

W1G200-EC91-61

EC axial fan - ESM

sickled blades (S series), single inlet
ESM wall ring



W1G200-EC91-61 ebmpapst Datasheet
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Nominal data

Type	W1G200-EC91-61		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition		ml	
Speed (rpm)	min ⁻¹	1400	1000
Power input	W	13	
Current draw	A	0.1	
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

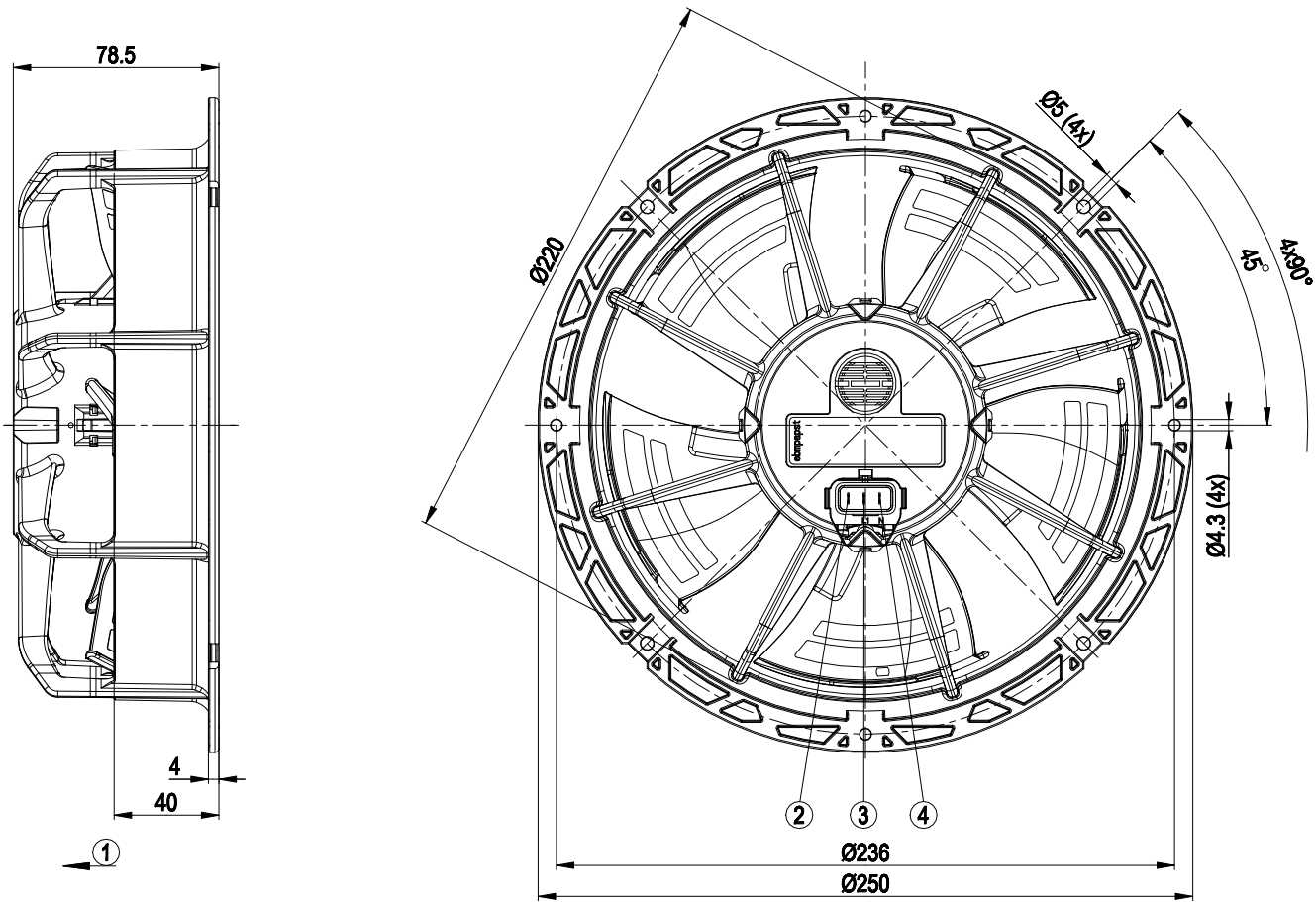
Mass	1 kg
Size	200 mm
Material of blades	PA plastic
Material of wall ring	PP plastic
Number of blades	5
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 54; Only with suitable connector, which has to be fitted by the customer
Insulation class	"B"
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 adjustment input (230 V) - 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
Protection class	II
Product conforming to standard	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	CSA C22.2 No.77; VDE; UL 1004-3



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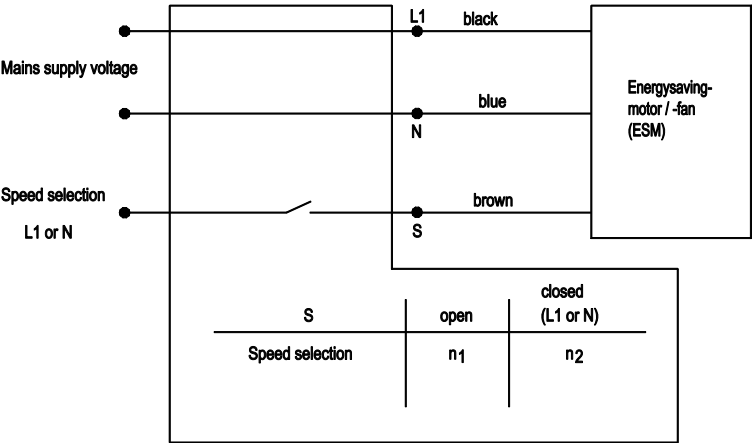
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Product drawing



- | | |
|---|---|
| 1 | Direction of air flow "V" |
| 2 | PIN S, speed selection (flat connector 2.8 x 0.5) |
| 3 | PIN L1, phase (flat connector 2.8 x 0.5) |
| 4 | PIN N, neutral conductor (flat connector 2.8 x 0.5) |

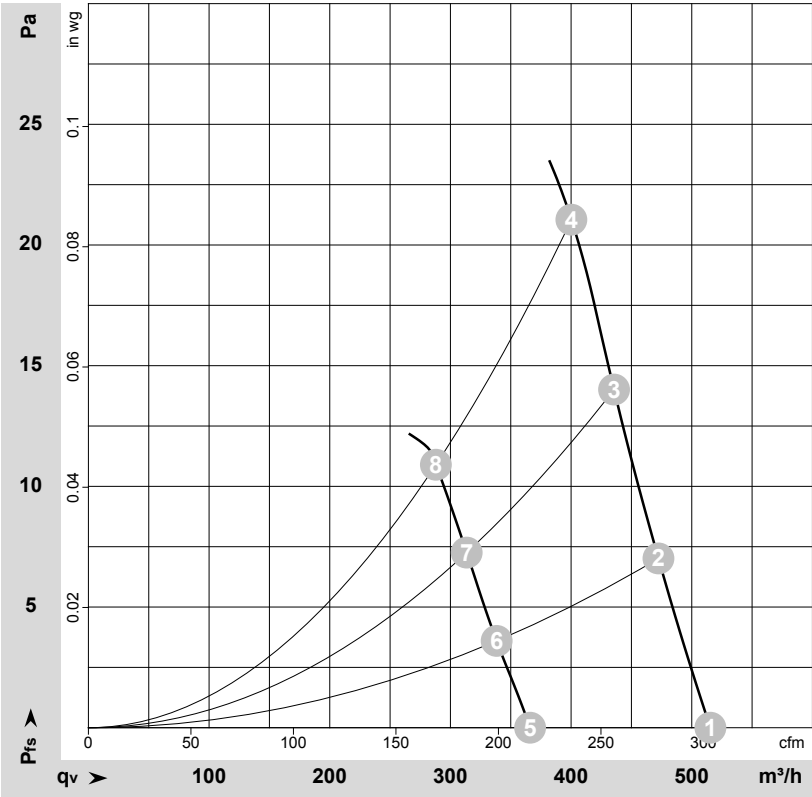
Connection screen



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Charts: Air flow 50 Hz



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

Measurement: LU-171071-1
Measurement: LU-171125-1

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: 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

	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)	m³/h	Pa	cfm	inH2O
1	230	50	1400	11	0.09	46	55	515	0	305	0.00
2	230	50	1400	12	0.09	46	54	470	7	280	0.03
3	230	50	1400	12	0.10	46	54	435	14	255	0.06
4	230	50	1400	13	0.10	46	54	400	21	235	0.08
5	230	50	1000	5.0	0.05			365	0	215	0.00
6	230	50	1000	6.0	0.05			340	4	200	0.02
7	230	50	1000	6.0	0.06			315	7	185	0.03
8	230	50	1000	6.0	0.06			290	11	170	0.04

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

