

Article No. : 1FK7060-2AC71-1EA0-Z
X05

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

Item no. :
Consignment no. :
Project :

Figure similar

Engineering data	
Rated speed (100 K)	2,000 rpm
Number of poles	8
Rated torque (100 K)	5.3 Nm
Rated current	3.0 A
Static torque (60 K)	5.00 Nm
Static torque (100 K)	6.00 Nm
Stall current (60 K)	2.55 A
Stall current (100 K)	3.15 A
Moment of inertia	7.700 kgcm²
Efficiency	90.0 %

Physical constants	
Torque constant	1.91 Nm/A
Voltage constant at 20° C	121.0 V/1000*min ⁻¹
Winding resistance at 20° C	2.75 Ω
Rotating field inductance	30.5 mH
Electrical time constant	11.10 ms
Mechanical time constant	1.75 ms
Thermal time constant	30 min
Shaft torsional stiffness	40,500 Nm/rad
Net weight of the motor	7.1 kg

Mechanical data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
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	Sky blue RAL 5015
Holding brake	without holding brake
Shaft end	Feather key
Encoder system	Encoder AM2048S/R: absolute encoder 2048 S/R, 4096 revolutions multi-turn, with EnDat interface

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	1.1 kW

Limiting data	
Max. permissible speed (mech.)	7,200 rpm
Max. permissible speed (inverter)	4,750 rpm
Maximum torque	18.0 Nm
Maximum current	10.7 A

Recommended Motor Module	
Rated inverter current	3 A
Maximum inverter current	9 A
Maximum torque	15.90 Nm

Special design	
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X05 Paint finish: Sky blue RAL 5015