



Figure similar

MLFB-Ordering data

1FK7063-2AC71-1RA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed (100 K)	2000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	8	Motor type	Compact
Rated torque (100 K)	8.9 Nm	Shaft height	63
Rated current	4.4 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)	4.30 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	5.30 A	Vibration severity grade	Grade A
Moment of inertia	14.700 kgcm ²	Connector size	1
Efficiency	91.0 %	Degree of protection	IP64
Physical constants		Design acc. to Code I	IM B5 (IM V1, IM V3)
		Temperature monitoring	Pt1000 temperature sensor
Torque constant	2.08 Nm/A	Electrical connectors	Connectors for signals and power rotatable
Voltage constant at 20° C	136.5 V/1000*min ⁻¹	Color of the housing	Standard (Anthracite RAL 7016)
Winding resistance at 20° C	1.45 Ω	Holding brake	without holding brake
Rotating field inductance	19.4 mH	Shaft extension	Feather key
Electrical time constant	13.40 ms	Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Mechanical time constant	1.47 ms		
Thermal time constant	40 min		
Shaft torsional stiffness	34000 Nm/rad		
Net weight of the motor	11.1 kg		



Figure similar

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Optimum operating point		Recommended Motor Module	
Optimum speed	2000 rpm	Rated inverter current	5 A
Optimum power	1.9 kW	Maximum inverter current	15 A
Limiting data		Maximum torque	29.50 Nm
Max. permissible speed (mech.)	7200 rpm		
Max. permissible speed (inverter)	4200 rpm		
Maximum torque	35.0 Nm		
Maximum current	18.5 A		