

R2E210-AA34-05

AC centrifugal fan

backward curved, single inlet
for solid fuel heating systems

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Nominal data

Type	R2E210-AA34-05	
Motor	M2E068-DF	
Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		rfa
Valid for approval / standard		CE
Speed	min ⁻¹	2550
Power input	W	100
Current draw	A	0.45
Motor capacitor	µF	2
Capacitor voltage	VDB	450
Capacitor standard		P0 (CE)
Min. back pressure	Pa	0
Max. ambient temperature	°C	90

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

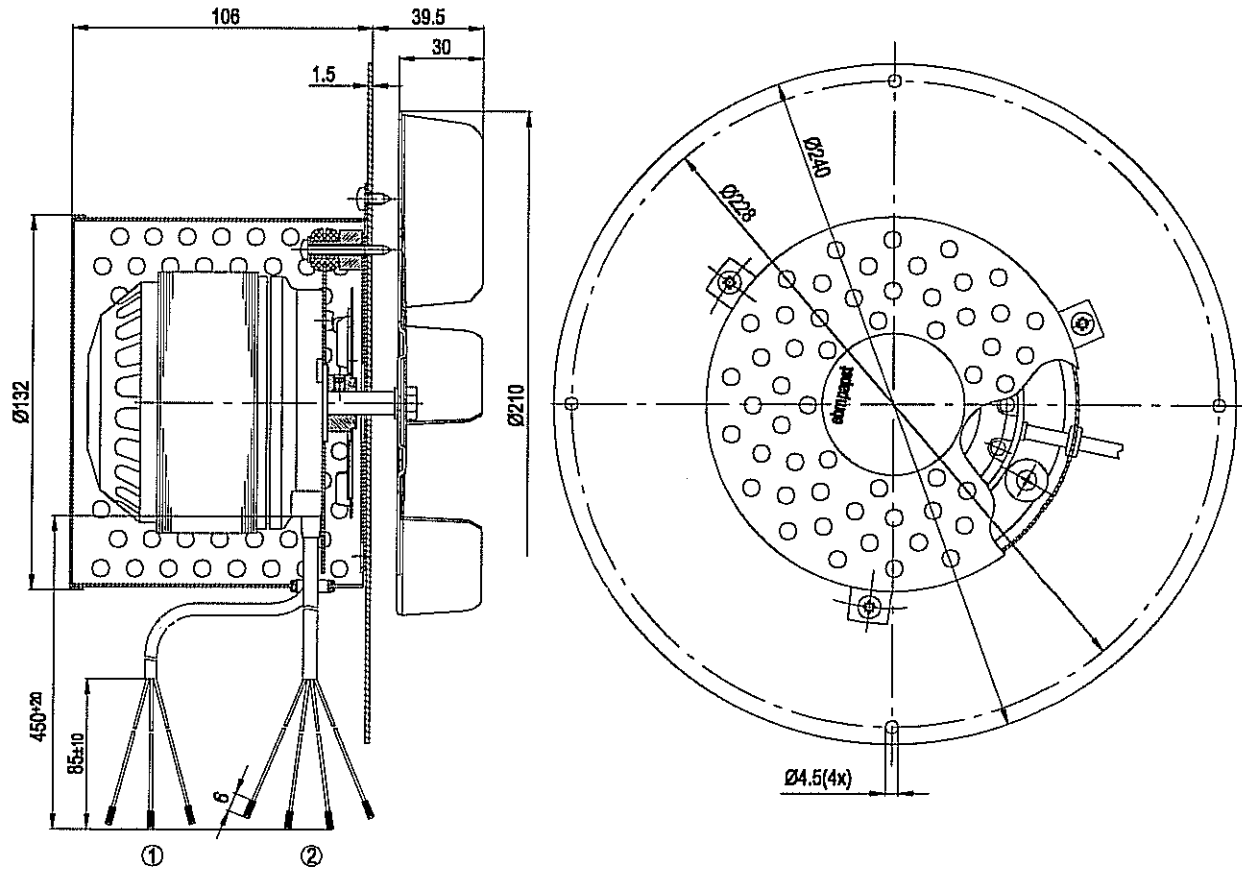
Leakage current	< 0.75 mA
Size	210 mm
Operation mode	S1
Direction of rotation	Counter-clockwise, seen on rotor
Mounting position	Any
Humidity class	F0
Insulation class	*F*
Cable exit	Variable
Condensate discharge holes	None
Motor bearing	Ball bearing
Mass	3.33 kg
Material of impeller	Sheet steel, stainless
Material of mounting plate	Sheet steel, hot-galvanised
Motor suspension	Motor anti-vibration mounted on one side via mounting plate
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	CE; EN 60335-1
Surface of rotor	Coated in black (cataphoresis coated + UTL)
Number of blades	6
Type of protection	IP 44; Depending on installation and position
Protection class	I
Max. permissible ambient motor temp. (transp./storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C



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Product drawing



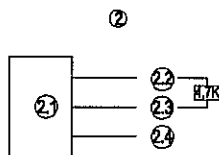
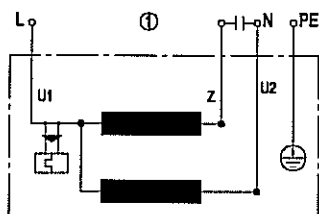
- | | |
|---|--|
| 1 | Connection line Raychem AWG24, 3 x brass lead tips crimped. |
| 2 | Connection line silicone 4G 0.5 mm ² , 4 x brass lead tips crimped. |



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Connection screen



1 Fan connection diagram

U1 Blue

Z brown

U2 black

PE green/yellow

2 Hall IC circuit

2.1 Hall IC

2.2 Red (+5V)

2.3 White (out)

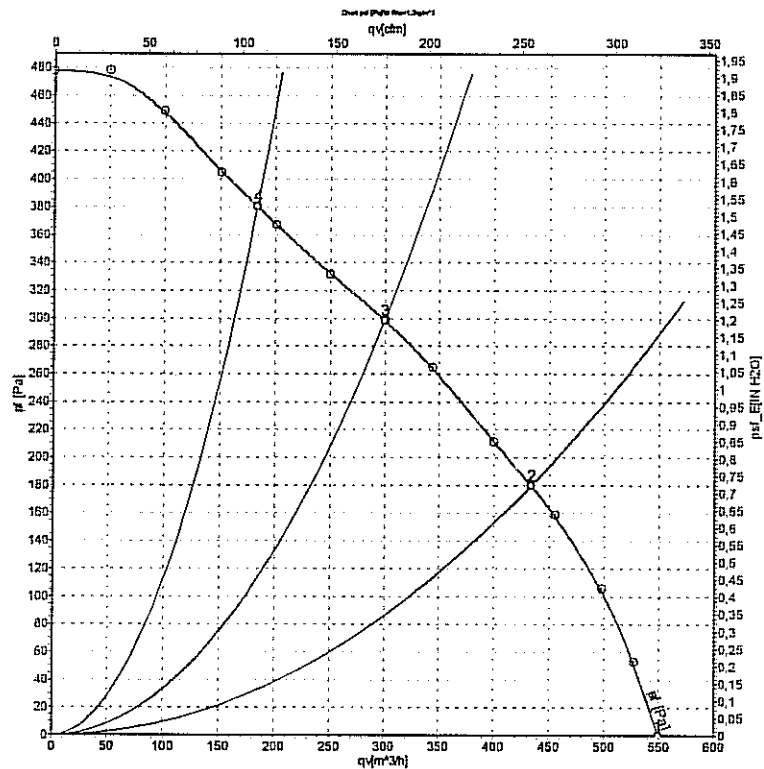
2.4 Black (0V)



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Charts: Air flow 50 Hz



Measurement: LU-78617

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 _t
	V	Hz	min ⁻¹	W	A	m ³ /h	Pa
1	230	50	2550	100	0.45	550	0
2	230	50	2530	100	0.44	435	180
3	230	50	2605	91	0.40	300	300
4	230	50	2690	79	0.35	185	380

