



Figure similar

Article No. : 1FK7084-2AC71-1QG1

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)	15.0 Nm
Rated current	6.7 A
Static torque (60 K)	16.60 Nm
Static torque (100 K)	20.00 Nm
Stall current (60 K)	6.90 A
Stall current (100 K)	8.50 A
Moment of inertia	32.500 kgcm ²
Efficiency	93.0 %

Physical constants

Torque constant	2.36 Nm/A
Voltage constant at 20° C	152.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.58 Ω
Rotating field inductance	12.0 mH
Electrical time constant	20.50 ms
Mechanical time constant	1.02 ms
Thermal time constant	55 min
Shaft torsional stiffness	93,000 Nm/rad
Net weight of the motor	18.3 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
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	without holding brake
Shaft end	Plain shaft
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Optimum operating point

Optimum speed	2,000 rpm
Optimum power	3.1 kW

Limiting data

Max. permissible speed (mech.)	6,000 rpm
Max. permissible speed (inverter)	3,800 rpm
Maximum torque	61.0 Nm
Maximum current	28.5 A

Recommended Motor Module

Rated inverter current	9 A
Maximum inverter current	27 A
Maximum torque	58.40 Nm