



Figure similar

Article No. : 1FK7063-2AF71-1RA0

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) | 7.3 Nm |
| Rated current | 5.6 A |
| Static torque (60 K) | 9.10 Nm |
| Static torque (100 K) | 11.00 Nm |
| Stall current (60 K) | 6.50 A |
| Stall current (100 K) | 8.00 A |
| Moment of inertia | 14.700 kgcm ² |
| Efficiency | 91.0 % |

Physical constants

| | |
|-----------------------------|-------------------------------|
| Torque constant | 1.37 Nm/A |
| Voltage constant at 20° C | 90.5 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 0.64 Ω |
| Rotating field inductance | 8.5 mH |
| Electrical time constant | 13.40 ms |
| Mechanical time constant | 1.48 ms |
| Thermal time constant | 40 min |
| Shaft torsional stiffness | 34,000 Nm/rad |
| Net weight of the motor | 11.1 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 | Feather key |
| Encoder system | Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions) |

Optimum operating point

| | |
|---------------|-----------|
| Optimum speed | 3,000 rpm |
| Optimum power | 2.3 kW |

Limiting data

| | |
|-----------------------------------|-----------|
| Max. permissible speed (mech.) | 7,200 rpm |
| Max. permissible speed (inverter) | 6,400 rpm |
| Maximum torque | 35.0 Nm |
| Maximum current | 28.0 A |

Recommended Motor Module

| | |
|--------------------------|----------|
| Rated inverter current | 9 A |
| Maximum inverter current | 27 A |
| Maximum torque | 34.00 Nm |