

EC axial fan - ESM

sickled blades (S series)
ESM wall ring



W1G200-EC91-29 ebmpapst Datasheet
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Nominal data

Type	W1G200-EC91-29		
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	2100	1700
Power input	W	31	-
Current draw	A	0.24	
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



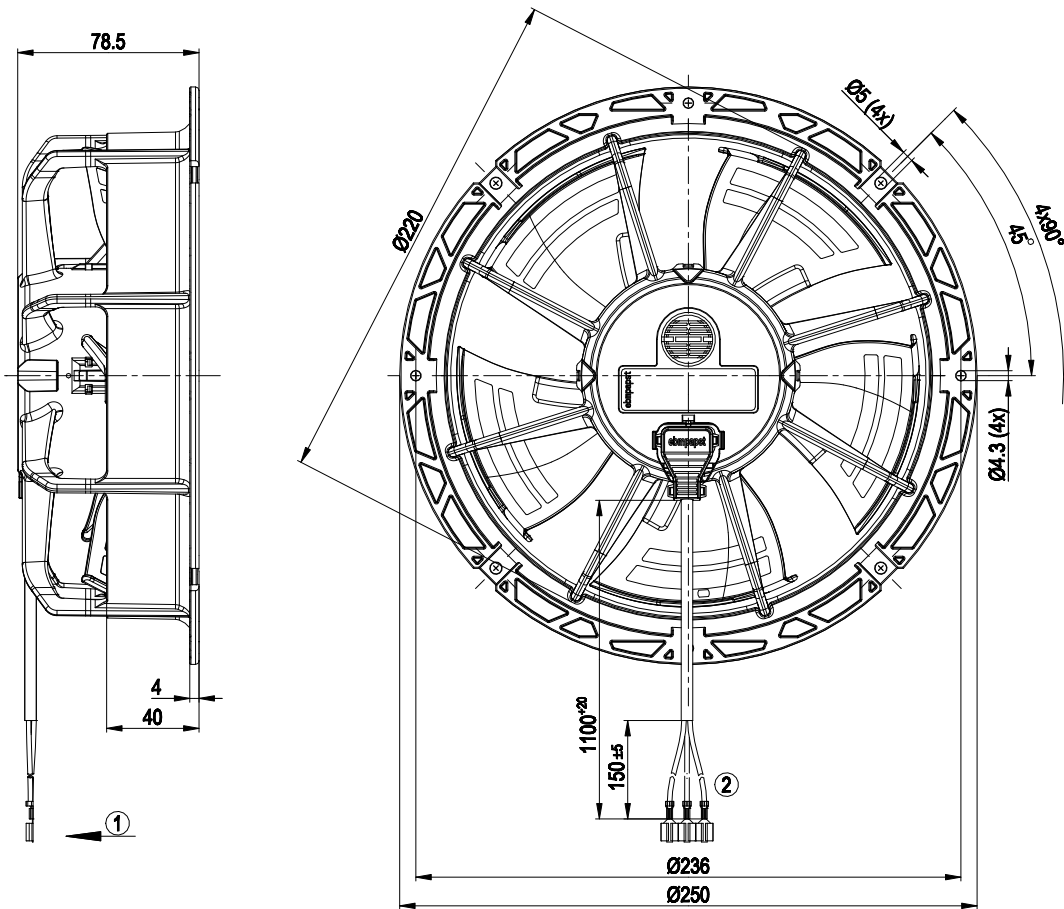
Technical features

Mass	1 kg
Size	200 mm
Material of impeller	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 - 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; CE
Approval	EAC; UL 1004-3; VDE; CSA C22.2 No.77

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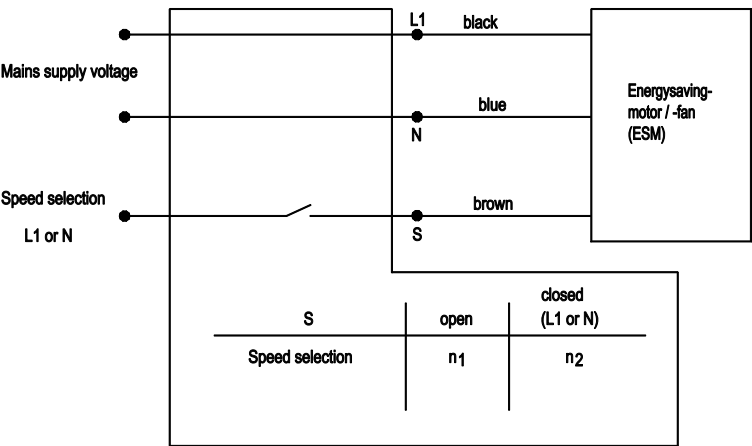
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Product drawing

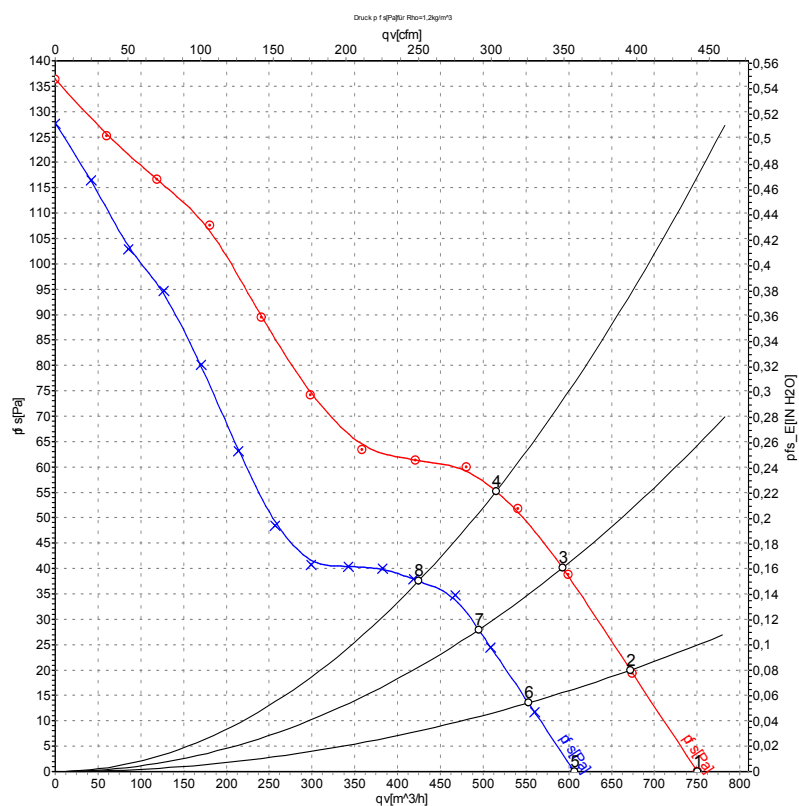


- 1 Direction of air flow "V"
- 2 Connection line PVC AWG20, 3x receptacle for tabs 6.3 x 0.8 crimped

Connection screen



Charts: Air flow 50 Hz



Measurement: LU-113351-1

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

	U	f	n	P _{ed}	I	LpA _{in}	LwA _{in}	qv	p _{fs}	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	dB(A)	dB(A)	m³/h	Pa	CFM	inH2O
1	230	50	2100	29	0.22	55	62	750	0	440	0.00
2	230	50	2100	30	0.23	54	61	670	20	395	0.08
3	230	50	2100	31	0.24	53	60	595	40	350	0.16
4	230	50	2100	31	0.24	54	62	520	55	305	0.22
5	230	50	1700	19	0.16			605	0	355	0.00
6	230	50	1700	19	0.16			555	14	325	0.06
7	230	50	1700	22	0.18			495	28	290	0.11
8	230	50	1700	20	0.17			425	38	250	0.15

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 · qv = Air flow
p_{fs} = Pressure increase

