



Figure similar

Article No. : 1FK7061-4CH71-1FB0

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

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	4,500 rpm
Number of poles	6
Rated torque (100 K)	4.3 Nm
Rated current	6.2 A
Static torque (60 K)	5.30 Nm
Static torque (100 K)	6.40 Nm
Stall current (60 K)	7.10 A
Stall current (100 K)	8.70 A
Moment of inertia	5.100 kgcm²
Efficiency	93.0 %

Physical constants	
Torque constant	0.73 Nm/A
Voltage constant at 20° C	47.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.35 Ω
Rotating field inductance	10.7 mH
Electrical time constant	30.50 ms
Mechanical time constant	0.79 ms
Thermal time constant	45 min
Shaft torsional stiffness	26,500 Nm/rad
Net weight of the motor	11.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	M23
Degree of protection	IP64
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	Encoder AM22DQ: absolute encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Optimum operating point	
Optimum speed	4,500 rpm
Optimum power	2.0 kW

Limiting data	
Max. permissible speed (mech.)	7,500 rpm
Max. permissible speed (inverter)	7,500 rpm
Maximum torque	17.3 Nm
Maximum current	26.5 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	17.30 Nm