

MLFB-Ordering data1FK7083-5AF71-1DA3



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

Item no. :
Consignment no. :
Project :

Engineering data	Mechanical data
Rated speed (100 K) 3000 rpm	Motor type Permanent-magnet synchronous motor
Number of poles 8	Motor type Compact
Rated torque (100 K) 10.5 Nm	Shaft height 80
Rated current 7.4 A	Cooling Natural cooling
Static torque (60 K) 13.30 Nm	Radial runout tolerance 0.050 mm
Static torque (100 K) 16.0 Nm	Concentricity tolerance 0.10 mm
Stall current (60 K) 8.60 A	Axial runout tolerance 0.10 mm
Stall current (100 K) 10.40 A	Vibration severity grade Grade A
Moment of inertia 27.300 kgcm²	Connector size 1
Efficiency 93.0 %	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 end Feather key
	Encoder system Encoder IC22DQ: incremental encoder 22 bits (resolution 4194304, encoder-internal 2048 S/R) + commutation position 11 bits

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	9 A
Optimum power	3.3 kW	Maximum inverter current	18 A
Limiting data		Maximum torque	27.80 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	5900 rpm		
Maximum torque	50.0 Nm		
Maximum current	37.0 A		