

AC axial fan

straight blades (A series)

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Nominal data

Type	A2E250-AE31-16	
Motor	M2E068-DF	
Phase		1~
Nominal voltage	VAC	115
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed	min ⁻¹	2500
Power input	W	115
Current draw	A	1.02
Motor capacitor	µF	12
Capacitor voltage	VDB	220
Capacitor standard		P2 (CE)
Max. back pressure	Pa	150
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	80
Starting current	A	0.76

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



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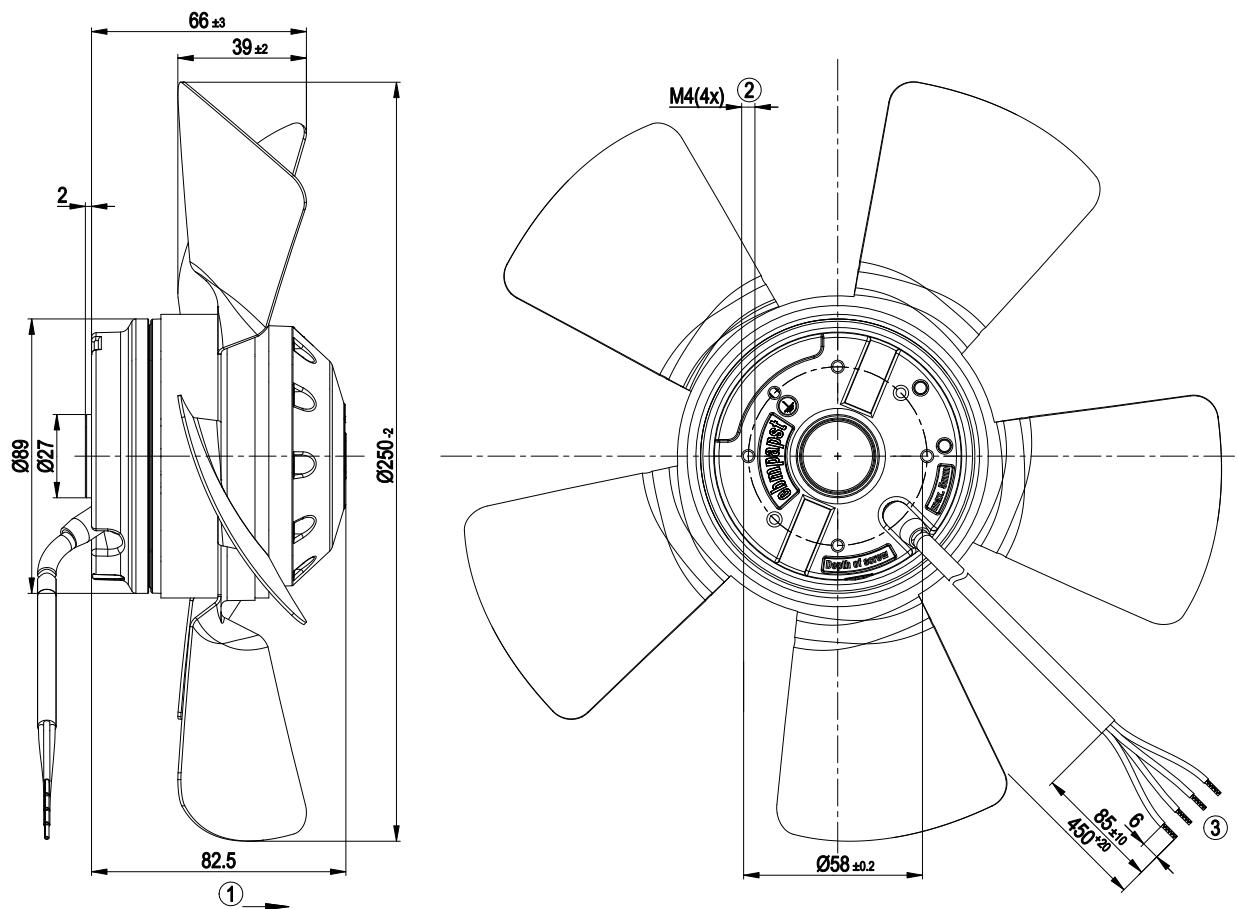
Technical features

Mass	2.2 kg
Size	250 mm
Surface of rotor	Coated in black
Material of blades	Sheet steel, galvanised
Number of blades	5
Direction of air flow	"A"
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensate discharge holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) wired internally
Cable exit	Lateral
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	UL 2111; CSA C22.2 Nr.77



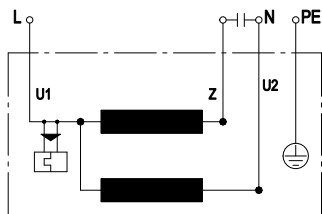
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Product drawing



- | | |
|---|---|
| 1 | Direction of air flow "A" |
| 2 | Depth of screw max. 5 mm |
| 3 | Connection line PVC 4G 0.5 mm ² , 4x brass lead tips crimped |

Connection screen



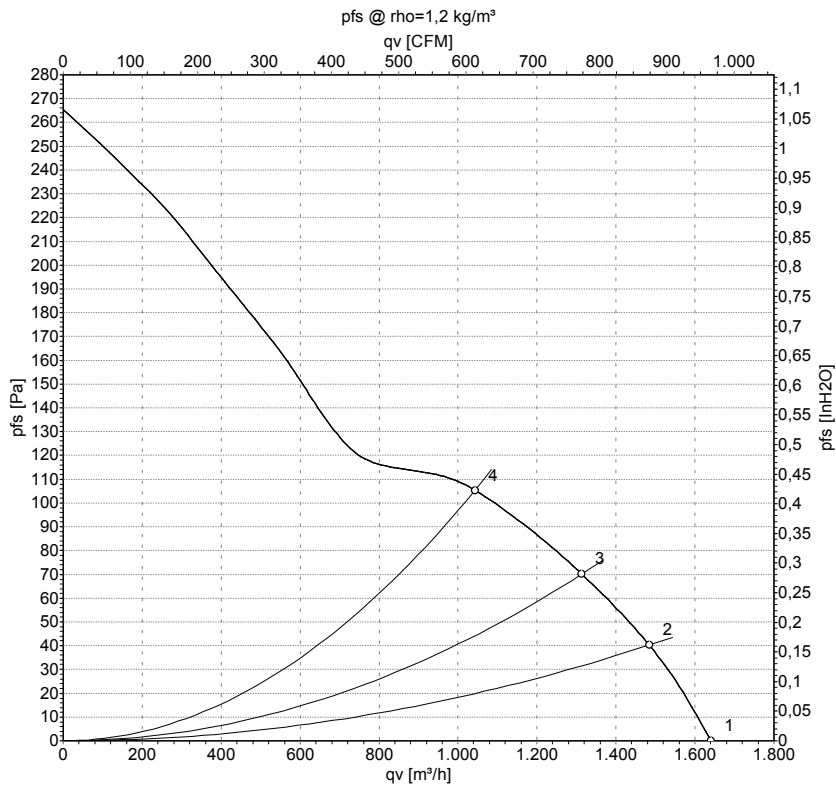
U1	blue	Z	brown	U2	black
PE	green/yellow				



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Charts: Air flow 50 Hz



Measurement: LU-56499

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_{wA} measured as per ISO 13347 /
 L_{pA} 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_e	I	q_v	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa
1	115	50	2500	115	1.02	1640	0
2	115	50	2470	119	1.04	1485	40
3	115	50	2440	122	1.07	1315	70
4	115	50	2425	124	1.09	1045	105

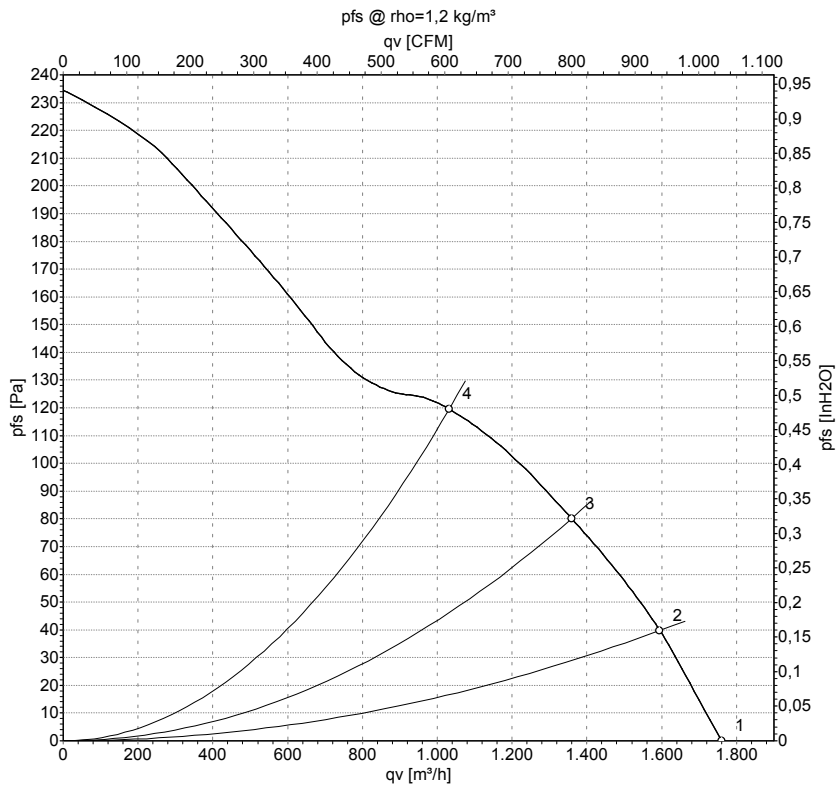
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-56498

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 _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	115	60	2690	160	1.40	1760	0
2	115	60	2620	163	1.42	1595	40
3	115	60	2550	166	1.44	1360	80
4	115	60	2525	166	1.45	1030	120

U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase

