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County court Stuttgart · HRB 590142

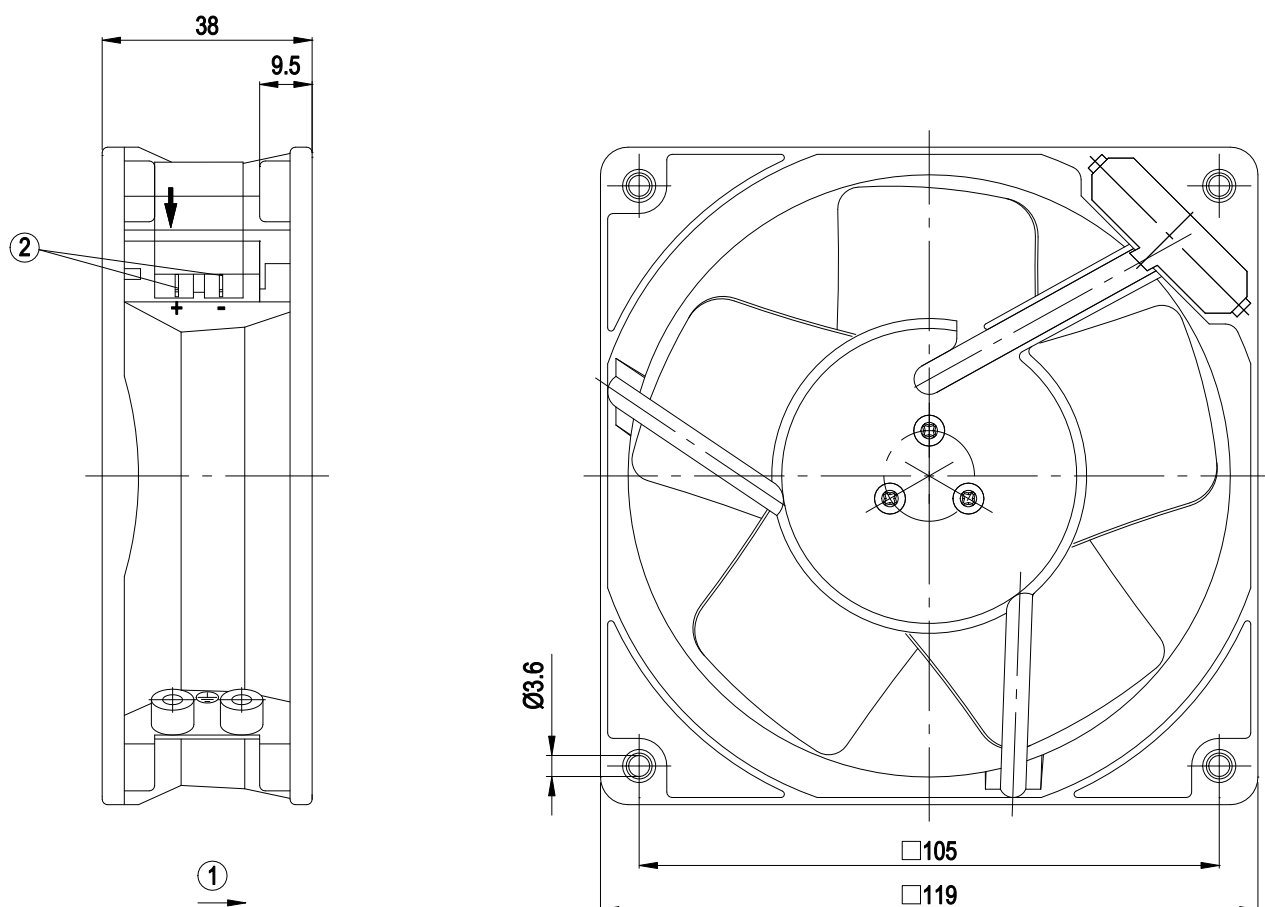
Type	W2G110-AN27-13	
Motor	M2G045-BA	
Nominal voltage	VDC	24
Nominal voltage range	VDC	18 .. 30
Type of data definition		fa
State		prelim.
Speed	min ⁻¹	2800
Power input	W	4.3
Current draw	A	0.18
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	72

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

Technical features

Mass	0.5 kg
Size	110 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Die-cast aluminium, coated in black
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 22
Insulation class	"B"
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 25 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Over-temperature protected electronics / motor
Electrical leads	With plug
Motor protection	Reverse polarity and locked-rotor protection
Product conforming to standard	EN 60950-1
Approval	CSA C22.2 Nr.113; UL 507; VDE

Product drawing



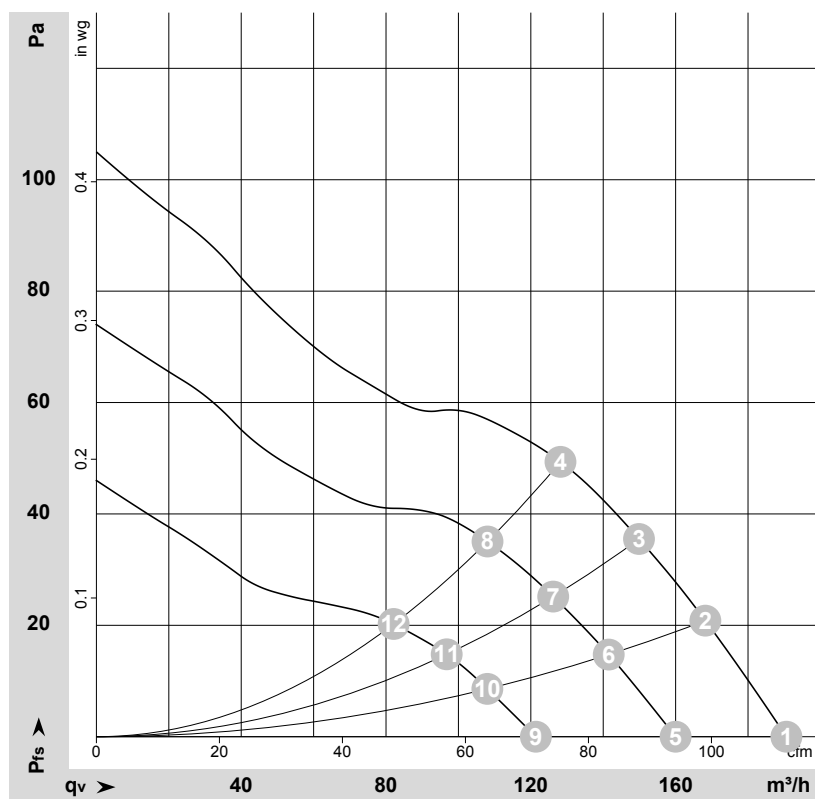
- | | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | 2x flat connectors 2.8x0.5 (AMP no. 170058-2) |

The diagram illustrates the electrical connection for a fan or motor. It is divided into three main sections: **Customer circuit**, **Connection**, and **Fan / motor**.

- Customer circuit:** Contains two main power lines, labeled **1** and **2**.
- Connection:** This section is enclosed in a dashed box and contains the following components:
 - A **24V** terminal connected to line **1**.
 - A **- GND** terminal connected to line **2**.
 - A battery symbol with a **+** (positive) terminal and a **-** (negative) terminal.
 - A diode symbol connected in series with line **1** after the 24V terminal.
- Fan / motor:** The output of the diode is connected to the fan/motor block.

No.	Conn.	Designation	Colour	Function / assignment
1	1	UN +24V	red	Power supply +24 V/voltage range refer to rating plate, residual ripple $\pm 3.5\%$
1	2	GND	blue	Reference mass

Charts: Air flow



$\rho = 1,15 \text{ kg/m}^3 \pm 2\%$

Measurement: LU-9393

Measurement: LU-9392

Measurement: LU-9394

Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	U	n	P _{ed}	I	qv	p _{fs}
	V	min ⁻¹	W	A	m ³ /h	Pa
1	30	3320	7.0	0.22	190	0
2	30	3235	7.0	0.24	170	21
3	30	3180	8.0	0.25	150	36
4	30	3130	8.0	0.25	130	50
5	24	2800	4.3	0.18	160	0
6	24	2705	4.5	0.18	140	15
7	24	2665	4.5	0.19	125	25
8	24	2630	5.0	0.20	110	35
9	18	2125	2.00	0.12	120	0
10	18	2080	2.00	0.12	110	9
11	18	2055	2.00	0.13	95	15
12	18	2030	2.00	0.13	80	20

U = Supply voltage · n = Speed · P_{ed} = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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