



Figure similar

MLFB-Ordering data 1FK7042-2AF71-1UG0-Z
V42+X01

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)	2.6 Nm	Shaft height	48
Rated current	2.0 A	Cooling	Natural cooling
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	3.0 Nm	Concentricity tolerance	0.08 mm
Stall current (60 K)	1.80 A	Axial runout tolerance	0.08 mm
Stall current (100 K)	2.20 A	Vibration severity grade	Grade A
Moment of inertia	3.390 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP64
Torque constant	1.38 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	90.0 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	4.67 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	35.0 mH	Color of the housing	Jet black, matt RAL 9005
Electrical time constant	7.50 ms	Holding brake	without holding brake
Mechanical time constant	2.15 ms	Shaft extension	Plain shaft
Thermal time constant	30 min	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
Shaft torsional stiffness	15500 Nm/rad		
Net weight of the motor	8.4 kg		
Recommended Motor Module			
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	10.50 Nm		



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Gearbox data			
Gearbox type	Planetary gearbox NP+	Moment of inertia of gearbox	0.490 kgcm²
Designation	NP 025	Radial output shaft loading, max.	2800 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	7000 rpm	Torsional backlash	8 '
Motor speed S1	3900 rpm	Gearbox weight	3.80 kg
Output torque S1	45 Nm		
Output moment maximum (short-time)	90 Nm		
Limiting data		Special design	
Max. permissible speed (mech.)	9000 rpm	V42	Mounting of NP+ planetary gearbox
Max. permissible speed (inverter)	6400 rpm	X01	Paint finish: Jet black, matt RAL 9005
Maximum torque	10.5 Nm		
Maximum current	7.6 A		