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MLFB-Ordering data1FK7043-7AK71-1AA3

Client order no. :
Order no. :
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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)	2.0 Nm	Shaft height	48
Rated current	4.4 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.1 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	4.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	6.40 A	Vibration severity grade	Grade A
Moment of inertia	1.010 kgcm²	Connector size	1
Efficiency	90.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.48 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	32.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	0.65 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	9.0 mH	Holding brake	without holding brake
Electrical time constant	13.80 ms	Shaft end	Feather key
Mechanical time constant	0.85 ms	Encoder system	Encoder IC2048S/R: incremental encoder sin/cos 1 Vpp 2048 S/R with C and D track
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	6000 rpm	Rated inverter current	9 A
Optimum power	1.3 kW	Maximum inverter current	18 A
Limiting data		Maximum torque	8.50 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	13300 rpm		
Maximum torque	9.4 Nm		
Maximum current	20.0 A		