

Data sheet for SIMOTICS S-1FK7

Article No. : **1FK7062-2AC71-1CG0-Z**
B02



Figure similar

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

Item no. :
Consignment no. :
Project :

Engineering data

| | |
|-----------------------|--------------------------|
| Rated speed (100 K) | 2,000 rpm |
| Number of poles | 8 |
| Rated torque (100 K) | 7.0 Nm |
| Rated current | 2.6 A |
| Static torque (60 K) | 7.10 Nm |
| Static torque (100 K) | 8.50 Nm |
| Stall current (60 K) | 2.45 A |
| Stall current (100 K) | 3.00 A |
| Moment of inertia | 11.200 kgcm ² |
| Efficiency | 90.0 % |

Physical constants

| | |
|-----------------------------|--------------------------------|
| Torque constant | 2.83 Nm/A |
| Voltage constant at 20° C | 180.5 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 3.59 Ω |
| Rotating field inductance | 45.5 mH |
| Electrical time constant | 12.70 ms |
| Mechanical time constant | 1.51 ms |
| Thermal time constant | 35 min |
| Shaft torsional stiffness | 37,000 Nm/rad |
| Net weight of the motor | 9.1 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 | IP64 |
| 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 | without holding brake |
| Shaft end | Plain shaft |
| Encoder system | Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions) |

Optimum operating point

| | |
|---------------|-----------|
| Optimum speed | 2,000 rpm |
| Optimum power | 1.5 kW |

Limiting data

| | |
|-----------------------------------|-----------|
| Max. permissible speed (mech.) | 7,200 rpm |
| Max. permissible speed (inverter) | 3,200 rpm |
| Maximum torque | 26.0 Nm |
| Maximum current | 10.9 A |

Recommended Motor Module

| | |
|--------------------------|----------|
| Rated inverter current | 3 A |
| Maximum inverter current | 9 A |
| Maximum torque | 22.90 Nm |

Special design

B02 Works test certificate

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