Global Automation Distributor | TURLL.com

SIEMENS

## Data sheet for SIMOTICS S-1FK7

**Article No. :** 1FK7060-2AF71-1BH1

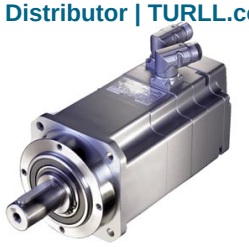

Figure similar

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

Item no. :
Consignment no. :
Project :

| Engineering data | |
|---|---|
| Rated speed (100 K) | 3,000 rpm |
| Number of poles | 8 |
| Rated torque (100 K) | 4.7 Nm |
| Rated current | 3.7 A |
| Static torque (60 K) | 5.00 Nm |
| Static torque (100 K) | 6.00 Nm |
| Stall current (60 K) | 3.60 A |
| Stall current (100 K) | 4.45 A |
| Moment of inertia | 8.700 kgcm² |
| Efficiency | 90.0 % |

| Physical constants | |
|---|---|
| Torque constant | 1.33 Nm/A |
| Voltage constant at 20° C | 85.5 V/1000*min⁻¹ |
| Winding resistance at 20° C | 1.35 Ω |
| Rotating field inductance | 15.2 mH |
| Electrical time constant | 11.30 ms |
| Mechanical time constant | 1.71 ms |
| Thermal time constant | 30 min |
| Shaft torsional stiffness | 28,500 Nm/rad |
| Net weight of the motor | 8.5 kg |

| Mechanical data | |
|---|---|
| Motor type | Permanent-magnet synchronous motor |
| Motor type | Compact |
| Shaft height | 63 |
| Cooling | Natural cooling |
| Radial runout tolerance | 0.040 mm |
| Concentricity tolerance | 0.10 mm |
| Axial runout tolerance | 0.10 mm |
| Vibration severity grade | Grade A |
| Connector size | 1 |
| Degree of protection | IP65 |
| Design acc. to Code I | IM B5 (IM V1, IM V3) |
| Temperature monitoring | Pt1000 temperature sensor |
| Electrical connectors | Connectors for signals and power rotatable |
| Color of the housing | Standard (Anthracite RAL 7016) |
| Holding brake | with holding brake |
| Shaft end | Plain shaft |
| Encoder system | Encoder AS24DQI: absolute encoder single-turn 24 bits |

| Optimum operating point | |
|---|---|
| Optimum speed | 3,000 rpm |
| Optimum power | 1.5 kW |

| Limiting data | |
|---|---|
| Max. permissible speed (mech.) | 7,200 rpm |
| Max. permissible speed (inverter) | 6,700 rpm |
| Maximum torque | 18.0 Nm |
| Maximum current | 15.0 A |

| Holding brake | |
|---|---|
| Holding brake version | Permanent-magnet brake |
| Holding torque | 13.0 Nm |
| Power supply voltage | DC 24 V ± 10 % |
| Coil current | 0.8 A |
| Opening time | 100 ms |
| Closing time | 50 ms |
| Highest braking work | 380 J |

| Recommended Motor Module | |
|---|---|
| Rated inverter current | 5 A |
| Maximum inverter current | 15 A |
| Maximum torque | 18.00 Nm |

Check Price on Turll.com

Technical data are subject to change! There may be discrepancies between calculated and rounded values. Generated: 10.08.2023 06:01:21 CET (GMT+2)

# TURLL

YOUR GLOBAL AUTOMATION PARTNER

# 1FK7060-2AF71-1BH1

**OFFICIAL DATASHEET & QUOTATION**

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

**CHECK STOCK & PRICE**

**Need Assistance? Scan to Chat on WhatsApp**

sales@turll.com | +852 6339 7344