W1G200-EC91-07

EC axial fan - ESM

sickle-shaped blades (S series)

ESM fan housing



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Nominal data

Type	**W1G200-EC91-07**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml/ce	
Speed (rpm)	min^{-1}	2200	2200
Power consumption	W	30	-
Current draw	A	0.24	
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change

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Technical description

Weight	1 kg
Fan size	200 mm
Blade material	PA plastic
Fan housing material	PP plastic
Number of blades	5
Airflow direction	"V"
Direction of rotation	Right and left
Degree of protection	IP54
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Technical features	- Selection of direction of rotation left/right - Soft start - Thermal overload protection for motor
EMC immunity to interference	According to EN 61000-6-2 (industrial environment)
EMC circuit feedback	According to EN 61000-3-2/3
EMC interference emission	According to EN 61000-6-3 (household environment)
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Protection class	II
Conformity with standards	EN 60335-1; EN 60335-2-24; EN 60335-2-80; EN 60335-2-89; CE
Approval	CSA C22.2 No. 77; UL 1004-3; VDE

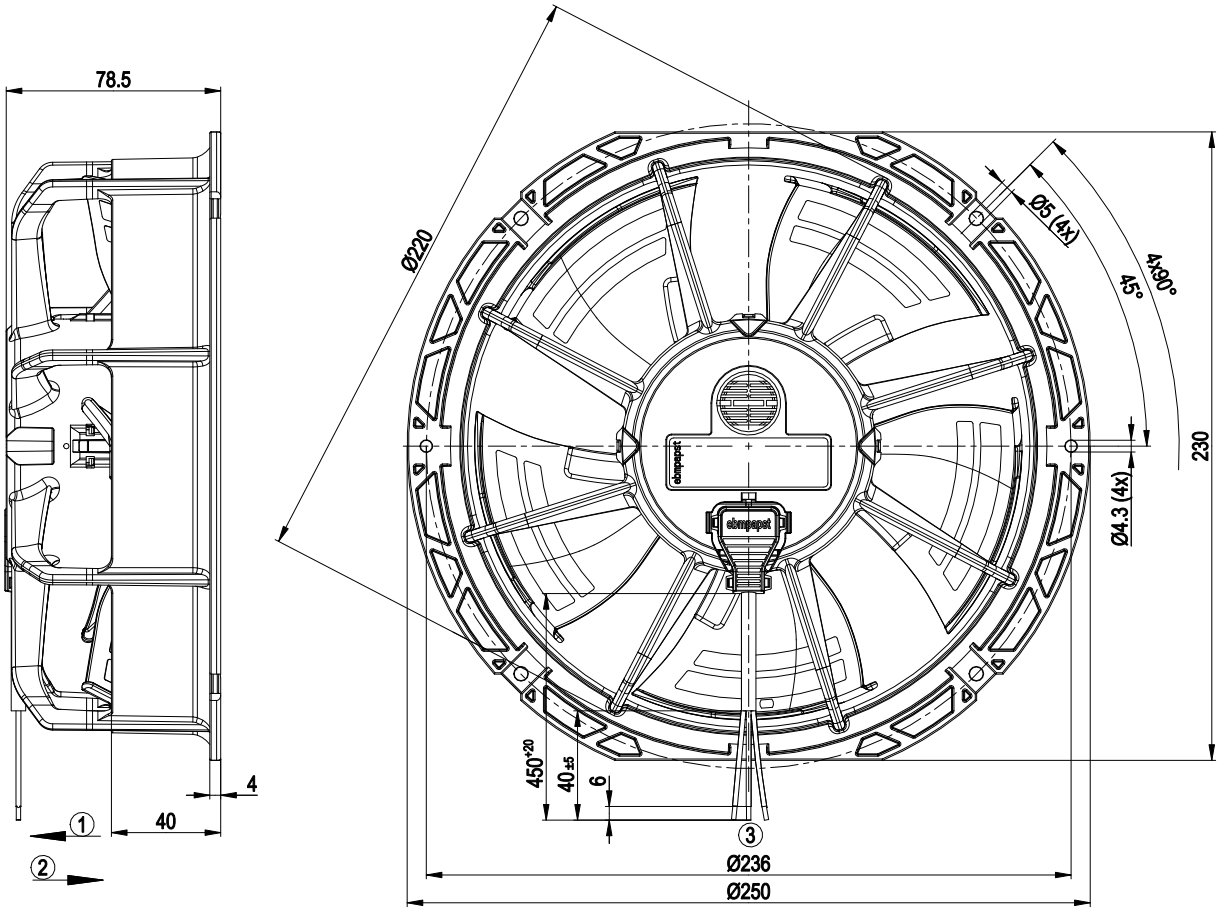
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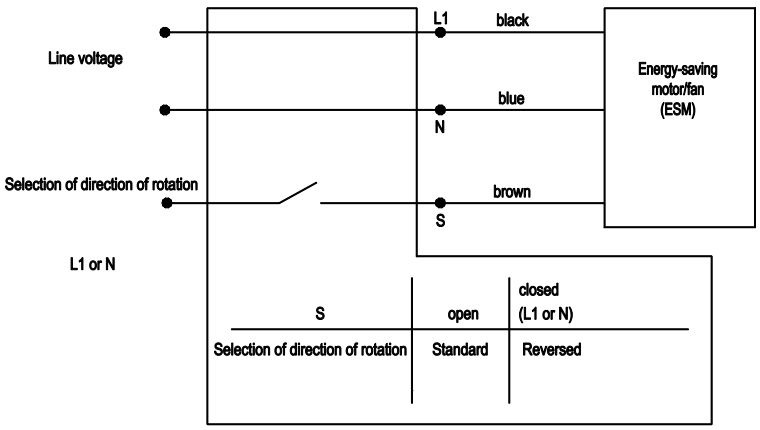
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Product drawing



1	Airflow direction "V", direction of rotation counterclockwise, 2200 rpm
2	Airflow direction "A", direction of rotation clockwise, 2200 rpm
3	Cable 3x AWG20, 3x crimped splices

Connection diagram



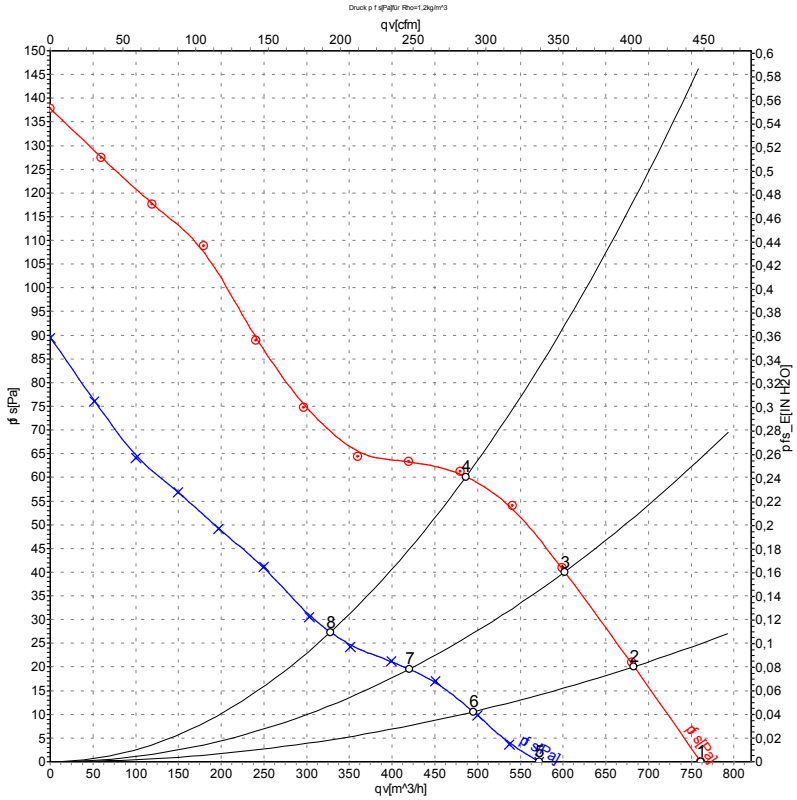
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Curves: Air performance 50 Hz



Measurement: LU-117223-1
Measurement: LU-117224-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	U	f	n	P_{ed}	I	qv	p_{fs}	qv	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	CFM	inH2O
1	230	50	2200	28	0.22	760	0	450	0.00
2	230	50	2200	30	0.23	685	20	400	0.08
3	230	50	2200	30	0.24	600	40	355	0.16
4	230	50	2200	30	0.24	485	60	285	0.24
5	230	50	2200	22	0.17	570	0	335	0.00
6	230	50	2200	22	0.16	495	11	290	0.04
7	230	50	2200	21	0.16	420	20	245	0.08
8	230	50	2200	23	0.17	330	27	195	0.11

U = Power supply · f = Frequency · n = Speed (rpm) · P_{ed} = Power consumption · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

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