

MLFB-Ordering data

1FK7060-5AF71-1KV5-Z
D37+G21+H11



Figure similar

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)	4.7 Nm	Shaft height	63
Rated current	3.7 A	Cooling	Natural cooling
Static torque (60 K)	5.00 Nm	Radial runout tolerance	0.040 mm
Static torque (100 K)	6.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	3.70 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	4.50 A	Vibration severity grade	Grade A
Moment of inertia	10.200 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.33 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	84.5 V/1000*min ⁻¹	Temperature monitoring	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	1.44 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	14.7 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	10.20 ms	Holding brake	with holding brake
Mechanical time constant	1.94 ms	Shaft end	Fitted key and keyway
Thermal time constant	30 min	Encoder system	Encoder AM16DQ: absolute encoder 16 bits (resolution 65536, encoder-internal 32 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)
Shaft torsional stiffness	42000 Nm/rad		
Net weight of the motor	35.4 kg		
Recommended Motor Module			
Rated inverter current	5 A		
Maximum inverter current	10 A		
Maximum torque	13.20 Nm		



Figure similar

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Gearbox data			
Gearbox type	Helical geared	Overload factor	1.40
Designation	C302	Type of construction	IM B3 / IM B5 / IM B14 / IM B34 / IM B35
Gearbox ratio	50	Mounting position	no value
Output speed at the gearbox shaft	60 rpm	Connector position	Connector position on gearbox side 2, top
Rated output torque at duty type S3-60 %	227 Nm	Type	Tapped hole group
Acceleration torque max.	400 Nm	Gearbox shaft end	Solid shaft with fitted key
Power at duty type S3-60%	1.43 kW	Gearbox output arrangement	no value
Radial output shaft loading, max.	3911 N	Arrangement of shrink disk	no value
Precise ratio	2736/55		

Limiting data	
Max. permissible speed (mech.)	7200 rpm

Max. permissible speed (inverter)	6800 rpm
Maximum torque	18.0 Nm
Maximum current	15.0 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	400 J

Special design	
D37	Helical geared motors
G21	Tapped hole group, Solid shaft with fitted key (Gearbox side 4)
H11	Connector position on gearbox side 2, top