W1G200-EA97-33

EC axial fan - ESM

sickle-shaped blades (S series)

ESM fan housing



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Nominal data

Type	**W1G200-EA97-33**	
Motor	**M1G055-BD**	
Nominal voltage	VAC	120
Nominal voltage range	VAC	115 .. 127
Frequency	Hz	50/60
Speed (rpm)	min^{-1}	1850
Power consumption	W	19
Current draw	A	0.26
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	0.99 kg
Fan size	200 mm
Rotor surface	Painted black
Blade material	Sheet steel, painted black
Fan housing material	Plastic, Polyfort FPP20T
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	- 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)	<= 3.5 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Lateral
Conformity with standards	CE
Approval	CSA C22.2 No. 77; UL 1004-3; VDE

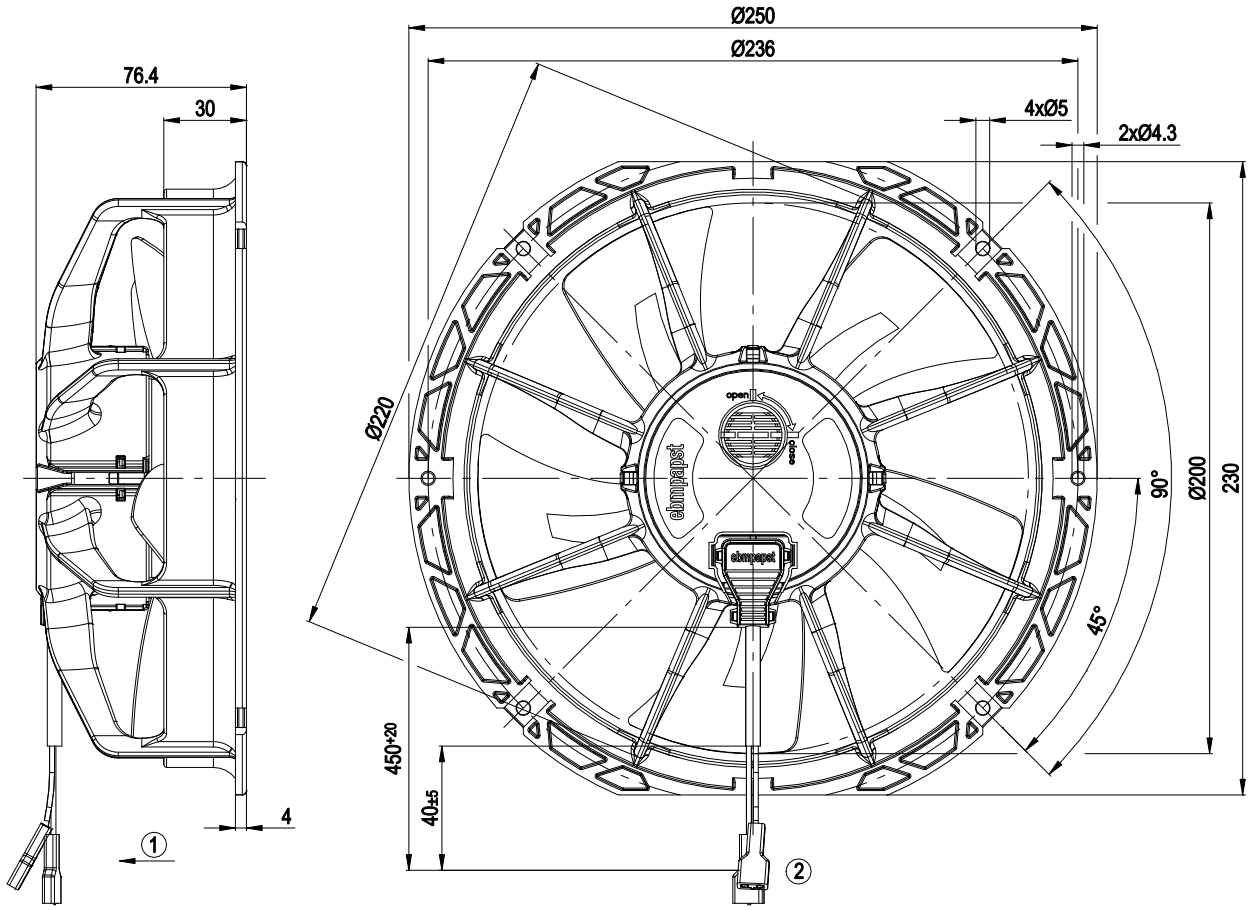
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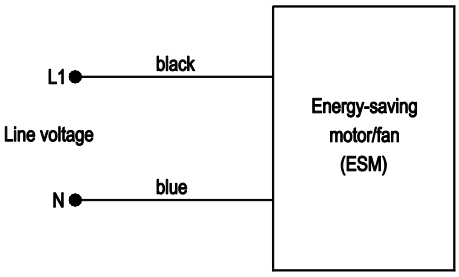
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Product drawing



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



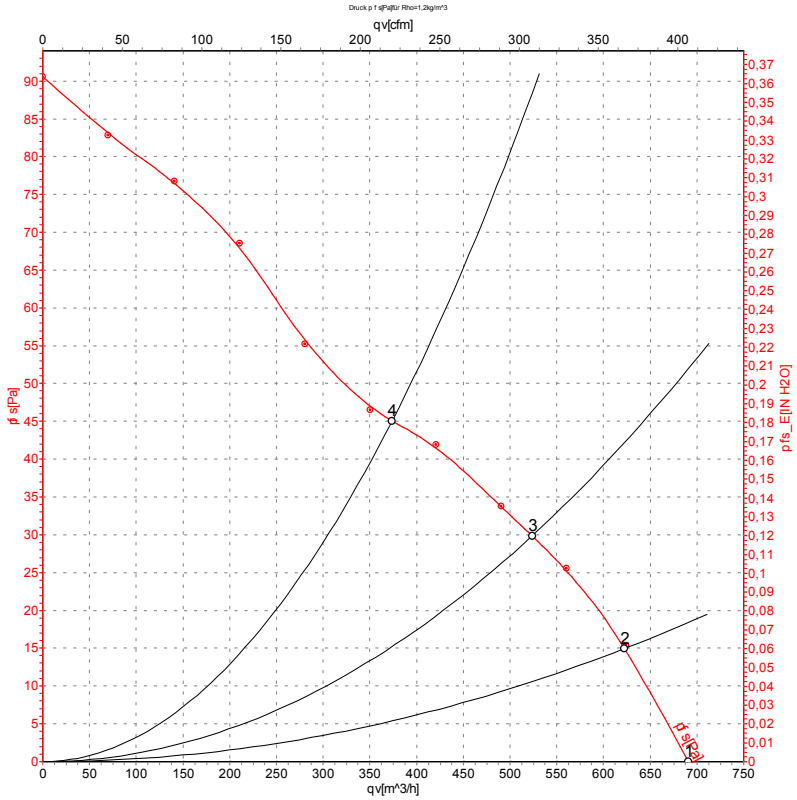
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Curves: Air performance 60 Hz



Measurement: LU-61865-1

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	120	60	1850	19	0.26	700	0	410	0.00
2	120	60	1850	19	0.28	620	15	365	0.06
3	120	60	1850	20	0.28	525	30	310	0.12
4	120	60	1850	21	0.29	375	45	220	0.18

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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