



Figure similar

MLFB-Ordering data

1FK7060-2AH71-1EH0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	3.7 Nm	Shaft height	63		
Rated current	4.3 A	Cooling	Natural cooling		
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	6.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	5.10 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	6.30 A	Vibration severity grade	Grade A		
Moment of inertia	8.700 kgcm <sup>2</sup>	Connector size	1		
Efficiency	90.0 %	Degree of protection	IP64		
<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	0.95 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
		Voltage constant at 20° C	60.5 V/1000*min <sup>-1</sup>	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	0.69 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	7.6 mH	Holding brake	with holding brake
		Electrical time constant	10.90 ms	Shaft extension	Plain shaft
		Mechanical time constant	1.78 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
		Thermal time constant	30 min		
		Shaft torsional stiffness	28500 Nm/rad		
		Net weight of the motor	8.5 kg		



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### Optimum operating point

Optimum speed	4500 rpm
Optimum power	1.7 kW

### Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	7200 rpm
Maximum torque	18.0 Nm
Maximum current	21.5 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	18.00 Nm