



Figure similar

MLFB-Ordering data

1FK7062-2AF71-1BG2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	6.0 Nm	Shaft height	63		
Rated current	4.0 A	Cooling	Natural cooling		
Static torque (60 K)	7.10 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	8.5 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	4.30 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	5.30 A	Vibration severity grade	Grade A		
Moment of inertia	11.200 kgcm ²	Connector size	1		
Efficiency	91.0 %	Degree of protection	IP65 and DE flange IP67		
<th colspan="2">Physical constants</th>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	1.60 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	102.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	1.15 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	14.6 mH	Holding brake	without holding brake
		Electrical time constant	12.80 ms	Shaft extension	Plain shaft
		Mechanical time constant	1.49 ms	Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits
		Thermal time constant	35 min		
		Shaft torsional stiffness	37000 Nm/rad		
		Net weight of the motor	9.1 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	5 A
Optimum power	1.9 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	22.10 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	5600 rpm		
Maximum torque	26.0 Nm		
Maximum current	19.2 A		