



Figure similar

MLFB-Ordering data

1FK7083-5AF71-1UV5-Z
B23+G24+H13+Q23

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)	10.5 Nm	Shaft height	80
Rated current	7.4 A	Cooling	Natural cooling
Static torque (60 K)	13.30 Nm	Radial runout tolerance	0.050 mm
Static torque (100 K)	16.00 Nm	Concentricity tolerance	0.10 mm
Stall current (60 K)	8.60 A	Axial runout tolerance	0.10 mm
Stall current (100 K)	10.40 A	Vibration severity grade	Grade A
Moment of inertia	35.900 kgcm ²	Connector size	1
Physical constants		Degree of protection	IP65 and DE flange IP67
Torque constant	1.52 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
Voltage constant at 20° C	97.0 V/1000*min ⁻¹	Temperature monitoring	KTY84 temperature sensor in the stator winding
Winding resistance at 20° C	0.40 Ω	Electrical connectors	Connectors for signals and power rotatable
Rotating field inductance	6.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
Electrical time constant	15.50 ms	Holding brake	with holding brake
Mechanical time constant	1.41 ms	Shaft end	Fitted key and keyway
Thermal time constant	50 min	Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)
Shaft torsional stiffness	105000 Nm/rad		
Net weight of the motor	49.7 kg		
Recommended Motor Module			
Rated inverter current	9 A		
Maximum inverter current	18 A		
Maximum torque	27.80 Nm		



Figure similar

MLFB-Ordering data 1FK7083-5AF71-1UV5-Z
B23+G24+H13+Q23

Gearbox data			
Gearbox type	Bevel geared	Overload factor	1.20
Designation	K202	Type of construction	no value
Gearbox ratio	10	Mounting position	EL 1
Output speed at the gearbox shaft	298 rpm	Connector position	Connector position on gearbox side 1, below
Rated output torque at duty type S3-60 %	103 Nm	Type	Tapped hole group
Acceleration torque max.	184 Nm	Gearbox shaft end	Hollow shaft with clamping element
Power at duty type S3-60%	3.20 kW	Gearbox output arrangement	Insertion side 3
Radial output shaft loading, max.	2439 N	Arrangement of shrink disk	Shrink disk side 4
Precise ratio	2881/286		

Limiting data	
Max. permissible speed (mech.)	6000 rpm
Max. permissible speed (inverter)	5900 rpm
Maximum torque	50.0 Nm
Maximum current	37.0 A

Special design	
B23	Bevel geared motors
G24	Tapped hole group, Hollow shaft with shrunk-on disk (Gearbox side 4)
H13	Plug position on gear side 1, bottom
Q23	Torque arm side 1, eye side 3 for K202, S202

Holding brake	
Holding brake version	Permanent-magnet brake
Holding torque	22.0 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.9 A
Opening time	200 ms
Closing time	60 ms
Highest braking work	1400 J