

# AC axial fan

straight blades (A series)

Wall ring with guard grille

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## Nominal data

<b>Type</b>	<b>W2E250-DB13-51</b>		
<b>Motor</b>	<b>M2E068-DF</b>		
Phase		1~	1~
Nominal voltage	VAC	115	115
Frequency	Hz	60	60
Type of data definition		fa	fa
Valid for approval / standard		UL 2111	CE
Speed	min <sup>-1</sup>	2650	2650
Power input	W	180	173
Current draw	A	1.49	1.43
Motor capacitor	µF	12	12
Capacitor voltage	VDB	220	220
Capacitor standard		UL	-
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	-	-

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

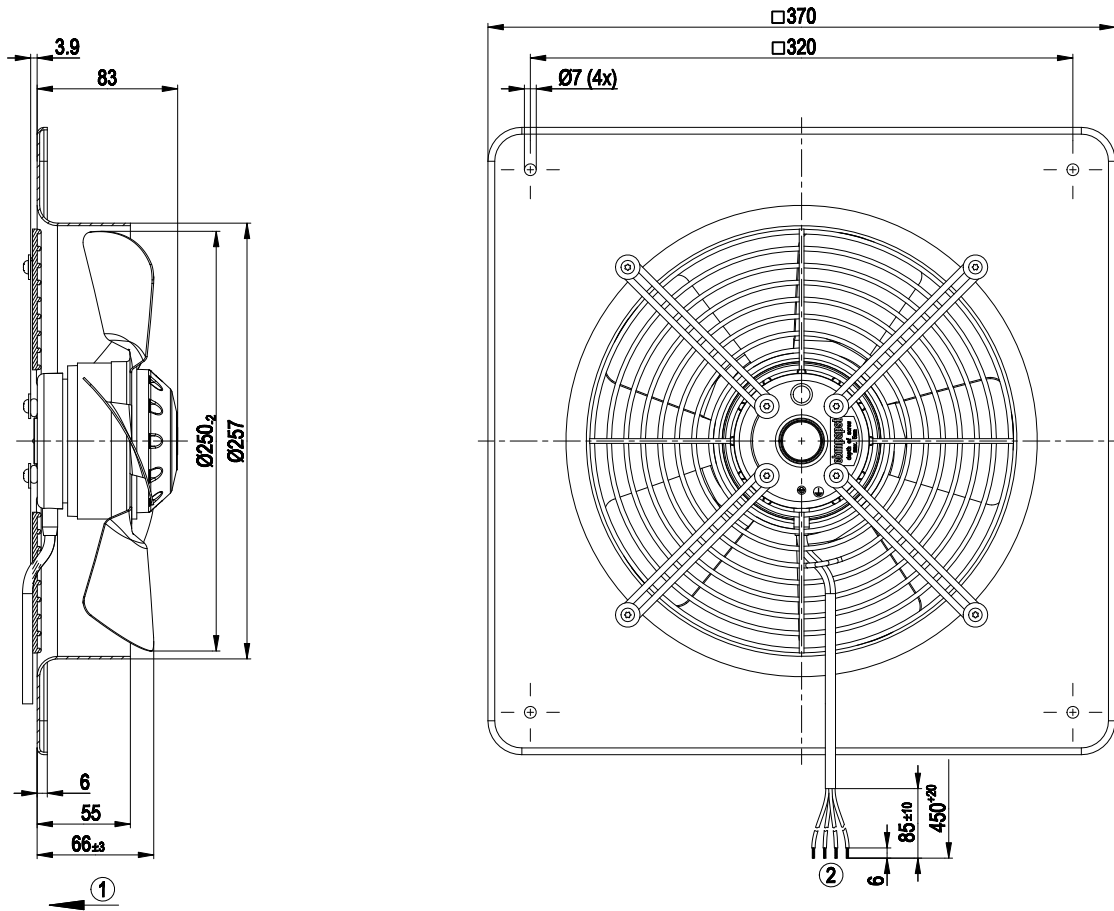
<b>Mass</b>	4 kg
<b>Size</b>	250 mm
<b>Surface of rotor</b>	Coated in black
<b>Material of impeller</b>	Sheet steel, coated in black
<b>Material of wall ring</b>	Sheet steel, galvanised and coated in black plastic (RAL 9005)
<b>Material of guard grille</b>	Steel, coated in black plastic (RAL9005)
<b>Number 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; CE
<b>Approval</b>	UL 507; CSA C22.2 Nr.113



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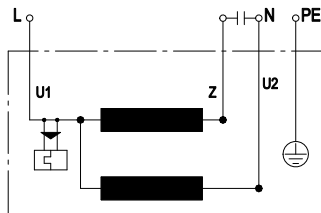
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## Product drawing



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

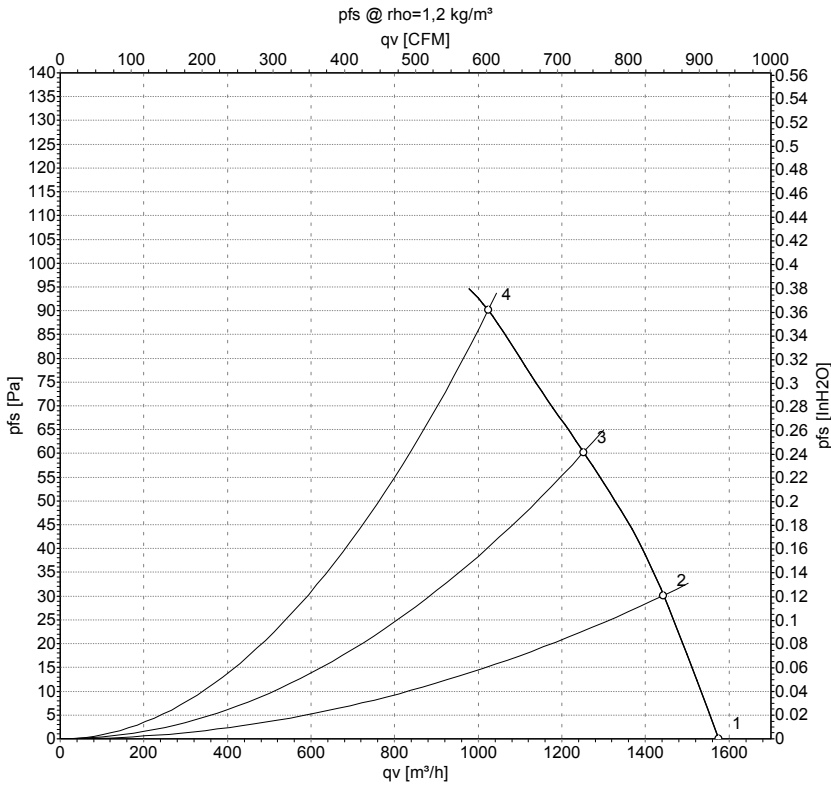
## Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				



Charts: Air flow 60 Hz



Measurement: LU-150616

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: LwA measured as per ISO 13347 / LpA 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	110	60	2450	145	1.32	1575	0
2	110	60	2360	149	1.35	1445	30
3	110	60	2290	152	1.38	1250	60
4	110	60	2260	154	1.39	1025	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

