



Figure similar

MLFB-Ordering data

1FK7033-4CK71-1PG2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Engineering data | | Mechanical data | | | |
|---|-------------------------|-----------------------------|------------------------------------|------------------------|--|
| Rated speed (100 K) | 6000 rpm | Motor type | Permanent-magnet synchronous motor | | |
| Number of poles | 6 | Motor type | High Dynamic | | |
| Rated torque (100 K) | 0.9 Nm | Shaft height | 36 | | |
| Rated current | 1.6 A | Cooling | Natural cooling | | |
| Static torque (60 K) | 1.08 Nm | Radial runout tolerance | 0.035 mm | | |
| Static torque (100 K) | 1.30 Nm | Concentricity tolerance | 0.08 mm | | |
| Stall current (60 K) | 1.70 A | Axial runout tolerance | 0.08 mm | | |
| Stall current (100 K) | 2.10 A | Vibration severity grade | Grade A | | |
| Moment of inertia | 0.250 kgcm ² | Connector size | 1 | | |
| Efficiency | 88.0 % | Degree of protection | IP65 and DE flange IP67 | | |
| <th colspan="2">Physical constants</th> | | Physical constants | | Design acc. to Code I | IM B5 (IM V1, IM V3) |
| | | Torque constant | 0.62 Nm/A | Temperature monitoring | Pt1000 temperature sensor |
| | | Voltage constant at 20° C | 39.5 V/1000*min ⁻¹ | Electrical connectors | Connectors for signals and power rotatable |
| | | Winding resistance at 20° C | 3.51 Ω | Color of the housing | Standard (Anthracite RAL 7016) |
| | | Rotating field inductance | 22.0 mH | Holding brake | without holding brake |
| | | Electrical time constant | 6.30 ms | Shaft end | Plain shaft |
| | | Mechanical time constant | 0.68 ms | Encoder system | Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole) |
| | | Thermal time constant | 25 min | | |
| | | Shaft torsional stiffness | 7300 Nm/rad | | |
| | | Net weight of the motor | 3.0 kg | | |



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| 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 | 4.30 Nm |
| Max. permissible speed (mech.) | 10000 rpm | | |
| Max. permissible speed (inverter) | 10000 rpm | | |
| Maximum torque | 4.3 Nm | | |
| Maximum current | 7.6 A | | |