W1G200-EA91-06

EC axial fan

sickle-shaped blades (S series)

ESM fan housing

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Nominal data

Type	**W1G200-EA91-06**
Motor	**M1G055-BD**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50/60
Method of obtaining data		ml
Speed (rpm)	min^{-1}	1900
Power consumption	W	23
Current draw	A	0.18
Max. back pressure	Pa	40
Max. back pressure	inH2O	0.16
Min. ambient temperature	°C	-25
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 kg
Fan size	200 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	PP plastic
Number of blades	5
Direction of rotation	"V"
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	- Speed selection max./min. - 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)
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	<= 0.25 mA
With cable	Lateral
Protection class	I (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; UL 1004-3; VDE

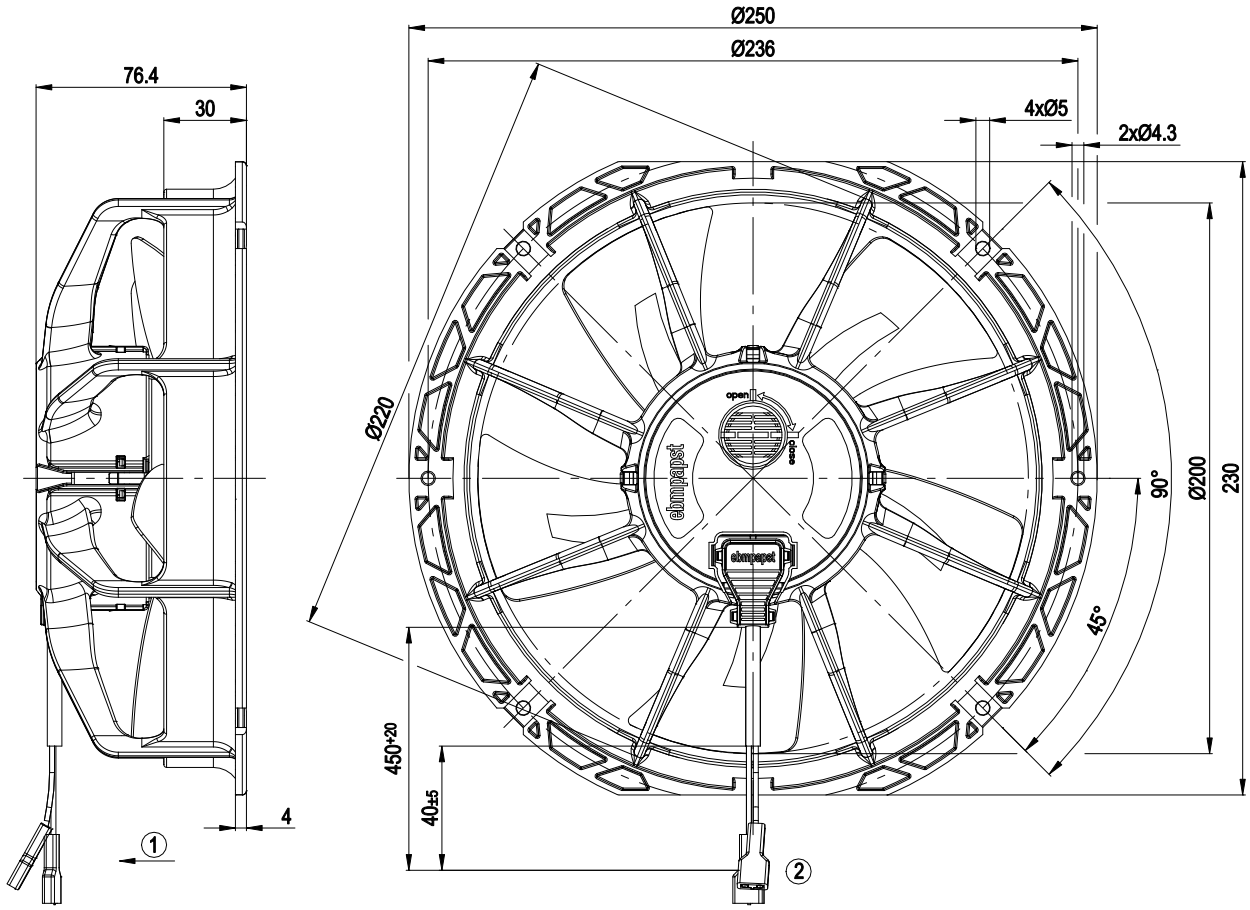
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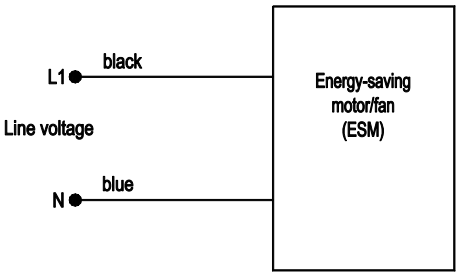
ESM fan housing

Product drawing



1	Direction of air flow "V"
2	Cable AWG20, 2x flat push-on receptacle 6.3 x 0.8 with connector housing crimped

Connection diagram



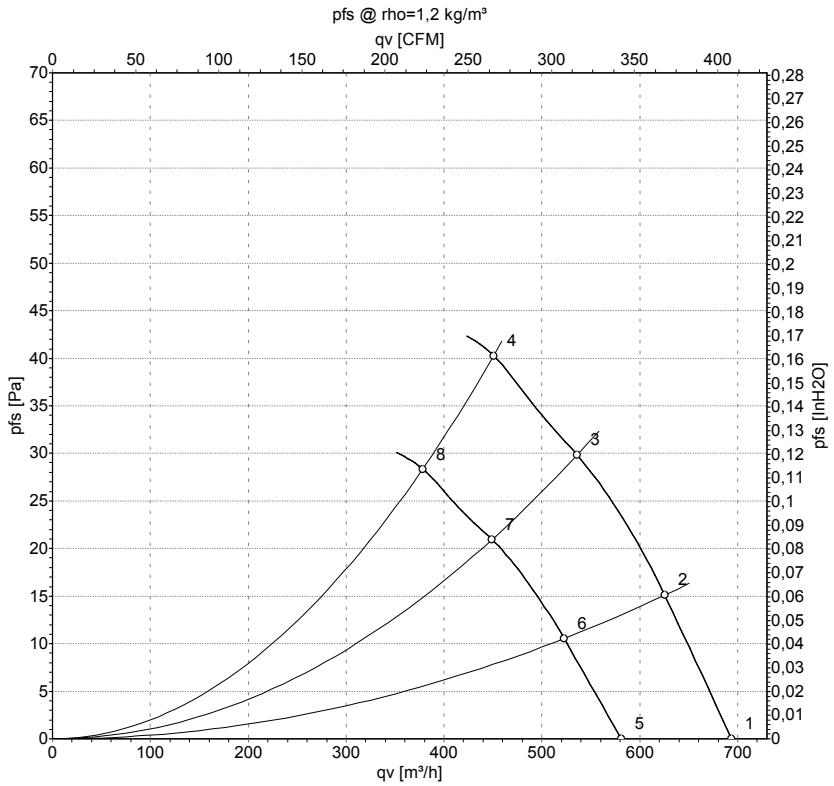
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Curves: Air performance 50 Hz



Measurement: LU-119096-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	230	50	1900	18	0.15	695	0	410	0.00
2	230	50	1900	21	0.16	625	15	370	0.06
3	230	50	1900	23	0.18	535	30	315	0.12
4	230	50	1900	23	0.18	450	40	265	0.16
5	230	50	1600	11	0.09	580	0	340	0.00
6	230	50	1600	12	0.10	525	11	310	0.04
7	230	50	1600	13	0.10	450	21	265	0.08
8	230	50	1600	14	0.11	380	29	220	0.12

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

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