SIEMENS

# Data sheet for SIMOTICS S-1FL6



Figure similar

## Article No. : 1FL6042-1AF61-2AH1

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

Item no. :
Consignment no. :
Project :

| Engineering data | |
|---|---|
| Rated speed | 3,000 rpm |
| Rated torque (100 K) | 1.27 Nm |
| Rated current | 1.2 A |
| Rated power | 0.40 kW / 0.54 hp |
| Max. speed | 4,000 rpm |
| Maximum torque | 3.80 Nm |
| Max. current | 3.6 A |
| Static torque | 1.90 Nm |
| Moment of inertia | 3.200 kgcm² |

| Physical constants | |
|---|---|
| Torque constant | 1.10 Nm/A |
| Thermal class | B (130 °C) |
| Net weight | 4.80 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 | 45 |
| Encoder system | Incremental encoder TTL, 2500 S/R (13 bit) |
| 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) |

| Holding brake | |
|---|---|
| Holding torque $M_{4Br}$ | 3.50 Nm |
| Rated voltage | 24 V DC 10 % |
| Opening time | 60 ms |
| Closing time | 45 ms |
| Rated current | 0.90 A |