|

Relative humidity

| | |
|----------------|--|
| Max. operation | 90 % RH maximum (no condensation at 30 °C) |
|----------------|--|

Standards

| | |
|---------------------------|---------|
| Compliance with standards | CE, EAC |
|---------------------------|---------|

Mechanical data

| | |
|--------------------------|---|
| Motor type | High Inertia |
| Motor type | Permanent-magnet synchronous motor |
| Shaft height | 45 |
| Encoder system | Absolute encoder 20 bit + 12 bit multi-turn |
| Cooling | Natural cooling |
| Shaft extension | Plain shaft |
| Radial runout tolerance | Class N |
| Vibration severity grade | Grade A |
| Degree of protection | IP65 |
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Connection type | Straight connector (fixed cable outlet direction) |