



Figure similar

MLFB-Ordering data

1FK7034-2AK71-1PG0-Z
V40

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K) 6000 rpm

Number of poles 6

Rated torque (100 K) 1.0 Nm

Rated current 1.3 A

Static torque (60 K) 1.35 Nm

Static torque (100 K) 1.60 Nm

Stall current (60 K) 1.55 A

Stall current (100 K) 1.90 A

Moment of inertia 1.170 kgcm²

Physical constants

Torque constant 0.84 Nm/A

Voltage constant at 20° C 55.0 V/1000*min⁻¹

Winding resistance at 20° C 4.46 Ω

Rotating field inductance 17.2 mH

Electrical time constant 3.85 ms

Mechanical time constant 1.71 ms

Thermal time constant 30 min

Shaft torsional stiffness 5300 Nm/rad

Net weight of the motor 5.4 kg

Recommended Motor Module

Rated inverter current 3 A

Maximum inverter current 9 A

Maximum torque 6.50 Nm

Mechanical data

Motor type Permanent-magnet synchronous motor

Motor type Compact

Shaft height 36

Cooling Natural cooling

Radial runout tolerance 0.035 mm

Concentricity tolerance 0.08 mm

Axial runout tolerance 0.08 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 end Plain shaft

Encoder system Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)



Figure similar

MLFB-Ordering data

**1FK7034-2AK71-1PG0-Z
V40**

Gearbox data

Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	0.270 kgcm ²
Designation	NP 015	Radial output shaft loading, max.	1700 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	8000 rpm	Torsional backlash	8 '
Motor speed S1	3700 rpm	Gearbox weight	1.90 kg
Output torque S1	21 Nm		
Output moment maximum (short-time)	40 Nm		

Special design

V40 Mounting of NP+ planetary gearbox

Limiting data

Max. permissible speed (mech.)	10000 rpm
Max. permissible speed (inverter)	10000 rpm
Maximum torque	6.5 Nm
Maximum current	8.0 A