



Figure similar

MLFB-Ordering data

1FK7032-2AF21-1BA0

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	6	Motor type	Compact
Rated torque (100 K)	1.0 Nm	Shaft height	36
Rated current	1.6 A	Cooling	Natural cooling
Static torque (60 K)	0.95 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	1.15 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.40 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.70 A	Vibration severity grade	Grade A
Moment of inertia	0.650 kgcm ²	Connector size	1
Efficiency	85.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Temperature monitoring	Pt1000 temperature sensor
Torque constant	0.67 Nm/A	Electrical connectors	Connectors for signals and power rotatable
Voltage constant at 20° C	45.0 V/1000*min ⁻¹	Color of the housing	Standard (Anthracite RAL 7016)
Winding resistance at 20° C	5.05 Ω	Holding brake	without holding brake
Rotating field inductance	17.3 mH	Shaft end	Feather key
Electrical time constant	3.45 ms	Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits
Mechanical time constant	2.20 ms		
Thermal time constant	25 min		
Shaft torsional stiffness	6000 Nm/rad		
Net weight of the motor	2.7 kg		



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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	2 A
Optimum power	0.3 kW	Maximum inverter current	5 A
Limiting data		Maximum torque	3.00 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	4.5 Nm		
Maximum current	7.0 A		