

MLFB-Ordering data

1FK7064-7AH71-1GG0

Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed (100 K)	4500 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	High Dynamic
Rated torque (100 K)	5.0 Nm	Shaft height	63
Rated current	7.0 A	Cooling	Natural cooling
Static torque (60 K)	9.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	12.0 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	12.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	15.00 A	Vibration severity grade	Grade A
Moment of inertia	6.500 kgcm ²	Connector size	1
Efficiency	93.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Temperature monitoring	KTY84 temperature sensor in the stator winding
Torque constant	0.77 Nm/A	Electrical connectors	Connectors for signals and power rotatable
Voltage constant at 20° C	51.0 V/1000*min ⁻¹	Color of the housing	without
Winding resistance at 20° C	0.18 Ω	Holding brake	without holding brake
Rotating field inductance	5.6 mH	Shaft end	Plain shaft
Electrical time constant	31.10 ms	Encoder system	Encoder AM32S/R: absolute encoder 32 S/R, 4096 revolutions multi-turn, with EnDat interface
Mechanical time constant	0.59 ms		
Thermal time constant	55 min		
Shaft torsional stiffness	30000 Nm/rad		
Net weight of the motor	15.5 kg		

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Optimum operating point

Optimum speed 3500 rpm

Optimum power 2.8 kW

Limiting data

Max. permissible speed (mech.) 6000 rpm

Max. permissible speed (inverter) 11300 rpm

Maximum torque 32.0 Nm

Maximum current 42.0 A

Recommended Motor Module

Rated inverter current 18 A

Maximum inverter current 36 A

Maximum torque 28.20 Nm