W1G130-AA25-19

EC axial compact fan - ESM



ebm-papst Mulfingen GmbH & Co. KG
Bachmühle 2 · D-74673 Mulfingen
Phone +49 7938 81-0
Fax +49 7938 81-110
info1@de.ebmpapst.com
www.ebmpapst.com

Limited partnership · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRA 590344

General partner Elektrobau Mulfingen GmbH · Headquarters Mulfingen
Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	**W1G130-AA25-19**		
Motor	**M1G055-AI**		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data			ml
Speed (rpm)	min^{-1}	1900	2700
Power consumption	W		15
Current draw	A		0.12
Max. back pressure	Pa		60
Max. back pressure	in. wg		0.24
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

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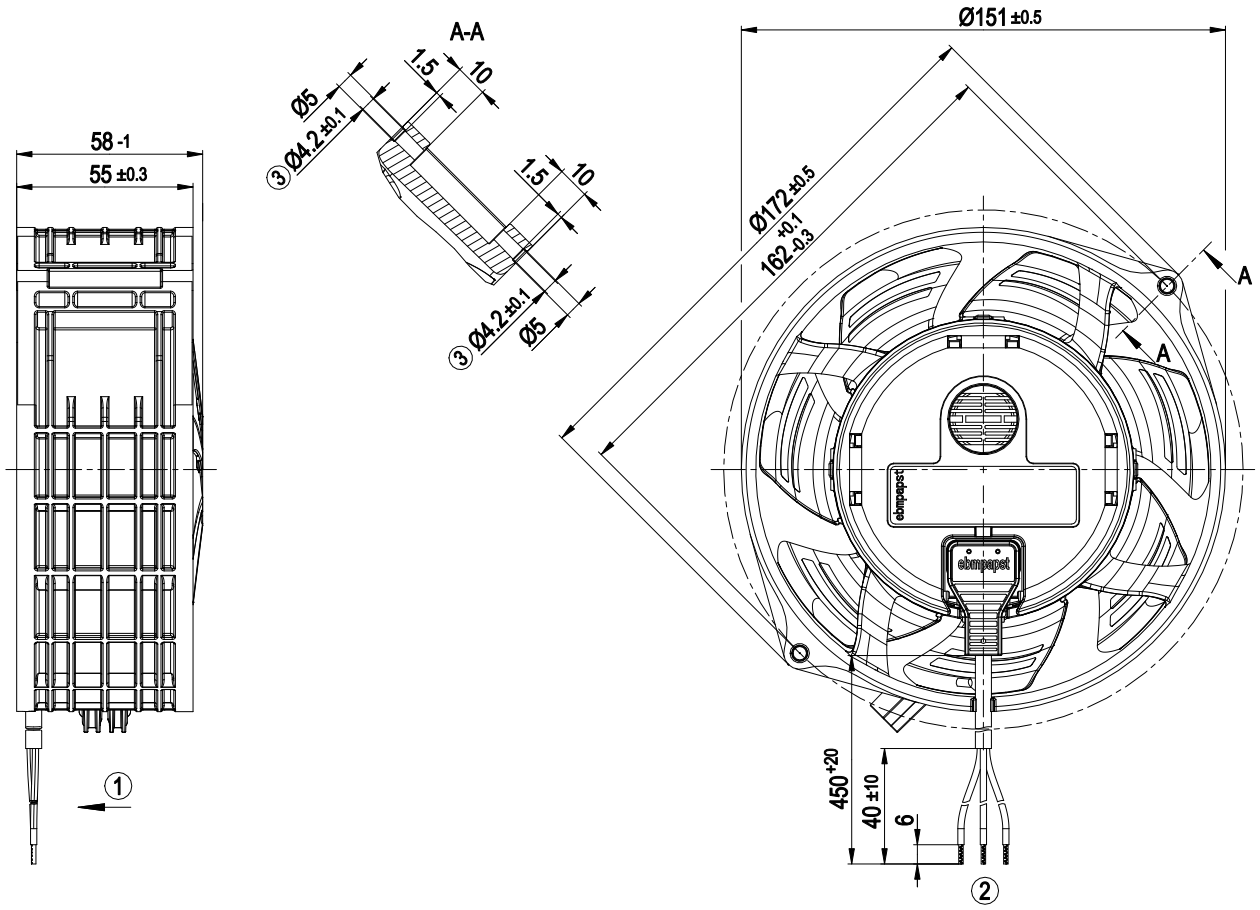
Technical description

Weight	0.75 kg
Size	130 mm
Motor size	55
Impeller 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
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1+
Ambient temperature note	Occasional start-up between -40°C and -25°C is permissible. For continuous operation at temperatures below -25°C (e.g. refrigeration applications) we recommend our fan design with special low-temperature bearings.
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 setting input (230 V) - Soft start - Thermal overload protection for motor
Speed levels	2
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
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
Comment on CE	Ecodesign Directive 2009/125/EC + Fan Directive (EC) No. 327/2011 does not apply, as power consumption <125W.
Approval	EAC; CSA C22.2 No. 77 + CAN/CSA-E60730-1; VDE; UL 1004-3 + 60730-1

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Product drawing

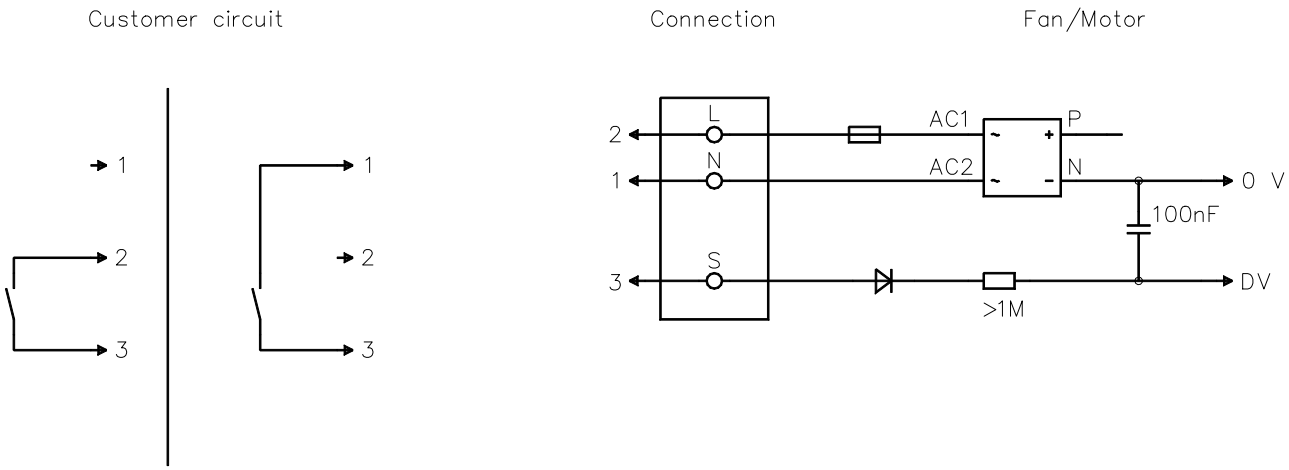


1	Airflow direction "V"
2	Cable PVC AWG20
	3x splice
3	Use should preferably be made of 2x Remform screws WN-156-2 5.0x16 Torx galvanized from Arnold. Alternatively, 2x metric M4 bolts fastened with nuts

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Connection diagram

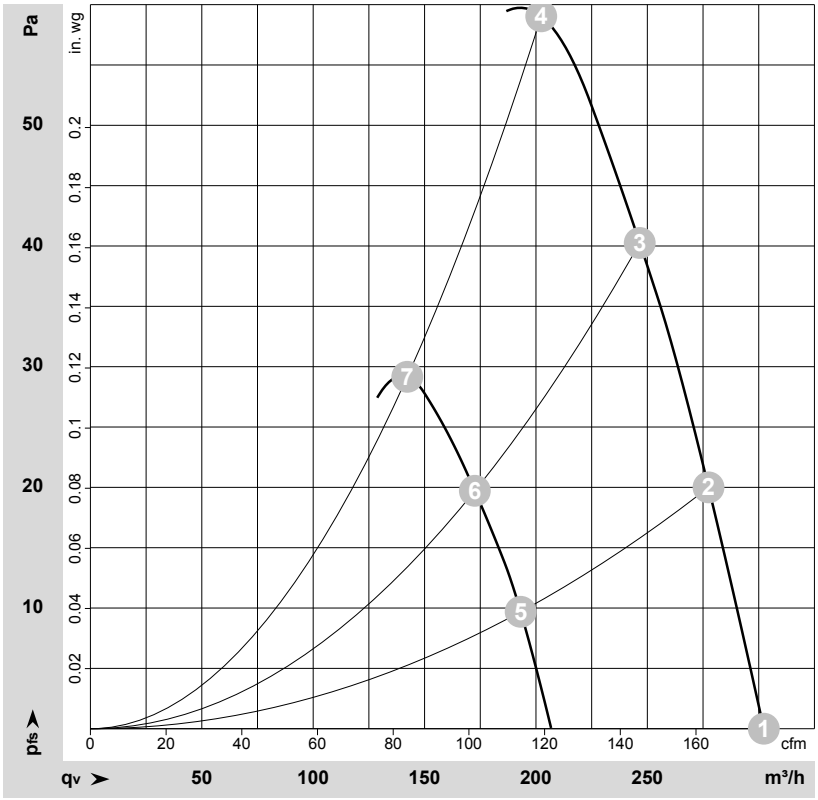


No.	Conn.	Designation	Color	Function/assignment
1	N		blue	Neutral conductor
2	L		black	Power supply 230 VAC, 50-60 Hz, see nameplate for voltage range
3	S		brown	Speed selection: switch open speed 1 (slow), switch closed speed 2 (fast)

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Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-210460-1
Measurement: LU-210292-1

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

	Stage	Wired	U	f	n	P_{ed}	I	q_V	p_{fs}	q_V	p_{fs}
			V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	in. wg
1	2	1~	230	50	2700	14	0.12	300	0	180	0.00
2	2	1~	230	50	2700	14	0.12	275	20	165	0.08
3	2	1~	230	50	2700	15	0.12	245	40	145	0.16
4	2	1~	230	50	2700	15	0.12	200	60	120	0.24
5	1	1~	230	50	1915	7.0	0.06	195	10	115	0.04
6	1	1~	230	50	1900	7.0	0.06	175	20	100	0.08
7	1	1~	230	50	1910	7.0	0.06	140	30	85	0.12

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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