



Figure similar

MLFB-Ordering data

1FK7032-5AK71-1HH3-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)	0.8 Nm	Shaft height	36		
Rated current	1.4 A	Cooling	Natural cooling		
Static torque (60 K)	0.85 Nm	Radial runout tolerance	0.035 mm		
Static torque (100 K)	1.1 Nm	Concentricity tolerance	0.08 mm		
Stall current (60 K)	1.40 A	Axial runout tolerance	0.08 mm		
Stall current (100 K)	1.70 A	Vibration severity grade	Grade A		
Moment of inertia	0.910 kgcm ²	Connector size	1		
Physical constants		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	Standard (Anthracite RAL 7016)		
		Holding brake	with holding brake		
		Shaft extension	Plain shaft		
		Encoder system	Encoder AM512S/R: absolute encoder 512 S/R, 4096 revolutions multi-turn, with EnDat interface		
		Recommended Motor Module			
		Rated inverter current	3 A		
Maximum inverter current	6 A				
Maximum torque	3.90 Nm				



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Gearbox data

Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	0.220 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	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)	12800 rpm
Maximum torque	4.5 Nm
Maximum current	7.0 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