G1G126-AB13-22

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers

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Nominal data

Type	**G1G126-AB13-22**	
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	2.22
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
Cooling hole/opening	On rotor side
Mode	S1
Premixing	Not suitable for premixing.
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - PWM control input
Electrical hookup	With plug
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.

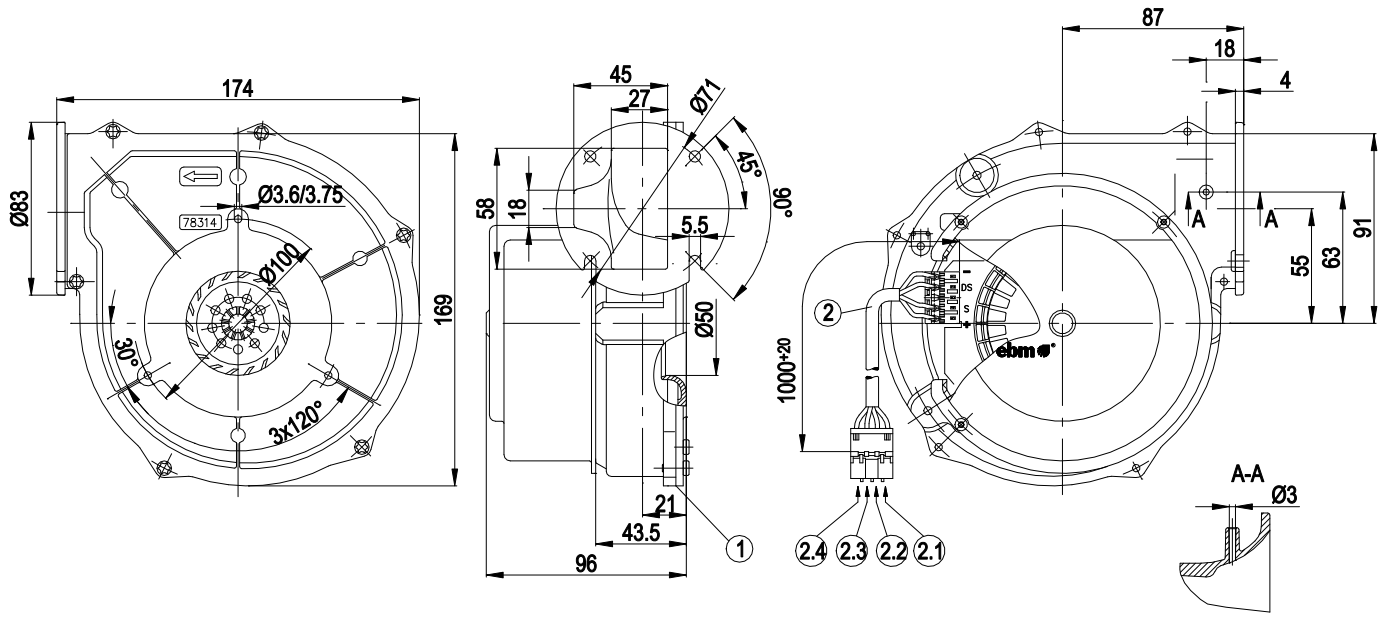
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Product drawing



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)

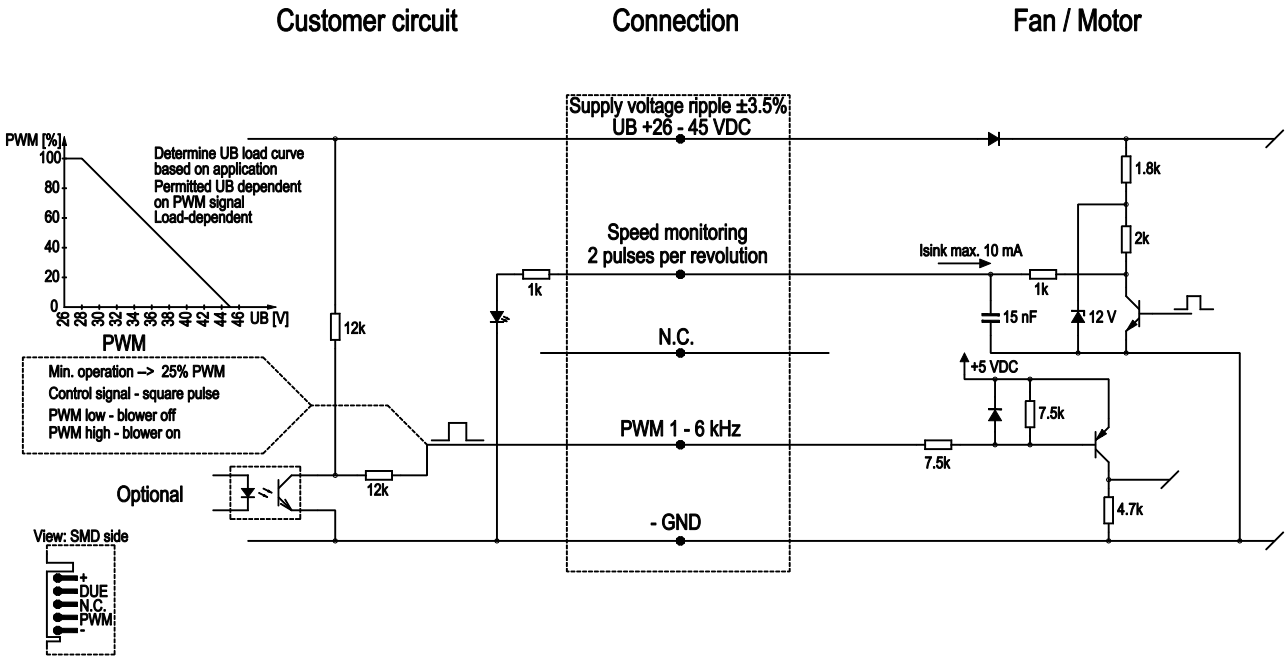
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Connection diagram



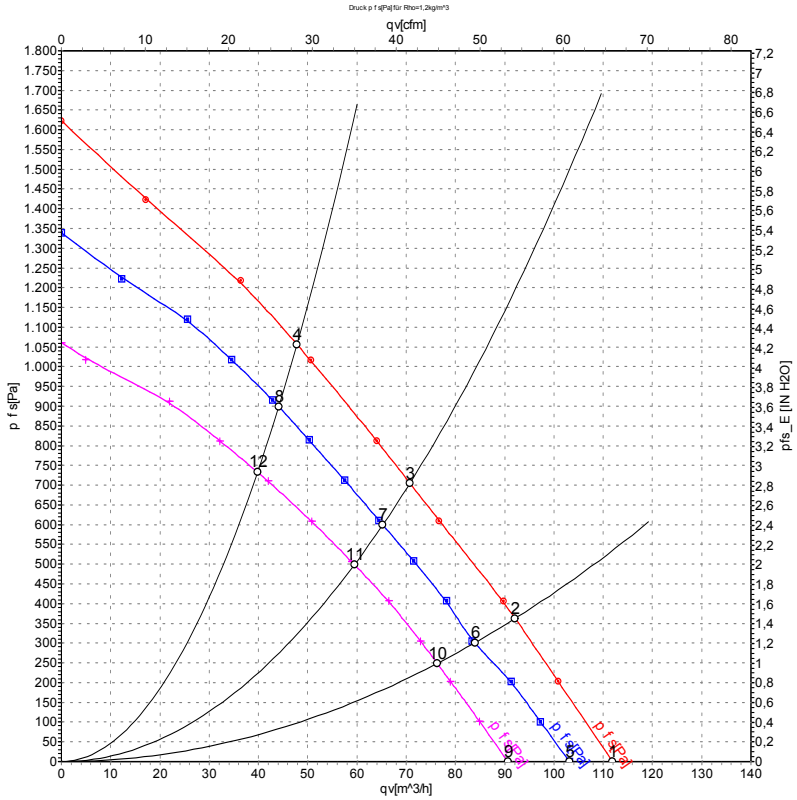
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Curves: Air performance



Measurement: LU-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	inH2O
1	28	4400	64	2.66	110	0	65	0.00
2	28	4675	56	2.31	90	364	55	1.46
3	28	5025	48	1.99	70	705	40	2.83
4	28	5565	40	1.61	50	1057	30	4.24
5	24	4100	44	2.23	105	0	60	0.00
6	24	4300	41	1.96	85	300	50	1.20
7	24	4625	36	1.68	65	600	40	2.41
8	24	5115	30	1.37	45	900	25	3.61
9	20	3675	32	1.80	90	0	55	0.00
10	20	3920	29	1.60	75	249	45	1.00
11	20	4215	26	1.40	60	499	35	2.00
12	20	4625	22	1.16	40	733	25	2.94

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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