G1G126-AA49-52

EC centrifugal fan

forward-curved, single-intake

with housing (flange)

G1G126-AA49-52 ebmpapst Datasheet
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Nominal data

Type	**G1G126-AA49-52**
Motor	**M1G055-BD**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Method of obtaining data		fa
Speed (rpm)	min^{-1}	5000
Power consumption	W	75
Current draw	A	0.5
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
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	1.4 kg
Size	126 mm
Motor size	55
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"
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
Mode	S1
Premixing	Not suitable for premixing.
Motor bearing	Ball bearing
Technical features	- Tach output - Soft start - PWM control input - Control interface with SELV potential safely disconnected from the mains
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 0.25 mA
Motor protection	Reverse polarity and locked-rotor protection
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; CE
Approval	EAC
Comment	Complete unit must be tested for required approvals.

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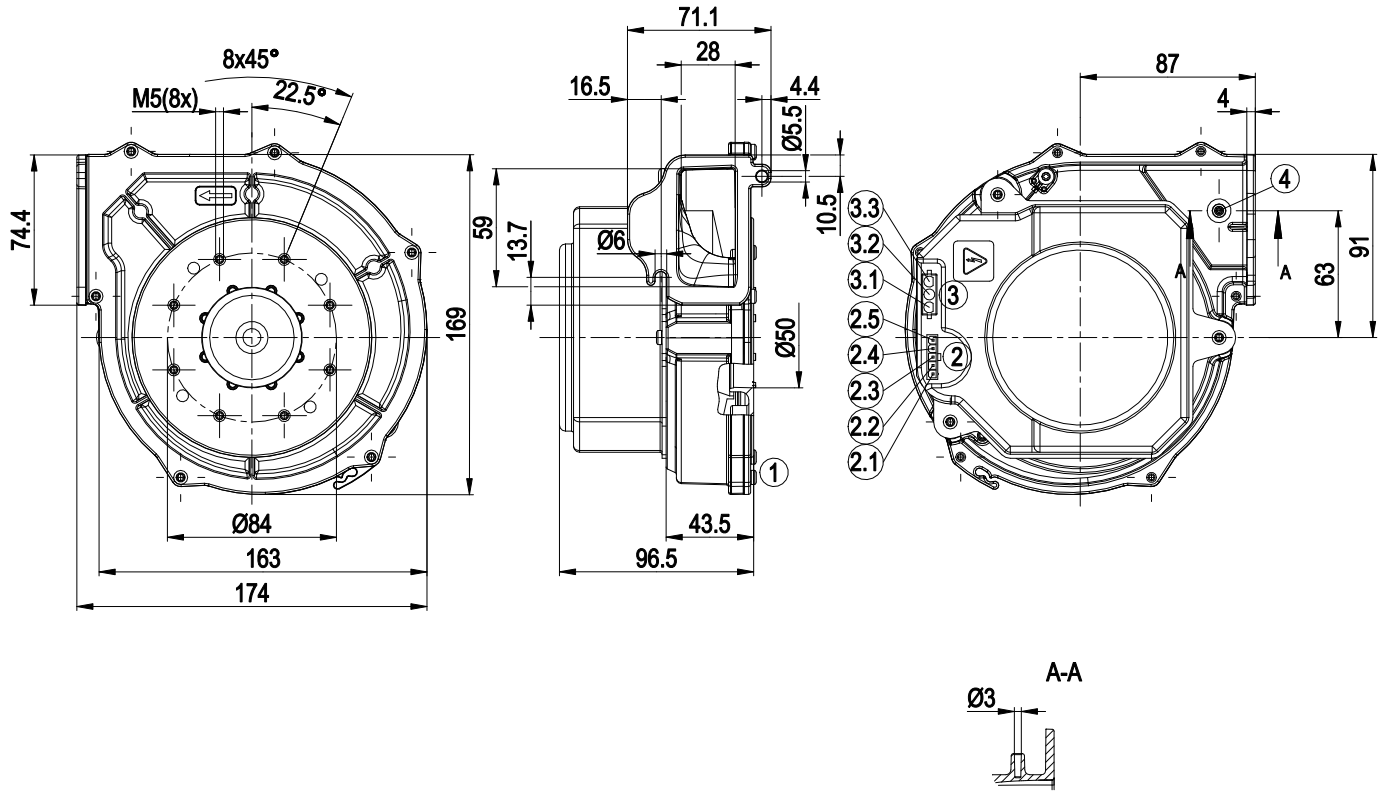
Product drawing



1	Housing side parts sealed with NBR round cord (pentane-resistant)
2	5-pole header Molex 39-30-2050
2.1	+
2.2	Speed monitoring
2.3	not used
2.4	PWM input
2.5	-
3	3-pole header Lonco Universal Mate-N-Lok C63502-3A
3.1	L
3.2	N
3.3	PE
4	Pressure tap possible

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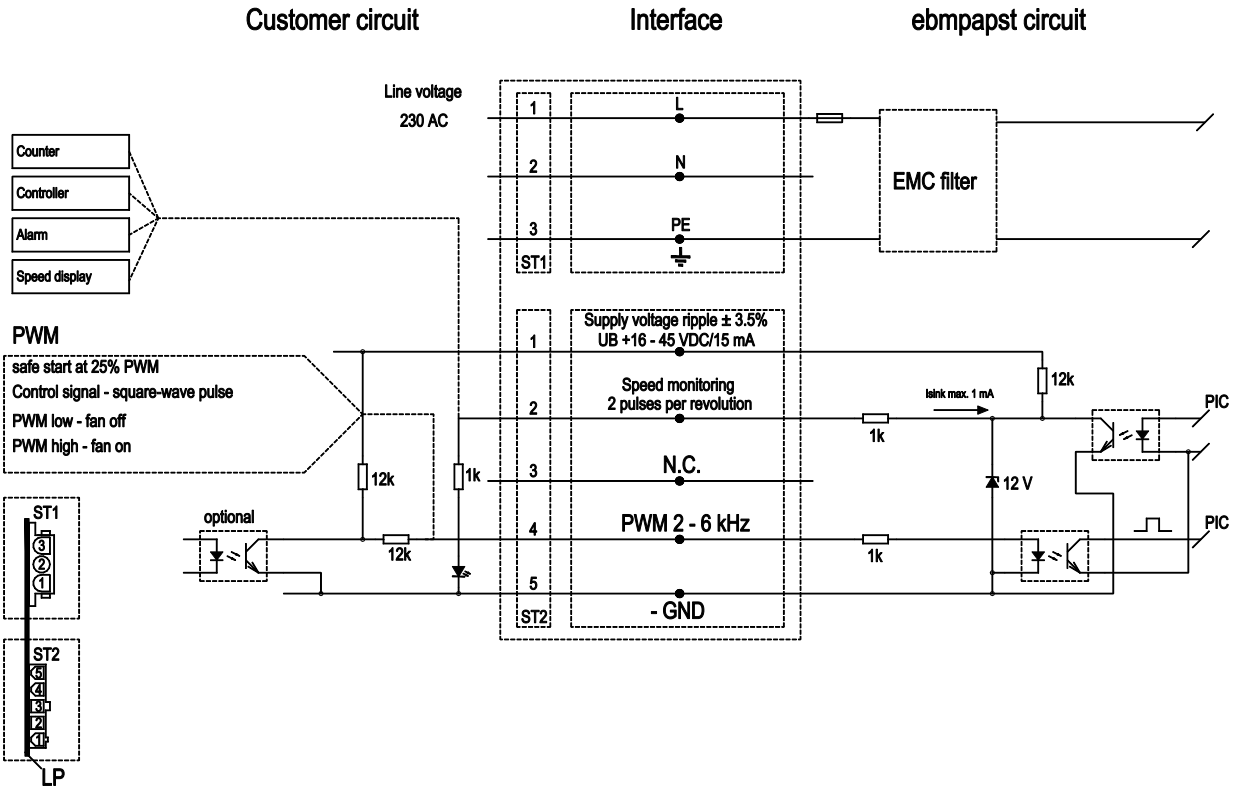
Connection diagram



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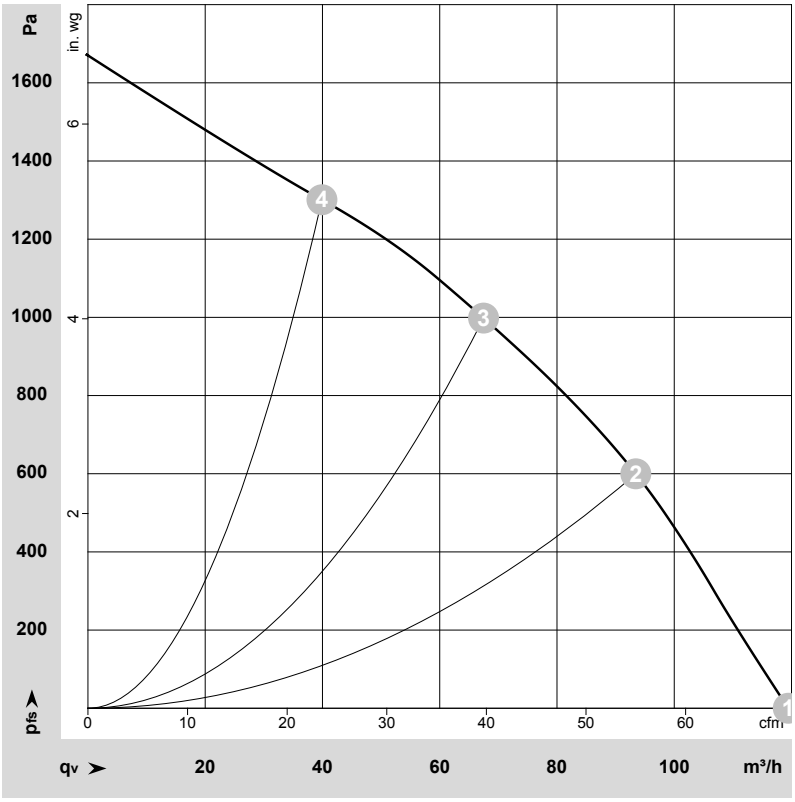
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-37520-1

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	f	n	P_{ed}	I	η_{esd}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	%	m^3/h	Pa	cfm	in. wg
1	230	50	5000	75	0.50	18	120	0	70	0.00
2	230	50	5385	70	0.50	32	95	600	55	2.41
3	230	50	5745	62	0.45	34	65	1000	40	4.01
4	230	50	6200	55	0.39	26	40	1300	25	5.22

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · η_{esd} = Total efficiency of fan · q_V = Air flow · p_{fs} = Pressure increase