



Figure similar

MLFB-Ordering data

1FK7043-4CK71-1KA0

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	6	Motor type	High Dynamic
Rated torque (100 K)	2.0 Nm	Shaft height	48
Rated current	3.5 A	Cooling	Natural cooling
Static torque (60 K)	2.90 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.5 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	4.50 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	5.60 A	Vibration severity grade	Grade A
Moment of inertia	1.000 kgcm ²	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	0.63 Nm/A	Temperature monitoring	Pt1000 temperature sensor
Voltage constant at 20° C	39.8 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	7.4 mH	Holding brake	without holding brake
Electrical time constant	11.50 ms	Shaft extension	Feather key
Mechanical time constant	0.49 ms	Encoder system	Encoder AM16DQ: absolute encoder 16 bits (resolution 65536, encoder-internal 32 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Thermal time constant	40 min		
Shaft torsional stiffness	11400 Nm/rad		
Net weight of the motor	6.0 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	27 A
Limiting data		Maximum torque	10.00 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	9000 rpm		
Maximum torque	10.0 Nm		
Maximum current	17.0 A		