G1G126-AC13-50

EC centrifugal fan

forward-curved, single-intake

with housing (flange), Gas blower for condensing boilers



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Nominal data

Type	**G1G126-AC13-50**	
Motor	**M1G055-AI**	
Nominal voltage	VDC	24
Nominal voltage range	VDC	16 .. 28
Method of obtaining data		fa
Speed (rpm)	min^{-1}	4450
Power consumption	W	50
Current draw	A	2.35
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"
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	Not suitable for premixing.
Motor bearing	Ball bearing
Technical features	- Tach output - Motor current limitation - PWM control input
Motor protection	Locked-rotor protection
Approval	EAC
Comment	Complete unit must be tested for required approvals.

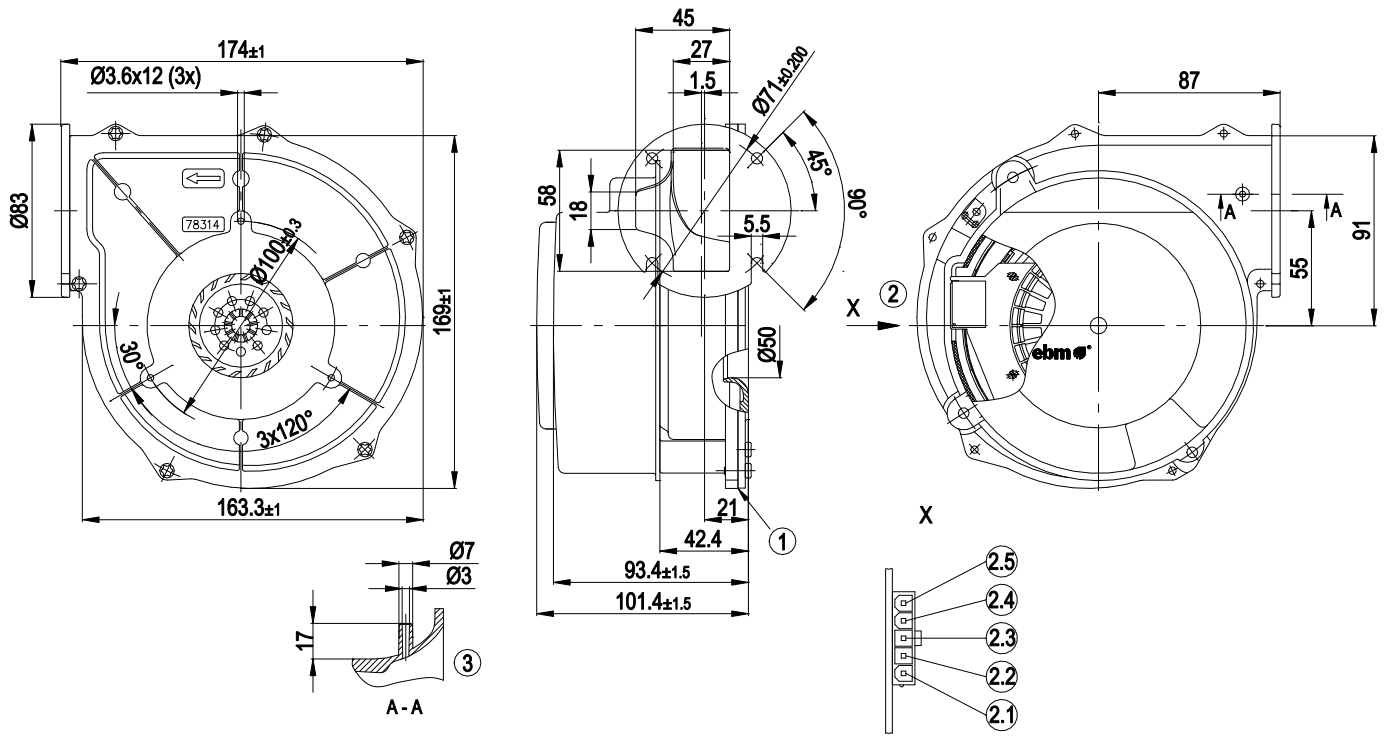
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Product drawing



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)

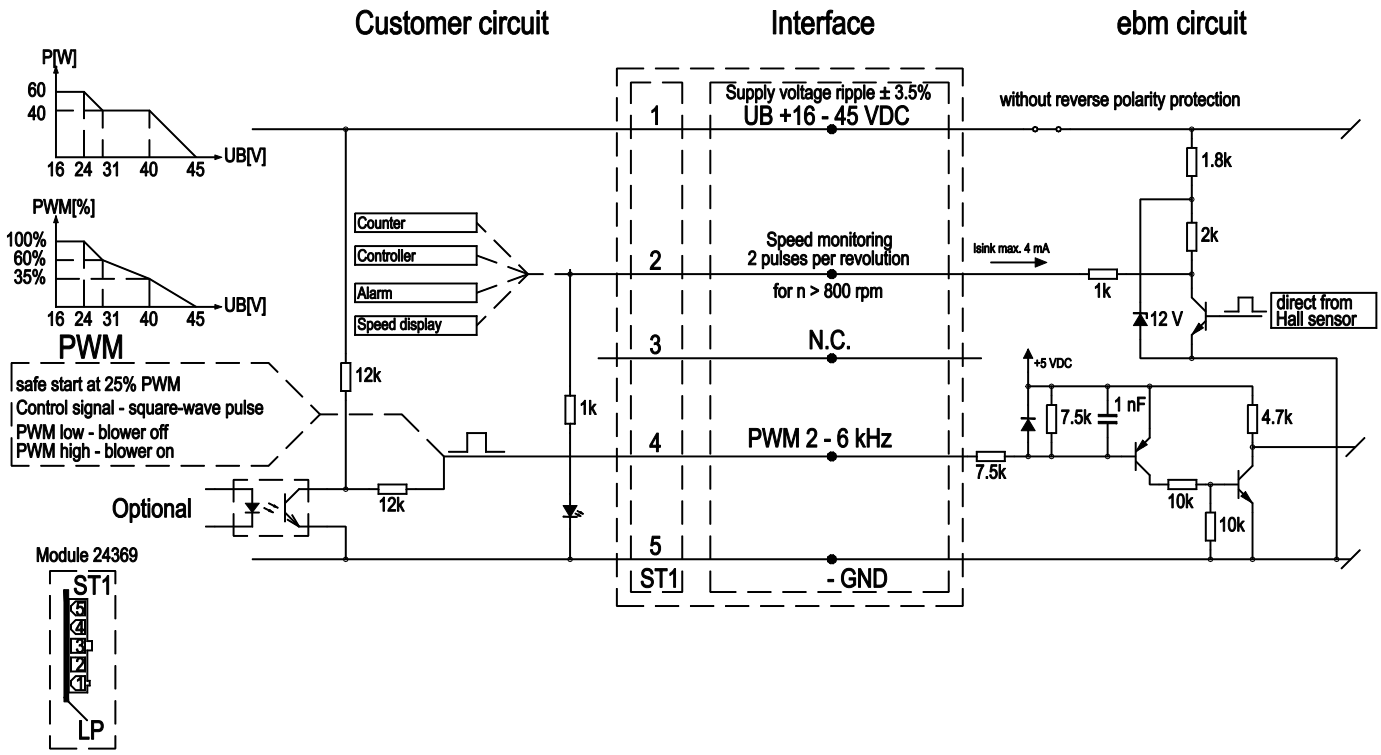
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Connection diagram



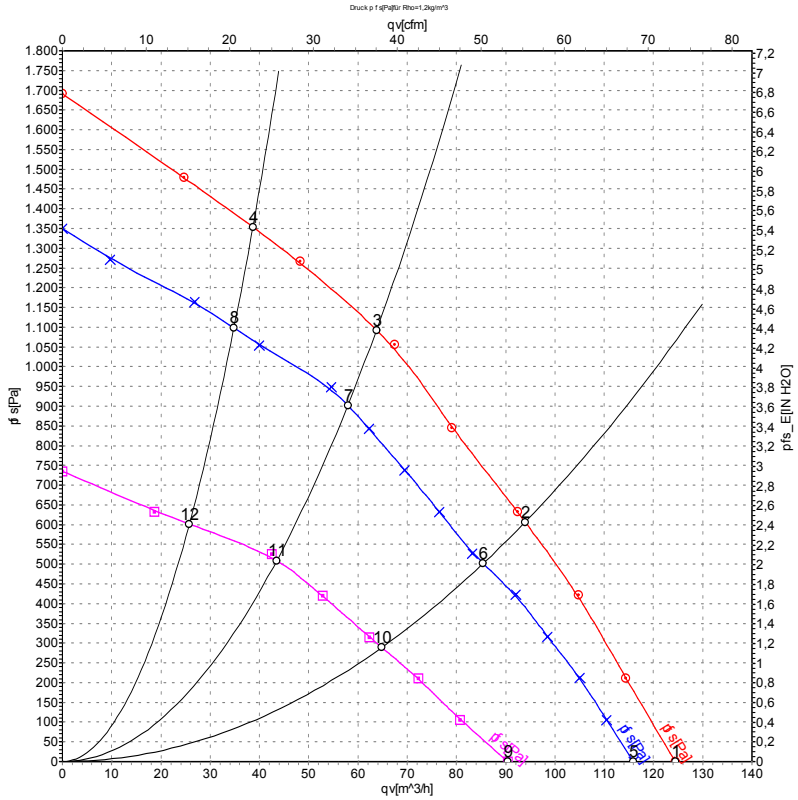
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Curves: Air performance



Measurement: LU-54513-1
Measurement: LU-54512-1
Measurement: LU-54514-1

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	4810	62	2.62	125	0	75	0.00
2	28	5290	56	2.29	95	608	55	2.44
3	28	5820	49	1.96	65	1097	40	4.40
4	28	6280	40	1.62	40	1354	25	5.44
5	24	4450	50	2.35	115	0	70	0.00
6	24	4850	43	2.02	85	500	50	2.01
7	24	5255	36	1.69	60	900	35	3.61
8	24	5645	30	1.39	35	1100	20	4.42
9	16	3475	23	1.63	90	0	55	0.00
10	16	3710	20	1.40	65	289	40	1.16
11	16	3965	17	1.19	45	516	25	2.07
12	16	4200	14	1.01	25	601	15	2.41

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

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