



Figure similar

Article No. : 1FK7042-2AF74-1TB1

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :

### Engineering data

Rated speed (100 K)	3,000 rpm
Number of poles	8
Rated torque (100 K)	2.6 Nm
Rated current	2.0 A
Static torque (60 K)	2.50 Nm
Static torque (100 K)	3.00 Nm
Stall current (60 K)	1.80 A
Stall current (100 K)	2.20 A
Moment of inertia	3.200 kgcm <sup>2</sup>
	89.0 %

### Physical constants

Torque constant	1.38 Nm/A
Voltage constant at 20° C	90.0 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	4.67 Ω
	35.0 mH
Electrical time constant	7.50 ms
Mechanical time constant	2.15 ms
Thermal time constant	30 min
Shaft torsional stiffness	11,400 Nm/rad
Net weight of the motor	5.3 kg

### Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
	48
Cooling	Natural cooling
	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 mm
	Grade A
Connector size	1
Degree of protection	IP65
	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
	Connectors for signals and power rotatable
	Standard (Anthracite RAL 7016)
Holding brake	with holding brake
Shaft end	Feather key
Encoder system	Resolver 2-pole

### Optimum operating point

Optimum speed	3,000 rpm
Optimum power	0.8 kW

### Limiting data

Max. permissible speed (mech.)	9,000 rpm
Max. permissible speed (inverter)	6,400 rpm
Maximum torque	10.5 Nm
Maximum current	7.6 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	4.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.5 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	150 J

### Recommended Motor Module

Rated inverter current	3 A
Maximum inverter current	9 A
Maximum torque	10.50 Nm