



Figure similar

MLFB-Ordering data

1FK7084-2AC71-1UA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Engineering data

Rated speed (100 K) 2000 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<sup>2</sup>

Efficiency 93.0 %

### Physical constants

Torque constant 2.36 Nm/A

Voltage constant at 20° C 152.0 V/1000\*min<sup>-1</sup>

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 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 end Feather key

Encoder system Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)



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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	9 A
Optimum power	3.1 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	58.40 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	3800 rpm		
Maximum torque	61.0 Nm		
Maximum current	28.5 A		