



Figure similar

### MLFB-Ordering data

1FK7022-5AK71-1LH3-Z  
V42

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)	0.6 Nm	Shaft height	28
Rated current	1.4 A	Cooling	Natural cooling
Static torque (60 K)	0.70 Nm	Radial runout tolerance	0.035 mm
Static torque (100 K)	0.8 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.50 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	1.80 A	Vibration severity grade	Grade A
Moment of inertia	0.480 kgcm <sup>2</sup>	Connector size	1
<h3>Physical constants</h3>		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)
		Color of the housing	Standard (Anthracite RAL 7016)
		Holding brake	with holding brake
		Shaft extension	Plain shaft
		Encoder system	Encoder AM20DQ: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
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<h3>Recommended Motor Module</h3>			
Rated inverter current	3 A		
Maximum inverter current	6 A		
Maximum torque	2.65 Nm		



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V42

### Gearbox data

Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	0.130 kgcm <sup>2</sup>
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	10 (1-step)	Efficiency of gearbox	0.97
Temporary input speed	8000 rpm	Torsional backlash	8 ′
Motor speed S1	4300 rpm	Gearbox weight	1.90 kg
Output torque S1	19 Nm		
Output moment maximum (short-time)	35 Nm		

### Special design

V42 Mounting of NP+ planetary gearbox

### Limiting data

Max. permissible speed (mech.)	10000 rpm
Max. permissible speed (inverter)	10000 rpm
Maximum torque	3.4 Nm
Maximum current	8.0 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	1.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.3 A
Opening time	30 ms
Closing time	20 ms
Highest braking work	8 J