G1G126-AB11-61

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

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Nominal data

Type	**G1G126-AB11-61**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	22 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	4500
Power consumption	W	56
Current draw	A	2.9
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70

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	1.3 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	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
Mode	S1
Premixing	Suitable for premixing.
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - PWM control input
Motor protection	Reverse polarity and locked-rotor protection
Conformity with standards	EN 60335-1
Comment	Complete unit must be tested for required approvals.

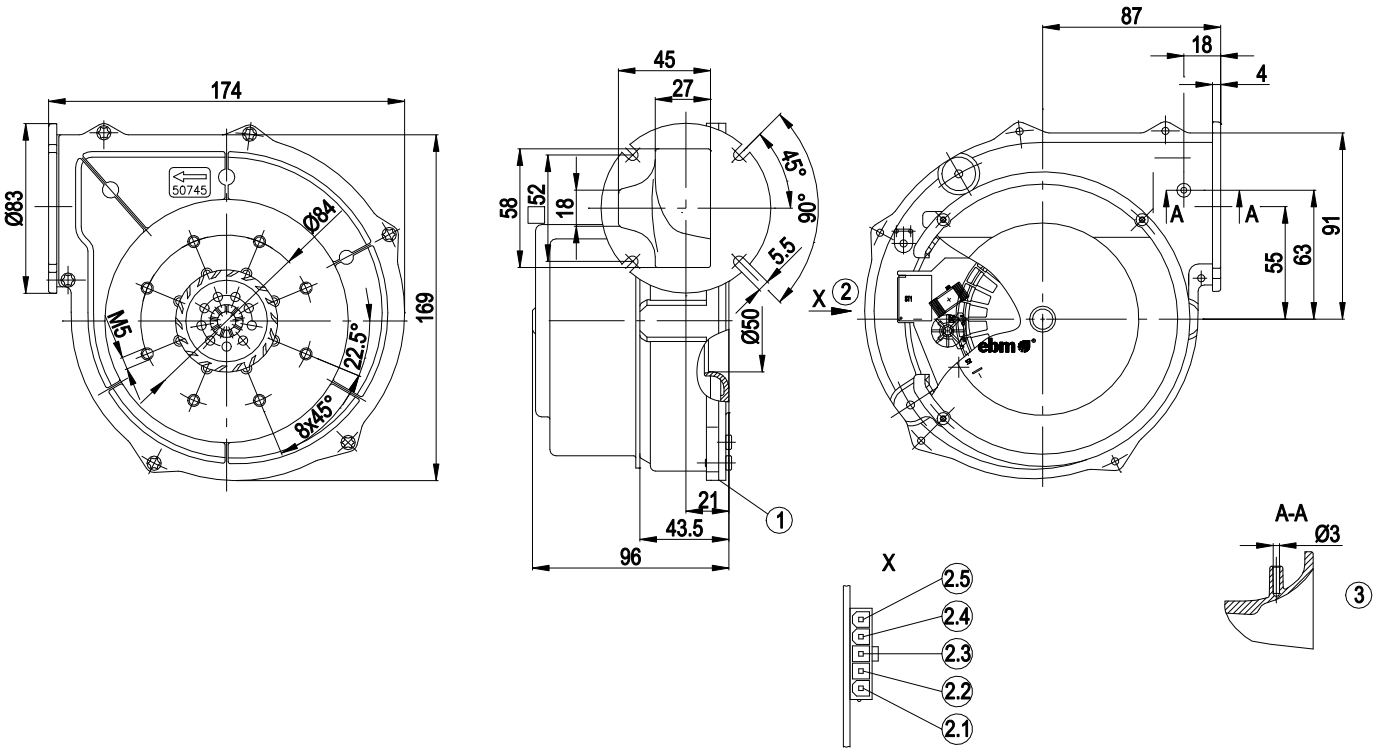
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Product drawing



1	Housing side parts sealed with NBR edge cord (pentane-resistant)
2	5-pole header; mating connector (not included in scope of delivery): Molex no. 39-01-4050; socket: Molex no. 39-00-0059
2.1	(+)
2.2	Speed monitoring
2.3	not used
2.4	PWM input
2.5	(-)
3	Pressure tap sealed (drilled open if required)

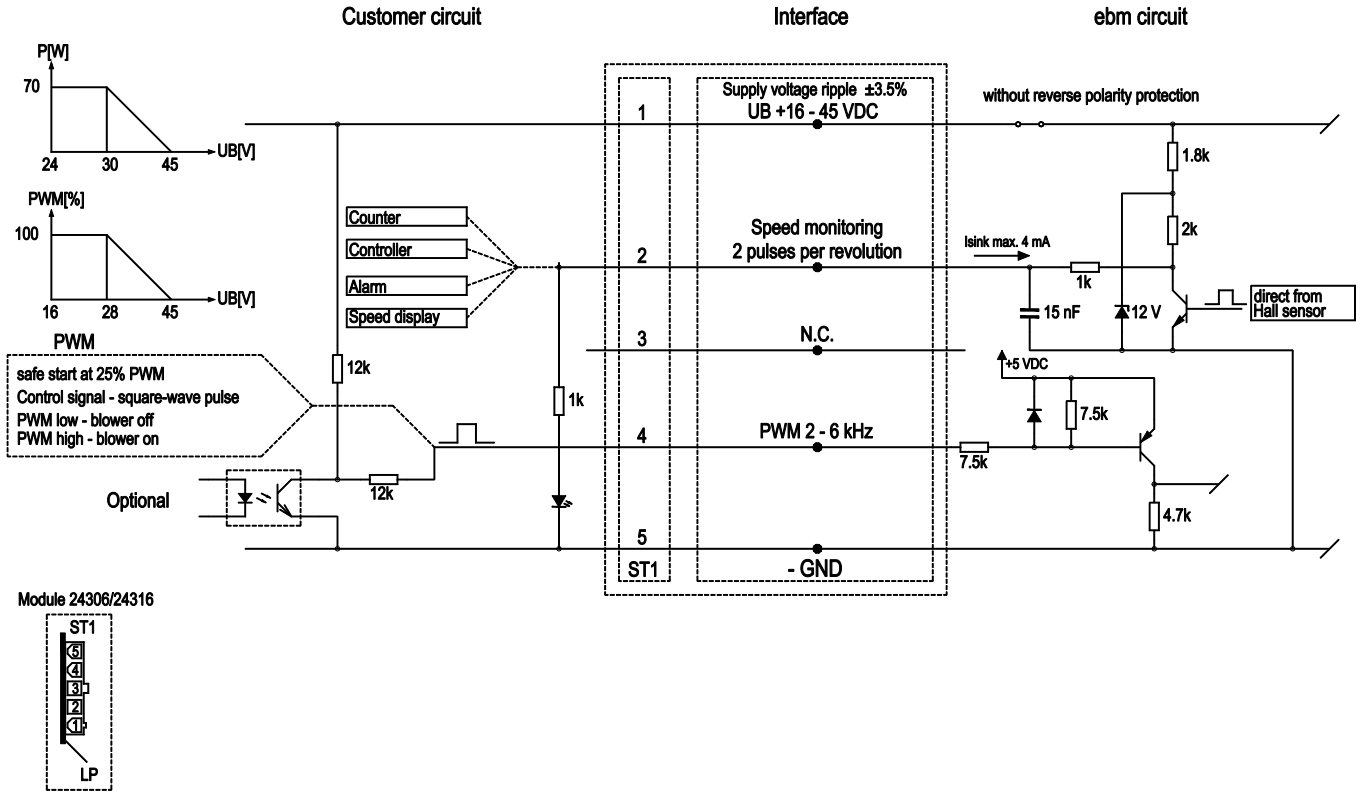
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Connection diagram



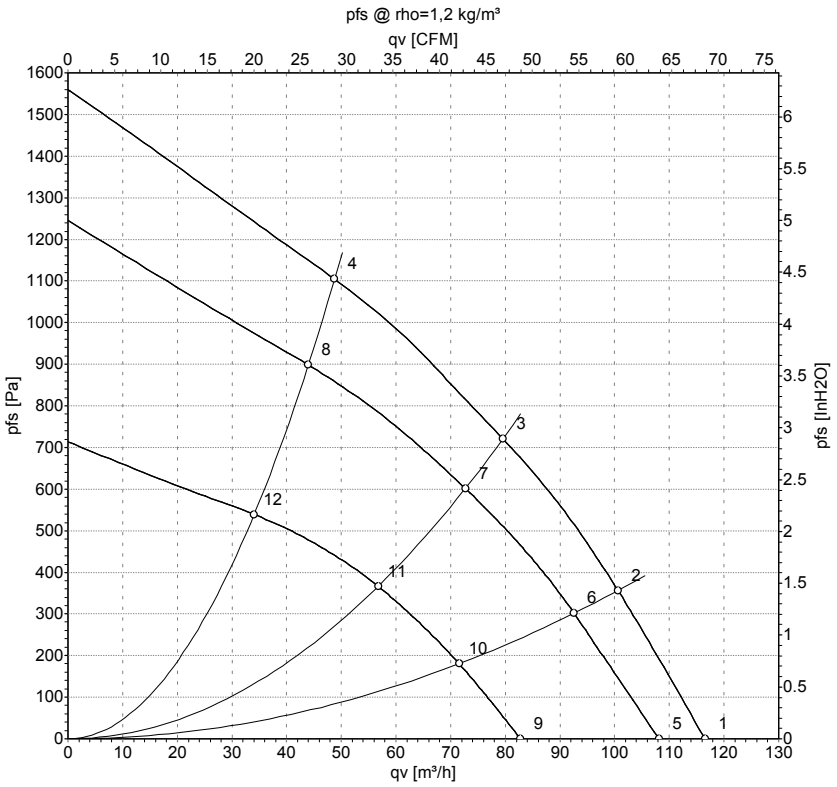
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Curves: Air performance



Measurement: LU-34997-1
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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	4890	75	3.48	115	0	70	0.00
2	28	5050	71	3.25	100	358	60	1.44
3	28	5305	64	2.91	80	720	45	2.89
4	28	5760	53	2.37	50	1105	30	4.44
5	24	4500	56	2.90	110	0	65	0.00
6	24	4660	52	2.66	95	300	55	1.20
7	24	4845	47	2.37	75	600	45	2.41
8	24	5200	39	1.96	45	900	25	3.61
9	16	3555	26	1.88	85	0	50	0.00
10	16	3645	24	1.76	70	181	40	0.73
11	16	3790	22	1.58	55	367	35	1.47
12	16	4030	18	1.28	35	540	20	2.17

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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