EC axial compact fan

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-AA25-15**		
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}	2800	2400
Power consumption	W	16	
Current draw	A	0.14	
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	0.74 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; 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 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)
Electrical hookup	Plug
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	II
Conformity with standards	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; UL 1004-3 + 60730-1

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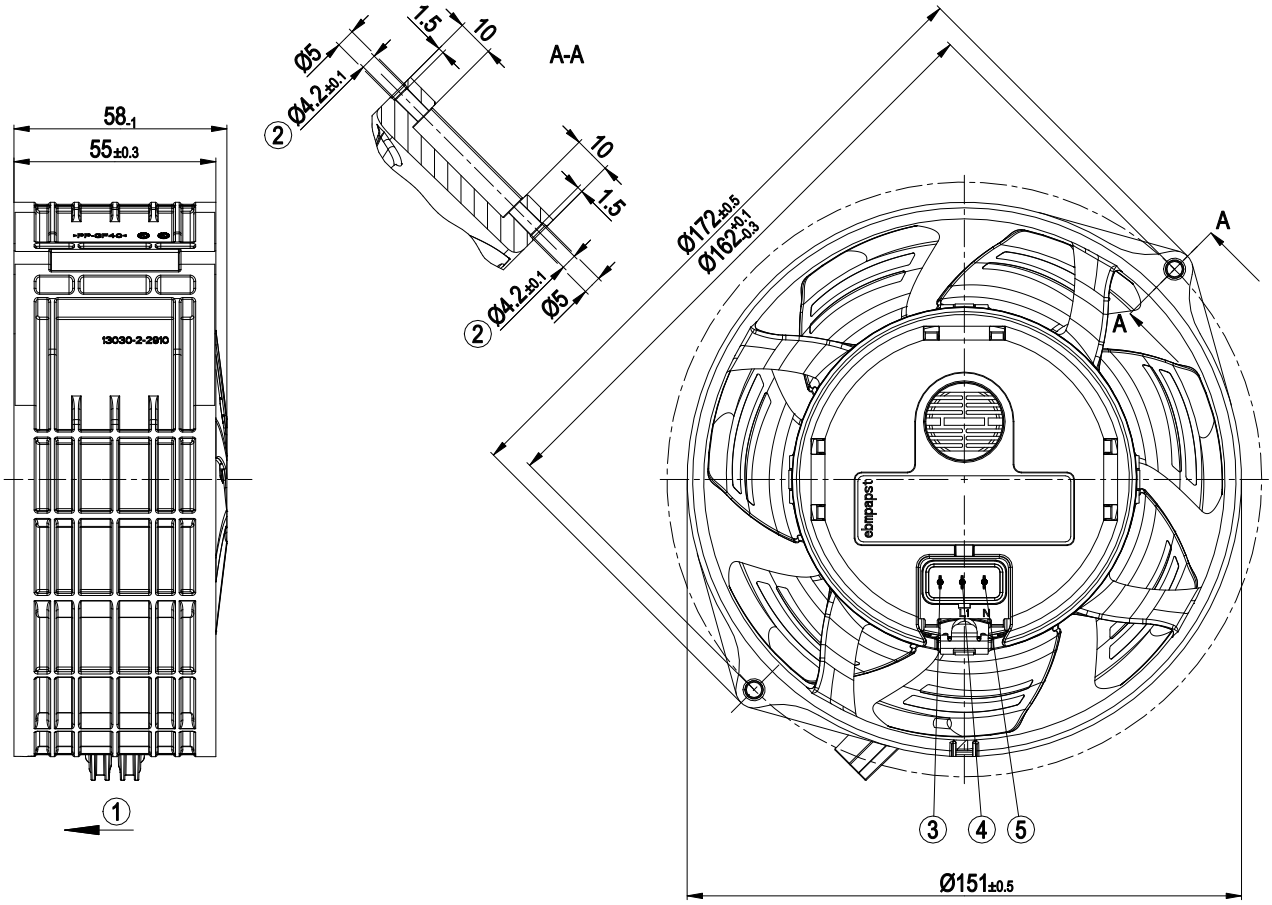
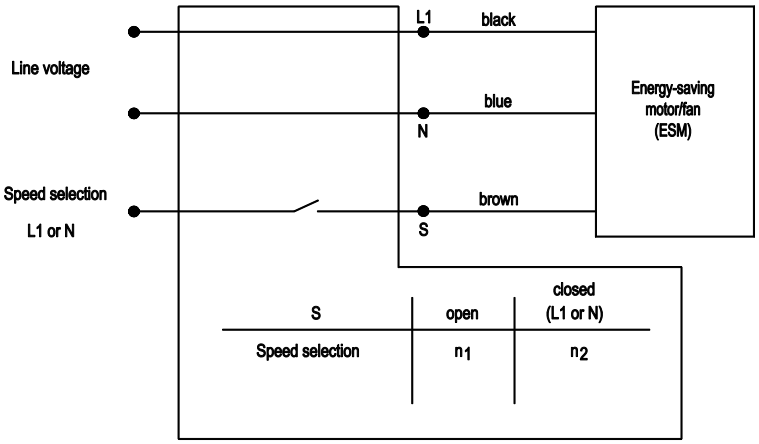
Product drawing



1	Airflow direction "V"
2	Preferably 2x Remform screws WN-156-2 5.0x16 Torx galvanized from Arnold should be used. Alternatively, 2x metric M4 screws 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)

Connection diagram



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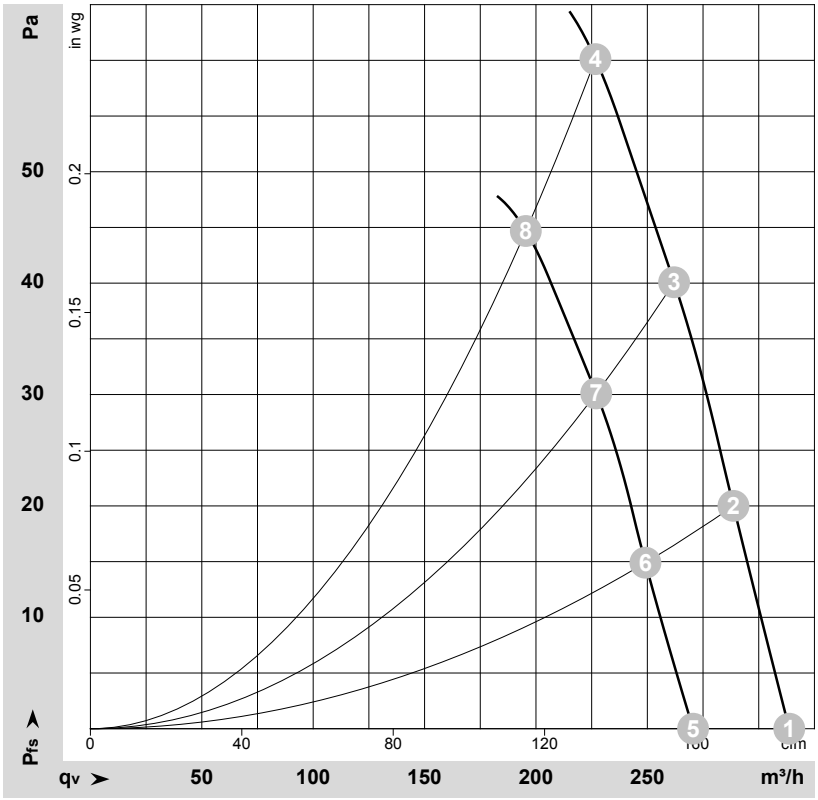
Curves: Air performance 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-155262-1
Measurement: LU-185105-1

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	230	50	2800	15	0.13	52	59	315	0	185	0.00
2	230	50	2800	16	0.14	52	59	290	20	170	0.08
3	230	50	2800	16	0.14	51	58	260	40	155	0.16
4	230	50	2800	16	0.14	51	57	225	60	135	0.24
5	230	50	2400	10.0	0.09	48	56	270	0	160	0.00
6	230	50	2400	10.0	0.09	48	55	250	15	145	0.06
7	230	50	2400	11	0.09	47	54	225	30	135	0.12
8	230	50	2400	10.0	0.09	47	53	195	45	115	0.18

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