

EC centrifugal fan

forward-curved, single-intake
with housing (flange)



G1G108-AA21-05 ebmpapst Datasheet
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Nominal data

Type	G1G108-AA21-05	
Motor	M1G055-BD	
Nominal voltage	VDC	24
Nominal voltage range	VDC	20 .. 28
Method of obtaining data		fa
Status		prelim.
Speed (rpm)	min ⁻¹	1900
Power consumption	W	30
Current draw	A	1.25
Min. back pressure	Pa	0
Min. back pressure	inH2O	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	50

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



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Technical description

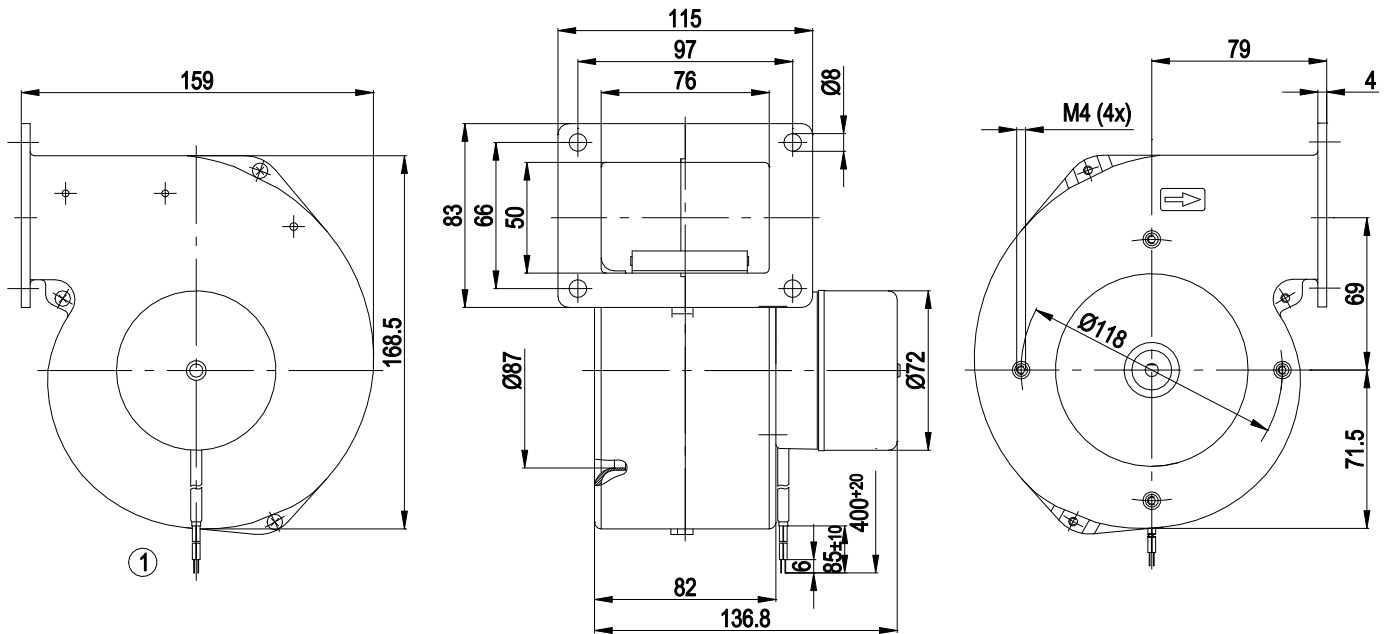
Weight	1.3 kg
Fan size	108 mm
Rotor surface	Painted black
Impeller material	Sheet aluminum
Housing material	Die-cast aluminum
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
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
Technical features	- Tach output - Motor current limitation - Soft start - PWM control input
Motor protection	Reverse polarity and locked-rotor protection
With cable	Lateral
Protection class	I (if protective earth is connected by customer to the housing's connection point)
Conformity with standards	EN 60335-1



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Product drawing



1	Cable PVC AWG22
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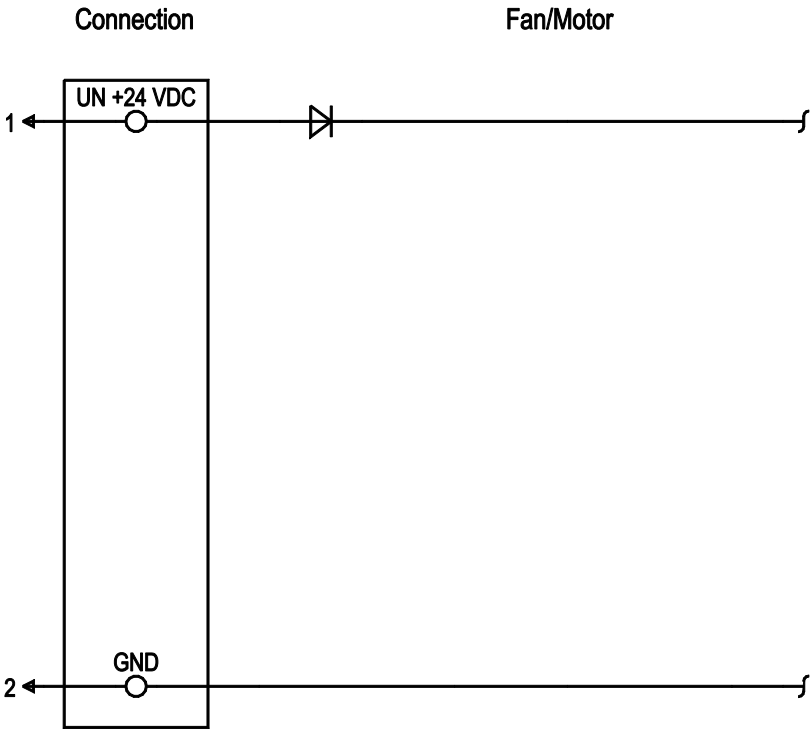


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Connection diagram

Customer circuit



No.	Conn.	Designation	Color	Function/assignment
1	1	UN +24V	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple $\pm 3.5\%$
1	2	GND	blue	Reference ground

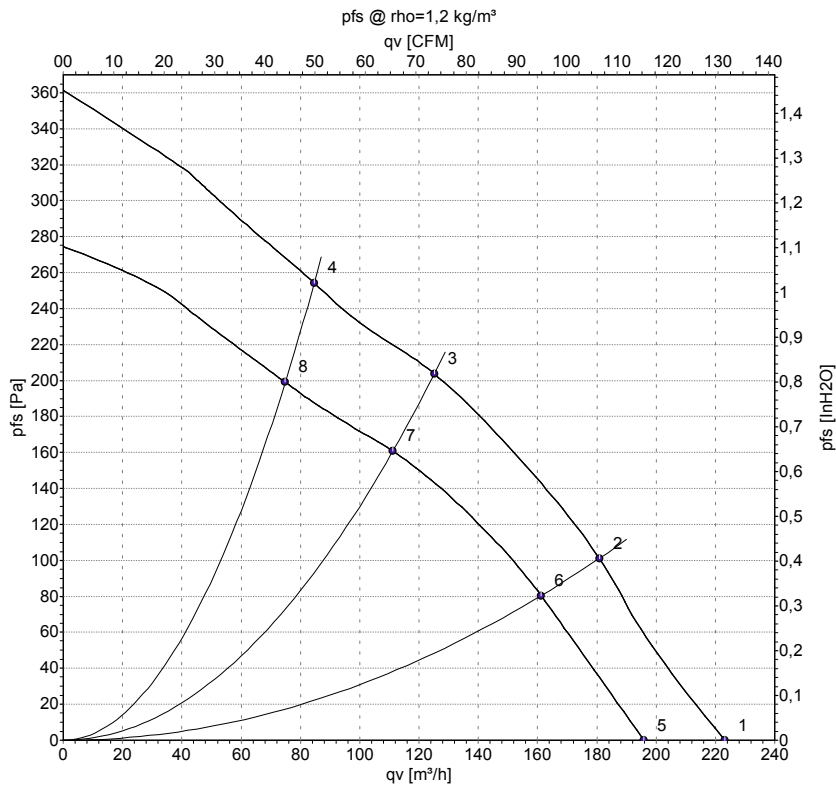


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Curves: Air performance



Measurement: LU-22431-1
Measurement: LU-22430-1

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

	U	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
	V	min ⁻¹	W	A	m³/h	Pa	cfm	inH2O
1	28	2110	41	1.46	225	0	130	0.00
2	28	2310	35	1.26	180	104	105	0.42
3	28	2590	28	1.00	125	206	75	0.83
4	28	2795	24	0.86	85	254	50	1.02
5	24	1900	30	1.25	195	0	115	0.00
6	24	2080	26	1.10	160	80	95	0.32
7	24	2315	21	0.87	110	160	65	0.64
8	24	2485	17	0.73	75	200	45	0.80

U = Power supply · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

