



Figure similar

MLFB-Ordering data

1FK7061-7AF71-1EG0

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

Item no. :
Consignment no. :
Project :

Engineering data

Rated speed (100 K)	3000 rpm
Number of poles	6
Rated torque (100 K)	5.4 Nm
Rated current	5.3 A
Static torque (60 K)	4.90 Nm
Static torque (100 K)	6.4 Nm
Stall current (60 K)	4.80 A
Stall current (100 K)	6.10 A
Moment of inertia	3.400 kgcm ²
Efficiency	93.0 %

Physical constants

Torque constant	1.00 Nm/A
Voltage constant at 20° C	66.0 V/1000*min ⁻¹
Winding resistance at 20° C	0.74 Ω
Rotating field inductance	20.0 mH
Electrical time constant	27.00 ms
Mechanical time constant	0.75 ms
Thermal time constant	45 min
Shaft torsional stiffness	37000 Nm/rad
Net weight of the motor	10.0 kg

Mechanical data

Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
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	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	without
Holding brake	without holding brake
Shaft end	Plain shaft
Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface

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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	9 A
Optimum power	1.7 kW	Maximum inverter current	18 A
Limiting data		Maximum torque	17.30 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	8700 rpm		
Maximum torque	17.3 Nm		
Maximum current	17.5 A		