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Amtsgericht (court of registration) Stuttgart · HRB 590142

**Nominal data**

<b>Type</b>	<b>W2G110-AK43-31</b>	
<b>Motor</b>	<b>M2G045-BA</b>	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min <sup>-1</sup>	4400
Power consumption	W	15
Max. back pressure	Pa	100
Max. back pressure	in. wg	0.4
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	72

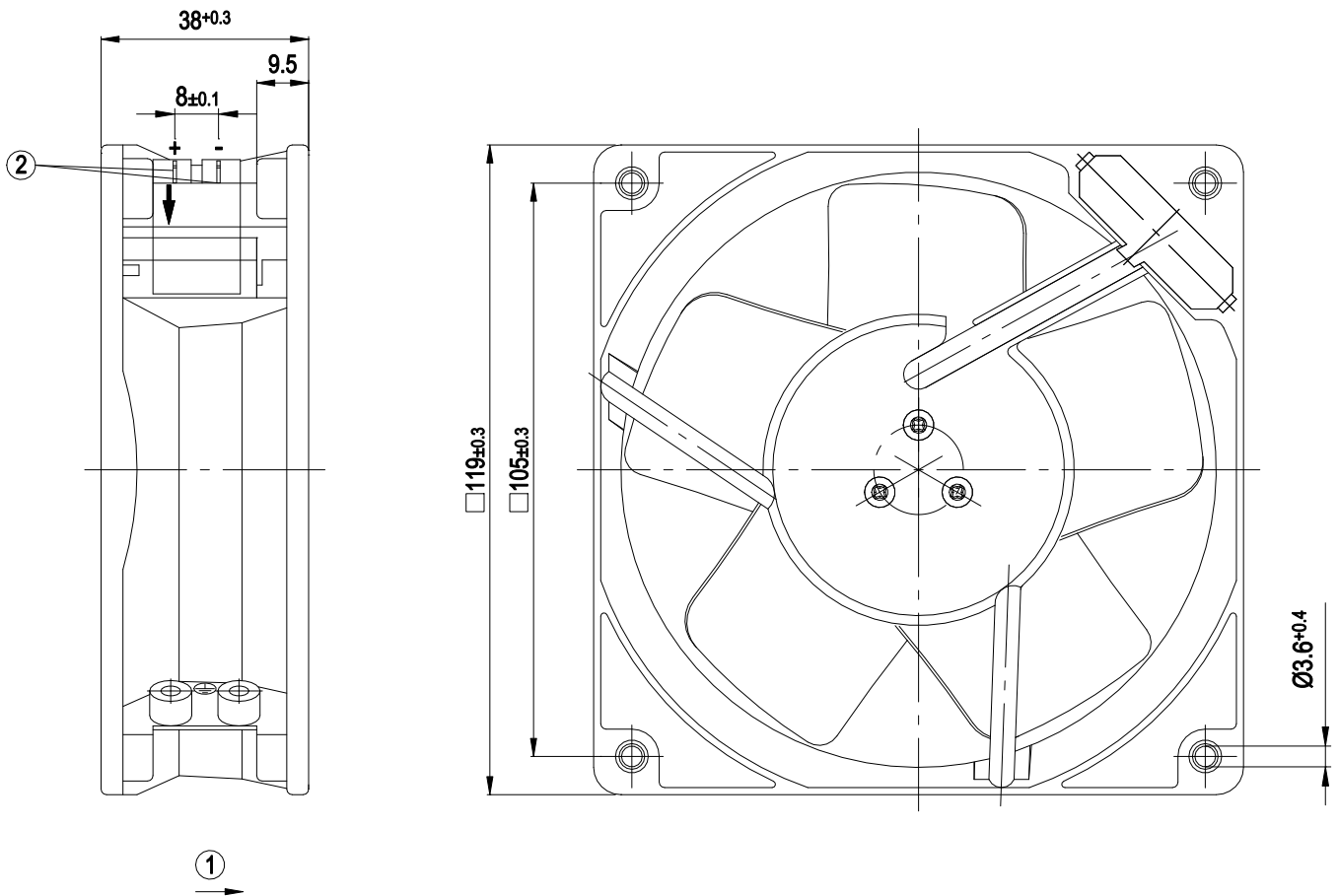
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment  
 Subject to change



### Technical description

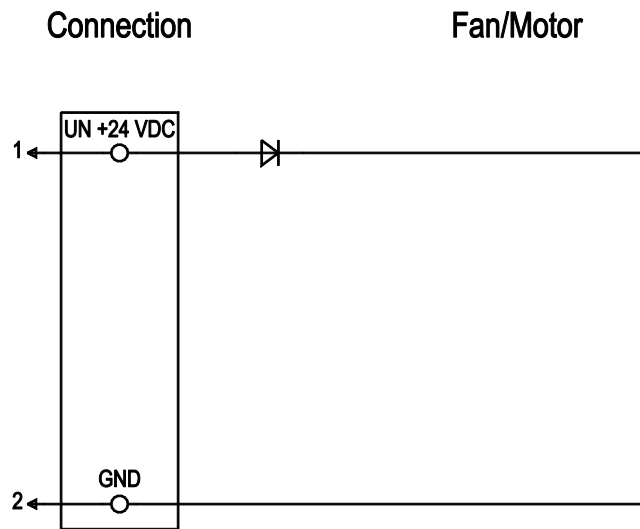
<b>Weight</b>	0.483 kg
<b>Size</b>	110 mm
<b>Motor size</b>	45
<b>Rotor surface</b>	Painted black
<b>Blade material</b>	Sheet steel, painted black
<b>Fan housing material</b>	Die-cast aluminum, painted black
<b>Number of blades</b>	5
<b>Airflow direction</b>	A
<b>Direction of rotation</b>	Counterclockwise, viewed toward rotor
<b>Degree of protection</b>	IP22
<b>Insulation class</b>	"B"
<b>Moisture (F) / Environmental (H) protection class</b>	H0+
<b>Max. permitted ambient temp. for motor (transport/storage)</b>	+ 80 °C
<b>Min. permitted ambient temp. for motor (transport/storage)</b>	- 25 °C
<b>Installation position</b>	Any
<b>Condensation drainage holes</b>	None
<b>Mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Technical features</b>	- Reverse polarity protection
<b>Electrical hookup</b>	Plug
<b>Motor protection</b>	Reverse polarity and locked-rotor protection
<b>Conformity with standards</b>	EN 60950-1
<b>Approval</b>	UL 507; EAC

## Product drawing



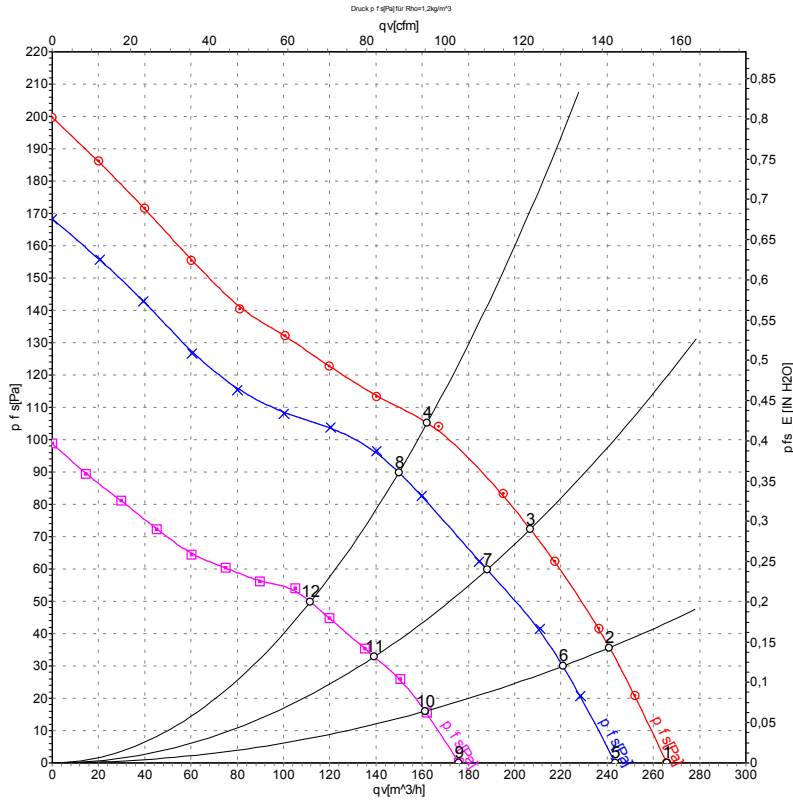
1	Direction of air flow "A"
2	2x flat plug 2.8 x 0.5 (AMP no. 170058-2)

## Connection diagram



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

## Curves: Air performance



Measurement: LU-77463-1  
 Measurement: LU-77462-1  
 Measurement: LU-77464-1

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 <sub>ed</sub>	I	q <sub>v</sub>	p <sub>fs</sub>	q <sub>v</sub>	p <sub>fs</sub>
	V	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa	cfm	in. wg
1	28	4755	21	0.83	265	0	155	0.00
2	28	4635	22	0.87	240	36	140	0.14
3	28	4485	23	0.90	205	72	120	0.29
4	28	4345	24	0.94	160	106	95	0.43
5	24	4400	15	0.62	245	0	145	0.00
6	24	4245	16	0.70	220	30	130	0.12
7	24	4110	17	0.75	190	60	110	0.24
8	24	3990	18	0.80	150	90	90	0.36
9	16	3230	6.3	0.41	175	0	105	0.00
10	16	3160	6.6	0.43	160	16	95	0.06
11	16	3075	6.9	0.45	140	33	80	0.13
12	16	2995	7.2	0.47	110	50	65	0.20

U = Voltage · n = Speed (rpm) · P<sub>ed</sub> = Power consumption · I = Current draw · q<sub>v</sub> = Air flow · p<sub>fs</sub> = Pressure increase

