



Figure similar

MLFB-Ordering data

1FK7034-2AF24-1SG1

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)	1.4 Nm	Shaft height	36		
Rated current	1.8 A	Cooling	Natural cooling		
Static torque (60 K)	1.35 Nm	Radial runout tolerance	0.035 mm		
Static torque (100 K)	1.6 Nm	Concentricity tolerance	0.08 mm		
Stall current (60 K)	1.55 A	Axial runout tolerance	0.08 mm		
Stall current (100 K)	1.90 A	Vibration severity grade	Grade A		
Moment of inertia	0.900 kgcm <sup>2</sup>	Connector size	1		
Efficiency	85.0 %	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	0.84 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	55.0 V/1000*min <sup>-1</sup>	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	4.46 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	17.2 mH	Holding brake	without holding brake
		Electrical time constant	3.85 ms	Shaft extension	Plain shaft
		Mechanical time constant	1.71 ms	Encoder system	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)
		Thermal time constant	30 min		
		Shaft torsional stiffness	5300 Nm/rad		
		Net weight of the motor	3.5 kg		



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	2 A
Optimum power	0.5 kW	Maximum inverter current	5 A
Limiting data		Maximum torque	3.90 Nm
Max. permissible speed (mech.)	10000 rpm		
Max. permissible speed (inverter)	5200 rpm		
Maximum torque	6.5 Nm		
Maximum current	8.0 A		