R2E250-AX47-11

AC centrifugal fan

backward curved, single inlet

R2E250-AX47-11 ebmpapst Datasheet
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Nominal data

Type	**R2E250-AX47-11**
Motor	**M2E068-EC**

Phase		1~
Nominal voltage	VAC	240
Frequency	Hz	50
Type of data definition		fa
Valid for approval / standard		CE
Speed (rpm)	min^{-1}	2600
Power input	W	175
Current draw	A	0.74
Motor capacitor	µF	5
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Max. ambient temperature	°C	75
Starting current	A	1.8

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	3.4 kg
Size	250 mm
Surface of rotor	Coated in black
Material of impeller	Sheet steel, coated in black
Number of blades	11
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	F2-2
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	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1

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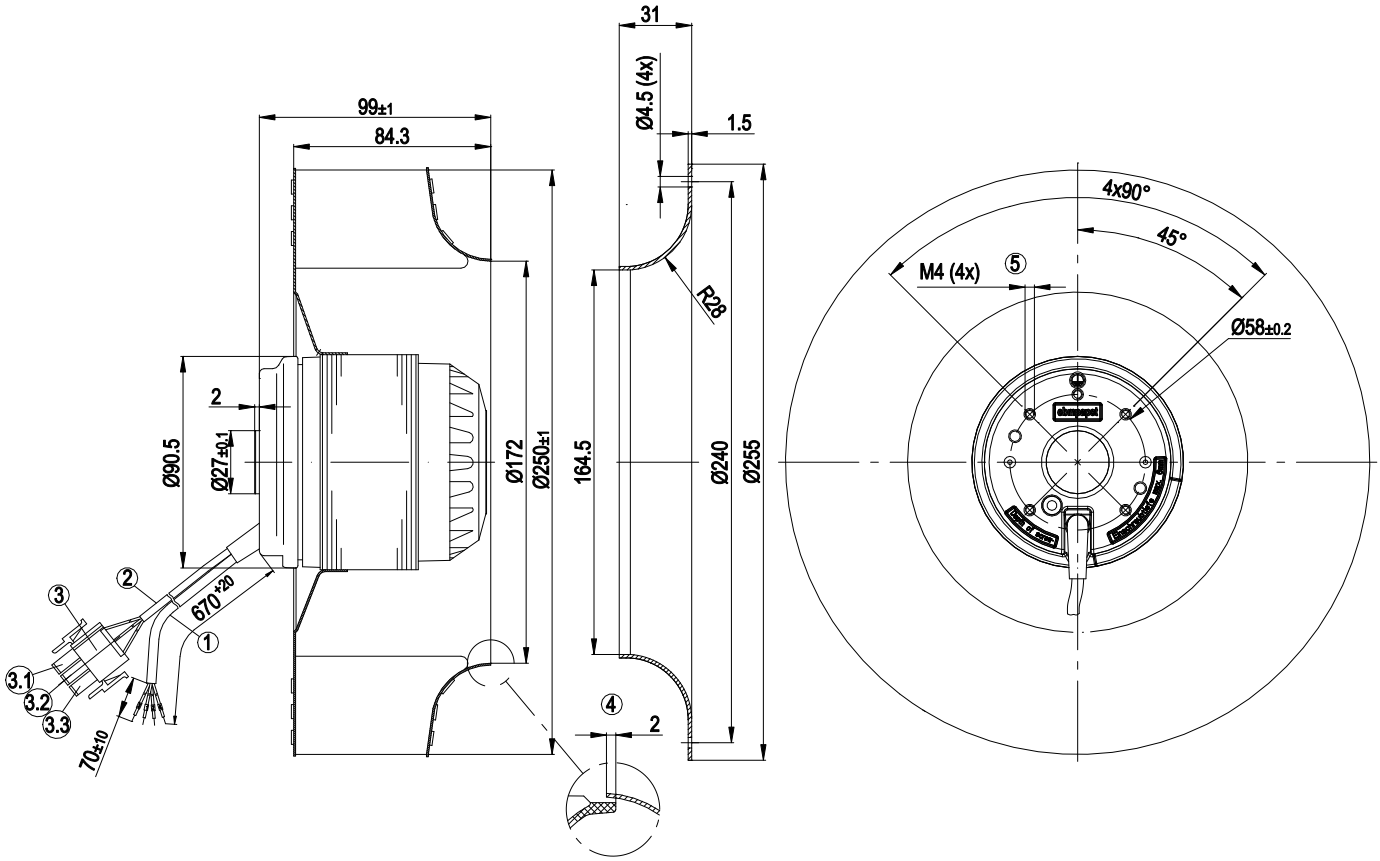
Product drawing



1	Connection line halogen- and silicone-free, 4 x 0.5 mm², lead tips 6 mm bared
2	Control line AWG26
3	Connector housing AMP no. 350 766-4 with plug pin (3x) AMP no. 926 885-1
3.1	black
3.2	white
3.3	red
4	Accessory part: Inlet nozzle 96359-2-4013, not included in the standard scope of delivery.
5	Depth of screw max. 6 mm

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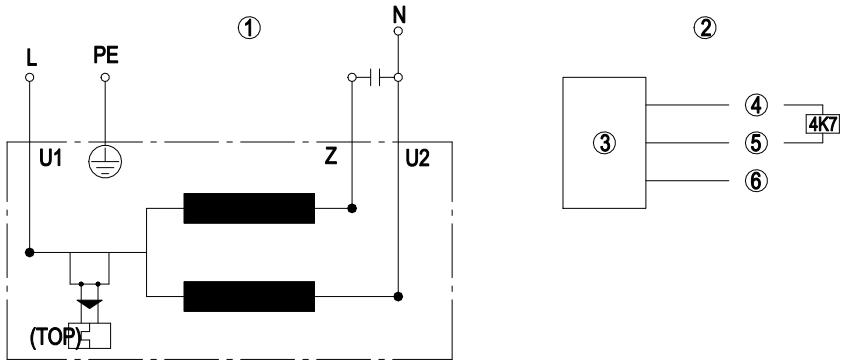
Connection screen



1	Fan connection diagram
TOP	Thermal overload protector
U1	blue
Z	brown
U2	black
PE	green/yellow
2	Hall IC circuit
3	Fan
4	Red (+5V)
5	White (out)
6	Black (0V)

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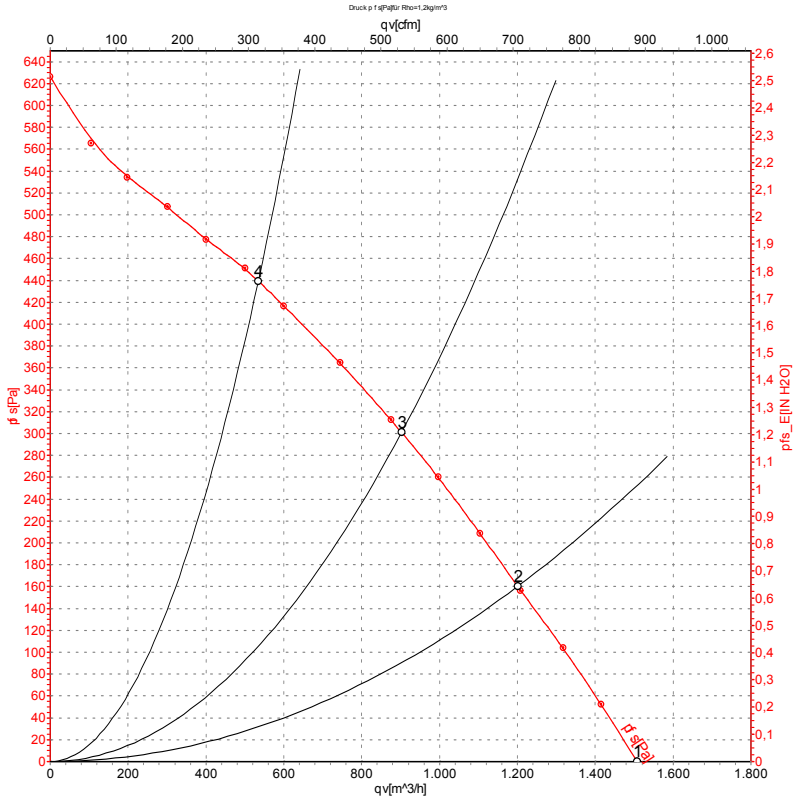
Charts: Air flow 50 Hz



Measurement: LU-60117-1

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	q_V	p_{fs}	q_V	p_{fs}
	V	Hz	min^{-1}	W	A	m^3/h	Pa	cfm	inH2O
1	240	50	2600	175	0.74	1510	0	890	0.00
2	240	50	2525	203	0.85	1200	160	705	0.64
3	240	50	2480	216	0.90	905	300	530	1.20
4	240	50	2520	204	0.85	535	440	315	1.77

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