

W1G200-FX91-10

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

EC axial fan

sickled blades (S series)
ESM wall ring



W1G200-FX91-10 ebmpapst Datasheet
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Nominal data

Type	W1G200-FX91-10		
Motor	M1G055-BD		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition		ml	ml
Speed (rpm)	min ⁻¹	2100	1500
Power input	W	31	31
Current draw	A	0.22	
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



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	A
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP55
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 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
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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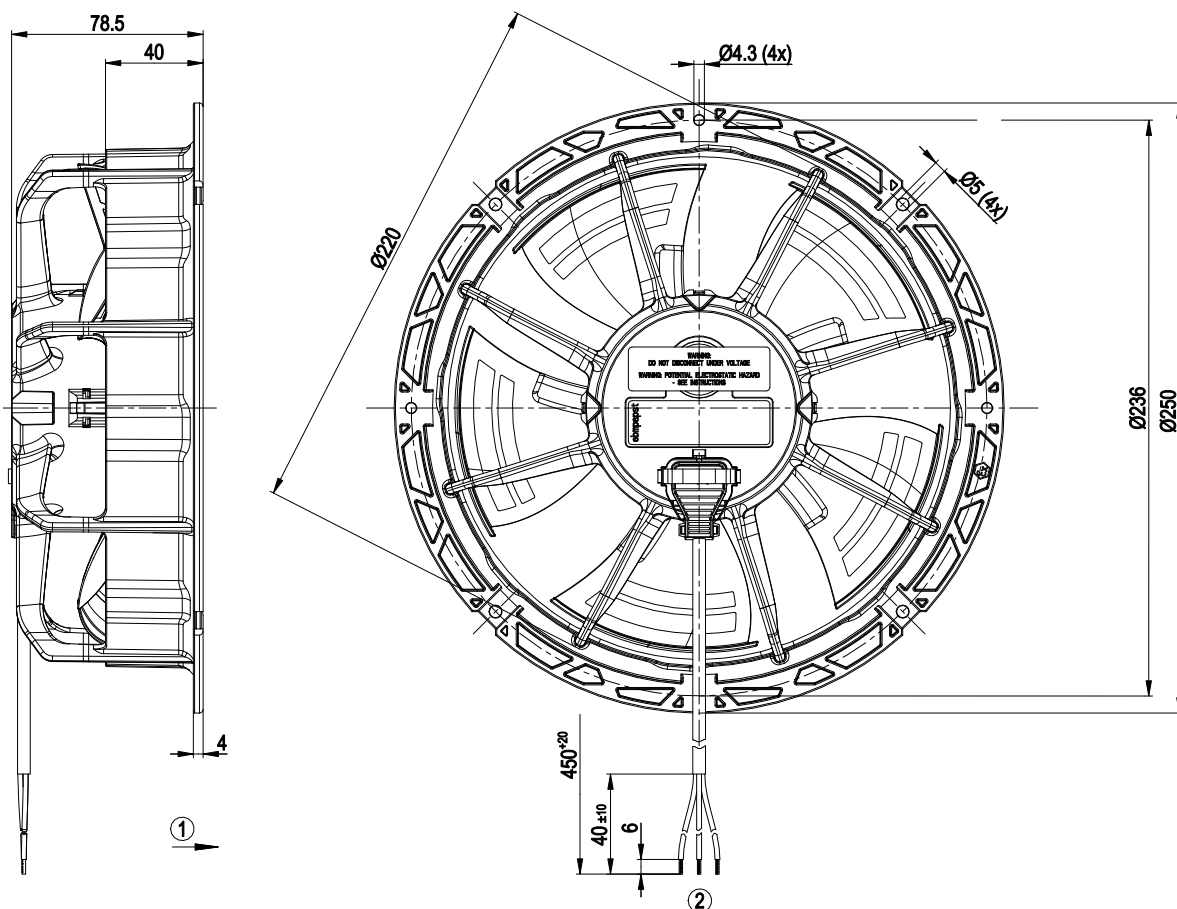
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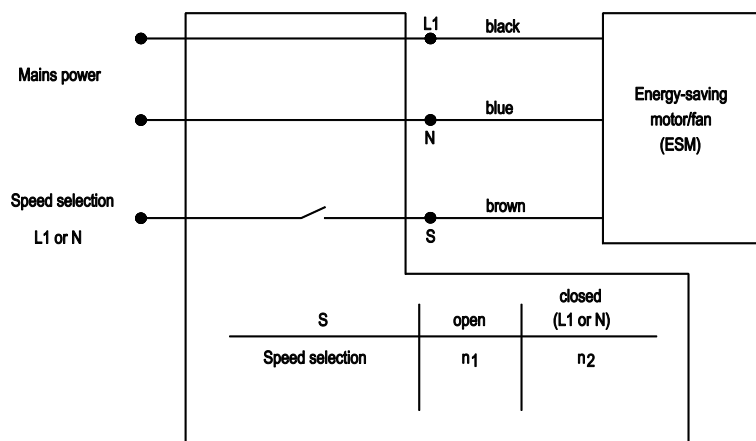


Product drawing



- 1 Direction of air flow "A"
- 2 Connection line PVC 3x AWG20, 3x lead tips crimped

Connection screen



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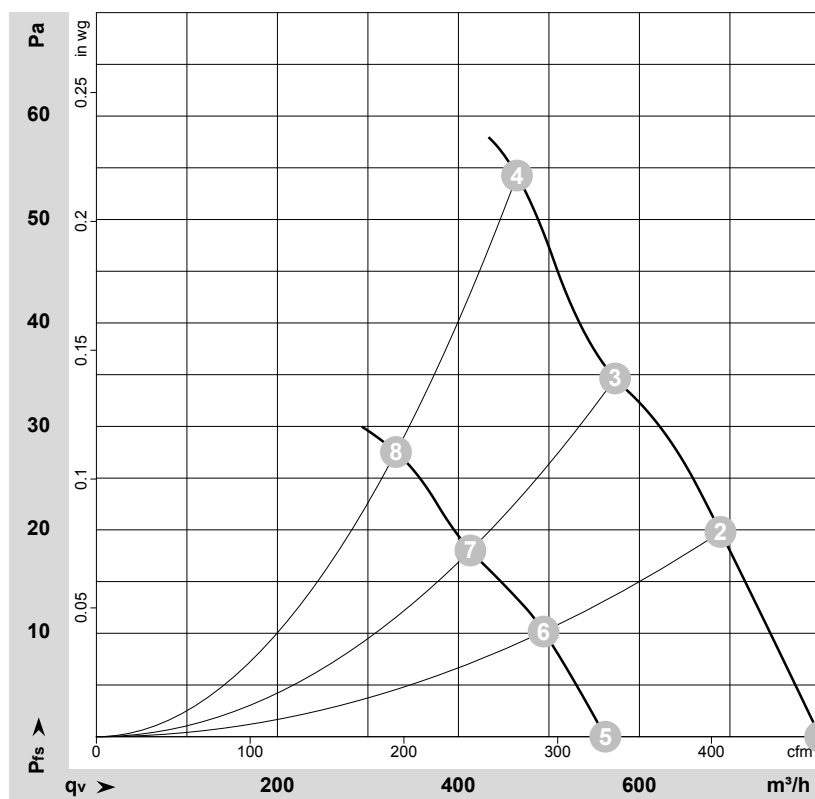
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Charts: Air flow 50 Hz



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

Measurement: LU-172820-1
Measurement: LU-172933-1

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

	Stage	U	f	n	P _{ed}	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1	230	50	2100	31	0.22	800	0	470	0.00
2	1	230	50	2100	29	0.22	690	20	405	0.08
3	1	230	50	2100	30	0.22	575	35	335	0.14
4	1	230	50	2100	31	0.22	465	55	275	0.22
5	2	230	50	1500	15	0.13	560	0	330	0.00
6	2	230	50	1500	14	0.13	495	11	290	0.04
7	2	230	50	1500	14	0.13	415	18	245	0.07
8	2	230	50	1500	16	0.15	330	28	195	0.11

U = Supply voltage · f = Frequency · n = Speed (rpm) · P_{ed} = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

