



Figure similar

MLFB-Ordering data

1FK7086-4CC71-1BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

| | |
|-----------------------|--------------------------|
| Rated speed (100 K) | 2000 rpm |
| Number of poles | 8 |
| Rated torque (100 K) | 18.0 Nm |
| Rated current | 9.0 A |
| Static torque (60 K) | 23.00 Nm |
| Static torque (100 K) | 28.00 Nm |
| Stall current (60 K) | 10.70 A |
| Stall current (100 K) | 13.20 A |
| Moment of inertia | 22.000 kgcm ² |
| Efficiency | 93.0 % |

Physical constants

| | |
|-----------------------------|--------------------------------|
| Torque constant | 2.12 Nm/A |
| Voltage constant at 20° C | 138.0 V/1000*min ⁻¹ |
| Winding resistance at 20° C | 0.31 Ω |
| Rotating field inductance | 8.2 mH |
| Electrical time constant | 26.50 ms |
| Mechanical time constant | 0.45 ms |
| Thermal time constant | 65 min |
| Shaft torsional stiffness | 84000 Nm/rad |
| Net weight of the motor | 23.0 kg |

Mechanical data

| | |
|--------------------------|---|
| Motor type | Permanent-magnet synchronous motor |
| Motor type | High Dynamic |
| Shaft height | 80 |
| Cooling | Natural cooling |
| Radial runout tolerance | 0.050 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 | Feather key |
| Encoder system | Encoder AS24DQI: absolute encoder single-turn 24 bits |



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| Optimum operating point | | Recommended Motor Module | |
|-----------------------------------|----------|--------------------------|----------|
| Optimum speed | 2000 rpm | Rated inverter current | 18 A |
| Optimum power | 3.8 kW | Maximum inverter current | 54 A |
| Limiting data | | Maximum torque | 90.00 Nm |
| Max. permissible speed (mech.) | 6000 rpm | | |
| Max. permissible speed (inverter) | 4200 rpm | | |
| Maximum torque | 105.0 Nm | | |
| Maximum current | 71.0 A | | |