



Figure similar

MLFB-Ordering data

1FK7103-2AF71-1SA0

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

Item no. :
Consignment no. :
Project :

Engineering data

Mechanical data

Rated speed (100 K)	3000 rpm
Number of poles	8
Rated torque (100 K)	14.0 Nm
Rated current	11.5 A
Static torque (60 K)	30.00 Nm
Static torque (100 K)	36.0 Nm
Stall current (60 K)	21.00 A
Stall current (100 K)	26.00 A
Moment of inertia	104.000 kgcm ²
Efficiency	93.0 %

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	100
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	1.5
Degree of protection	IP64
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	without holding brake
Shaft extension	Feather key
Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)

Physical constants

Torque constant	1.39 Nm/A
Voltage constant at 20° C	89.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.09 Ω
Rotating field inductance	2.4 mH
Electrical time constant	27.00 ms
Mechanical time constant	1.46 ms
Thermal time constant	65 min
Shaft torsional stiffness	148000 Nm/rad
Net weight of the motor	28.5 kg

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Optimum operating point		Recommended Motor Module	
Optimum speed	2500 rpm	Rated inverter current	30 A
Optimum power	5.4 kW	Maximum inverter current	90 A
Limiting data		Maximum torque	108.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	5000 rpm		
Maximum torque	108.0 Nm		
Maximum current	84.0 A		