

W4E315-CA05-51

# AC axial fan

sickled blades (S series), single inlet

Wall ring with guard grille

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## Nominal data

Type	W4E315-CA05-51	
Motor	M4E068-EC	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	60
Type of data definition		fa
Valid for approval / standard		-
Speed	min <sup>-1</sup>	1610
Power input	W	135
Current draw	A	0.60
Motor capacitor	µF	4
Capacitor voltage	VDB	400
Capacitor standard		P0 (CE)
Max. back pressure	Pa	80
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40

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>	4.8 kg
<b>Size</b>	315 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of blades</b>	Sheet steel, coated in black
<b>Material of wall ring</b>	Sheet steel, pre-galvanised and coated in black plastic (RAL 9005)
<b>Material of guard grille</b>	Steel, coated in black plastic (RAL9005)
<b>Number of blades</b>	5
<b>Direction of air flow</b>	"V"
<b>Direction of rotation</b>	Counter-clockwise, seen on rotor
<b>Type of protection</b>	IP 44; Depending on installation and position as per EN 60034-5
<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>	Lateral
<b>Protection class</b>	I (if protective earth is connected by customer)
<b>Product conforming to standard</b>	EN 60335-1
<b>Approval</b>	UL; CSA

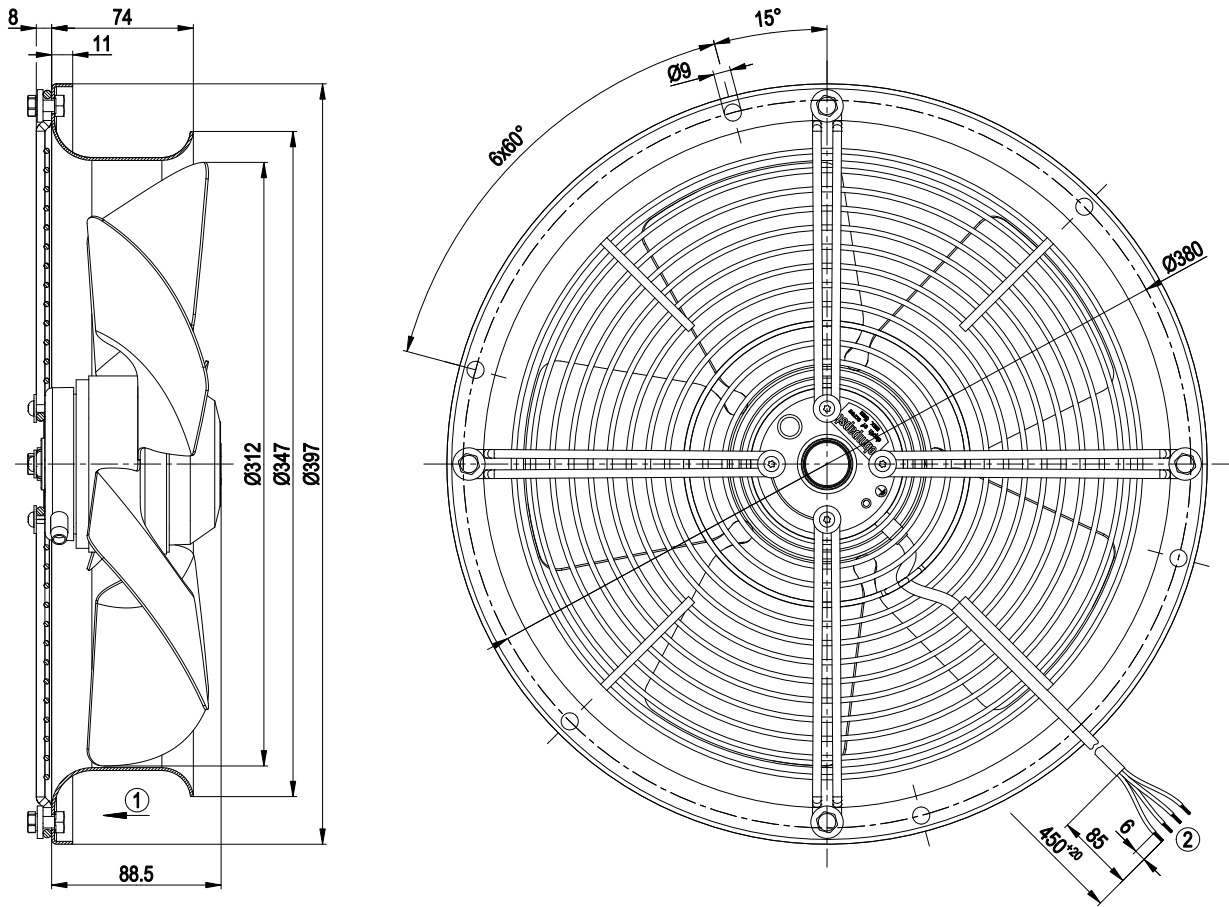


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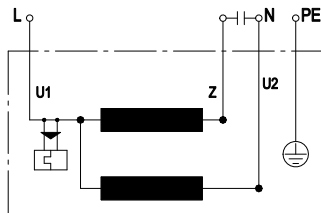
Wall ring with guard grille

## Product drawing



- |   |   |
|---|---|
| 1 | Direction of air flow "V"                       |
| 2 | Connection line PVC AWG20, 4x lead tips crimped |

## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

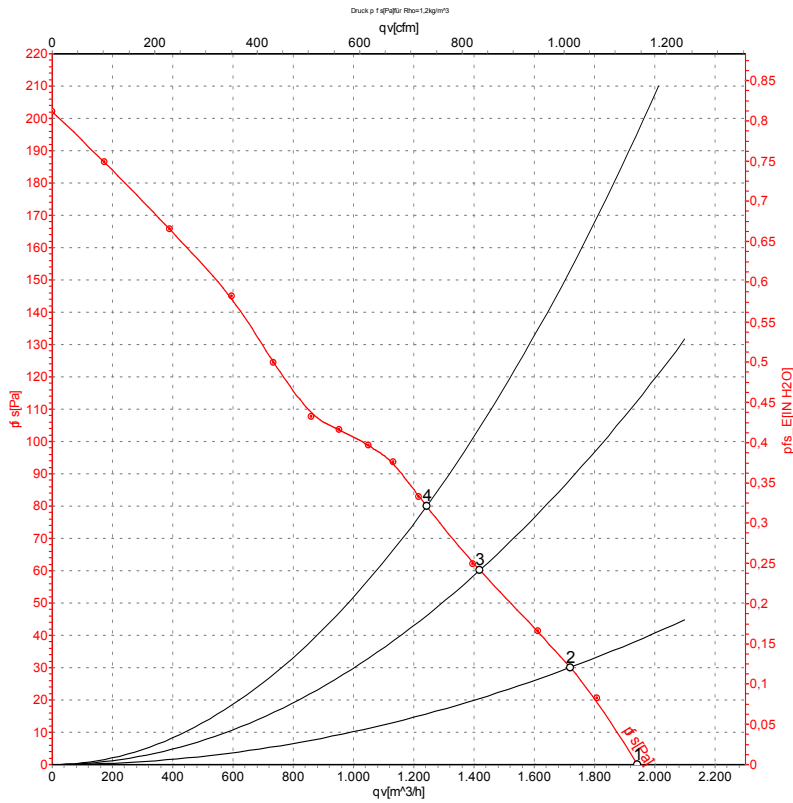


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## Charts: Air flow 50 Hz



Measurement: LU-56449

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	1400	120	0.53	1940	0
2	230	50	1380	122	0.54	1720	30
3	230	50	1370	124	0.55	1420	60
4	230	50	1355	130	0.57	1240	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

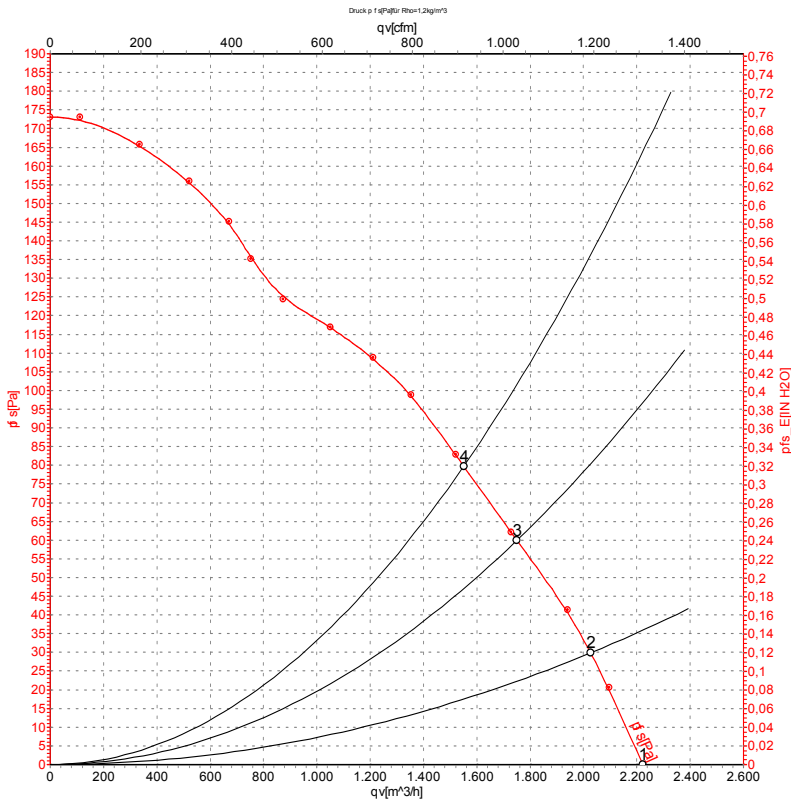


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## Charts: Air flow 60 Hz



Measurement: LU-56450

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	1610	135	0.60	2220	0
2	230	60	1570	138	0.60	2025	30
3	230	60	1550	142	0.62	1750	60
4	230	60	1540	144	0.63	1550	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

