



Figure similar

MLFB-Ordering data

1FK7081-2AC74-1TB1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	10.0 Nm	Shaft height	80		
Rated current	4.4 A	Cooling	Natural cooling		
Static torque (60 K)	10.00 Nm	Radial runout tolerance	0.050 mm		
Static torque (100 K)	12.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	4.05 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	5.00 A	Vibration severity grade	Grade A		
Moment of inertia	23.500 kgcm <sup>2</sup>	Connector size	1		
Efficiency	93.0 %	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	2.40 Nm/A	Temperature monitoring	Pt1000 temperature sensor
		Voltage constant at 20° C	154.5 V/1000*min <sup>-1</sup>	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	1.27 Ω	Color of the housing	Standard (Anthracite RAL 7016)
		Rotating field inductance	23.5 mH	Holding brake	with holding brake
		Electrical time constant	18.40 ms	Shaft extension	Feather key
		Mechanical time constant	1.33 ms	Encoder system	Resolver 2-pole
		Thermal time constant	45 min		
		Shaft torsional stiffness	76000 Nm/rad		
		Net weight of the motor	15.9 kg		



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### Optimum operating point

Optimum speed	2000 rpm
Optimum power	2.1 kW

### Limiting data

Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	3750 rpm
Maximum torque	37.0 Nm
Maximum current	17.2 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	22.0 Nm
Power supply voltage	DC 24 V $\pm$ 10 %
Coil current	0.9 A
Opening time	200 ms
Closing time	60 ms
Highest braking work	1400 J

### Recommended Motor Module

Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	33.30 Nm