



MLFB-Ordering data1FK7060-5AH71-1KH5

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Engineering data	
Rated speed (100 K)	4500 rpm
Number of poles	8
Rated torque (100 K)	3.7 Nm
Rated current	4.1 A
Static torque (60 K)	5.00 Nm
Static torque (100 K)	6.0 Nm
Stall current (60 K)	5.10 A
Stall current (100 K)	6.20 A
Moment of inertia	10.200 kgcm²
Efficiency	90.0 %
Physical constants	
Torque constant	0.95 Nm/A
Voltage constant at 20° C	60.5 V/1000*min ⁻¹
Winding resistance at 20° C	0.73 Ω
Rotating field inductance	7.0 mH
Electrical time constant	9.60 ms
Mechanical time constant	1.93 ms
Thermal time constant	30 min
Shaft torsional stiffness	42000 Nm/rad
Net weight of the motor	8.0 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
Shaft height	63
Cooling	Natural cooling
Radial runout tolerance	0.040 mm
Concentricity tolerance	0.10 mm
Axial runout tolerance	0.10 mm
Vibration severity grade	Grade A
Connector size	1
Degree of protection	IP65 and DE flange IP67
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	with holding brake
Shaft end	Plain shaft
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	9 A
Optimum power	1.7 kW	Maximum inverter current	18 A
Limiting data		Maximum torque	16.80 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	9500 rpm		
Maximum torque	18.0 Nm		
Maximum current	19.5 A		
Holding brake			
Holding brake version	Permanent-magnet brake		
Holding torque	13.0 Nm		
Power supply voltage	DC 24 V ± 10 %		
Coil current	0.8 A		
Opening time	100 ms		
Closing time	50 ms		
Highest braking work	380 J		