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General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen

Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

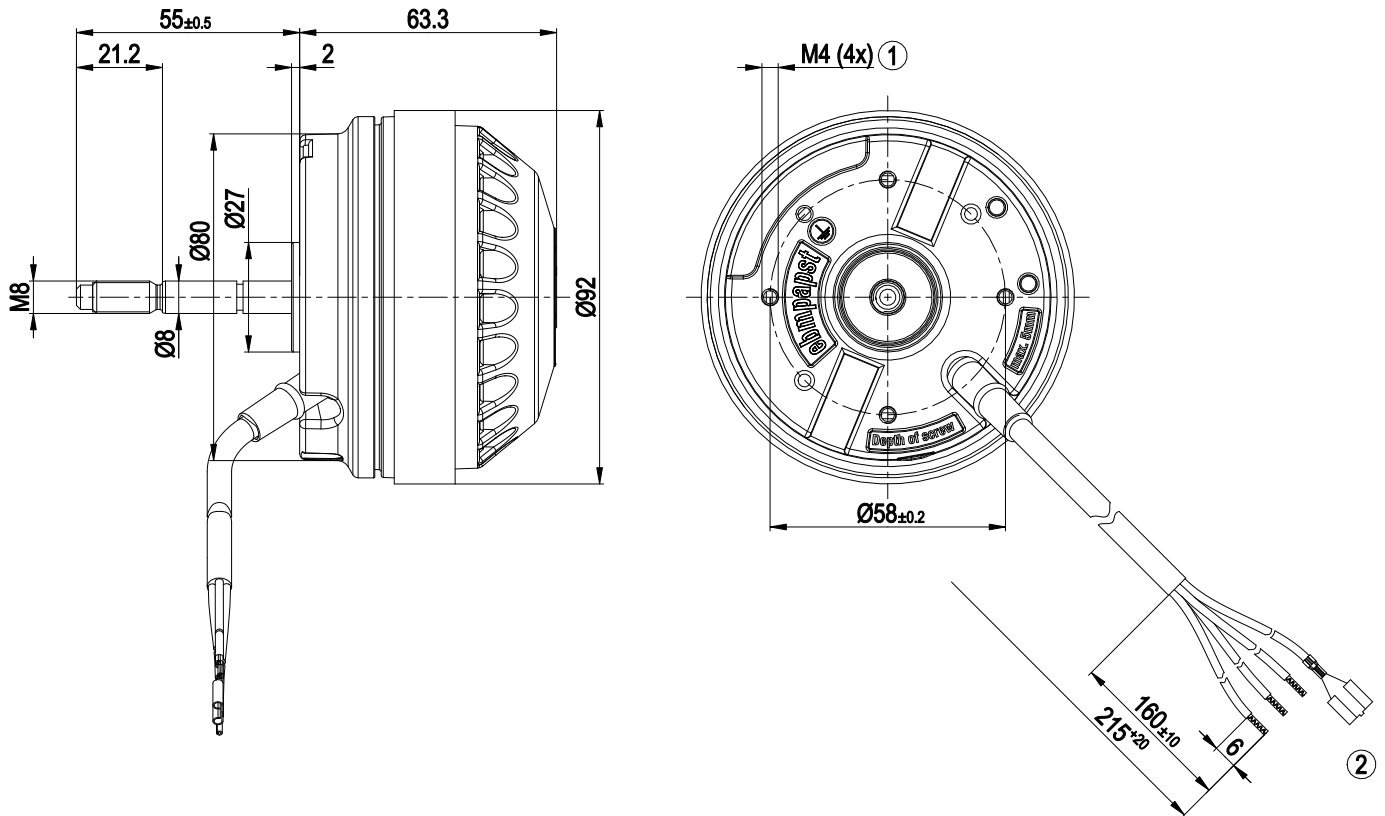
Type	M2E068-BF83-12		
Motor	M2E068-BF		
Phase		1~	1~
Nominal voltage	VAC	240	240
Nominal voltage range	VAC	220 .. 240	220 .. 240
Frequency	Hz	50	60
Method of obtaining data		me	me
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2400	2600
Power consumption	W	51	62
Power output	W	20	23
Current draw	A	0.22	0.26
Capacitor	μF	1	1
Capacitor voltage	VDB	450	450
Capacitor standard		S0 (CE)	S0 (CE)
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50
Starting current	A	0.3	0.3

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

Technical description

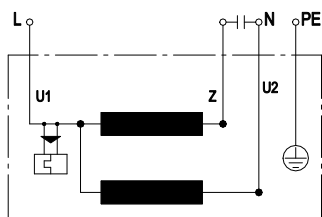
Weight	1 kg
Motor size	68
Rotor surface	Painted black
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	- 40 °C
Min. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor mounting	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CCC

Product drawing



- | | |
|---|---|
| 1 | Max. clearance for screw 5 mm |
| 2 | Cable PVC 4G 0.5 mm ² , 3x wire-end splice, 1x crimped flat push-on receptacle 6.3 x 0.8 |

Connection diagram



U1	blue	Z	brown	U2	black
PE	green/yellow				

The graph displays the dynamic viscosity η_d in Ncm on the y-axis (ranging from 0 to 11) against the angular velocity n in 1/min on the x-axis (ranging from 0 to 3400). Two data series are plotted: a red curve with square markers and a blue curve with diamond markers. Both curves start at approximately 8.2 Ncm at 0 1/min. The red curve rises to a peak of about 11.1 Ncm at 1600 1/min before dropping sharply to around 0.5 Ncm at 2850 1/min. The blue curve rises more gradually to a peak of about 10.0 Ncm at 2000 1/min and then drops to about 0.8 Ncm at 3400 1/min.

Angular velocity n [1/min]	Dynamic viscosity η_d [Ncm] (Red Curve)	Dynamic viscosity η_d [Ncm] (Blue Curve)
0	8.2	8.2
400	9.4	8.6
800	10.0	9.1
1200	10.7	9.5
1600	11.1	9.9
2000	10.5	10.0
2400	8.0	9.4
2800	2.2	7.5
3200	-	3.8
3400	-	0.8

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