R2E225-AT51-05

AC centrifugal fan

backward curved, single inlet

R2E225-AT51-05 ebmpapst Datasheet
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Nominal data

Type	**R2E225-AT51-05**		
Motor	**M2E068-DF**		
Phase		1~	1~
Nominal voltage	[V]	230	230
Frequency	[Hz]	50	60
Type of data definition		rfa	rfa
Valid for approval / standard		CE	CE
Speed	[min^{-1}]	2650	2950
Power input	[W]	105	145
Current draw	[A]	0.46	0.64
Motor capacitor	[µF]	3	3
Capacitor voltage	[VDB]	450	450
Min. back pressure	[Pa]	0	0
Max. ambient temperature	[°C]	55	55

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	225 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	F1-2
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Motor bearing	Ball bearing
Mass	2.1 kg
Material of impeller	PA plastic 6, fibreglass-reinforced
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE; EN 60335-1
Surface of rotor	Coated in black
Number of blades	11
Type of protection	IP 44
Protection class	I
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Approval	CCC; GOST

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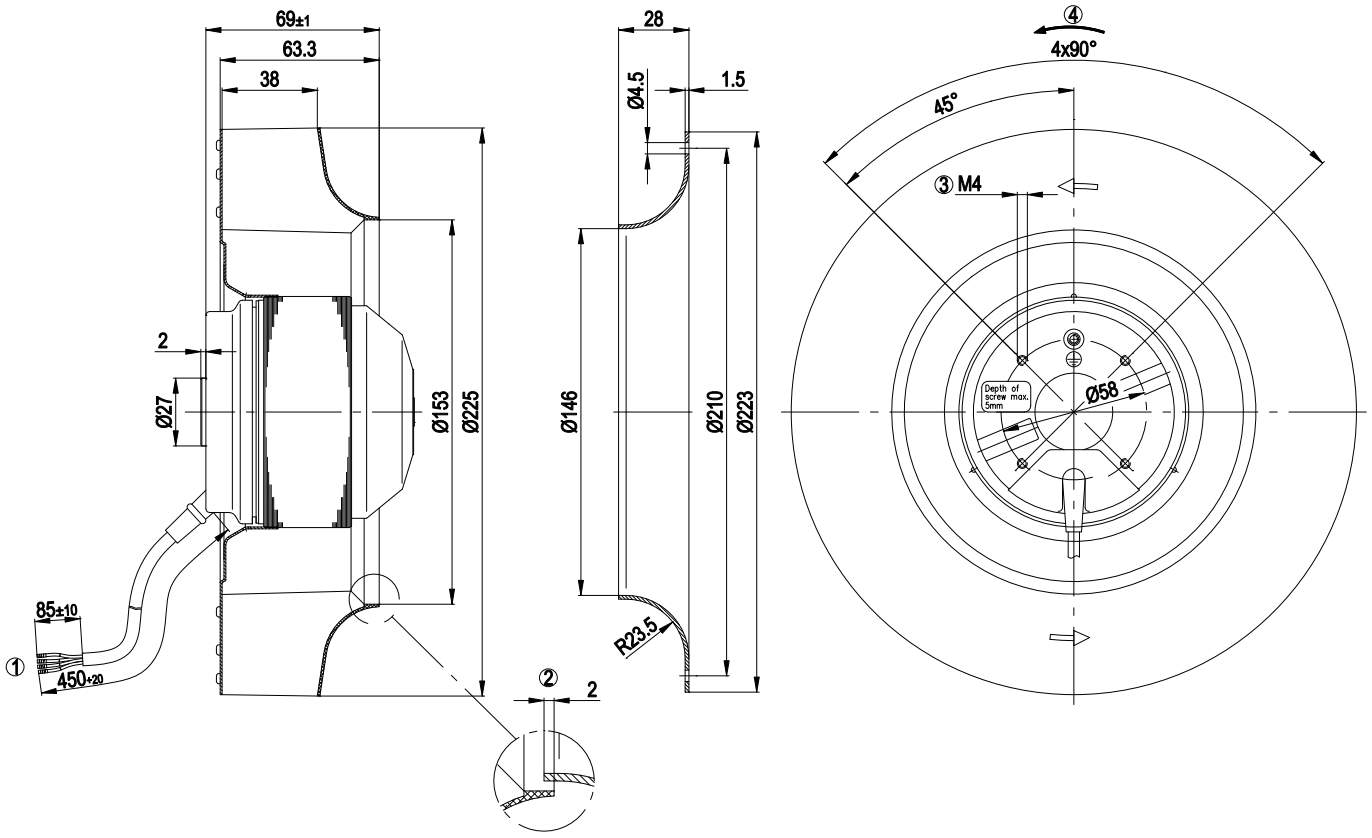
Product drawing



1	Connection line PVC, 4x brass lead tips crimped
2	Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery
3	Screw depth max. 5 mm
4	Direction of rotation clockwise, seen on rotor

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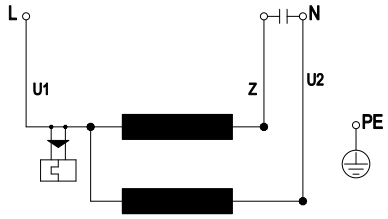
Connection screen



U1	blue	Z	brown	U2	black
PE	green/yellow				

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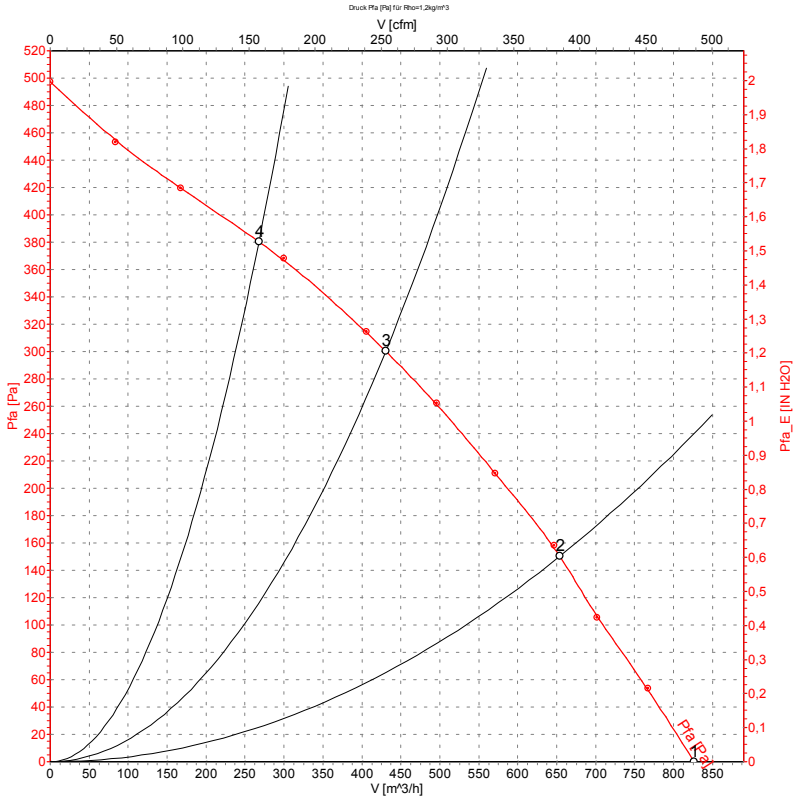
Charts: Air flow 50 Hz



Measurement: LU-57249

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	2680	105	0.46	825	0
2	230	50	2595	111	0.49	655	152
3	230	50	2585	112	0.50	430	300
4	230	50	2650	103	0.46	270	381

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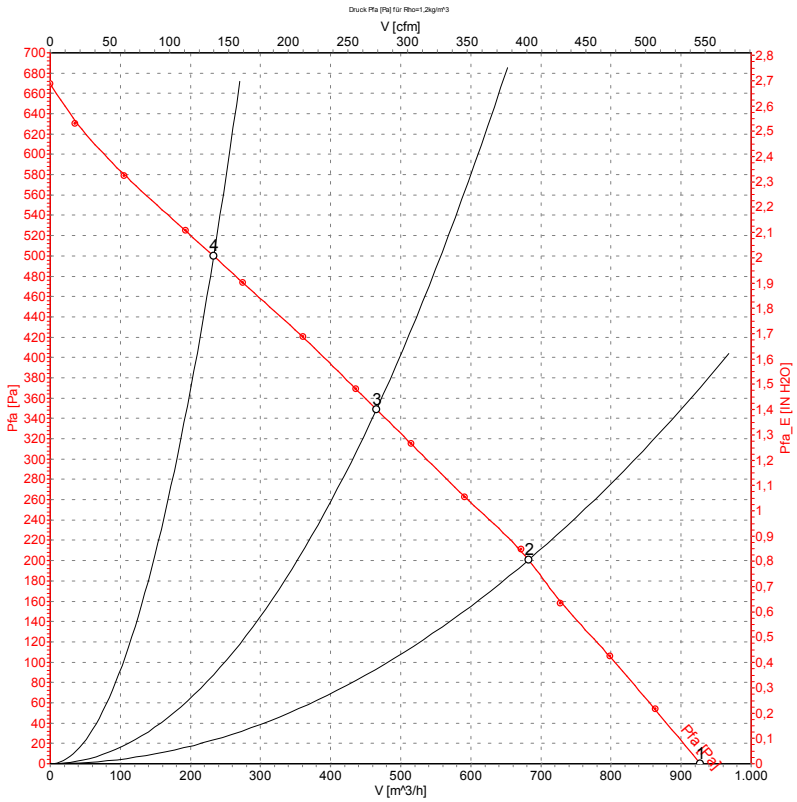
Charts: Air flow 60 Hz



Measurement: LU-57251

Measured values

	U	f	n	P_1	I	$\dot{V}$	p_{fa}
	[V]	[Hz]	[min^{-1}]	[W]	[A]	[m^3/h]	[Pa]
1	230	60	2990	145	0.64	925	0
2	230	60	2805	155	0.67	680	202
3	230	60	2790	155	0.67	465	349
4	230	60	2990	138	0.60	235	500