R2E250-AW50-05

AC diagonal fan

backward curved, single inlet

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Nominal data

Type	**R2E250-AW50-05**
Motor	**M2E068-EC**

Phase		1~
Nominal voltage	[V]	230
Frequency	[Hz]	50
Type of data definition		rfa
Valid for approval / standard		CE
Speed	[min^{-1}]	2650
Power input	[W]	185
Current draw	[A]	0.81
Motor capacitor	[µF]	6
Capacitor voltage	[VDB]	400
Capacitor standard		P0 (CE)
Min. back pressure	[Pa]	0
Max. ambient temperature	[°C]	50

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

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Technical features

Leackage current	< 0.75 mA
Size	250 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Humidity class	F5
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Motor bearing	Ball bearing
Mass	3.1 kg
Material of impeller	Aluminium sheet, coated in black
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE; EN 60335-1
Number of blades	11
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC

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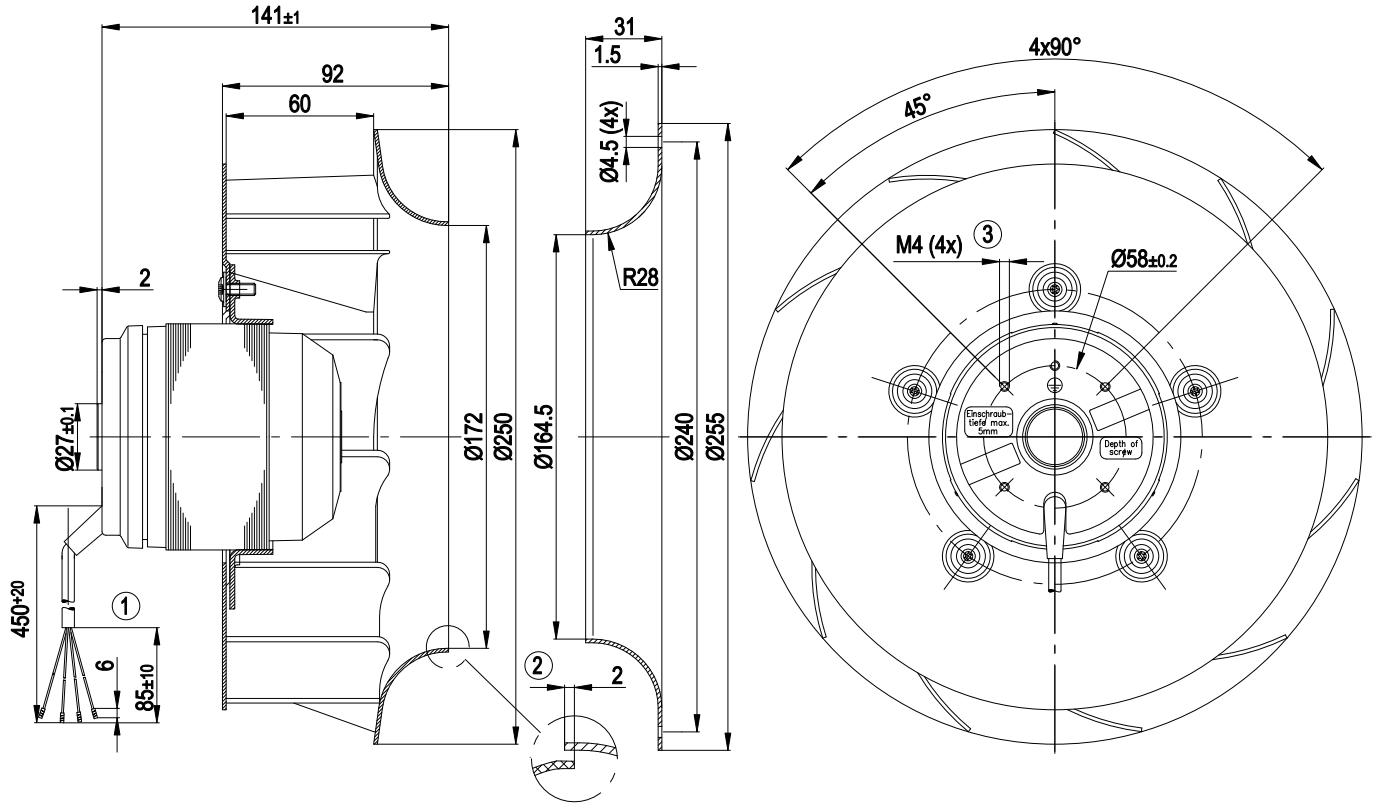
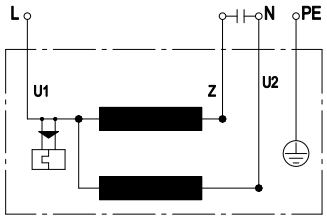
Product drawing



1	Connection line PVC 4G 0.5 mm², 4 x brass lead tips crimped
2	Accessory part: Inlet nozzle 96359-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 5 mm

Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

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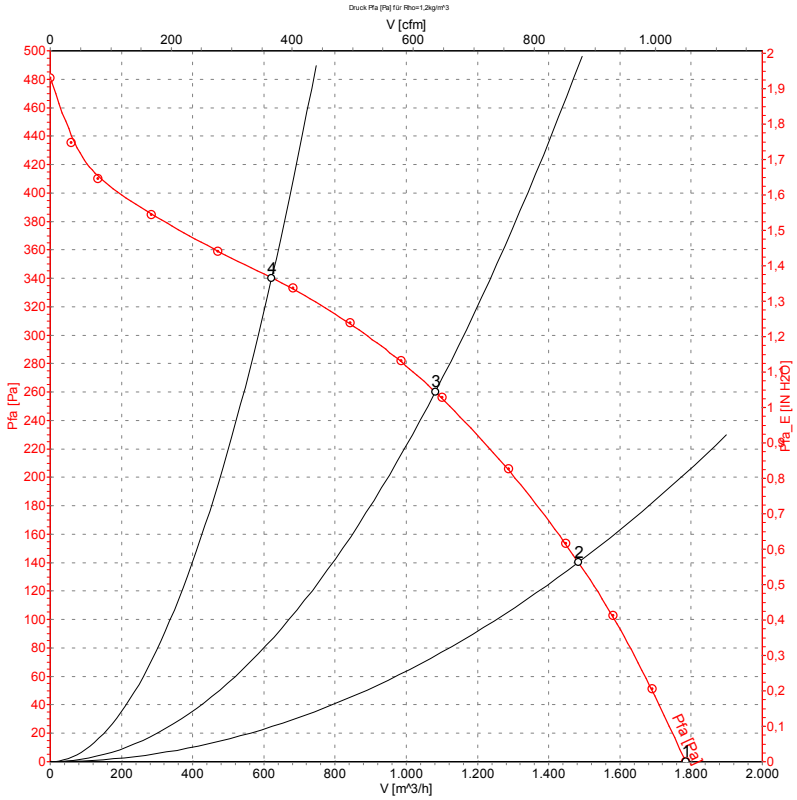
Charts: Air flow 50 Hz



Measurement: LU-50465

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_1	I	$\dot{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	230	50	2650	185	0.81	1785	0
2	230	50	2550	210	0.91	1485	140
3	230	50	2500	222	0.96	1080	260
4	230	50	2575	201	0.87	620	340

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