

MLFB-Ordering data1FK7043-7AH71-1AG0



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

Item no. :
Consignment no. :
Project :

Engineering data	Mechanical data
Rated speed (100 K) 4500 rpm Number of poles 6 Rated torque (100 K) 2.6 Nm Rated current 4.0 A Static torque (60 K) 2.50 Nm Static torque (100 K) 3.1 Nm Stall current (60 K) 3.60 A Stall current (100 K) 4.50 A Moment of inertia 1.010 kgcm² Efficiency 90.0 %	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 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 without Holding brake without holding brake Shaft end Plain shaft Encoder system Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
Physical constants	
Torque constant 0.67 Nm/A Voltage constant at 20° C 44.0 V/1000*min⁻¹ Winding resistance at 20° C 1.20 Ω Rotating field inductance 15.0 mH Electrical time constant 12.50 ms Mechanical time constant 0.81 ms Thermal time constant 40 min Shaft torsional stiffness 11000 Nm/rad Net weight of the motor 6.3 kg	

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Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	5 A
Optimum power	1.2 kW	Maximum inverter current	10 A
Limiting data		Maximum torque	6.80 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	13100 rpm		
Maximum torque	9.4 Nm		
Maximum current	14.8 A		