

G2D146-BF06-10 ebmpapst Datasheet

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Nominal data

Type	G2D146-BF06-10		
Motor	M2D068-EC		
Phase		3~	3~
Nominal voltage	VAC	400	400
Wiring		Δ	Y
Frequency	Hz	50	50
Method of obtaining data		fa	fa
Valid for approval/standard		CE	CE
Speed (rpm)	min ⁻¹	2500	1800
Power consumption	W	245	150
Current draw	A	0.39	0.23
Min. back pressure	Pa	0	0
Min. back pressure	inH ₂ O	0	0
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	60	60

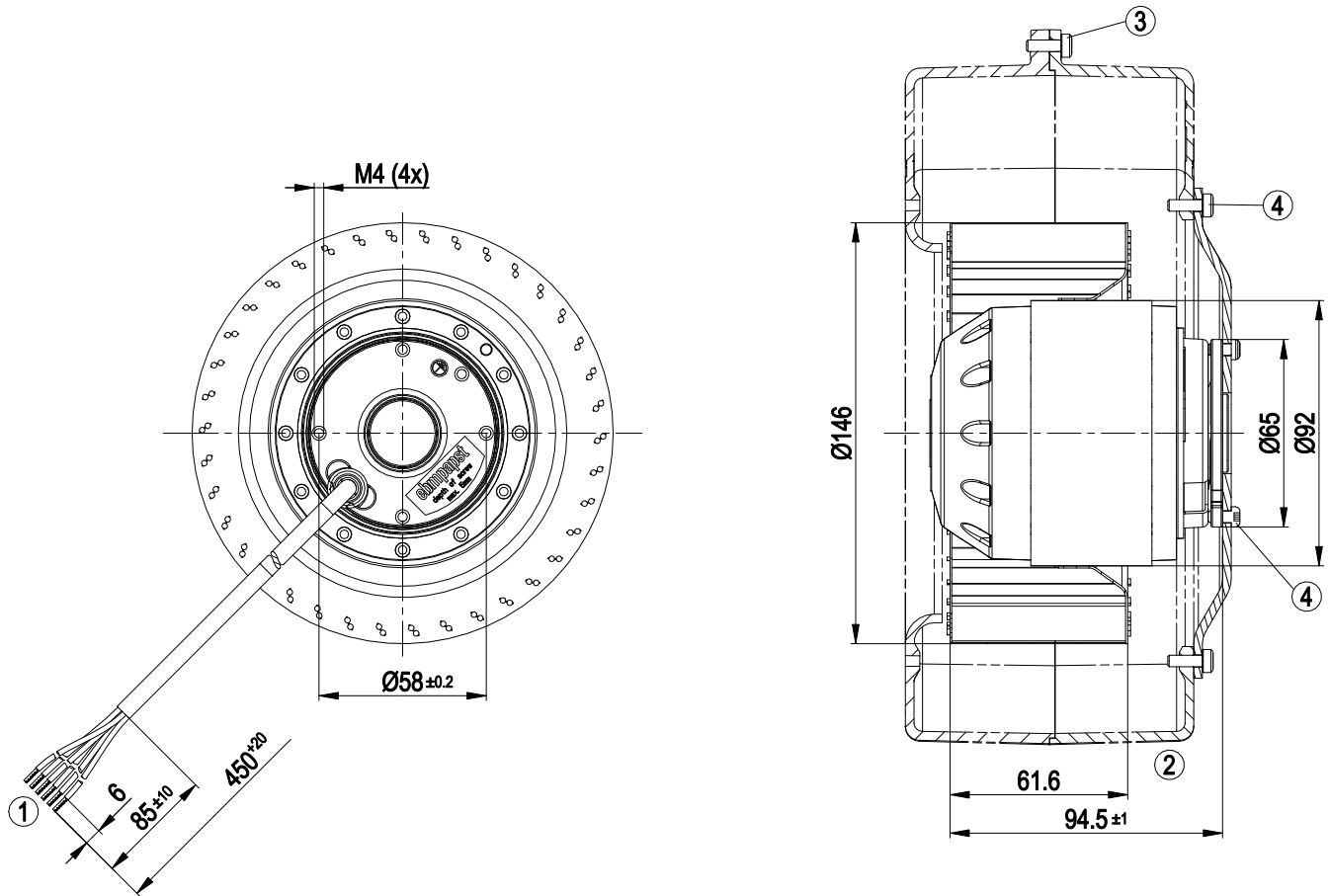
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · oe = Customer equipment
Subject to change



Technical description

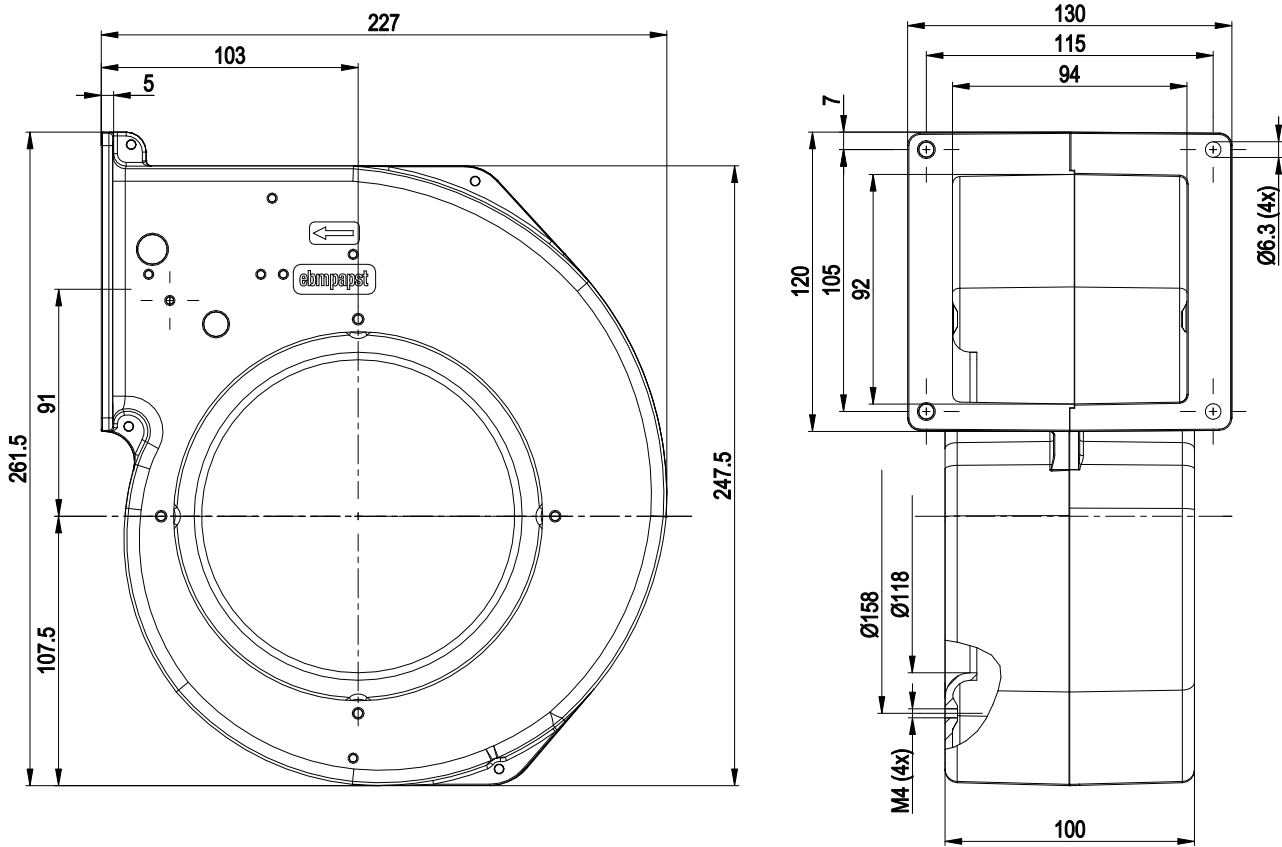
Weight	3.9 kg
Fan size	146 mm
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	F2-2
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
With cable	Variable
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1, motor does not have factory-installed overheating protection; CE

Product drawing

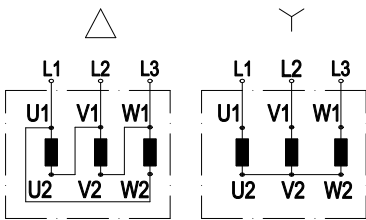


1	Cable halogen-silicone-free 6x 0.5 mm ² , 6x crimped splices
2	Housing parts, support plate and cheese-head screws included separately
3	Tightening torque 3.2 ± 0.5 Nm
4	Tightening torque 2.2 ± 0.3 Nm

Accessory part



Connection diagram

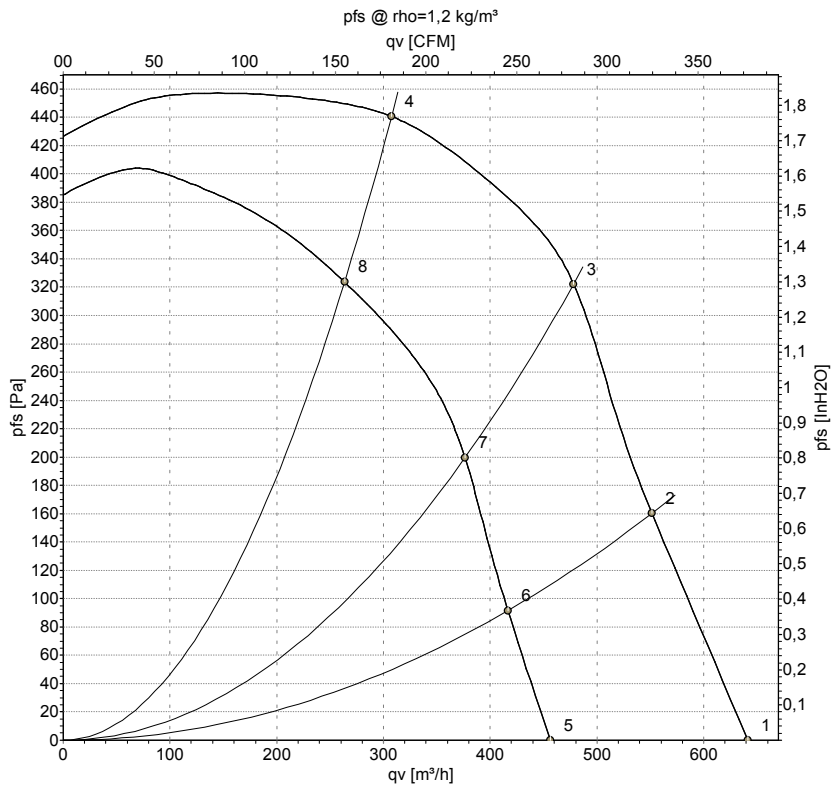


Change of rotation direction by reversing two phases

	Three-phase motor	Δ	Delta connection	Y	Star connection
L 1	= U1 = black	L2	= V1 = blue	L3	= W1 = brown
U2	green	V2	white	W2	yellow



Curves: Air performance 50 Hz Y



Measurement: LU-45387-1
Measurement: LU-45389-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	qv	p _{fs}	qv	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	CFM	inH2O
1	Δ	400	50	2500	245	0.39	640	0	375	0.00
2	Δ	400	50	2605	204	0.33	550	160	325	0.64
3	Δ	400	50	2685	170	0.29	480	320	280	1.28
4	Δ	400	50	2820	109	0.22	310	440	180	1.77
5	Y	400	50	1800	150	0.23	455	0	270	0.00
6	Y	400	50	1975	135	0.21	415	88	245	0.35
7	Y	400	50	2125	122	0.19	375	205	220	0.82
8	Y	400	50	2430	89	0.14	265	324	155	1.30

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase