

Data sheet for SIMOTICS S-1FL6

Article No. : 1FL6066-1AC61-2LG1

Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data

| | |
|----------------------|--------------------------|
| Rated speed | 2,000 rpm |
| Rated torque (100 K) | 8.36 Nm |
| Rated current | 5.3 A |
| Rated power | 1.75 kW / 2.38 hp |
| Max. speed | 3,000 rpm |
| Maximum torque | 25.10 Nm |
| Max. current | 15.9 A |
| Static torque | 11.00 Nm |
| Moment of inertia | 22.600 kgcm ² |

Physical constants

| | |
|-----------------|------------|
| Torque constant | 1.70 Nm/A |
| Thermal class | B (130 °C) |
| Net weight | 10.80 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 | 65 |
| 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) |

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1FL6066-1AC61-2LG1

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