G1G126-AB21-52

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers



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Nominal data

Type	**G1G126-AB21-52**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	39
Nominal voltage range	VDC	26 .. 50
Method of obtaining data		fa
Speed (rpm)	min^{-1}	3450
Power consumption	W	30
Current draw	A	0.75
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"
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 bearing	Ball bearing
Technical features	- Output 10 VDC, max. 1.1 mA - Motor current limitation - Soft start - PWM control input - Thermal overload protection for electronics - Line undervoltage / phase failure detection
Motor protection	Reverse polarity and locked-rotor protection
With cable	Variable
Conformity with standards	EN 60335-1
Comment	Complete unit must be tested for required approvals.

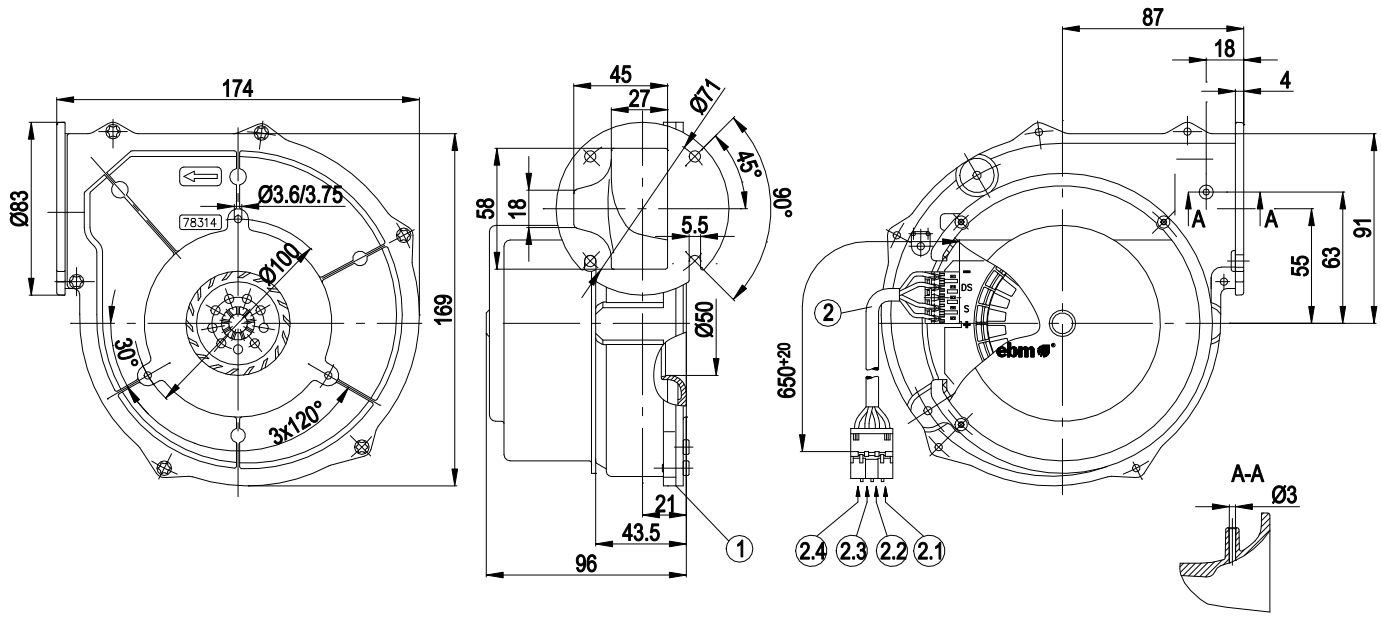
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Product drawing



1	Housing side parts sealed with NBR edge cord (pentane-resistant)
2	Cable PVC AWG20, with connector housing AMP 927158-1 and 4x receptacle AMP 926770-1 crimped
2.1	- (blue)
2.2	Speed monitoring (white)
2.3	PWM input (black)
2.4	+ (red)

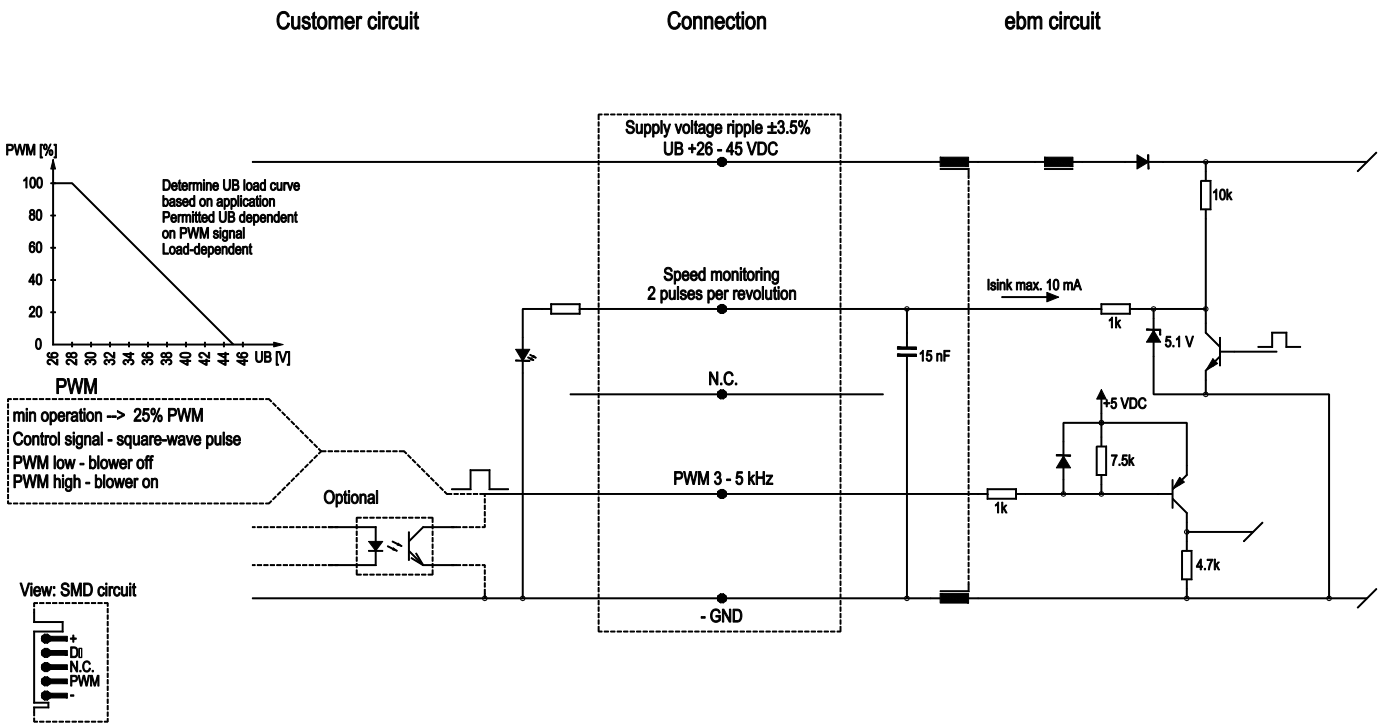
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Connection diagram



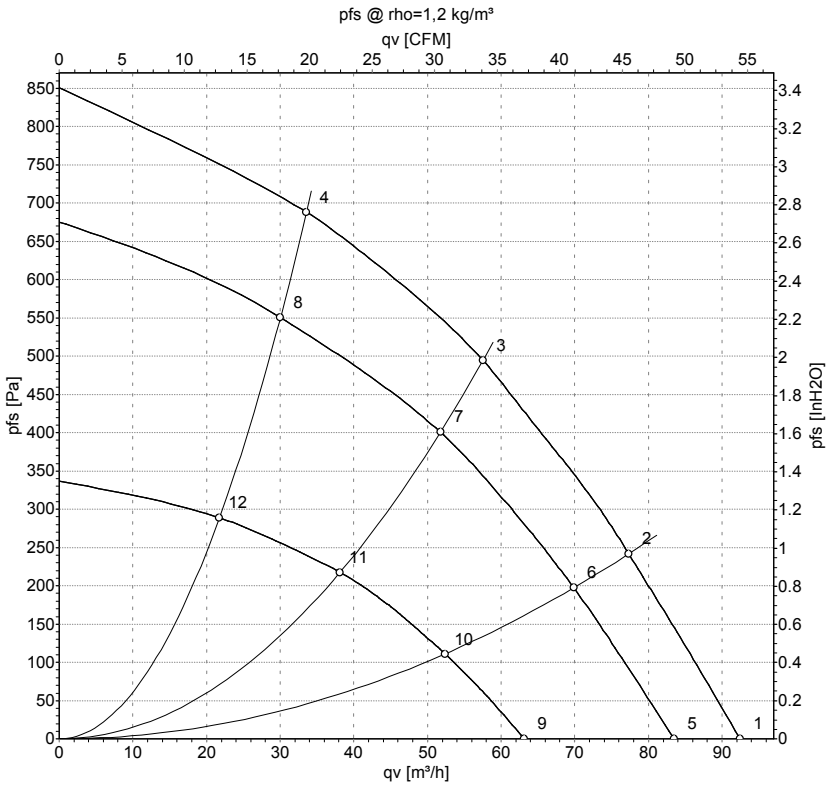
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Curves: Air performance



Measurement: LU-33729-1
Measurement: LU-33728-1
Measurement: LU-33730-1

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	45	3840	32	0.83	90	0	55	0.00
2	45	3995	29	0.75	75	242	45	0.97
3	45	4225	25	0.65	60	497	35	2.00
4	45	4515	21	0.53	35	690	20	2.77
5	39	3450	30	0.75	85	0	50	0.00
6	39	3620	22	0.65	70	200	40	0.80
7	39	3815	19	0.56	50	400	30	1.61
8	39	4055	16	0.46	30	550	20	2.21
9	26	2625	11	0.48	65	0	35	0.00
10	26	2710	10.0	0.43	50	111	30	0.45
11	26	2810	9.0	0.38	40	218	20	0.88
12	26	2935	7.0	0.33	20	289	15	1.16

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

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