EC axial compact fan

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Limited partnership · Headquarters Mulfingen
County court Stuttgart · HRA 590344

General partner: Elektrobau Mulfingen GmbH · Headquarters Mulfingen
County court Stuttgart · HRB 590142

Nominal data

Type	**W2G110-AK43-31**	
Motor	**M2G045-BA**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Type of data definition		fa
Speed	min-1	4400
Power input	W	15
Max. back pressure	Pa	100
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

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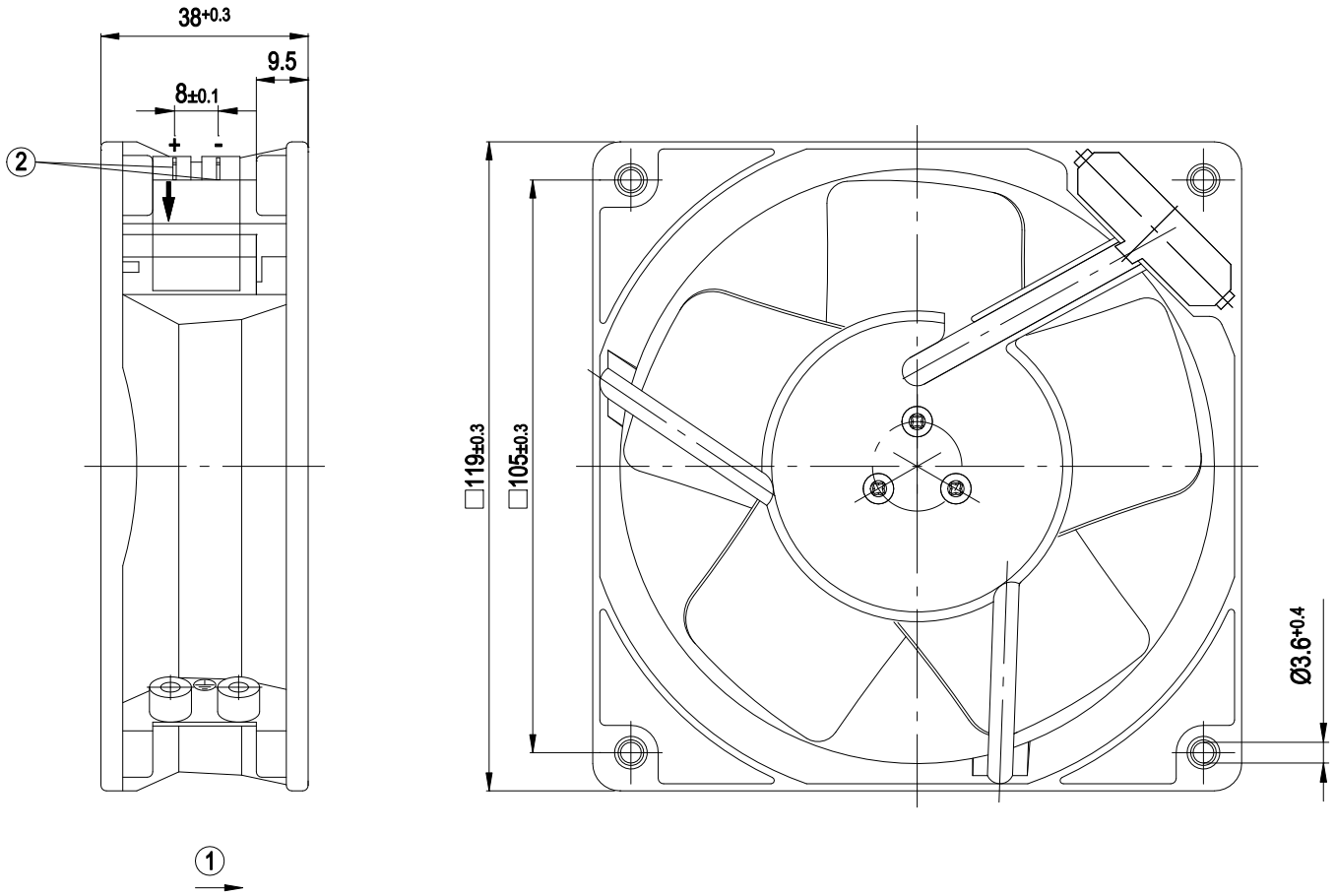
Technical features

Mass	0.49 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
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

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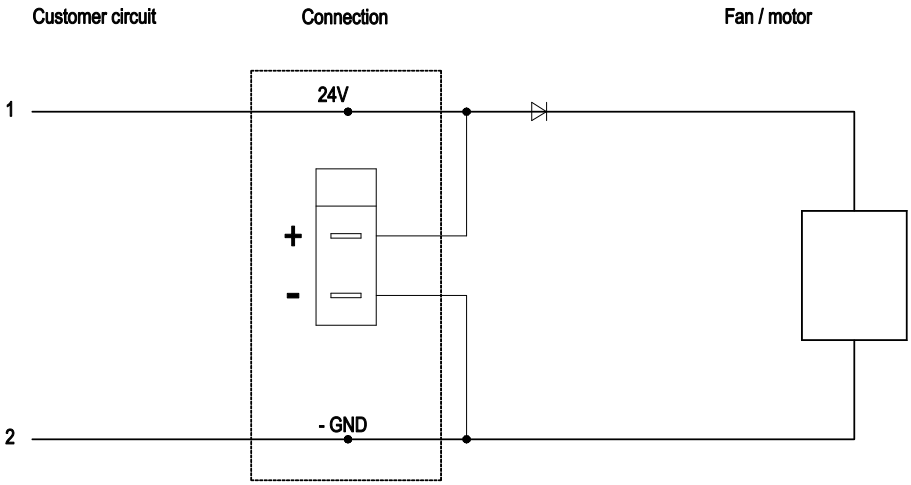
Product drawing



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

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Connection screen

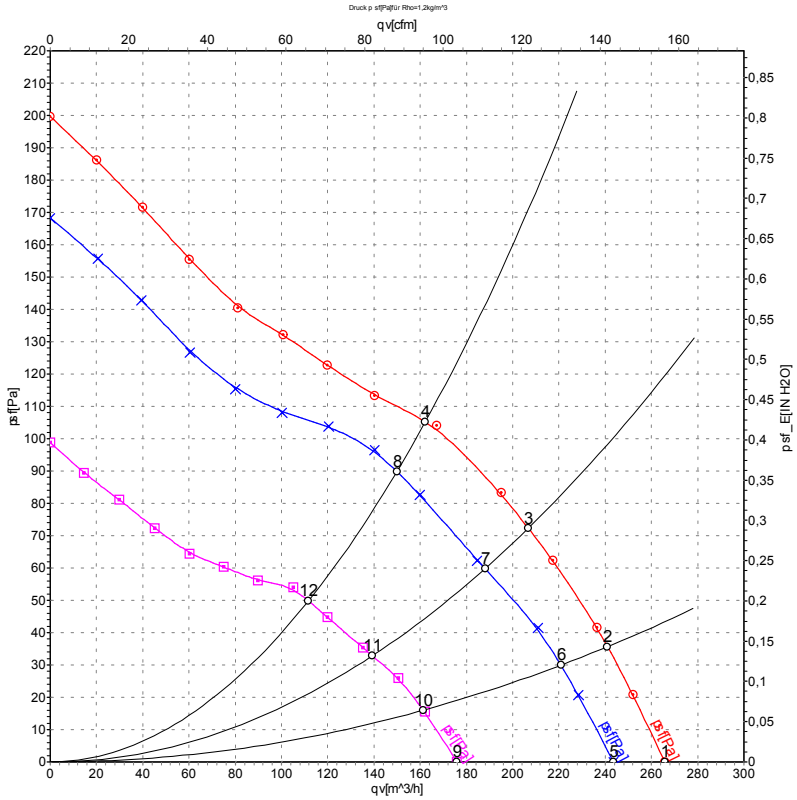


Line	No.	Signal	Colour	Function / assignment
1	1	UN +24V	red	Power supply +24 V/voltage range refer to rating plate, residual ripple ± 3.5%
1	2	GND	blue	Reference mass

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Charts: Air flow



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

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_e	I	qv	p_{sf}
	V	min^{-1}	W	A	m^3/h	Pa
1	28	4755	21	0.83	265	0
2	28	4635	22	0.87	240	36
3	28	4485	23	0.90	205	72
4	28	4345	24	0.94	160	106
5	24	4400	15	0.62	245	0
6	24	4245	16	0.70	220	30
7	24	4110	17	0.75	190	60
8	24	3990	18	0.80	150	90
9	16	3230	6.3	0.41	175	0
10	16	3160	6.6	0.43	160	16
11	16	3075	6.9	0.45	140	33
12	16	2995	7.2	0.47	110	50

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