W1G200-EC91-45

EC axial fan - ESM

sickled blades (S series)

ESM wall ring



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Nominal data

Type	**W1G200-EC91-45**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Type of data definition			ml
Speed	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	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	1.0 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 class	F3-1
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	- Over-temperature protected motor - Soft start - Speed selection max/min
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	CCC; CSA C22.2 Nr.77; EAC; UL 2111; VDE

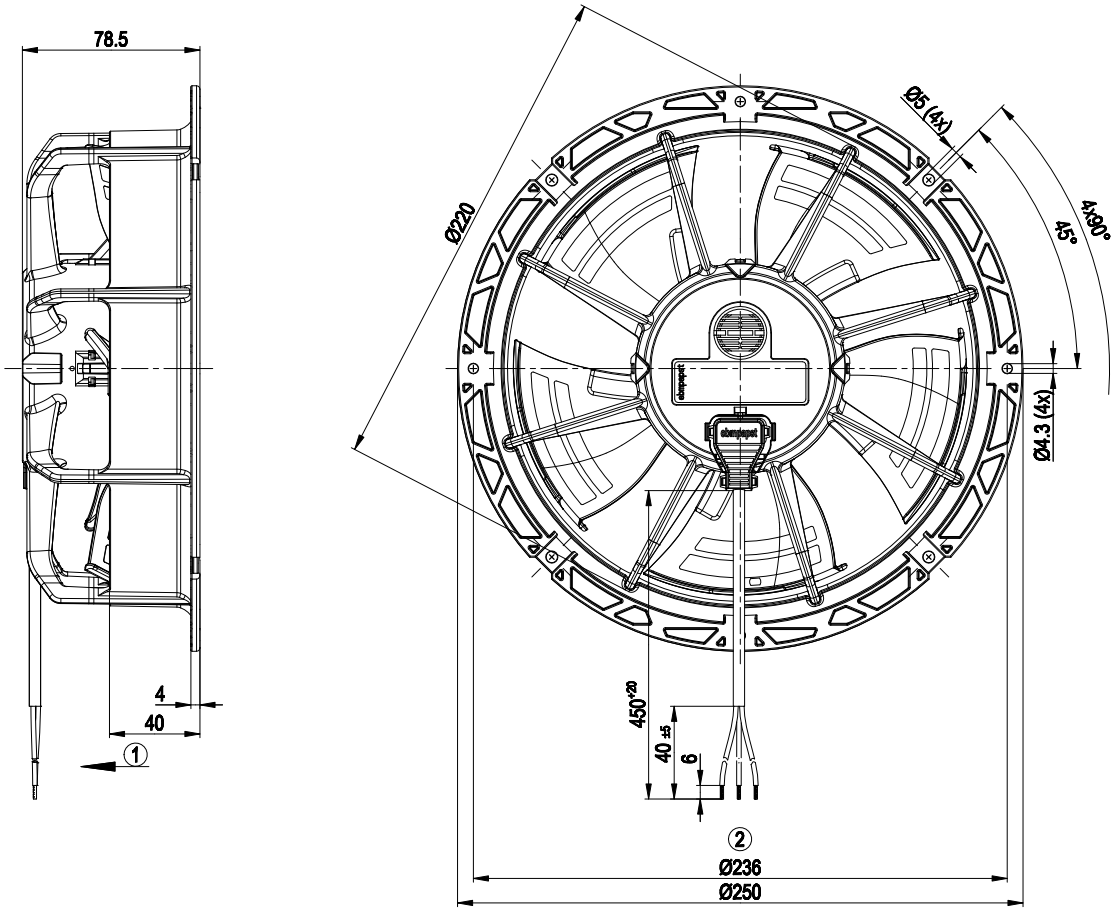
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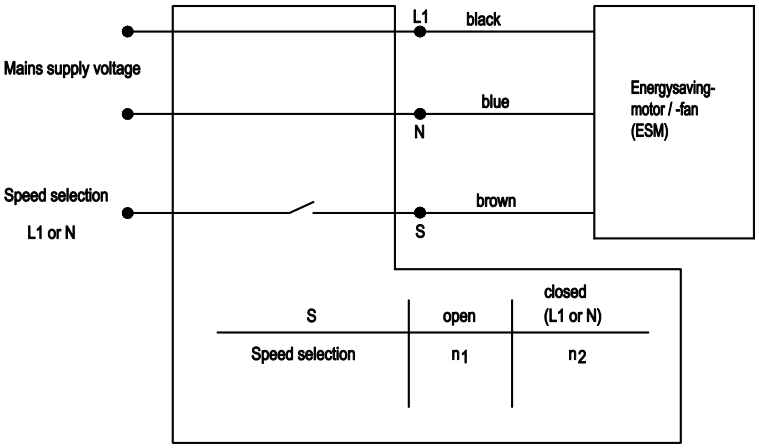
ESM wall ring

Product drawing



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

Connection screen



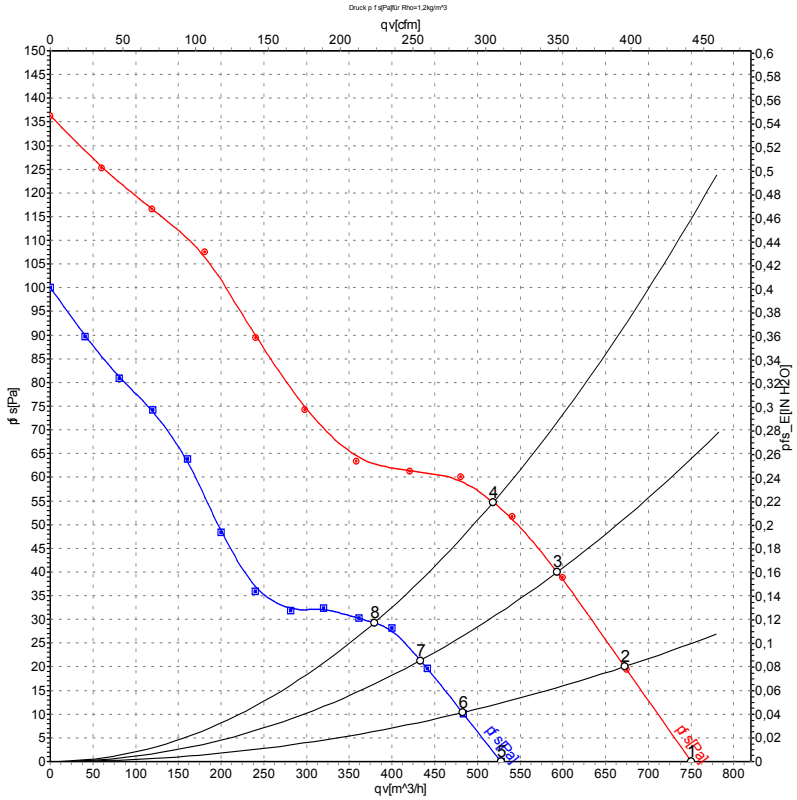
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Charts: Air flow 50 Hz



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}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa
1	230	50	2100	29	0.22	55	62	750	0
2	230	50	2100	30	0.23	54	61	670	20
3	230	50	2100	31	0.24	53	60	595	40
4	230	50	2100	31	0.24	54	62	520	55
5	230	50	1500	14	0.11	46	54	525	0
6	230	50	1500	15	0.12	46	54	480	10
7	230	50	1500	15	0.12	45	53	435	21
8	230	50	1500	15	0.12	47	55	380	29

U = Supply voltage · f = Frequency · n = Speed · 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

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