EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

Nominal data

Type	**G1G126-AB13-53**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	20 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3950
Power consumption	W	45
Current draw	A	2.2
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	1.2 kg
Fan size	126 mm
Rotor surface	Thick-film passivated
Impeller material	PA plastic
Housing material	Die-cast aluminum
Number of blades	18
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP00
Insulation class	"B"
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	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
Comment	Complete unit must be tested for required approvals.

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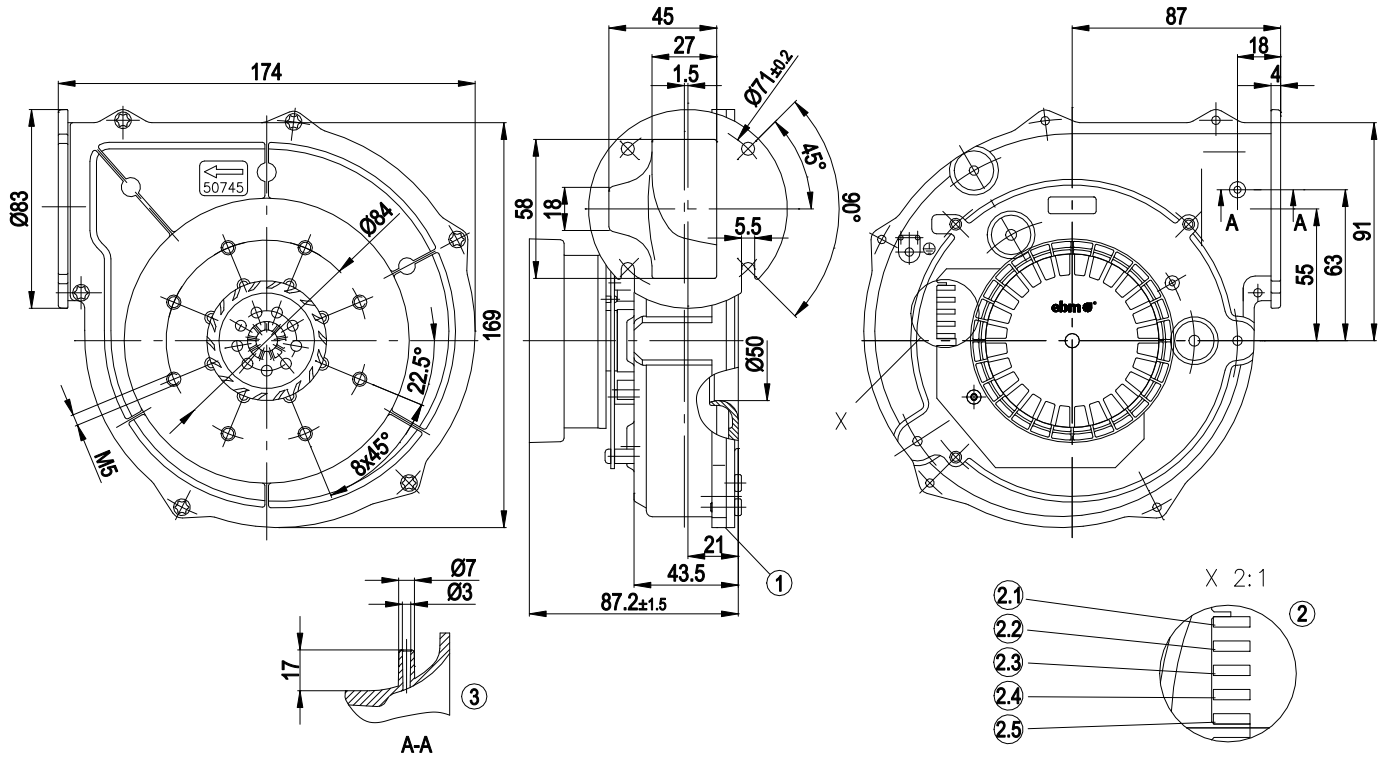
Product drawing



1	Housing side parts sealed with NBR O-ring (pentane-resistant)
2	Edge connection
2.1	UB +24 VDC
2.2	Speed monitoring
2.3	not used
2.4	PWM
2.5	GND
3	Pressure tap sealed (drilled open if required)

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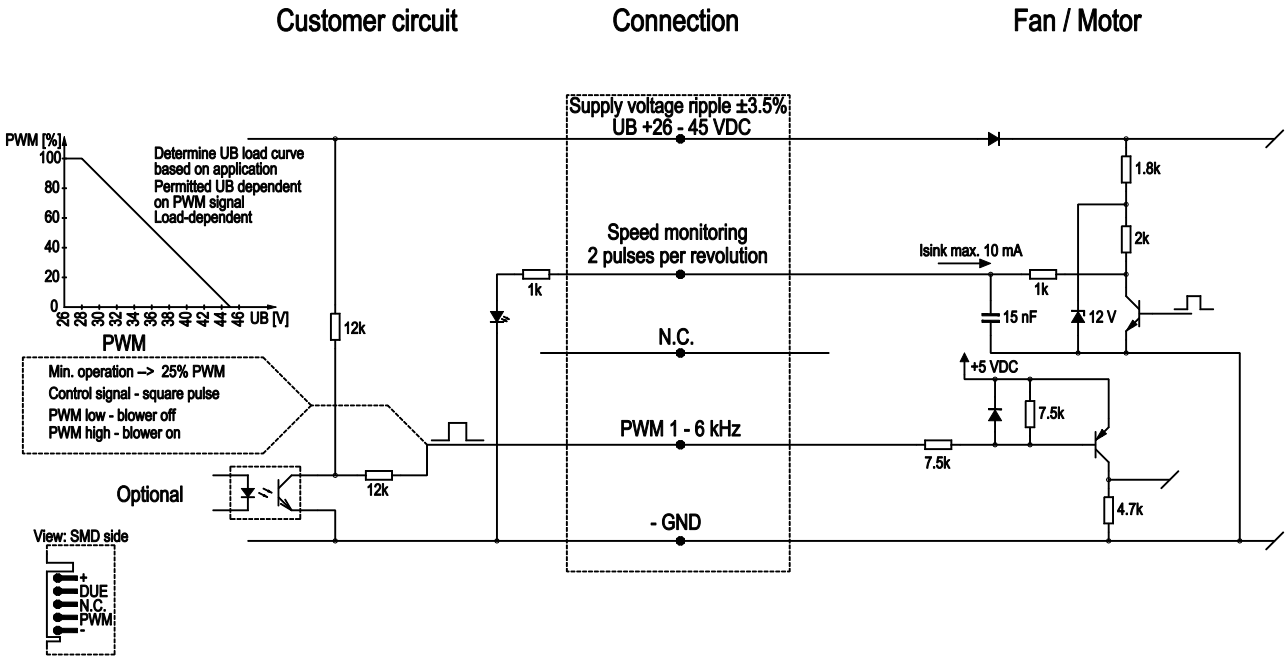
Connection diagram



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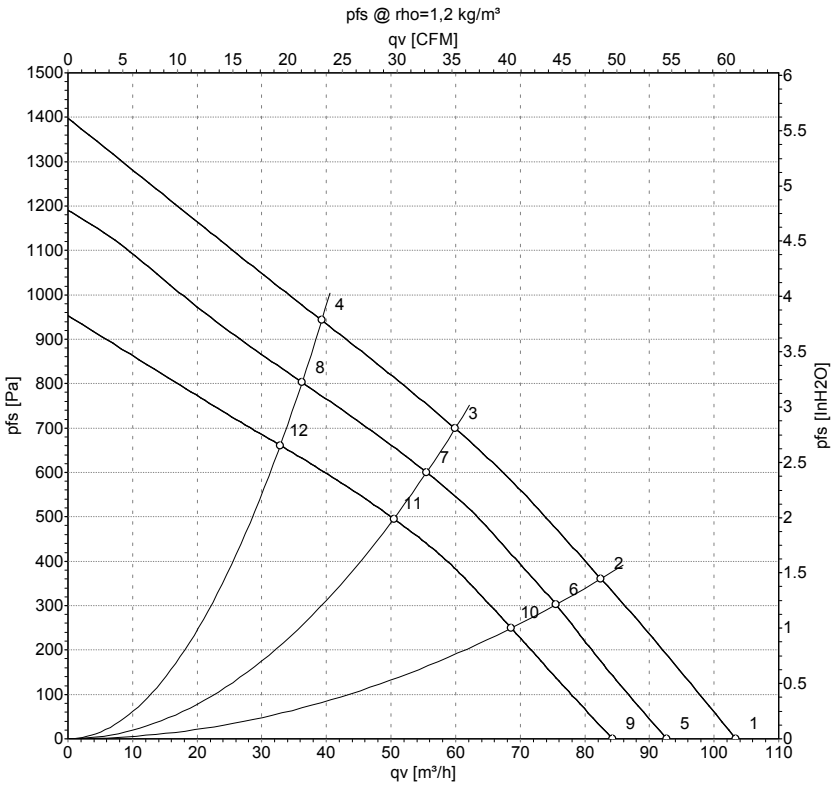
Curves: Air performance



Measurement: LU-29309-1
Measurement: LU-29308-1
Measurement: LU-29310-1

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	qv	p_{fs}	qv	p_{fs}
	V	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	28	4290	61	2.57	105	0	60	0.00
2	28	4515	55	2.34	80	361	50	1.45
3	28	4820	48	2.02	60	700	35	2.81
4	28	5190	41	1.71	40	943	25	3.79
5	24	3950	45	2.20	95	0	55	0.00
6	24	4140	40	1.96	75	300	45	1.20
7	24	4440	35	1.69	55	600	35	2.41
8	24	4785	31	1.44	35	800	20	3.21
9	20	3575	31	1.76	85	0	50	0.00
10	20	3760	28	1.59	70	249	40	1.00
11	20	4040	25	1.38	50	496	30	1.99
12	20	4335	22	1.19	35	661	20	2.65

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