

S2E200-BI38-01

# AC axial fan

sickled blades (S series)

with guard grille for full nozzle

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## Nominal data

Type	S2E200-BI38-01		
Motor	M2E068-BF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Type of data definition		fa	fa
Valid for approval / standard		CE	CE
Speed	min <sup>-1</sup>	2600	2900
Power input	W	64	78
Current draw	A	0.3	0.34
Motor capacitor	µF	1.5	1.5
Capacitor voltage	VDB	450	450
Max. back pressure	Pa	150	150
Max. ambient temperature	°C	65	65
Starting current	A	0.55	0.54

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

<b>Mass</b>	1.75 kg
<b>Size</b>	200 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of blades</b>	Sheet steel, coated in black
<b>Material of guard grille</b>	Steel, phosphated and coated in black plastic
<b>Number of blades</b>	9
<b>Direction of air flow</b>	"A"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 44
<b>Insulation class</b>	"B"
<b>Humidity class</b>	F1-2
<b>Max. permissible ambient motor temp. (transp./ storage)</b>	+ 80 °C
<b>Min. permissible ambient motor temp. (transp./storage)</b>	- 40 °C
<b>Mounting position</b>	Shaft horizontal or rotor on bottom; rotor on top on request
<b>Condensate discharge holes</b>	Rotor-side
<b>Operation mode</b>	S1
<b>Motor bearing</b>	Ball bearing
<b>Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)</b>	< 0.75 mA
<b>Motor protection</b>	Thermal overload protector (TOP) wired internally
<b>Cable exit</b>	Variable
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1; CE
<b>Approval</b>	GOST

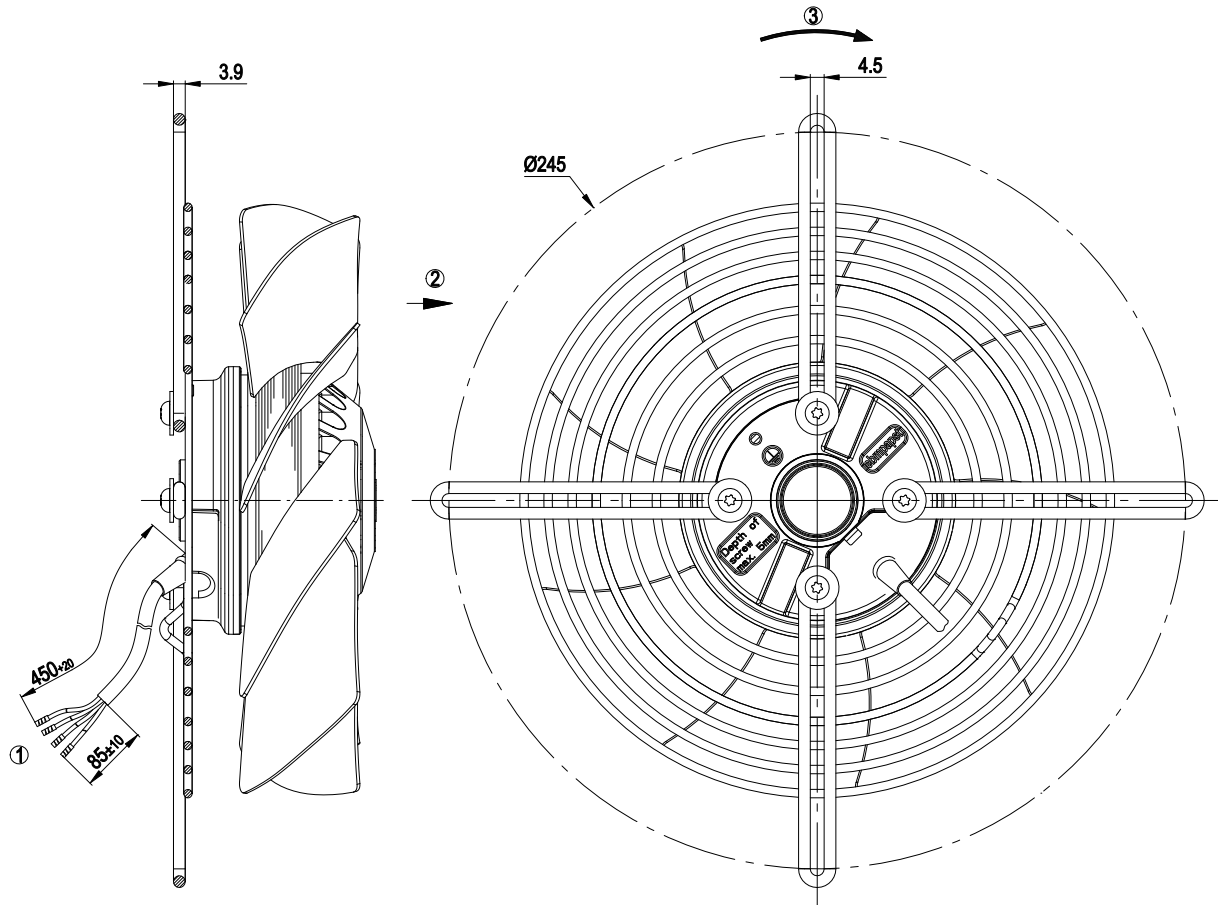


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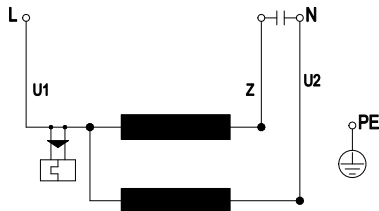
with guard grille for full nozzle

## Product drawing



- |   |   |
|---|---|
| 1 | Connecting line PVC, 4x brass lead tips crimped       |
| 2 | Direction of air flow "A"                             |
| 3 | Direction of rotation counterclockwise, seen on rotor |

## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

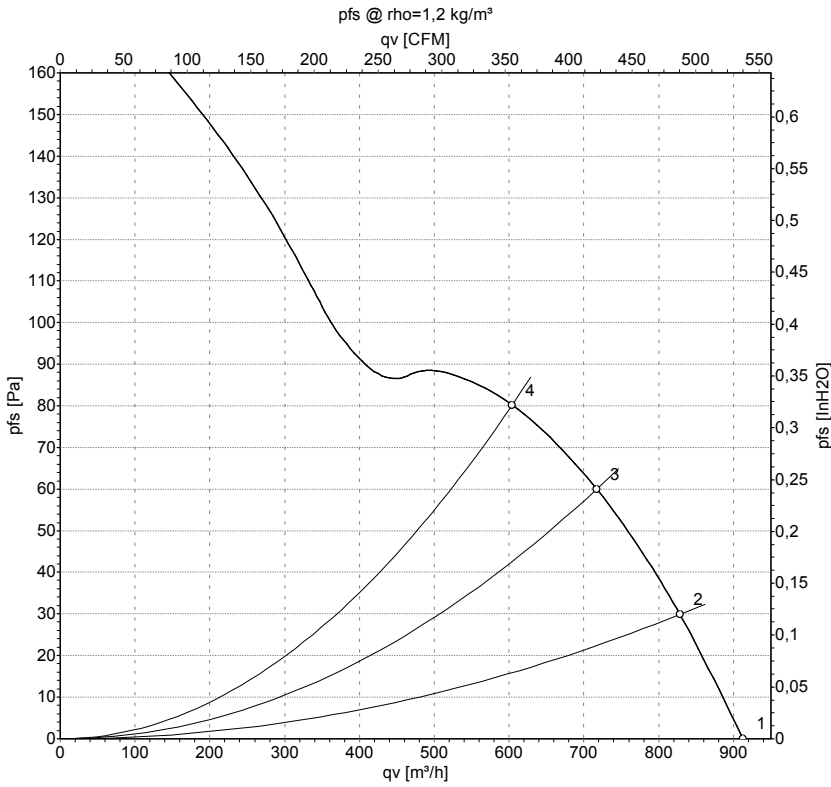


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## Charts: Air flow 50 Hz



Measurement: LU-26449

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: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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 <sub>e</sub>	I	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	50	2600	64	0.30	915	0
2	230	50	2560	66	0.30	830	30
3	230	50	2505	69	0.31	715	60
4	230	50	2465	70	0.32	605	80

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

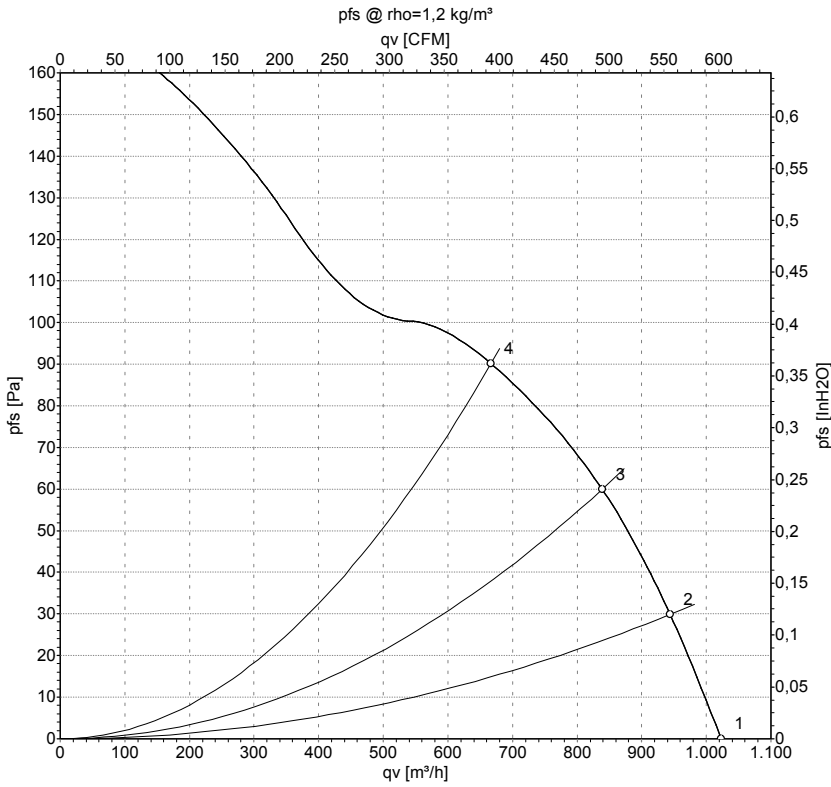


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## Charts: Air flow 60 Hz



Measurement: LU-26450

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: L<sub>wA</sub> measured as per ISO 13347 / L<sub>pA</sub> 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 <sub>e</sub>	I	qv	p <sub>fs</sub>
	V	Hz	min <sup>-1</sup>	W	A	m <sup>3</sup> /h	Pa
1	230	60	2900	78	0.34	1025	0
2	230	60	2850	80	0.34	945	30
3	230	60	2750	84	0.36	840	60
4	230	60	2670	86	0.37	665	90

U = Supply voltage · f = Frequency · n = Speed · P<sub>e</sub> = Power input · I = Current draw · qv = Air flow · p<sub>fs</sub> = Pressure increase

