

Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6052-2AF21-2LG1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

| | |
|----------------------|-------------------------|
| Rated speed | 3000 rpm |
| Rated torque (100 K) | 4.78 Nm |
| Rated current | 10.6 A |
| Rated power | 1.50 kW / 2.04 hp |
| Max. speed | 5000 rpm |
| Maximum torque | 14.30 Nm |
| Max. current | 31.8 A |
| Static torque | 4.78 Nm |
| Moment of inertia | 2.040 kgcm ² |

Physical constants

| | |
|-----------------|------------|
| Torque constant | 0.46 Nm/A |
| Thermal class | B (130 °C) |
| Net weight | 5.50 kg |

Ambient conditions

Ambient temperature

| | |
|-----------|-------------|
| Operation | 0 ... 30 °C |
|-----------|-------------|

Relative humidity

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

Standards

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

Mechanical data

| | |
|--------------------------|---|
| Motor type | Low Inertia |
| Motor type | Permanent-magnet synchronous motor |
| Shaft height | 50 |
| Encoder system | Absolute encoder 20 bit + 12 bit multi-turn |
| Cooling | Natural cooling |
| Shaft end | 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 | Angular connector (rotatable) |