



Figure similar

MLFB-Ordering data

1FK7101-5AF71-1GG3

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)	15.5 Nm
Rated current	11.8 A
Static torque (60 K)	22.40 Nm
Static torque (100 K)	27.0 Nm
Stall current (60 K)	15.70 A
Stall current (100 K)	19.00 A
Moment of inertia	79.900 kgcm ²
Efficiency	93.0 %

Physical constants	
Torque constant	1.41 Nm/A
Voltage constant at 20° C	90.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.15 Ω
Rotating field inductance	3.0 mH
Electrical time constant	20.00 ms
Mechanical time constant	1.80 ms
Thermal time constant	60 min
Shaft torsional stiffness	165000 Nm/rad
Net weight of the motor	21.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	100
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	1.5
Degree of protection	IP64
Design acc. to Code I	IM B5 (IM V1, IM V3)
Temperature monitoring	KTY84 temperature sensor in the stator winding
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 AM32S/R: absolute encoder 32 S/R, 4096 revolutions multi-turn, with EnDat interface

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	18 A
Optimum power	4.9 kW	Maximum inverter current	36 A
Limiting data		Maximum torque	51.00 Nm
Max. permissible speed (mech.)	5000 rpm		
Max. permissible speed (inverter)	6400 rpm		
Maximum torque	80.0 Nm		
Maximum current	63.0 A		