EC axial compact fan

Nominal data

Type	**W1G130-AA49-18**
Motor	**M1G055-AI**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	ml
Speed (rpm)	min^{-1}	3200	2800
Power consumption	W	24	15
Current draw	A	0.38	0.24
Max. back pressure	Pa	90	
Max. back pressure	in. wg	0.36	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	60	60

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

W1G130-AA49-18 ebmpapst Datasheet FansCo sales@fansco.com www.fansco.com

Technical description

Weight	0.7 kg
Size	130 mm
Motor size	55
Rotor surface	Cast in PA plastic
Blade material	PA plastic
Fan housing material	Plastic, PP
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55; only with suitable plug, to be installed by customer
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
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
Mode	S1
Motor bearing	Ball bearing
Technical features	- Speed selection max./min. - Soft start - Thermal overload protection for motor
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC interference emission	According to EN 61000-6-3 (household environment)
Electrical hookup	Plug
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60034-1; EN 60204-1; EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	VDE; CSA C22.2 No. 77 + CAN/CSA-E60730-1; EAC; UL 1004-3 + 60730-1

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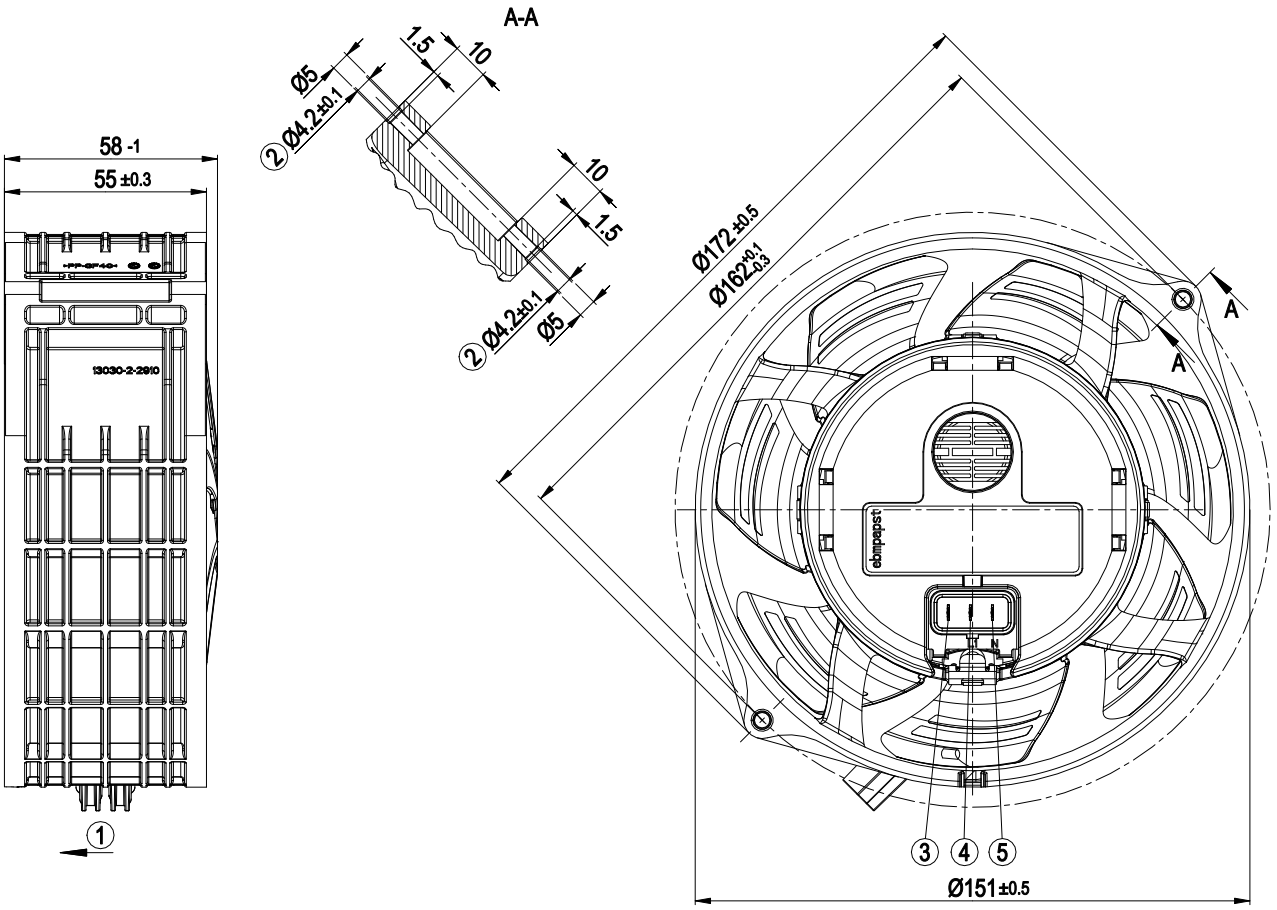
Product drawing



1	Airflow direction "V"
2	Use should preferably be made of 2x Remform screws WN-156-2 5.0x16 Torx galvanized from Arnold. Alternatively, 2x metric M4 bolts fastened with nuts
3	PIN S, speed selection (flat plug 2.8 x 0.5)
4	PIN L1, phase (flat plug 2.8 x 0.5)
5	PIN N, neutral conductor (flat plug 2.8 x 0.5)

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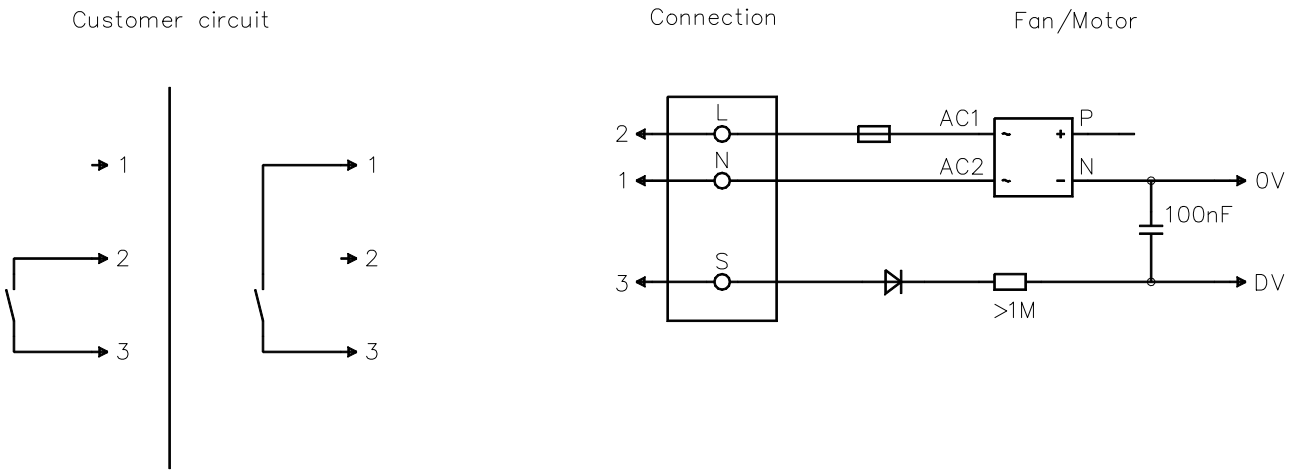
Connection diagram



No.	Conn.	Designation	Color	Function/assignment
1	N		blue	Neutral conductor
2	L		black	Power supply 115 VAC, 50-60 Hz, see nameplate for voltage range
3	S		brown	Speed selection: switch open speed 1 (fast), switch closed speed 2 (slow)

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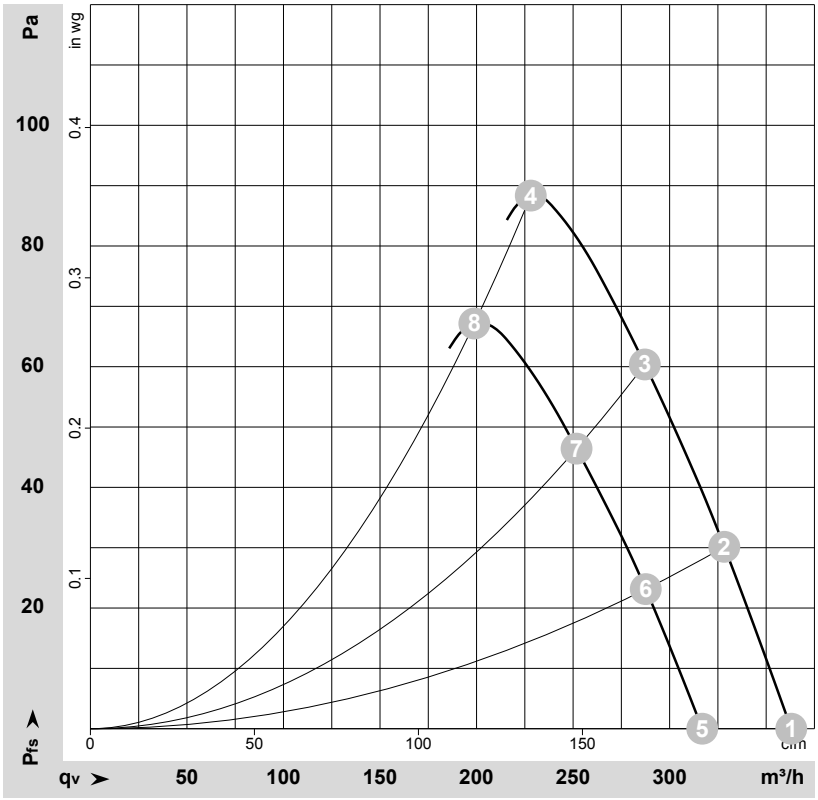
Curves: Air performance 60 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-152097-1
Measurement: LU-152098-1

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	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	115	60	3200	23	0.35	55	63	365	0	215	0.00
2	115	60	3200	23	0.35	55	63	330	30	195	0.12
3	115	60	3200	24	0.37	54	61	285	60	170	0.24
4	115	60	3200	24	0.38	55	62	230	90	135	0.36
5	115	60	2800	15	0.24	54	61	315	0	185	0.00
6	115	60	2800	16	0.24	54	61	290	24	170	0.10
7	115	60	2800	16	0.25	54	61	250	46	150	0.18
8	115	60	2800	16	0.24	54	61	200	70	115	0.28

U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · LpA_{in} = Sound pressure level intake side · LwA_{in} = Sound power level intake side
q_V = Air flow · p_{fs} = Pressure increase