



MLFB-Ordering data1FK7034-2AF21-1PA1

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)	1.60 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 kgcm²	Connector size	1
Efficiency	85.0 %	Degree of protection	IP65
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 ⁻¹	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 end	Feather key
Mechanical time constant	1.71 ms	Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)
Thermal time constant	30 min		
Shaft torsional stiffness	5300 Nm/rad		
Net weight of the motor	3.5 kg		



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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		