



Figure similar

MLFB-Ordering data

1FK7083-2AF71-1UA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K)	3000 rpm
Number of poles	8
Rated torque (100 K)	10.5 Nm
Rated current	7.2 A
Static torque (60 K)	13.30 Nm
Static torque (100 K)	16.0 Nm
Stall current (60 K)	8.20 A
Stall current (100 K)	10.10 A
Moment of inertia	26.000 kgcm ²
Efficiency	93.0 %

Physical constants

Torque constant	1.58 Nm/A
Voltage constant at 20° C	102.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.38 Ω
Rotating field inductance	7.0 mH
Electrical time constant	18.60 ms
Mechanical time constant	1.18 ms
Thermal time constant	50 min
Shaft torsional stiffness	101000 Nm/rad
Net weight of the motor	15.6 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	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	without holding brake
Shaft extension	Feather key
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)



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Optimum operating point

Optimum speed 3000 rpm

Optimum power 3.3 kW

Limiting data

Max. permissible speed (mech.) 6000 rpm

Max. permissible speed (inverter) 5600 rpm

Maximum torque 50.0 Nm

Maximum current 37.0 A

Recommended Motor Module

Rated inverter current 9 A

Maximum inverter current 27 A

Maximum torque 40.00 Nm