



Figure similar

MLFB-Ordering data

**1FK7080-2AF71-1QG0-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)	6.8 Nm	Shaft height	80
Rated current	4.4 A	Cooling	Natural cooling
Static torque (60 K)	6.60 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	8.0 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	4.00 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	4.90 A	Vibration severity grade	Grade A
Moment of inertia	21.400 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP64
Torque constant	1.61 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	105.0 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	0.98 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	17.50 ms	Holding brake	without holding brake
Mechanical time constant	1.52 ms	Shaft extension	Plain shaft
Thermal time constant	40 min	Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits
Shaft torsional stiffness	120000 Nm/rad		
Net weight of the motor	29.3 kg		
Recommended Motor Module			
Rated inverter current	5 A		
Maximum inverter current	15 A		
Maximum torque	22.10 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	7.200 kgcm²
Designation	NP 045	Radial output shaft loading, max.	8000 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	4000 rpm	Torsional backlash	8 '
Motor speed S1	2300 rpm	Gearbox weight	19.00 kg
Output torque S1	200 Nm		
Output moment maximum (short-time)	400 Nm		

Limiting data	
Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	5500 rpm
Maximum torque	25.0 Nm
Maximum current	18.0 A

Special design	
V42	Mounting of NP+ planetary gearbox