



Figure similar

MLFB-Ordering data

1FK7043-7AH71-1KA3

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data	
Rated speed (100 K)	4500 rpm
Number of poles	6
Rated torque (100 K)	2.6 Nm
Rated current	4.0 A
Static torque (60 K)	2.50 Nm
Static torque (100 K)	3.1 Nm
Stall current (60 K)	3.60 A
Stall current (100 K)	4.50 A
Moment of inertia	1.010 kgcm <sup>2</sup>
Efficiency	90.0 %

Physical constants	
Torque constant	0.67 Nm/A
Voltage constant at 20° C	44.0 V/1000*min <sup>-1</sup>
Winding resistance at 20° C	1.20 Ω
Rotating field inductance	15.0 mH
Electrical time constant	12.50 ms
Mechanical time constant	0.81 ms
Thermal time constant	40 min
Shaft torsional stiffness	11000 Nm/rad
Net weight of the motor	6.3 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
Shaft height	48
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.08 mm
Axial runout tolerance	0.08 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	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	Feather key
Encoder system	Encoder AM16DQ: absolute encoder 16 bits (resolution 65536, encoder-internal 32 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

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Optimum operating point		Recommended Motor Module	
Optimum speed	4500 rpm	Rated inverter current	5 A
Optimum power	1.2 kW	Maximum inverter current	10 A
<b>Limiting data</b>		Maximum torque	6.80 Nm
Max. permissible speed (mech.)	8000 rpm		
Max. permissible speed (inverter)	13100 rpm		
Maximum torque	9.4 Nm		
Maximum current	14.8 A		