



Figure similar

Article No. : 1FK7081-2AC71-1UB2

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

Item no. :  
Consignment no. :  
Project :

Engineering data	
Rated speed (100 K)	2,000 rpm
Number of poles	8
Rated torque (100 K)	10.0 Nm
Rated current	4.4 A
Static torque (60 K)	10.00 Nm
Static torque (100 K)	12.00 Nm
Stall current (60 K)	4.05 A
Stall current (100 K)	5.00 A
Moment of inertia	23.500 kgcm <sup>2</sup>
Efficiency	93.0 %

Physical constants	
Torque constant	2.40 Nm/A
Voltage constant at 20° C	154.5 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	1.27 Ω
Rotating field inductance	23.5 mH
Electrical time constant	18.40 ms
Mechanical time constant	1.33 ms
Thermal time constant	45 min
Shaft torsional stiffness	76,000 Nm/rad
Net weight of the motor	15.9 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	80
Cooling	Natural cooling
Radial runout tolerance	0.050 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP65 and DE flange IP67
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	Pt1000 temperature sensor
Electrical connectors	Connectors for signals and power rotatable
Color of the housing	Standard (Anthracite RAL 7016)
Holding brake	with holding brake
Shaft end	Feather key
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	2.1 kW

Limiting data	
Max. permissible speed (mech.)	6,000 rpm
Max. permissible speed (inverter)	3,750 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 ± 10 %
Coil current	0.9 A
Opening time	200 ms
Closing time	60 ms
Highest braking work	1,400 J

Recommended Motor Module	
Rated inverter current	5 A
Maximum inverter current	15 A
Maximum torque	33.30 Nm