



Figure similar

MLFB-Ordering data

1FK7063-2AF71-1RH0-Z  
V42

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data			
Rated speed (100 K)	3000 rpm	Motor type	Permanent-magnet synchronous motor		
Number of poles	8	Motor type	Compact		
Rated torque (100 K)	7.3 Nm	Shaft height	63		
Rated current	5.6 A	Cooling	Natural cooling		
Static torque (60 K)	9.10 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	11.0 Nm	Concentricity tolerance	0.10 mm		
Stall current (60 K)	6.50 A	Axial runout tolerance	0.10 mm		
Stall current (100 K)	8.00 A	Vibration severity grade	Grade A		
Moment of inertia	17.400 kgcm <sup>2</sup>	Connector size	1		
<b>Physical constants</b>		Degree of protection	IP64		
		Torque constant	1.37 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Voltage constant at 20° C	90.5 V/1000*min <sup>-1</sup>	Temperature monitoring	Pt1000 temperature sensor
		Winding resistance at 20° C	0.64 Ω	Electrical connectors	Connectors for signals and power rotatable
		Rotating field inductance	8.5 mH	Color of the housing	Standard (Anthracite RAL 7016)
		Electrical time constant	13.40 ms	Holding brake	with holding brake
		Mechanical time constant	1.48 ms	Shaft extension	Plain shaft
		Thermal time constant	40 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	25000 Nm/rad		
		Net weight of the motor	21.9 kg		
<b>Recommended Motor Module</b>					
		Rated inverter current	9 A		
		Maximum inverter current	27 A		
Maximum torque	34.00 Nm				



Figure similar

## MLFB-Ordering data

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### Gearbox data

Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	1.700 kgcm <sup>2</sup>
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	10 (1-step)	Efficiency of gearbox	0.97
Temporary input speed	6000 rpm	Torsional backlash	8 '
Motor speed S1	3000 rpm	Gearbox weight	9.40 kg
Output torque S1	110 Nm		
Output moment maximum (short-time)	220 Nm		

### Special design

V42 Mounting of NP+ planetary gearbox

### Limiting data

Max. permissible speed (mech.)	7200 rpm
Max. permissible speed (inverter)	6400 rpm
Maximum torque	35.0 Nm
Maximum current	28.0 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	13.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.8 A
Opening time	100 ms
Closing time	50 ms
Highest braking work	380 J