



Figure similar

Article No. : 1FK7063-2AF74-1SB2

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)	7.3 Nm
Rated current	5.6 A
Static torque (60 K)	9.10 Nm
Static torque (100 K)	11.00 Nm
Stall current (60 K)	6.50 A
Stall current (100 K)	8.00 A
Moment of inertia	15.700 kgcm ²
	91.0 %

Physical constants

Torque constant	1.37 Nm/A
Voltage constant at 20° C	90.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.64 Ω
	8.5 mH
Electrical time constant	13.40 ms
Mechanical time constant	1.48 ms
Thermal time constant	40 min
Shaft torsional stiffness	25,000 Nm/rad
Net weight of the motor	12.5 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
	63
Cooling	Natural cooling
	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
	Grade A
Connector size	1
Degree of protection	IP65 and DE flange IP67
	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	Multi-pole resolver (number of pole pairs corresponds to number of pole pairs of the motor)

Optimum operating point

Optimum speed	3,000 rpm
Optimum power	2.3 kW

Limiting data

Max. permissible speed (mech.)	7,200 rpm
Max. permissible speed (inverter)	6,400 rpm
Maximum torque	35.0 Nm
Maximum current	28.0 A

Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	13.0 Nm
Power supply voltage	DC 24 V ± 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	34.00 Nm