



Figure similar

MLFB-Ordering data

1FK7034-2AK71-1RH0-Z
V40

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated speed (100 K)	6000 rpm	Motor type	Permanent-magnet synchronous motor
Number of poles	6	Motor type	Compact
Rated torque (100 K)	1.0 Nm	Shaft height	36
Rated current	1.3 A	Cooling	Natural cooling
Static torque (60 K)	1.35 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	1.6 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.55 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.90 A	Vibration severity grade	Grade A
Moment of inertia	1.270 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP64
Torque constant	0.84 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	55.0 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	4.46 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	17.2 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	3.85 ms	Holding brake	with holding brake
Mechanical time constant	1.71 ms	Shaft extension	Plain shaft
Thermal time constant	30 min	Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Shaft torsional stiffness	3750 Nm/rad		
Net weight of the motor	5.8 kg		
Recommended Motor Module			
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	6.50 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	0.270 kgcm²
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		

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

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	1.9 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.3 A
Opening time	50 ms
Closing time	30 ms
Highest braking work	40 J

Special design	
V40	Mounting of NP+ planetary gearbox