

Data sheet for SIMOTICS S-1FK7



Figure similar

Article No. : 1FK7062-2AF71-1PB2

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) | 6.0 Nm |
| Rated current | 4.0 A |
| Static torque (60 K) | 7.10 Nm |
| Static torque (100 K) | 8.50 Nm |
| Stall current (60 K) | 4.30 A |
| Stall current (100 K) | 5.30 A |
| Moment of inertia | 12.200 kgcm ² |
| Efficiency | 91.0 % |

Physical constants

| | |
|-----------------------------|--------------------------------|
| Torque constant | 1.60 Nm/A |
| Voltage constant at 20° C | 102.5 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 1.15 Ω |
| Rotating field inductance | 14.6 mH |
| Electrical time constant | 12.80 ms |
| Mechanical time constant | 1.49 ms |
| Thermal time constant | 35 min |
| Shaft torsional stiffness | 26,500 Nm/rad |
| Net weight of the motor | 10.5 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 and DE flange IP67 |
| 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 | Feather key |
| Encoder system | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |

Optimum operating point

| | |
|---------------|-----------|
| Optimum speed | 3,000 rpm |
| Optimum power | 1.9 kW |

Limiting data

| | |
|-----------------------------------|-----------|
| Max. permissible speed (mech.) | 7,200 rpm |
| Max. permissible speed (inverter) | 5,600 rpm |
| Maximum torque | 26.0 Nm |
| Maximum current | 19.2 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 | 22.10 Nm |

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1FK7062-2AF71-1PB2

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