



Figure similar

Article No. : 1FK7060-2AH71-1BG2

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

Item no. :
Consignment no. :
Project :

Engineering data

| | |
|-----------------------|-------------------------|
| Rated speed (100 K) | 4,500 rpm |
| Number of poles | 8 |
| Rated torque (100 K) | 3.7 Nm |
| Rated current | 4.3 A |
| Static torque (60 K) | 5.00 Nm |
| Static torque (100 K) | 6.00 Nm |
| Stall current (60 K) | 5.10 A |
| Stall current (100 K) | 6.30 A |
| Moment of inertia | 7.700 kgcm ² |
| Efficiency | 90.0 % |

Physical constants

| | |
|-----------------------------|-------------------------------|
| Torque constant | 0.95 Nm/A |
| Voltage constant at 20° C | 60.5 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 0.69 Ω |
| Rotating field inductance | 7.6 mH |
| Electrical time constant | 10.90 ms |
| Mechanical time constant | 1.78 ms |
| Thermal time constant | 30 min |
| Shaft torsional stiffness | 40,500 Nm/rad |
| Net weight of the motor | 7.1 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 | 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 | without holding brake |
| Shaft end | Plain shaft |
| Encoder system | Encoder AS24DQI: absolute encoder single-turn 24 bits |

Optimum operating point

| | |
|---------------|-----------|
| Optimum speed | 4,500 rpm |
| Optimum power | 1.7 kW |

Limiting data

| | |
|-----------------------------------|-----------|
| Max. permissible speed (mech.) | 7,200 rpm |
| Max. permissible speed (inverter) | 7,200 rpm |
| Maximum torque | 18.0 Nm |
| Maximum current | 21.5 A |

Recommended Motor Module

| | |
|--------------------------|----------|
| Rated inverter current | 9 A |
| Maximum inverter current | 27 A |
| Maximum torque | 18.00 Nm |