G1G126-AC13-26

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

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Nominal data

Type	**G1G126-AC13-26**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min-1	4600
Power consumption	W	50
Current draw	A	2
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	1.4 kg
Fan size	126 mm
Rotor surface	Thick-film passivated
Cover material	PP plastic
Impeller material	PA plastic
Housing material	Die-cast aluminum
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP20
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
Cooling hole/opening	On rotor side
Mode	S1
Premixing	Suitable for premixing.
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - PWM control input
Motor protection	Locked-rotor protection
Comment	Complete unit must be tested for required approvals.

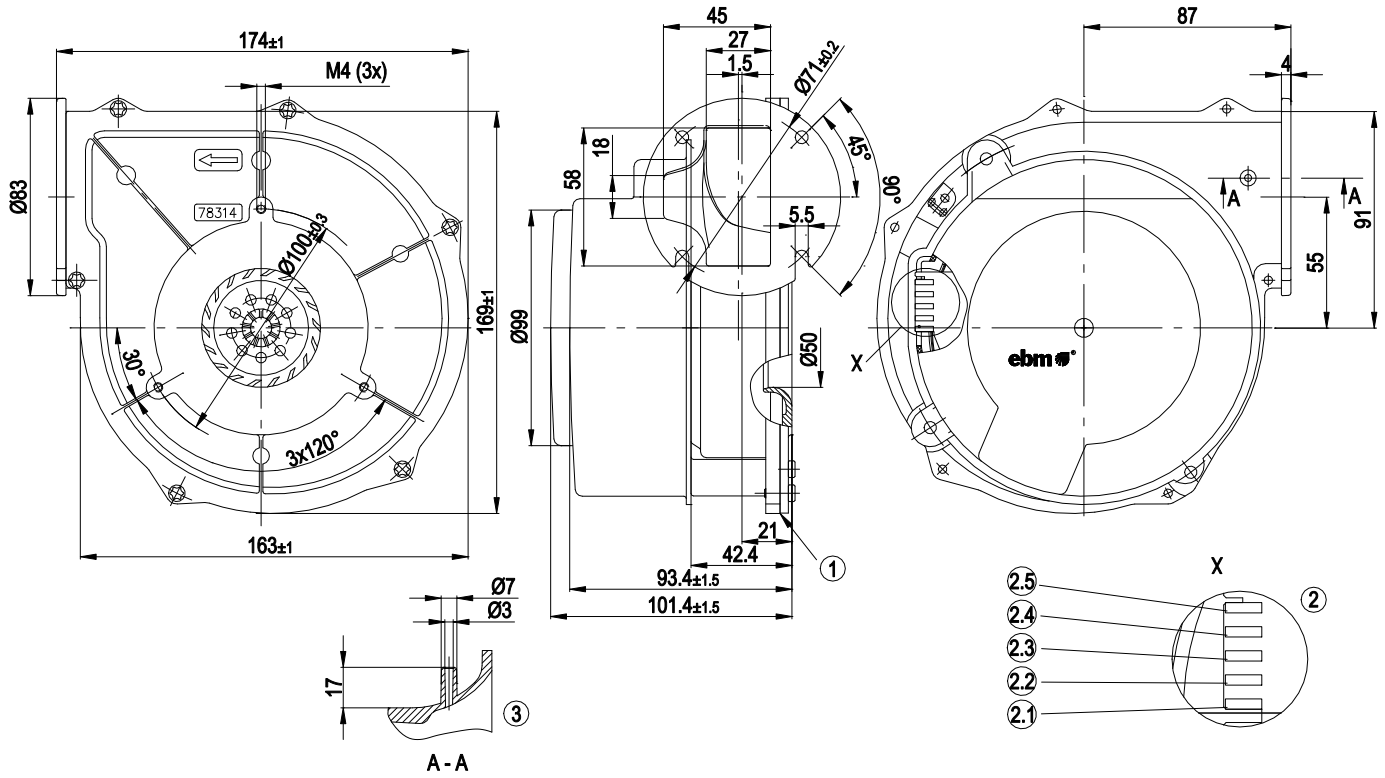
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Product drawing



1	Housing side parts sealed with NBR edge cord (pentane-resistant)
2	Edge connection
2.1	(+)
2.2	Speed monitoring
2.3	not used
2.4	PWM input
2.5	(-)
3	Pressure tap sealed (drilled open if required)

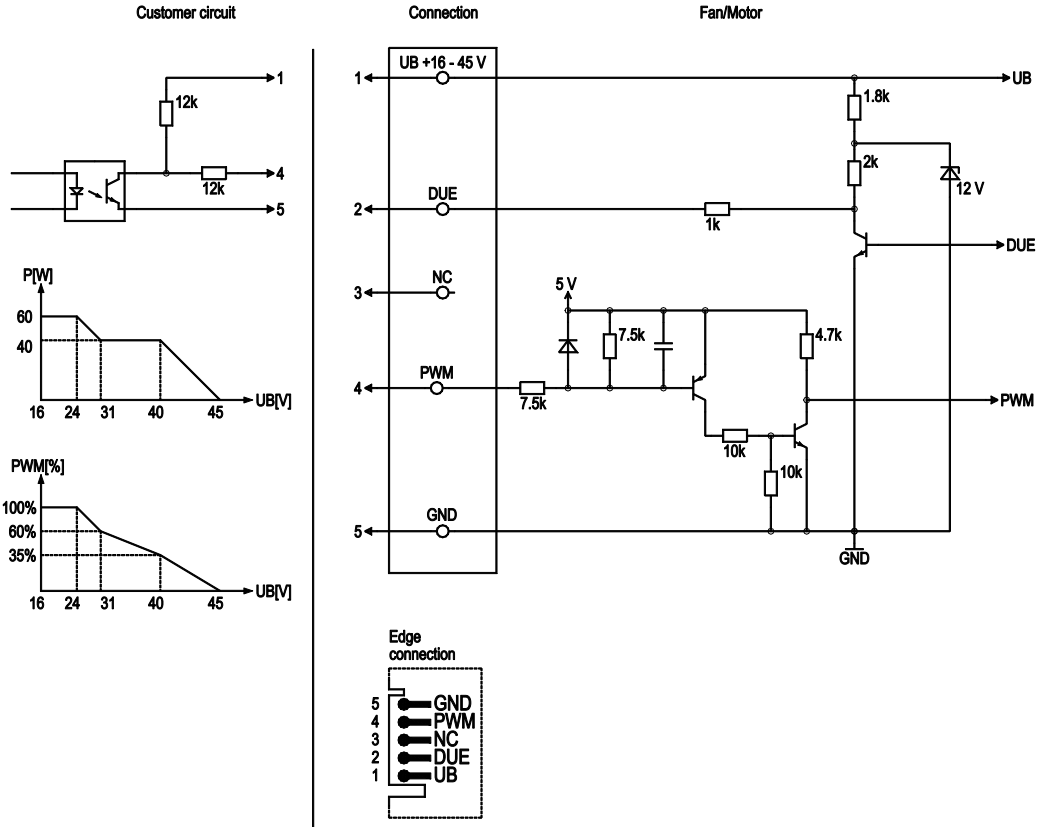
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Connection diagram



No.	Conn.	Designation	Function/assignment
	1	UB	Power supply 16-45 VDC, maximum ripple +/- 3.5%
	2	Tach	Tach output, 2 pulses per revolution for n > 800 rpm, 12 V level, Isink max=4 mA
	3	NC	-
	4	PWM	PWM square-wave signal 2-6 kHz, safe start at >5 % PWM, PWM low - blower off, PWM high - blower on
	5	GND	Reference ground

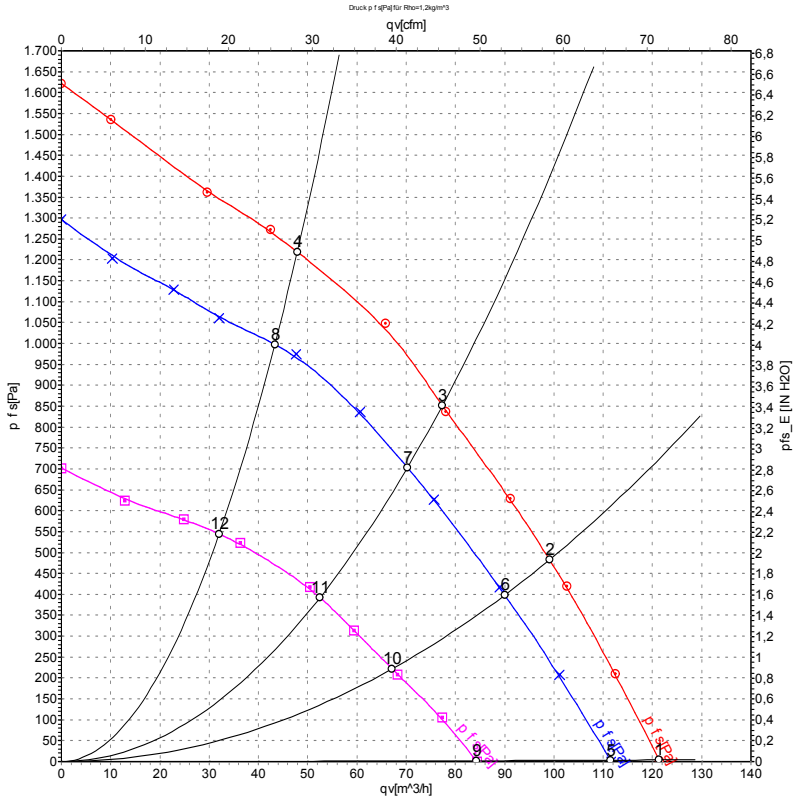
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Curves: Air performance



Measurement: LU-43821-1
Measurement: LU-43820-1
Measurement: LU-43822-1

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	inH2O
1	28	4990	62	2.58	120	0	70	0.00
2	28	5280	57	2.33	100	483	60	1.94
3	28	5570	52	2.09	75	850	45	3.41
4	28	6040	42	1.69	50	1220	30	4.90
5	24	4600	50	2.25	110	0	65	0.00
6	24	4805	44	2.04	90	400	55	1.61
7	24	5050	38	1.80	70	700	40	2.81
8	24	5430	31	1.46	45	1000	25	4.01
9	16	3485	22	1.54	85	0	50	0.00
10	16	3640	20	1.39	65	221	40	0.89
11	16	3795	18	1.25	50	394	30	1.58
12	16	4025	14	1.06	30	545	20	2.19

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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