



Figure similar

MLFB-Ordering data

1FK7061-4CF74-1EB1

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	High Dynamic		
Rated torque (100 K)	5.4 Nm	Shaft height	63		
Rated current	5.3 A	Cooling	Natural cooling		
Static torque (60 K)	5.30 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	6.4 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	4.95 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	6.10 A	Vibration severity grade	Grade A		
Moment of inertia	5.100 kgcm ²	Connector size	1		
Efficiency	93.0 %	Degree of protection	IP65		
<th colspan="2">Physical constants</th> <td>Design acc. to Code I</td> <td>IM B5 (IM V1, IM V3)</td>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	1.05 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	67.5 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	0.71 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	22.0 mH	Holding brake	with holding brake
		Electrical time constant	31.00 ms	Shaft extension	Feather key
		Mechanical time constant	0.79 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
		Thermal time constant	45 min		
		Shaft torsional stiffness	26500 Nm/rad		
		Net weight of the motor	11.0 kg		



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Optimum operating point

Optimum speed	3000 rpm
Optimum power	1.7 kW

Limiting data

Max. permissible speed (mech.)	7500 rpm
Max. permissible speed (inverter)	7500 rpm
Maximum torque	17.3 Nm
Maximum current	18.5 A

Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	13.0 Nm
Power supply voltage	DC 24 V \pm 10 %
Coil current	0.8 A
Opening time	100 ms
Closing time	50 ms
Highest braking work	380 J

Recommended Motor Module

Rated inverter current	9 A
Maximum inverter current	27 A
Maximum torque	17.30 Nm