

W1G200-EC95-47

EC axial fan - ESM

sickled blades (S series)
ESM wall ring



W1G200-EC95-47 ebmpapst Datasheet
sales@fansco.com
www.fansco.com

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



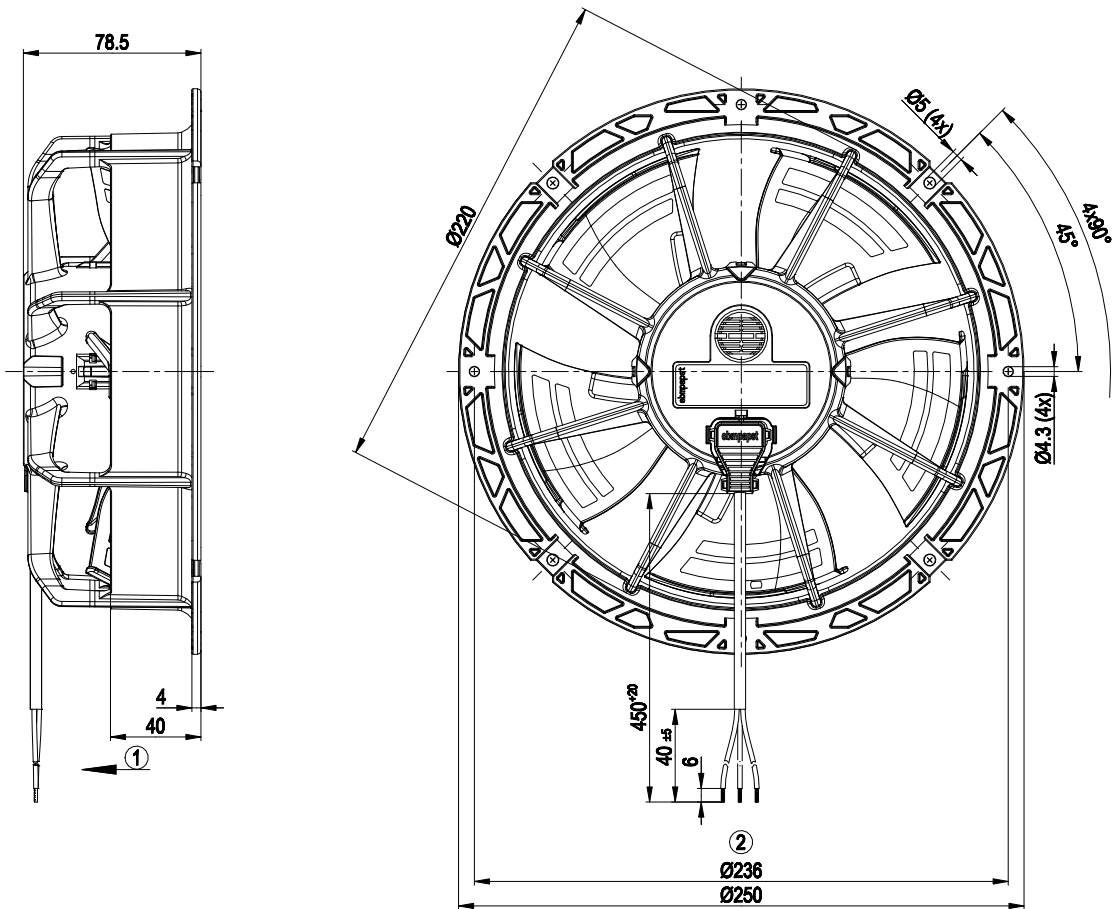
Technical features

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

EC axial fan - ESM

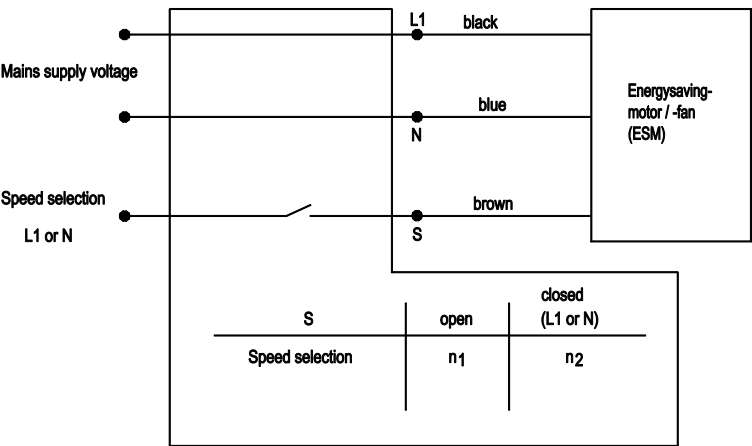
sickled blades (S series)
ESM wall ring

Product drawing

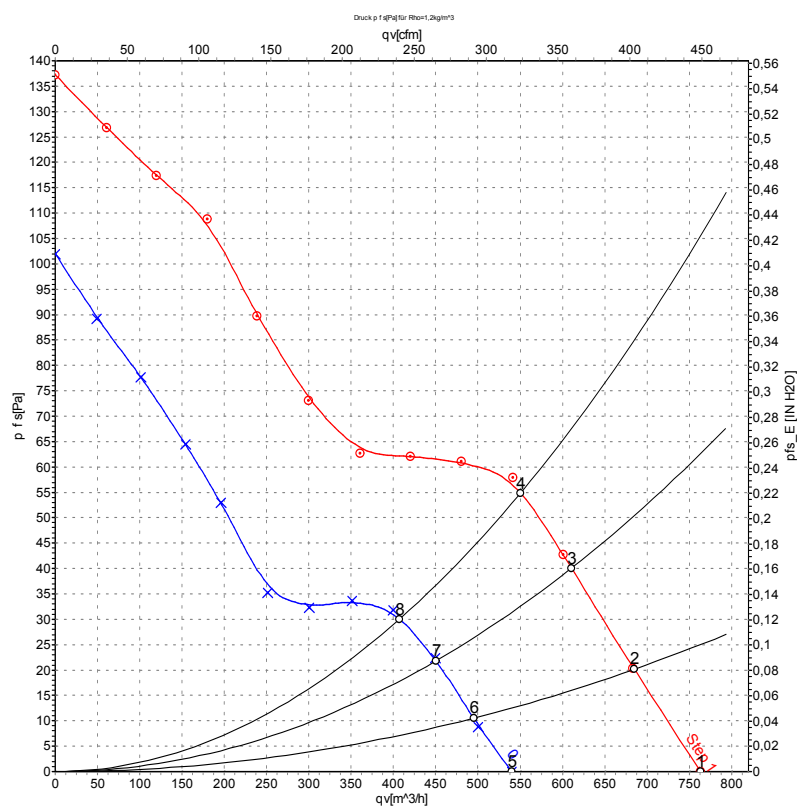


- 1 Direction of air flow "V"
- 2 Connection line PVC AWG20; 3 x brass lead tips crimped

Connection screen



Charts: Air flow 50 Hz



Measurement: LU-127262-1
Measurement: LU-127268-1

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: L_{wA} measured as per ISO 13347 /
L_{pA} 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	L _{wA_{in}}	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	dB(A)	m ³ /h	Pa	cfm	inH ₂ O
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 · L_{wA_{in}} = Sound power level inlet side · q_v = Air flow · p_{fs} = Pressure increase