



Figure similar

MLFB-Ordering data

1FK7084-2AF71-1BG0

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)	10.0 Nm
Rated current	6.5 A
Static torque (60 K)	16.60 Nm
Static torque (100 K)	20.0 Nm
Stall current (60 K)	9.80 A
Stall current (100 K)	12.10 A
Moment of inertia	32.500 kgcm ²
Efficiency	93.0 %

Physical constants	
Torque constant	1.66 Nm/A
Voltage constant at 20° C	106.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.28 Ω
Rotating field inductance	5.9 mH
Electrical time constant	21.00 ms
Mechanical time constant	1.01 ms
Thermal time constant	55 min
Shaft torsional stiffness	93000 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	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	Plain shaft
Encoder system	Encoder AS24DQI: absolute encoder single-turn 24 bits



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Optimum operating point		Recommended Motor Module	
Optimum speed	2500 rpm	Rated inverter current	18 A
Optimum power	3.2 kW	Maximum inverter current	54 A
Limiting data		Maximum torque	61.00 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	5400 rpm		
Maximum torque	61.0 Nm		
Maximum current	41.0 A		