



Figure similar

MLFB-Ordering data

1FK7040-2AK71-1EG0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	1.1 Nm	Shaft height	48
Rated current	1.9 A	Cooling	Natural cooling
Static torque (60 K)	1.30 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	1.6 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.90 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.35 A	Vibration severity grade	Grade A
Moment of inertia	1.600 kgcm ²	Connector size	1
Efficiency	88.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
Torque constant	0.68 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
Voltage constant at 20° C	43.4 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
Winding resistance at 20° C	2.87 Ω	Color of the housing	Standard (Anthracite RAL 7016)
Rotating field inductance	16.5 mH	Holding brake	without holding brake
Electrical time constant	5.70 ms	Shaft extension	Plain shaft
Mechanical time constant	3.00 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
Thermal time constant	25 min		
Shaft torsional stiffness	18700 Nm/rad		
Net weight of the motor	3.2 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	6000 rpm	Rated inverter current	3 A
Optimum power	0.7 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	5.10 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9000 rpm		
Maximum torque	5.1 Nm		
Maximum current	7.7 A		