W1G200-EX91-12

II 3G Ex nA IIA T4 Gc (-30°C ≤ TA ≤ +40°C) X

EC axial fan - ESM

sickled blades (S series)

ESM wall ring



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Nominal data

Type	**W1G200-EX91-12**
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}	1500	2100
Power input	W		31
Current draw	A		0.24
Max. back pressure	Pa		55
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	40	40

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
Motor size	55
Material of blades	PA plastic
Material of wall ring	PC / ABS plastic
Number of blades	5
Direction of air flow	V
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP54
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
Condensation drainage 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; EN 60335-2-89; 3G; CE
Approval	3G; VDE; CSA C22.2 no. 77; UL 1004-3
Remark	Fan application category BV-3

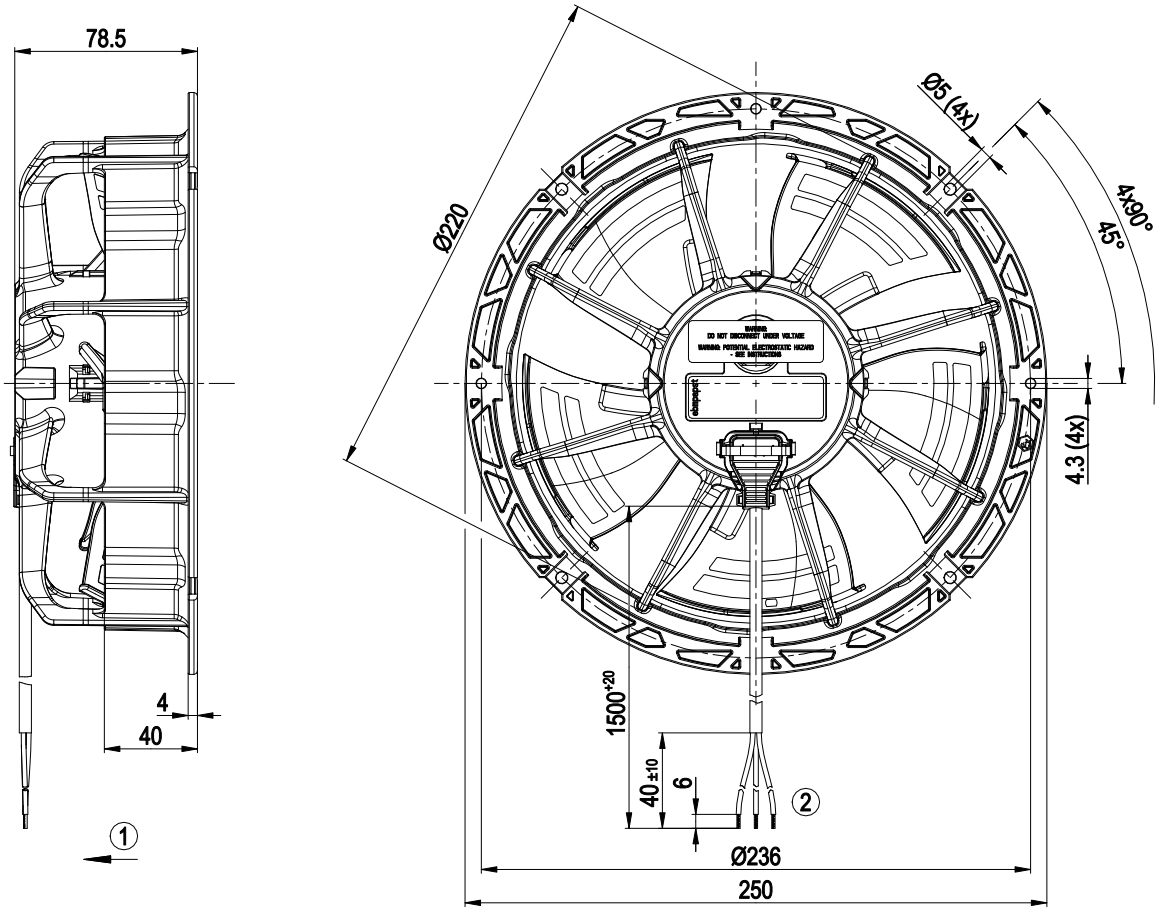
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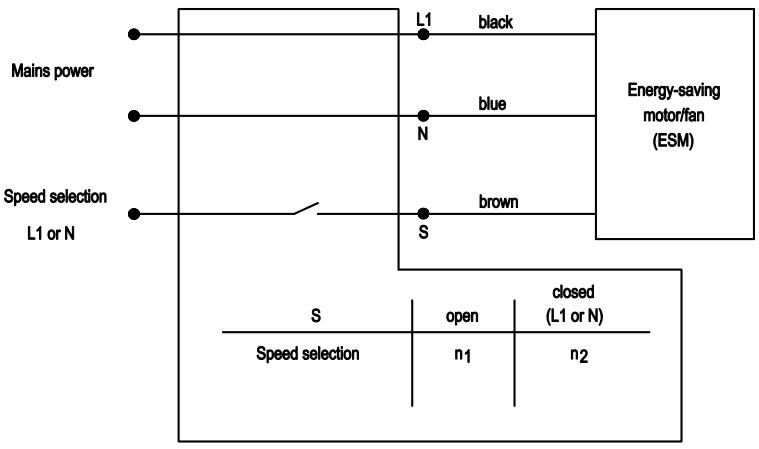
ESM wall ring

Product drawing



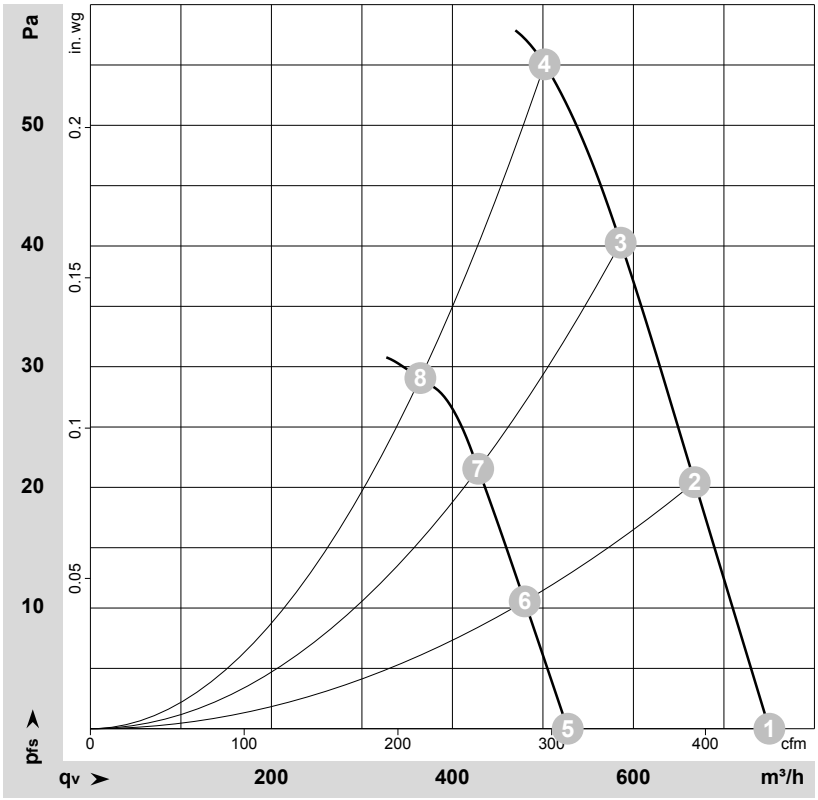
1	Direction of air flow "V"
2	Connection line PVC AWG20
	3x lead tip

Connection screen



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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-113351-1
Measurement: LU-113352-1

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)	m^3/h	Pa	cfm	in. wg
1	230	50	2100	28	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	585	40	345	0.16
4	230	50	2100	31	0.24	56	64	500	55	295	0.22
5	230	50	1500	14	0.11	46	54	525	0	310	0.00
6	230	50	1500	15	0.12	46	54	480	11	285	0.04
7	230	50	1500	15	0.12	45	53	430	22	250	0.09
8	230	50	1500	15	0.12	48	56	365	29	215	0.12

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

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