



Figure similar

### MLFB-Ordering data

1FK7042-5AF71-1KV5-Z  
C11+G23+H32

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	1.9 A	Cooling	Natural cooling		
Static torque (60 K)	2.50 Nm	Radial runout tolerance	0.040 mm		
Static torque (100 K)	3.00 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	3.450 kgcm <sup>2</sup>	Connector size	1		
<b>Physical constants</b>		Degree of protection	IP65 and DE flange IP67		
		Torque constant	1.40 Nm/A	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Voltage constant at 20° C	89.0 V/1000*min <sup>-1</sup>	Temperature monitoring	KTY84 temperature sensor in the stator winding
		Winding resistance at 20° C	5.15 Ω	Electrical connectors	Connectors for signals and power rotatable
		Rotating field inductance	29.0 mH	Color of the housing	Standard (Anthracite RAL 7016)
		Electrical time constant	5.60 ms	Holding brake	with holding brake
		Mechanical time constant	2.37 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	16000 Nm/rad		
		Net weight of the motor	21.3 kg		
<b>Recommended Motor Module</b>					
		Rated inverter current	3 A		
		Maximum inverter current	6 A		
Maximum torque	8.40 Nm				

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### Gearbox data

Gearbox type	Offset-shaft	Overload factor	3.60
Designation	F102	Type of construction	no value
Gearbox ratio	4	Mounting position	EL 3
Output speed at the gearbox shaft	696 rpm	Connector position	Connector position on gearbox side 4, right
Rated output torque at duty type S3-60 %	11 Nm	Type	Tapped hole group
Acceleration torque max.	45 Nm	Gearbox shaft end	Hollow shaft with keyway
Power at duty type S3-60%	0.79 kW	Gearbox output arrangement	Insertion side 5
Radial output shaft loading, max.	1021 N	Arrangement of shrink disk	no value
Precise ratio	56/13		

### Limiting data

Max. permissible speed (mech.)	9000 rpm
Max. permissible speed (inverter)	6500 rpm
Maximum torque	10.5 Nm
Maximum current	7.4 A

### Holding brake

Holding brake version	Permanent-magnet brake
Holding torque	3.2 Nm
Power supply voltage	DC 24 V ± 10 %
Coil current	0.6 A
Opening time	70 ms
Closing time	30 ms
Highest braking work	74 J

### Special design

C11	Offset-shaft geared motors
G23	Tapped hole group, Hollow shaft with keyway (Plug-in gearbox side 5 for parallel shaft gearboxes, plug-in side 4 for bevel and worm gearboxes)
H32	Connector position on gearbox side 4, right