W1G200-EC89-14

EC axial fan

sickle-shaped blades (S series)

ESM fan housing

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Nominal data

Type	**W1G200-EC89-14**
Motor	**M1G055-BD**

Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50/60	50/60
Method of obtaining data		ml	
Speed	min^{-1}	1400	1600
Power consumption	W	10	-
Current draw	A	0.07	
Min. ambient temperature	°C	-30	-30
Max. ambient temperature	°C	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	1.0 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	F3-1
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 storage	Ball bearing
Technical features	- Thermal overload protection for motor - Soft start - Selection of direction of rotation left/right
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 2111; VDE

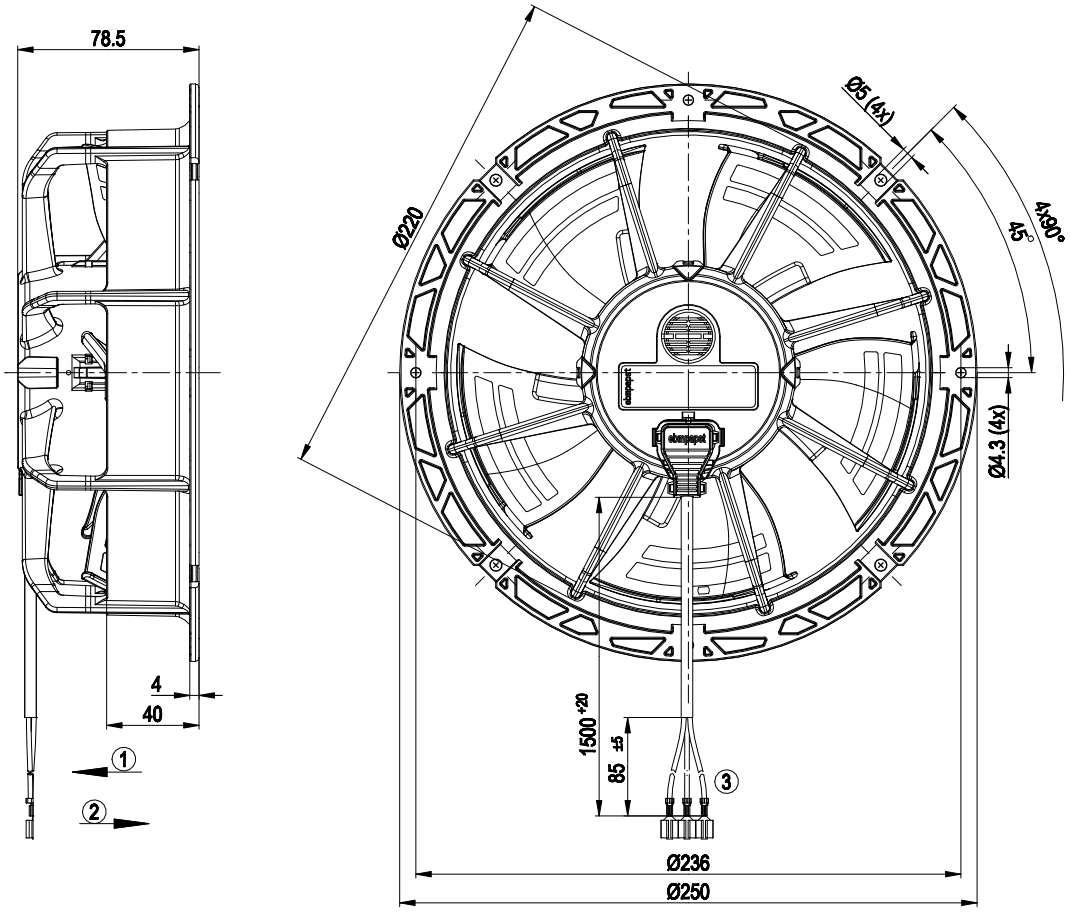
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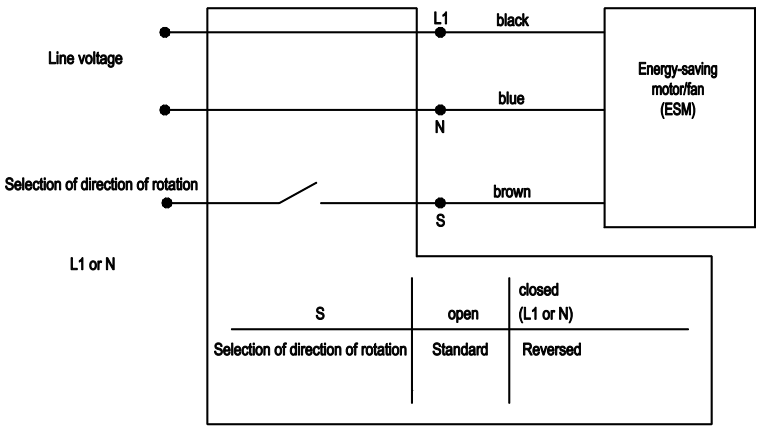
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Product drawing



1	Airflow direction "V", direction of rotation counterclockwise, 1400 rpm
2	Airflow direction "A", direction of rotation clockwise, 1600 rpm
3	Cable AWG20; 3x flat push-on receptacle 6.3x0.8, crimped

Connection diagram



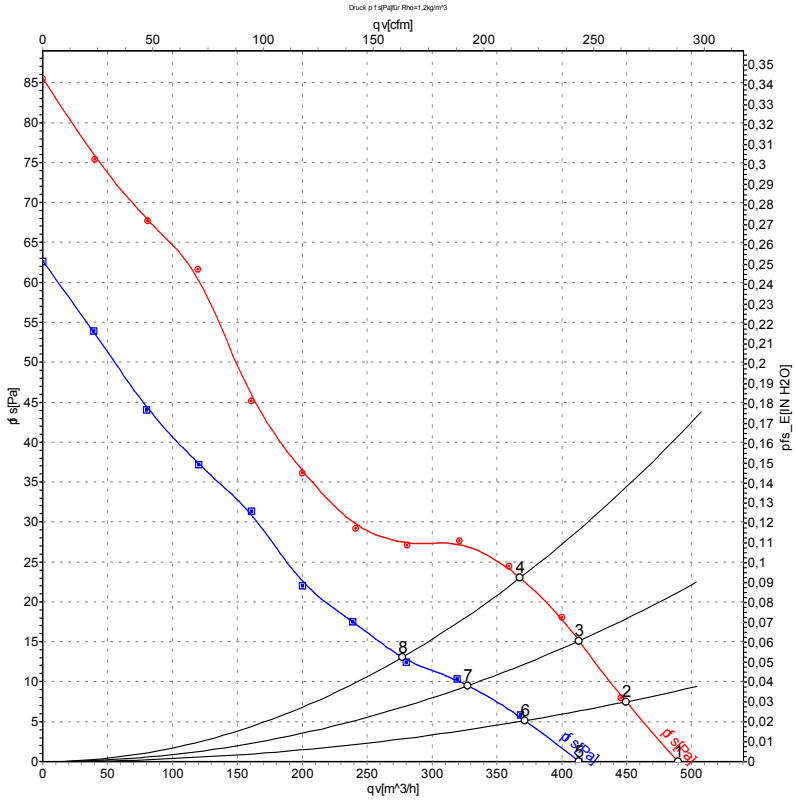
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Curves: Air performance 50 Hz



Measurement: LU-122923
Measurement: LU-122924

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

	Stage	U	f	n	P_{ed}	I	qv	p_{fs}
		V	Hz	min^{-1}	W	A	m^3/h	Pa
1	FV	230	50	1400	8.8	0.07	490	0
2	FV	230	50	1400	9.0	0.07	450	7
3	FV	230	50	1400	9.6	0.07	415	15
4	FV	230	50	1400	10.0	0.07	370	23
5	FA	230	50	1600	9.3	0.07	415	0
6	FA	230	50	1600	9.2	0.07	370	5
7	FA	230	50	1600	9.0	0.07	330	10
8	FA	230	50	1600	8.9	0.07	275	13

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

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