



Figure similar

MLFB-Ordering data

1FK7034-2AK71-1PG2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

| | |
|-----------------------|-------------------------|
| Rated speed (100 K) | 6000 rpm |
| Number of poles | 6 |
| Rated torque (100 K) | 1.0 Nm |
| Rated current | 1.3 A |
| Static torque (60 K) | 1.35 Nm |
| Static torque (100 K) | 1.6 Nm |
| Stall current (60 K) | 1.55 A |
| Stall current (100 K) | 1.90 A |
| Moment of inertia | 0.900 kgcm ² |
| Efficiency | 88.0 % |

Physical constants

| | |
|-----------------------------|-------------------------------|
| Torque constant | 0.84 Nm/A |
| Voltage constant at 20° C | 55.0 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 4.46 Ω |
| Rotating field inductance | 17.2 mH |
| Electrical time constant | 3.85 ms |
| Mechanical time constant | 1.71 ms |
| Thermal time constant | 30 min |
| Shaft torsional stiffness | 5300 Nm/rad |
| Net weight of the motor | 3.5 kg |

Mechanical data

| | |
|--------------------------|--|
| Motor type | Permanent-magnet synchronous motor |
| Motor type | Compact |
| Shaft height | 36 |
| Cooling | Natural cooling |
| Radial runout tolerance | 0.035 mm |
| Concentricity tolerance | 0.08 mm |
| Axial runout tolerance | 0.08 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 extension | Plain shaft |
| Encoder system | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |



Figure similar

MLFB-Ordering data

1FK7034-2AK71-1PG2

| Optimum operating point | | Recommended Motor Module | |
|-----------------------------------|-----------|--------------------------|---------|
| Optimum speed | 6000 rpm | Rated inverter current | 3 A |
| Optimum power | 0.6 kW | Maximum inverter current | 9 A |
| Limiting data | | Maximum torque | 6.50 Nm |
| Max. permissible speed (mech.) | 10000 rpm | | |
| Max. permissible speed (inverter) | 10000 rpm | | |
| Maximum torque | 6.5 Nm | | |
| Maximum current | 8.0 A | | |