

MLFB-Ordering data

1FK7063-5AF71-1PV5-Z
B35+G31+H51



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)	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)	11.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	6.60 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	8.00 A	Vibration severity grade	Grade A
Moment of inertia	17.300 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.37 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	87.5 V/1000*min ⁻¹	Temperature monitoring	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	0.65 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	7.7 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	11.80 ms	Holding brake	with holding brake
Mechanical time constant	1.56 ms	Shaft end	Fitted key and keyway
Thermal time constant	40 min	Encoder system	Resolver R14DQ: resolver 14 bits (resolution 16384, internal 2-pole)
Shaft torsional stiffness	35000 Nm/rad		
Net weight of the motor	45.3 kg		
Recommended Motor Module			
Rated inverter current	9 A		
Maximum inverter current	18 A		
Maximum torque	24.50 Nm		



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Gearbox data			
Gearbox type	Bevel geared	Overload factor	1.50
Designation	K302	Type of construction	no value
Gearbox ratio	23	Mounting position	EL 5
Output speed at the gearbox shaft	129 rpm	Connector position	Connector position on gearbox side 2, top
Rated output torque at duty type S3-60 %	165 Nm	Type	Flange (round)
Acceleration torque max.	385 Nm	Gearbox shaft end	Solid shaft with fitted key
Power at duty type S3-60%	2.22 kW	Gearbox output arrangement	Gearbox side 4
Radial output shaft loading, max.	3762 N	Arrangement of shrink disk	no value
Precise ratio	559/24		

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

Max. permissible speed (inverter)	6600 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	400 J

Special design	
B35	Bevel geared motors
G31	Flange (round), Solid shaft with fitted key (Plug-in gearbox side 5 for parallel shaft gearboxes; plug-in side 4 for bevel and worm gearboxes)
H51	Connector position on gearbox side 2, top