



Figure similar

MLFB-Ordering data

1FK7042-2AC71-1BA1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	2.8 Nm	Shaft height	48		
Rated current	1.6 A	Cooling	Natural cooling		
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	3.0 Nm	Concentricity tolerance	0.08 mm		
Stall current (60 K)	1.30 A	Axial runout tolerance	0.08 mm		
Stall current (100 K)	1.61 A	Vibration severity grade	Grade A		
Moment of inertia	2.900 kgcm <sup>2</sup>	Connector size	1		
Efficiency	88.0 %	Degree of protection	IP65		
<th colspan="2">Physical constants</th>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	1.86 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	122.0 V/1000*min <sup>-1</sup>	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	8.60 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	64.0 mH	Holding brake	without holding brake
		Electrical time constant	7.40 ms	Shaft extension	Feather key
		Mechanical time constant	2.15 ms	Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits
		Thermal time constant	30 min		
		Shaft torsional stiffness	15500 Nm/rad		
		Net weight of the motor	4.6 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	3 A
Optimum power	0.6 kW	Maximum inverter current	9 A
Limiting data		Maximum torque	10.50 Nm
Max. permissible speed (mech.)	9000 rpm		
Max. permissible speed (inverter)	4750 rpm		
Maximum torque	10.5 Nm		
Maximum current	5.6 A		