

W1G130-AA49-01

EC axial compact fan - ESM



W1G130-AA49-01 ebmpapst Datasheet

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Nominal data

Type	W1G130-AA49-01		
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	2800	3200
Power consumption	W	15	24
Current draw	A	0.24	0.38
Max. back pressure	Pa		90
Max. back pressure	in. wg		0.36
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	60	60

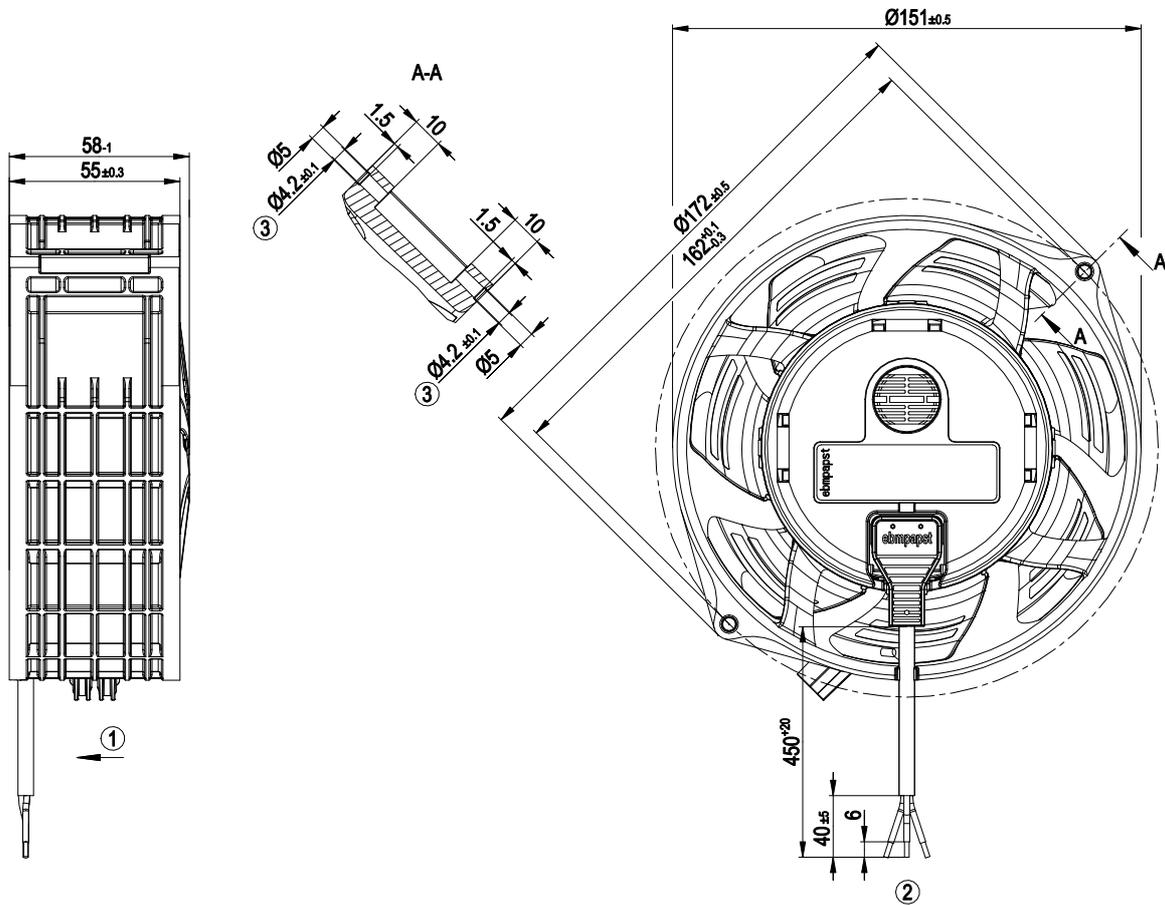
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

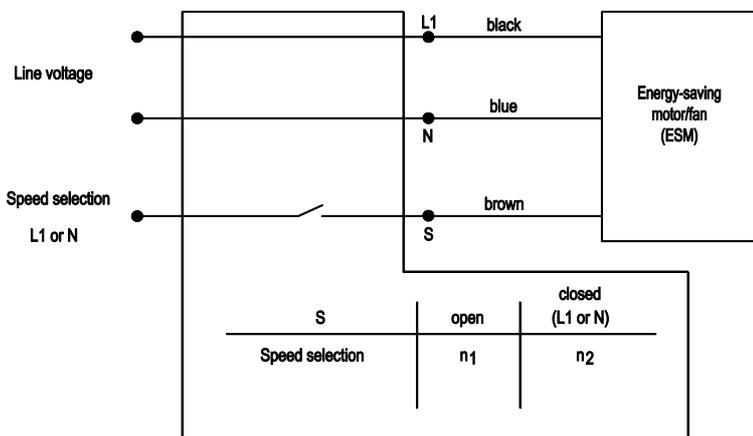
Weight	0.76 kg
Size	130 mm
Motor size	55
Blade material	PA plastic
Fan housing material	PP plastic
Number of blades	7
Airflow direction	V
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP55
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
Max. 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	<ul style="list-style-type: none"> - 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)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	≤ 0.25 mA
Motor protection	Thermal switch auto reset, internally connected
With cable	Lateral
Protection class assignment	<p>II; This component for installation may have several local protection classes. This information relates to this component's basic design.</p> <p>The final protection class is based on the component's intended installation and connection. If there is a PE connection point on the housing, it must not be visible after installation.</p>
Safety class of the permissible refrigerants according to EN378 / ISO5149-1	A3/B3
Maximum surface temperature	225 °C
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; UKCA
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	UL 1004-3 + 60730-1; VDE; EAC; CSA C22.2 No. 77 + CAN/CSA-E60730-1

Product drawing

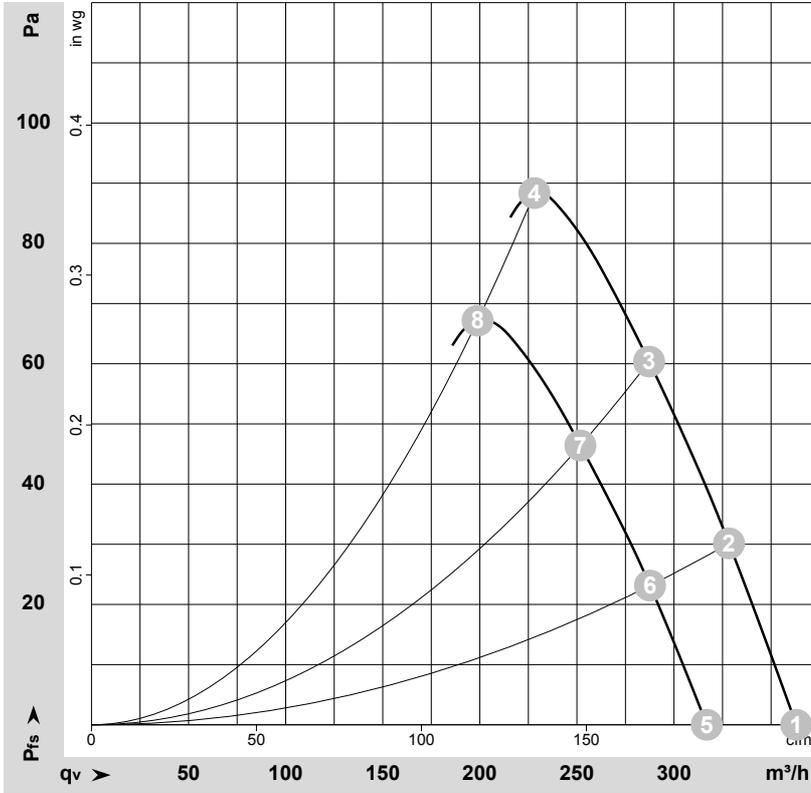


- 1 Direction of air flow "V"
- 2 Cable AWG20, 3x crimped splices
- 3 Preferably 2x Remform screws WN-156-2 5.0x16 Torx galvanized from Arnold should be used. Alternatively, 2x metric M4 screws fastened with nuts

Connection diagram



Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

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

