

MLFB-Ordering data

1FK7063-5AH71-1EG2

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	8	Motor type	Compact		
Rated torque (100 K)	3.0 Nm	Shaft height	63		
Rated current	3.8 A	Cooling	Natural cooling		
Static torque (60 K)	9.10 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	11.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	9.90 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	12.00 A	Vibration severity grade	Grade A		
Moment of inertia	15.100 kgcm ²	Connector size	1		
Efficiency	90.0 %	Degree of protection	IP65 and DE flange IP67		
<th colspan="2">Physical constants</th>		Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Torque constant	0.91 Nm/A	Temperature monitoring	KTY84 temperature sensor in the stator winding
		Voltage constant at 20° C	58.0 V/1000*min ⁻¹	Electrical connectors	Connectors for signals and power rotatable
		Winding resistance at 20° C	0.29 Ω	Color of the housing	without
		Rotating field inductance	3.2 mH	Holding brake	without holding brake
		Electrical time constant	11.00 ms	Shaft extension	Plain shaft
		Mechanical time constant	1.58 ms	Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface
		Thermal time constant	40 min		
		Shaft torsional stiffness	35000 Nm/rad		
		Net weight of the motor	11.5 kg		

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Optimum operating point		Recommended Motor Module	
Optimum speed	3300 rpm	Rated inverter current	18 A
Optimum power	2.3 kW	Maximum inverter current	36 A
Limiting data		Maximum torque	31.20 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	9900 rpm		
Maximum torque	35.0 Nm		
Maximum current	42.0 A		