

AC centrifugal fan

backward curved, single inlet



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Nominal data

Type	R2E225-AT51-14			
Motor	M2E068-DF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL 2111
Speed	min ⁻¹	2650	2950	2950
Power input	W	105	145	155
Current draw	A	0.46	0.64	0.66
Motor capacitor	µF	3	3	3
Capacitor voltage	VDB	450	450	450
Min. back pressure	Pa	0	0	0
Max. ambient temperature	°C	40	55	55
Starting current	A	1.05	1.04	1.04

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



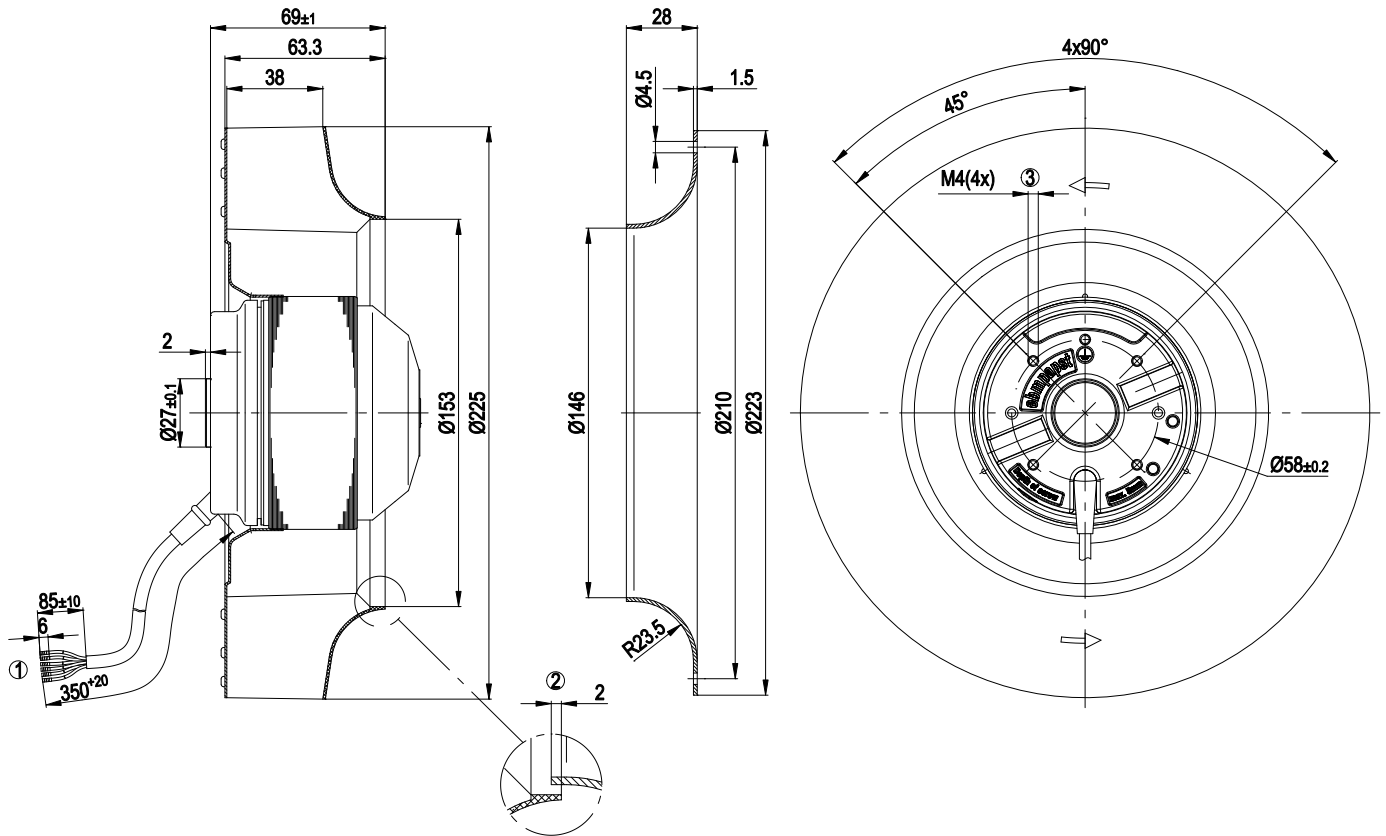
Technical features

Mass	2.34 kg
Size	225 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA6, fibreglass-reinforced
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	"B"
Humidity class	F1-2
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) brought out
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE
Approval	CCC; UL 2111; CSA C22.2 Nr.77

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Product drawing

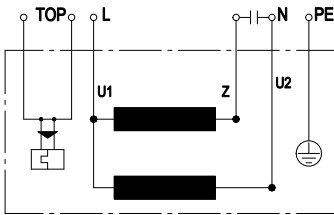


- | | |
|---|---|
| 1 | Connection line PVC 6G AWG20, 4x brass lead tips crimped |
| 2 | Accessory part: Inlet nozzle 96358-2-4013, not included in the standard scope of delivery |
| 3 | Depth of screw max. 5 mm |
| | Capacitor 94773-4-7320 (3μF 400VDB) is included separately |

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Connection screen



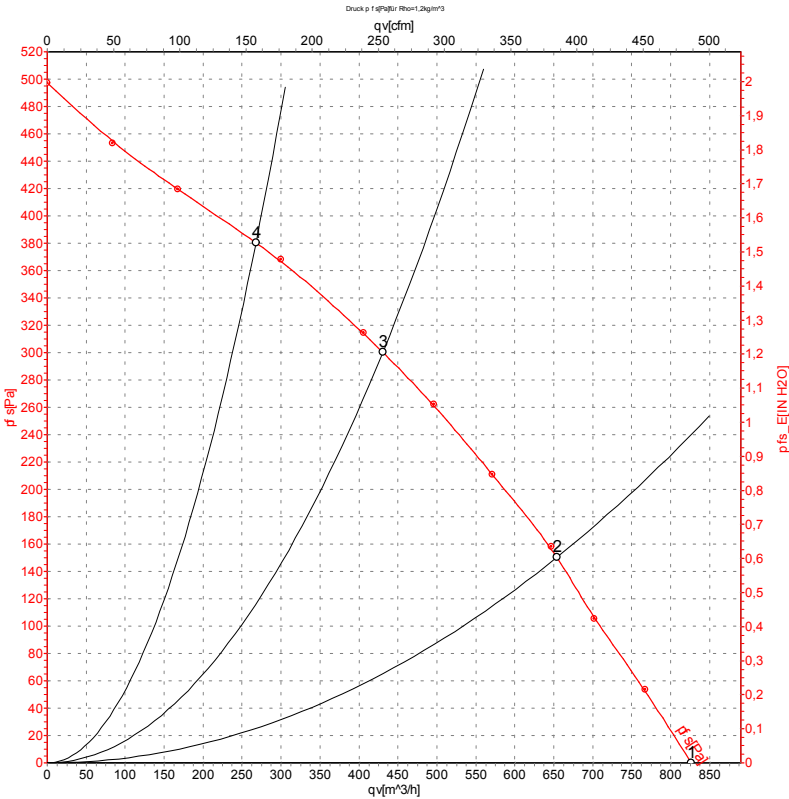
U1	blue	Z	brown	U2	black
PE	green/yellow	TOP	2 x white		



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Charts: Air flow 50 Hz



Measurement: LU-57249

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	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2650	105	0.46	825	0
2	230	50	2595	111	0.49	655	150
3	230	50	2585	112	0.50	430	300
4	230	50	2650	103	0.46	270	380

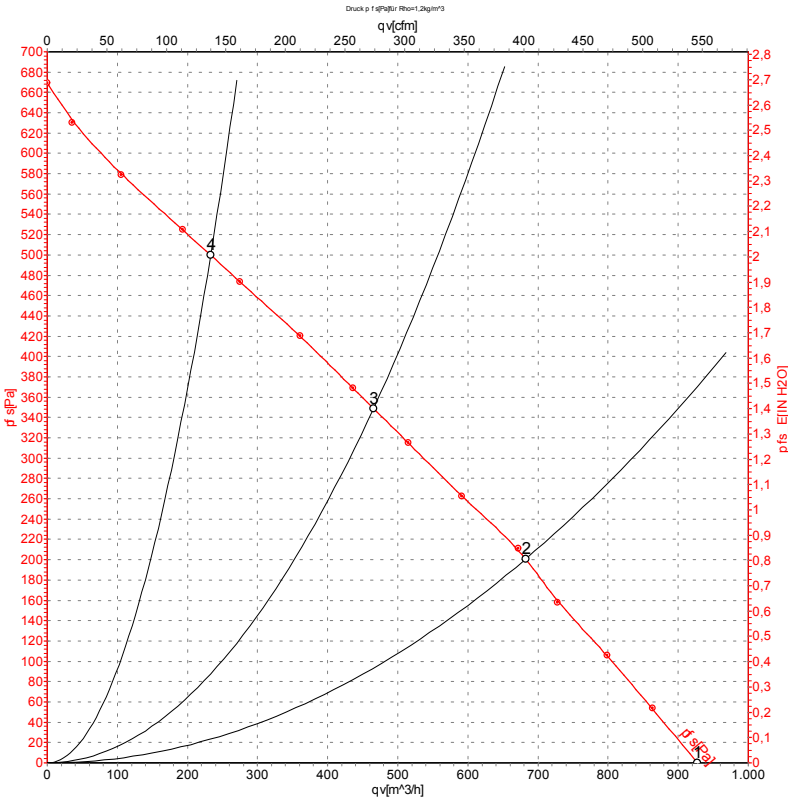
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · qv = Air flow · p_{fs} = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-57251

Air performance measured as per ISO 5801
Installation category A. For detailed
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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	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	60	2950	145	0.64	925	0
2	230	60	2805	155	0.67	680	200
3	230	60	2790	155	0.67	465	350
4	230	60	2990	138	0.60	235	500

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

