

R2E280-AE52-17

AC centrifugal fan

backward curved, single inlet



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Nominal data

Type	R2E280-AE52-17	
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]	2700
Power input	[W]	225
Current draw	[A]	1.0
Motor capacitor	[μF]	7
Capacitor voltage	[VDB]	400
Capacitor standard		P0 (CE)
Min. back pressure	[Pa]	0
Max. ambient temperature	[°C]	40

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

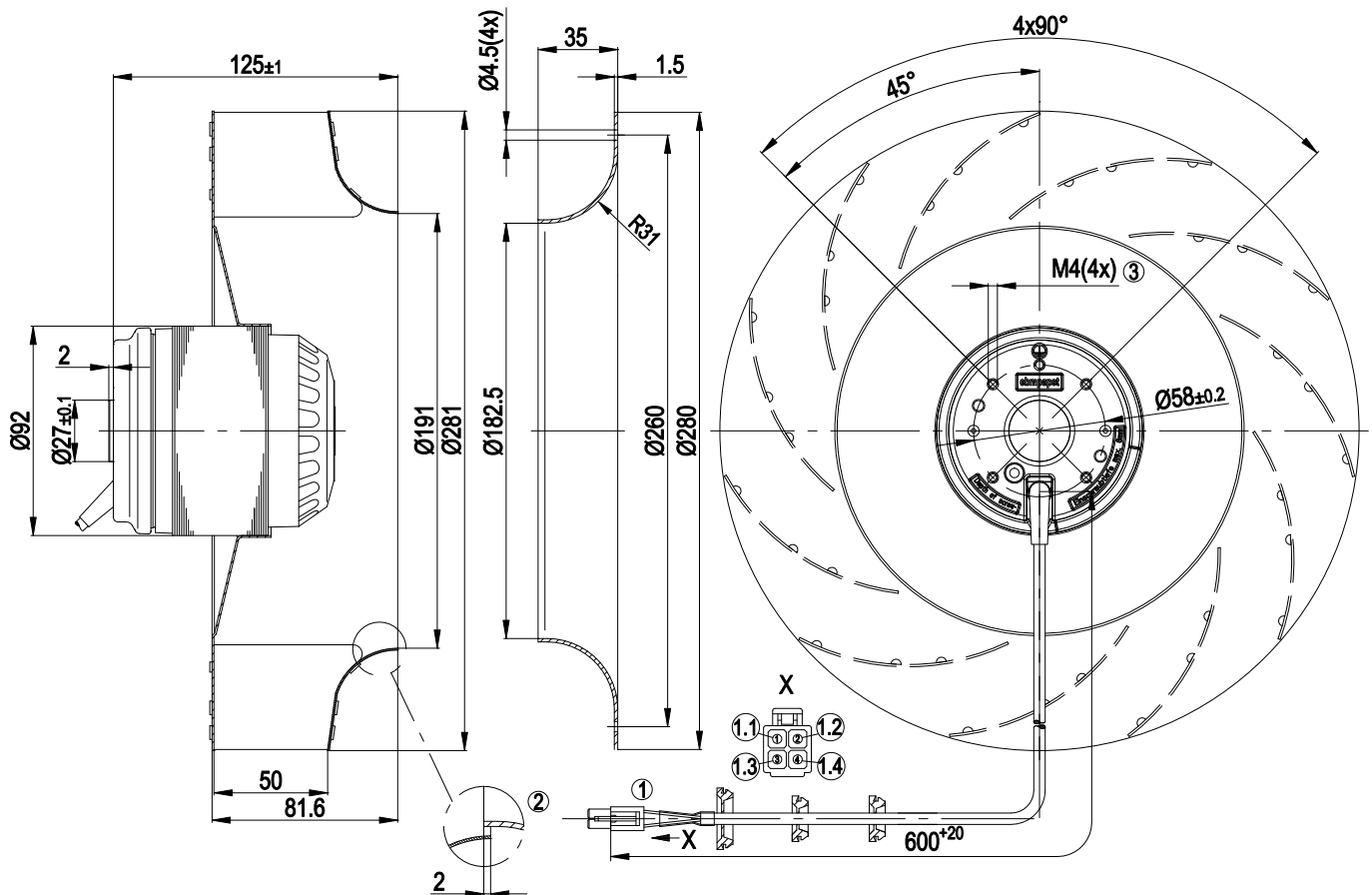
Technical features

Leakage current	< 0.75 mA
Size	280 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Electrical leads	With plug
Humidity class	F2-2
Insulation class	"F"
Cable exit	Variable
Condensate discharge holes	Rotor-side
Motor bearing	Ball bearing
Mass	3.5 kg
Material of impeller	Sheet steel, coated in black
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; 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

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Product drawing

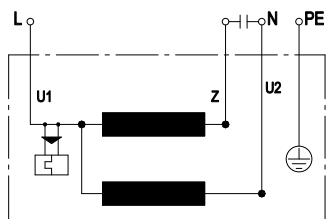


1	Connection line PFA 4G AWG20, connector housing JST No. ELP-04NV crimped
	Plug assignment:
1.1	brown
1.2	Blue
1.3	black
1.4	green/yellow
2	Accessory part: Inlet nozzle 96360-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 6 mm

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Connection screen

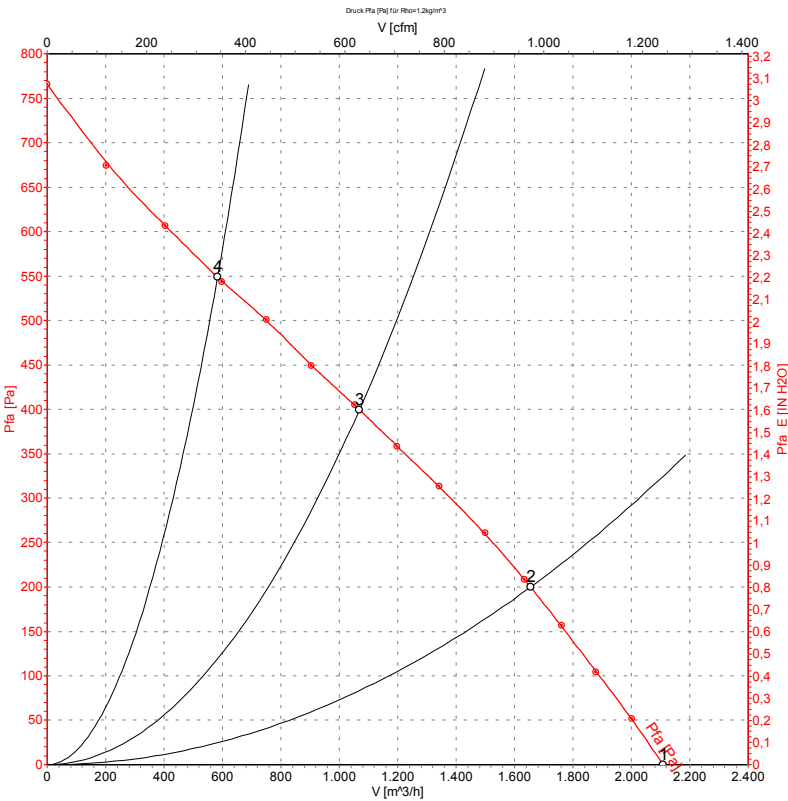


U1	blue	Z	brown	U2	black
PE	green/yellow				

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Charts: Air flow 50 Hz



Measurement: LU-107236

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	Ṃ	P _{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[m ³ /h]	[Pa]
1	230	50	2700	225	1.00	2110	0
2	230	50	2510	289	1.26	1655	200
3	230	50	2365	324	1.42	1070	400
4	230	50	2490	291	1.27	585	550