

Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6090-1AC61-0AA1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

| | |
|----------------------|--------------------------|
| Rated speed | 2000 rpm |
| Rated torque (100 K) | 11.90 Nm |
| Rated current | 7.8 A |
| Rated power | 2.50 kW / 3.40 hp |
| Max. speed | 3000 rpm |
| Maximum torque | 35.70 Nm |
| Max. current | 23.4 A |
| Static torque | 15.00 Nm |
| Moment of inertia | 47.400 kgcm ² |

Physical constants

| | |
|-----------------|------------|
| Torque constant | 1.60 Nm/A |
| Thermal class | B (130 °C) |
| Net weight | 15.30 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 | 90 |
| Encoder system | Incremental encoder TTL, 2500 S/R (13 bit) |
| Cooling | Natural cooling |
| Shaft extension | Feather key |
| 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) |