



Figure similar

MLFB-Ordering data

1FK7043-4CH71-1TH1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K)	4500 rpm
Number of poles	6
Rated torque (100 K)	2.6 Nm
Rated current	3.3 A
Static torque (60 K)	2.90 Nm
Static torque (100 K)	3.5 Nm
Stall current (60 K)	3.30 A
Stall current (100 K)	4.10 A
Moment of inertia	1.360 kgcm ²
Efficiency	90.0 %

Physical constants

Torque constant	0.85 Nm/A
Voltage constant at 20° C	54.0 V/1000*min ⁻¹
Winding resistance at 20° C	1.20 Ω
Rotating field inductance	13.6 mH
Electrical time constant	11.30 ms
Mechanical time constant	0.49 ms
Thermal time constant	40 min
Shaft torsional stiffness	9000 Nm/rad
Net weight of the motor	6.6 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	48
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP65
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	KTY84 temperature sensor in the stator winding
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	with holding brake
Shaft extension	Plain shaft
Encoder system	Resolver 2-pole



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Optimum operating point

Optimum speed	4500 rpm
Optimum power	1.2 kW

Limiting data

Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	9000 rpm
Maximum torque	10.0 Nm
Maximum current	12.5 A

Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	4.0 Nm
Power supply voltage	DC 24 V \pm 10 %
Coil current	0.5 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	150 J

Recommended Motor Module

Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	10.00 Nm