



Figure similar

MLFB-Ordering data

1FK7060-2AF71-1CG0-Z
V40

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K) 3000 rpm

Number of poles 8

Rated torque (100 K) 4.7 Nm

Rated current 3.7 A

Static torque (60 K) 5.00 Nm

Static torque (100 K) 6.0 Nm

Stall current (60 K) 3.60 A

Stall current (100 K) 4.45 A

Moment of inertia 9.900 kgcm²

Physical constants

Torque constant 1.33 Nm/A

Voltage constant at 20° C 85.5 V/1000*min⁻¹

Winding resistance at 20° C 1.35 Ω

Rotating field inductance 15.2 mH

Electrical time constant 11.30 ms

Mechanical time constant 1.71 ms

Thermal time constant 30 min

Shaft torsional stiffness 40500 Nm/rad

Net weight of the motor 16.5 kg

Recommended Motor Module

Rated inverter current 5 A

Maximum inverter current 15 A

Maximum torque 18.00 Nm

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 Pt1000 temperature sensor

Electrical connectors Connectors for signals and power rotatable

Color of the housing Standard (Anthracite RAL 7016)

Holding brake without holding brake

Shaft extension Plain shaft

Encoder system Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)



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Gearbox data

Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	2.200 kgcm ²
Designation	NP 035	Radial output shaft loading, max.	5000 N
Gearbox shaft end	With feather key	Axial output shaft load, max.	0 N
Gear ratio + steps	5 (1-step)	Efficiency of gearbox	0.97
Temporary input speed	6000 rpm	Torsional backlash	8 '
Motor speed S1	2600 rpm	Gearbox weight	9.40 kg
Output torque S1	125 Nm		
Output moment maximum (short-time)	250 Nm		

Special design

V40 Mounting of NP+ planetary gearbox

Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6700 rpm
Maximum torque	18.0 Nm
Maximum current	15.0 A