G1G126-AB13-13

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**G1G126-AB13-13**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	20 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	4100
Power consumption	W	44
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Min. temp. of flow medium	°C	-25
Max. temp. of flow medium	°C	80

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	1.15 kg
Size	126 mm
Motor size	55
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, 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
Cooling hole/opening	On rotor side
Mode	S1
Premixing	Not suitable for premixing.
Motor mounting	Ball bearing
Technical features	- Tach output - Motor current limitation - PWM control input
Motor protection	Reverse polarity and locked-rotor protection
Comment	Complete unit must be tested for required approvals.

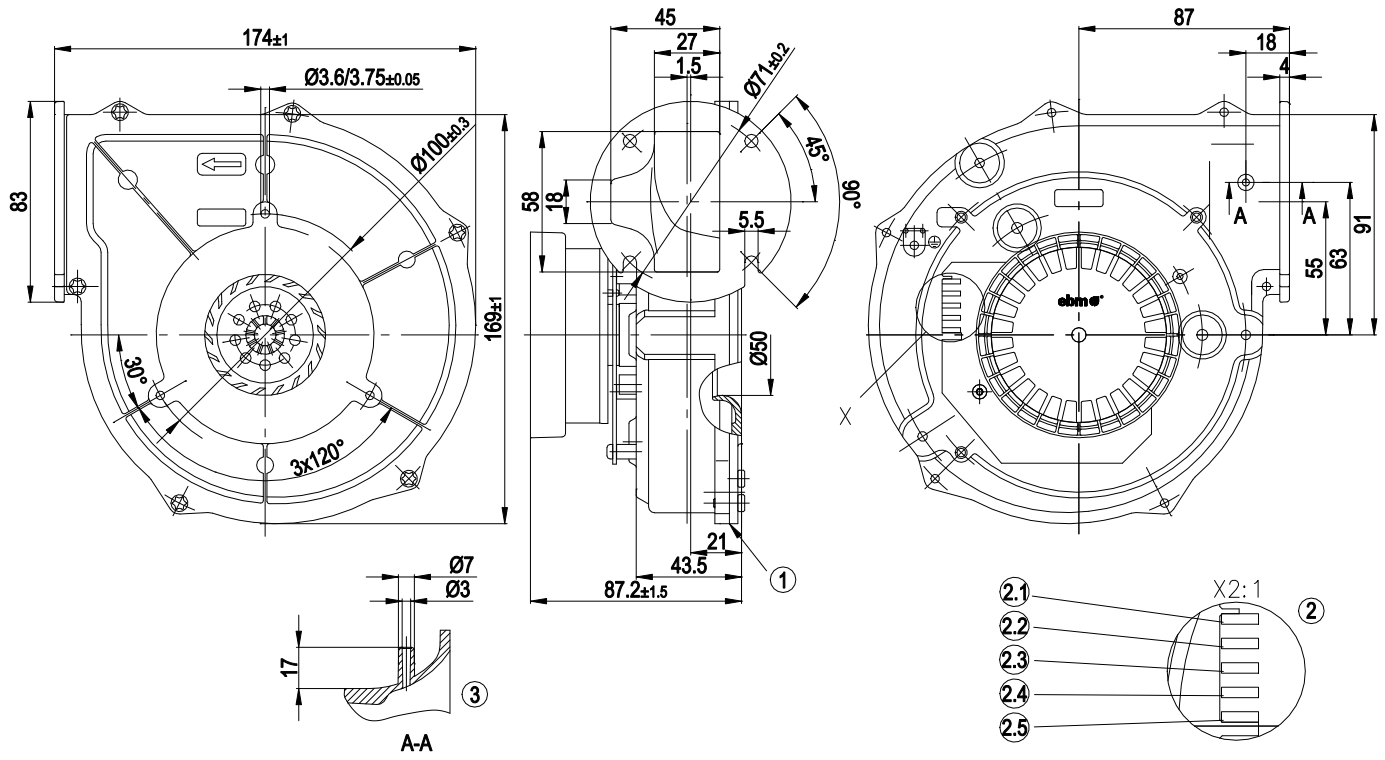
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Product drawing



A-A	View section A-A
X	View X
1	Housing side parts sealed with NBR edge cord (pentane-resistant)
2	Edge connection
2.1	(-)
2.2	PWM input
2.3	free
2.4	Speed monitoring
2.5	(+)
3	Pressure tap sealed (drilled open if required)

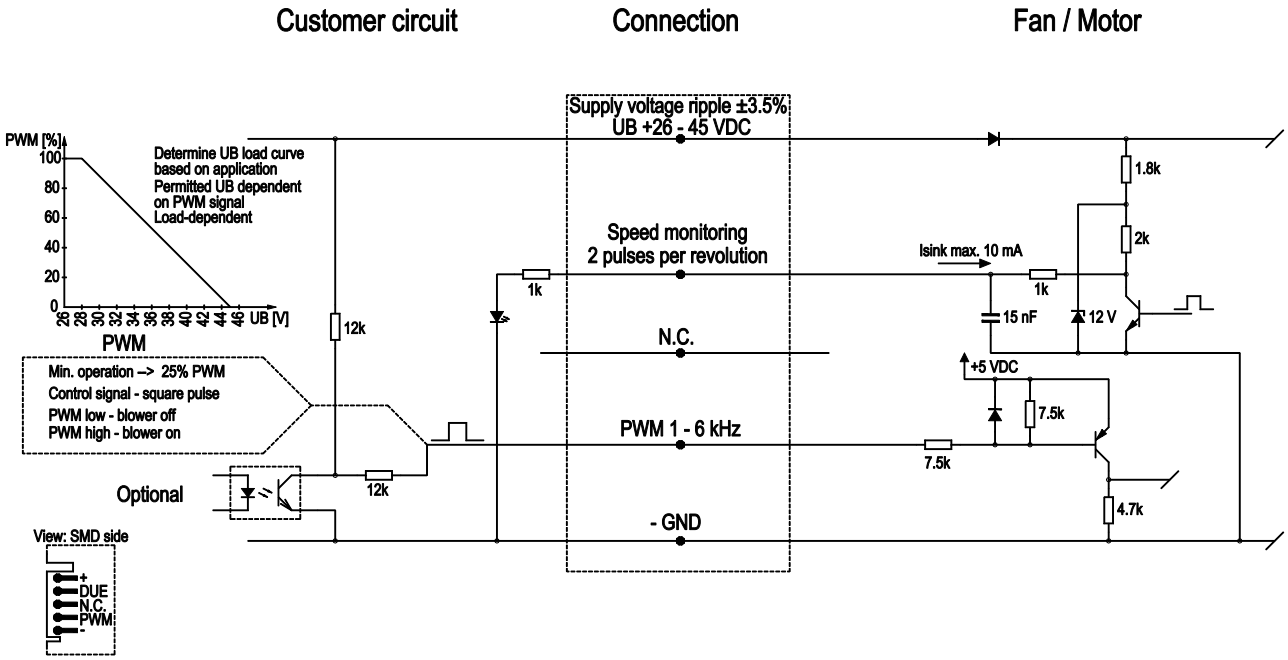
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Connection diagram



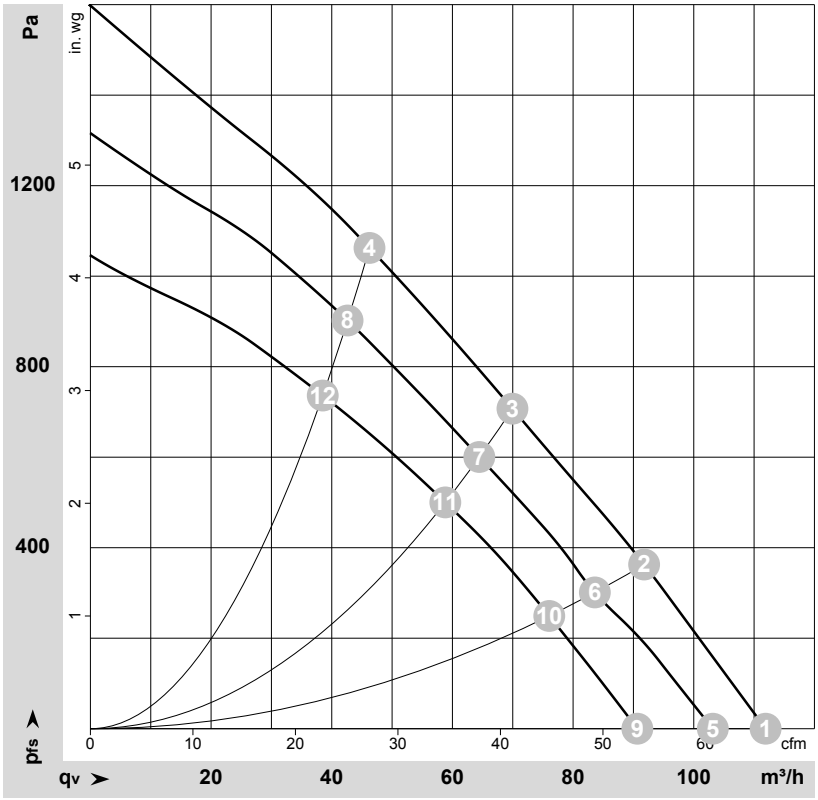
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Curves: Air performance



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-28011-1
Measurement: LU-28004-1
Measurement: LU-28008-1

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	4400	64	2.66	110	0	65	0.00
2	28	4680	55	2.30	90	365	55	1.47
3	28	5040	48	1.97	70	707	40	2.84
4	28	5610	40	1.58	45	1063	25	4.27
5	24	4100	44	2.23	105	0	60	0.00
6	24	4305	41	1.96	85	300	50	1.20
7	24	4640	36	1.67	65	600	40	2.41
8	24	5155	30	1.35	45	900	25	3.61
9	20	3675	32	1.80	90	0	55	0.00
10	20	3925	29	1.60	75	249	45	1.00
11	20	4225	26	1.39	60	501	35	2.01
12	20	4660	22	1.14	40	736	25	2.95

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

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