



Figure similar

MLFB-Ordering data

1FK7032-2AK71-1CH1-Z
J29

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	1.3 A	Cooling	Natural cooling
Static torque (60 K)	0.95 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	IP65
Torque constant	0.67 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	45.0 V/1000*min ⁻¹	Temperature monitoring	Pt1000 temperature sensor
Winding resistance at 20° C	5.05 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	17.3 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	3.45 ms	Holding brake	with holding brake
Mechanical time constant	2.20 ms	Shaft extension	Plain shaft
Thermal time constant	25 min	Encoder system	Encoder AM24DQI: absolute encoder 24 bits (resolution 16777216, encoder-internal 2048 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Shaft torsional stiffness	4100 Nm/rad		
Net weight of the motor	5.0 kg		
Recommended Motor Module			
Rated inverter current	3 A		
Maximum inverter current	9 A		
Maximum torque	4.50 Nm		



Figure similar

MLFB-Ordering data 1FK7032-2AK71-1CH1-Z
J29

Gearbox data			
Gearbox type	Planetary gearbox SP+	Moment of inertia of gearbox	0.160 kgcm²
Designation	SP 060S-MF1	Radial output shaft loading, max.	2800 N
Gearbox shaft end	Without feather key	Axial output shaft load, max.	2400 N
Gear ratio + steps	10 (1-step)	Efficiency of gearbox	0.97
Motor speed S3-60 %	7500 rpm	Torsional backlash	4 '
Motor speed S1	4000 rpm	Gearbox weight	1.90 kg
Output torque S1	27 Nm		
Rated output torque at duty type S3-60 %	38 Nm		

Limiting data	
Max. permissible speed (mech.)	10000 rpm
Max. permissible speed (inverter)	10000 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

Special design	
J29	Mounting of SP+ planetary gearbox