W1G200-EC95-47

EC axial fan - ESM

sickled blades (S series)

ESM wall ring



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Nominal data

Type	**W1G200-EC95-47**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min^{-1}	2100	1500
Power input	W	31	16
Current draw	A	0.46	0.26
Max. back pressure	Pa	55	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	50	50

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

Mass	0.75 kg
Size	200 mm
Material of blades	PA plastic
Material of wall ring	PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54
Insulation class	"B"
Humidity (F)/environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Speed selection max/min - ESM+ extensible with plug-in module - Soft start - Over-temperature protected motor
Speed steps	2
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Protection class	II
Product conforming to standard	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	EAC; CCC; VDE; CSA C22.2 No.77; UL 1004-3

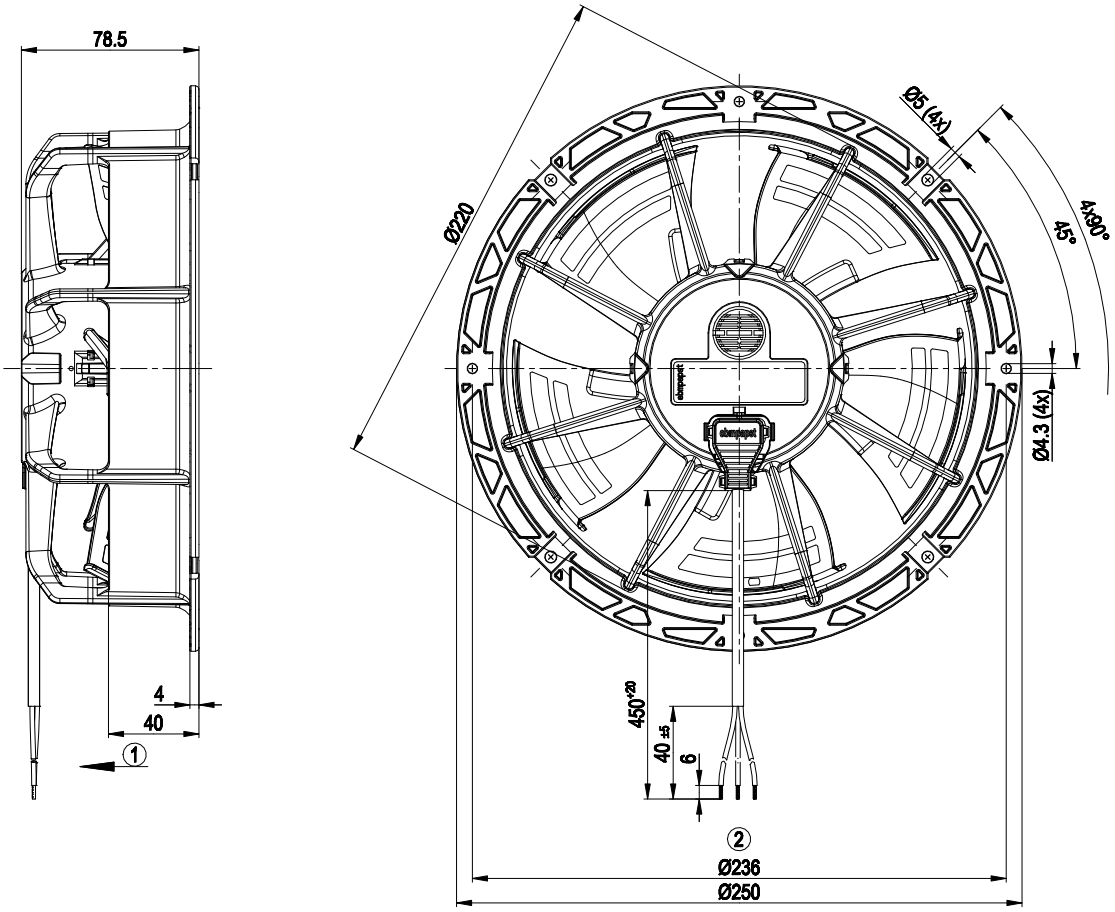
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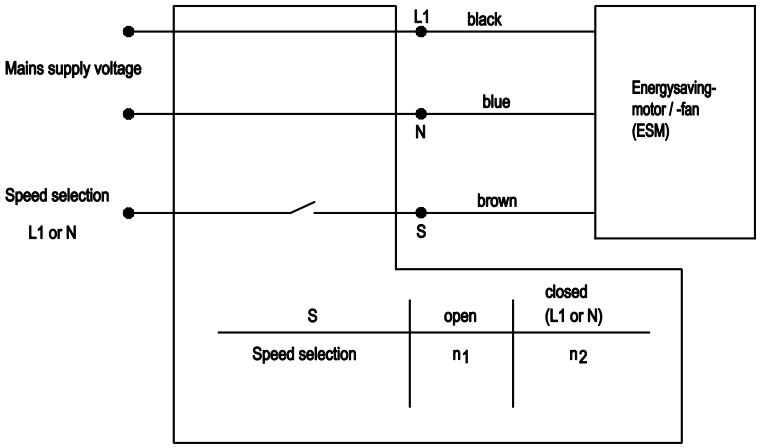
ESM wall ring

Product drawing



1	Direction of air flow "V"
2	Connection line PVC AWG20; 3 x brass lead tips crimped

Connection screen



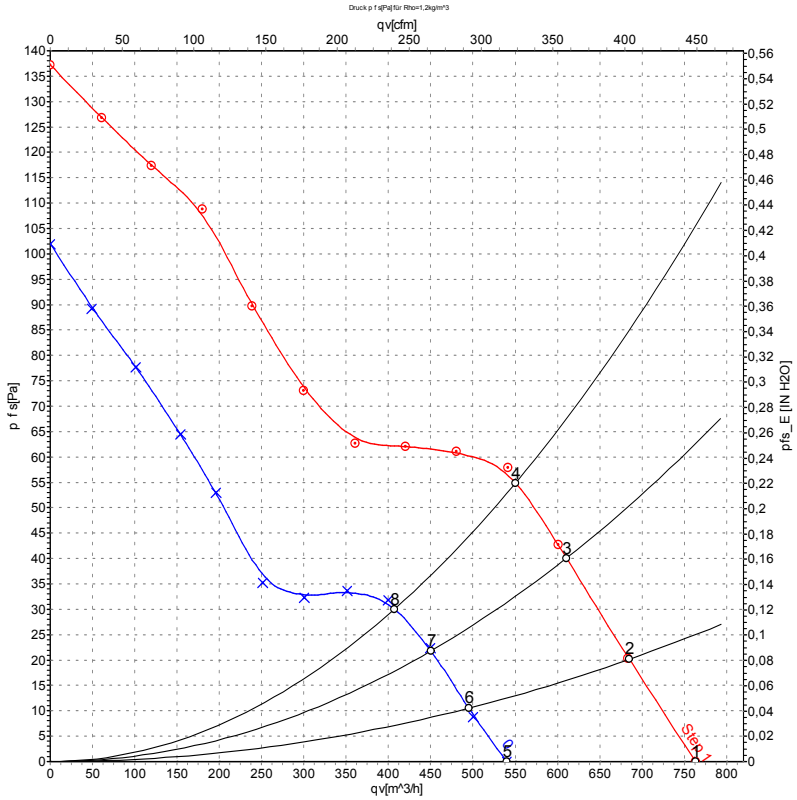
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Charts: Air flow 50 Hz



Measurement: LU-127262-1
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Air performance measured as per ISO 5801 Installation category A. For detailed information on the measuring set-up, please contact ebm-papst. Suction-side noise levels: LwA measured as per ISO 13347 / LpA measured with 1m distance to fan axis. The values given are valid under the measuring conditions mentioned above and may vary according to the actual installation situation. With any deviation from the standard set-up, the specific values have to be checked and reviewed with the unit installed.

Measured values

	Stage	U	f	n	P_{ed}	I	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
		V	Hz	min^{-1}	W	A	dB(A)	m^3/h	Pa	cfm	inH2O
1	1	115	50	2100	28	0.42	62	765	0	450	0.00
2	1	115	50	2100	30	0.45	61	685	20	405	0.08
3	1	115	50	2100	31	0.46	60	610	40	360	0.16
4	1	115	50	2100	31	0.46	62	550	55	325	0.22
5	1	115	50	1500	14	0.22	54	540	0	320	0.00
6	1	115	50	1500	15	0.22	54	495	10	290	0.04
7	1	115	50	1500	16	0.26	53	450	22	265	0.09
8	1	115	50	1500	16	0.26	55	405	30	240	0.12

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · LwA_{in} = Sound power level inlet side · q_V = Air flow · p_{fs} = Pressure increase

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