W2G115-AG71-12

EC axial compact fan

straight blades (A series)

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Nominal data

Type	**W2G115-AG71-12**	
Motor	**M2G045-BA**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Status		prelim.
Speed (rpm)	min^{-1}	4050
Power consumption	W	12
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	72

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

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Technical description

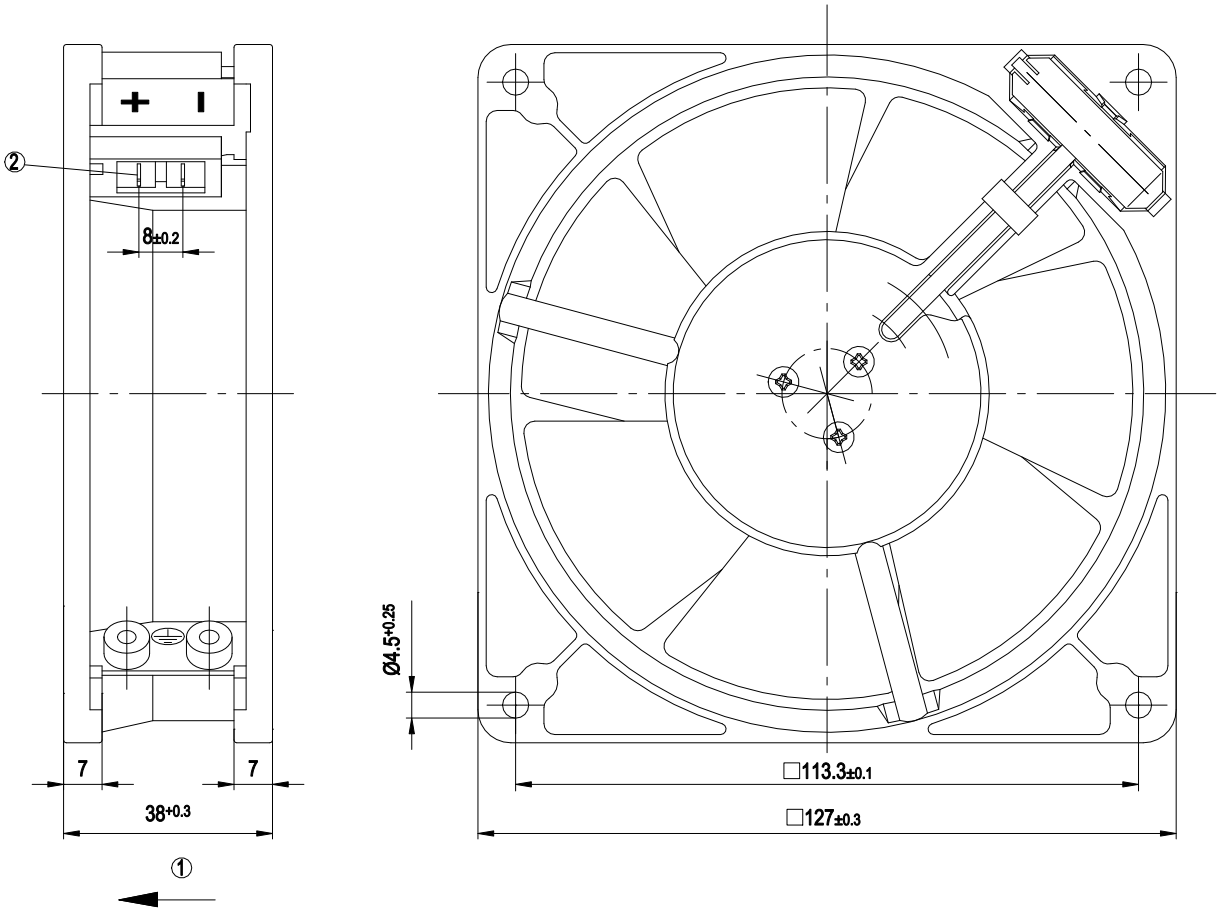
Weight	0.55 kg
Size	115 mm
Motor size	45
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Die-cast aluminum, painted black
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP22
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
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	On rotor side
Mode	S1
Motor bearing	Ball bearing
Technical features	- Reverse polarity protection
Electrical hookup	Plug
Motor protection	Reverse polarity and locked-rotor protection

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Product drawing



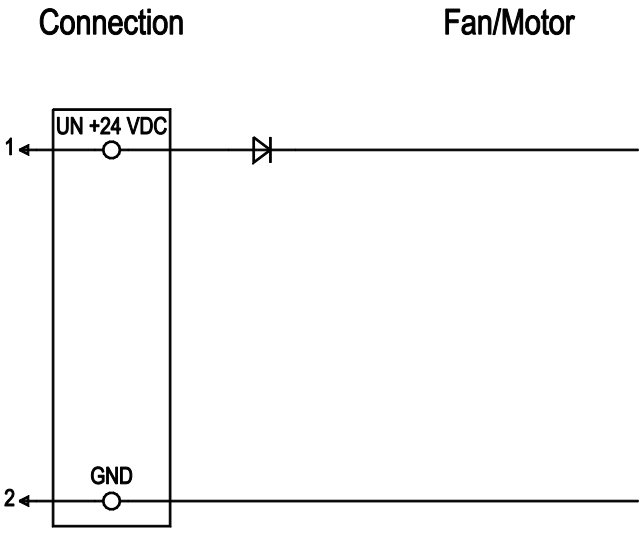
1	Direction of air flow "V"
2	2x flat plug 2.8 x 0.5 (AMP no. 170058-2)

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Connection diagram



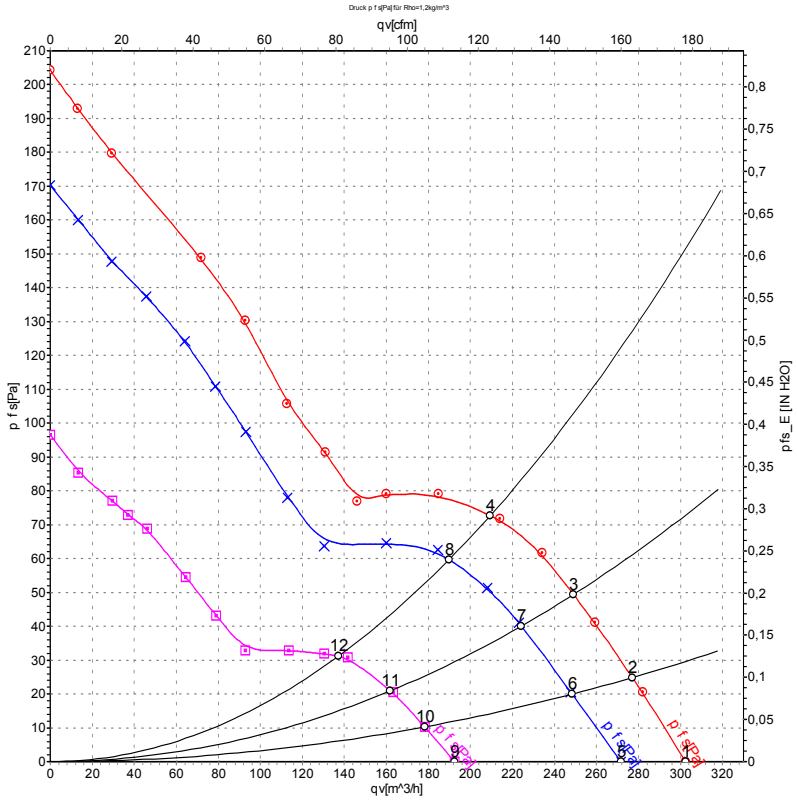
No.	Conn.	Designation	Color	Function/assignment
1		UN +24 VDC	red	Power supply 24 VDC, see nameplate for voltage range, maximum ripple ±3.5%
2		GND	blue	Reference ground

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Curves: Air performance



Measurement: LU-17909-1
Measurement: LU-17908-1
Measurement: LU-17910-1

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	m^3/h	Pa	cfm	in. wg
1	28	4490	17	0.60	300	0	180	0.00
2	28	4370	17	0.60	275	25	165	0.10
3	28	4245	19	0.66	250	49	145	0.20
4	28	4150	17	0.59	210	73	125	0.29
5	24	4050	12	0.51	270	0	160	0.00
6	24	3955	12	0.52	250	20	145	0.08
7	24	3855	14	0.56	225	40	130	0.16
8	24	3750	14	0.58	190	60	110	0.24
9	16	2930	4.3	0.27	195	0	115	0.00
10	16	2860	5.0	0.31	180	10	105	0.04
11	16	2800	4.6	0.29	160	21	95	0.08
12	16	2750	5.4	0.34	135	31	80	0.12

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

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