

R2E190-AF58-13

AC centrifugal fan

backward curved, single inlet

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Nominal data

Type	R2E190-AF58-13			
Motor	M2E068-CF			
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
Speed	min ⁻¹	2750	3150	3150
Power input	W	100	135	140
Current draw	A	0.5	0.6	0.6
Motor capacitor	µF	2.5	2.5	2.5
Capacitor voltage	VDB	450	450	450
Min. back pressure	Pa	0	0	0
Max. ambient temperature	°C	50	55	55

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



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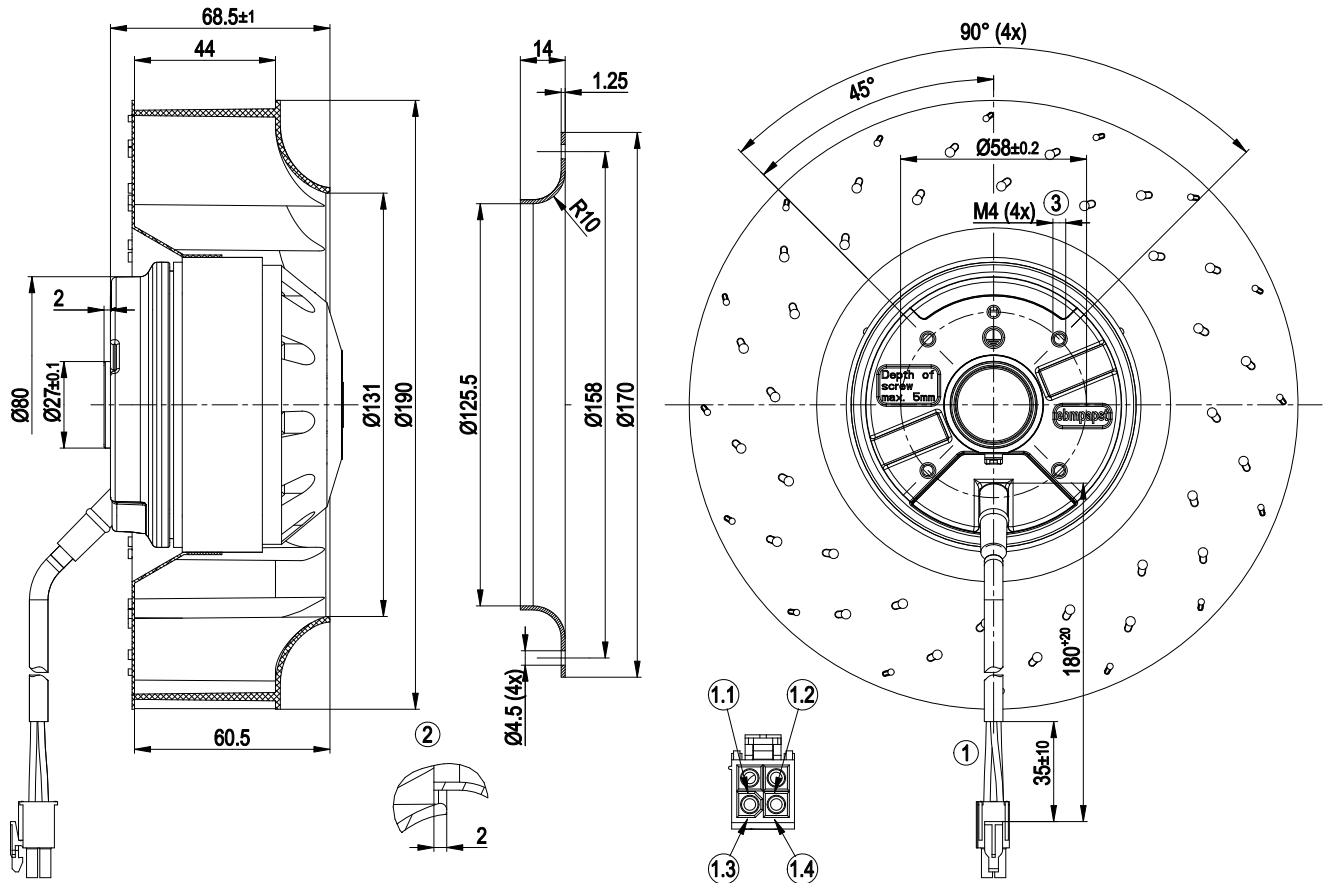
Technical features

Mass	1.8 kg
Size	190 mm
Surface of rotor	Coated in black
Material of impeller	Plastic PA66, fibreglass-reinforced
Number of blades	16
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) wired internally
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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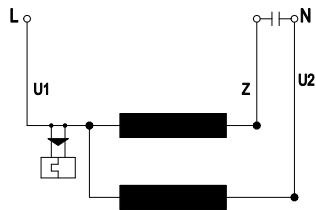
1	Connection line PVC 3X AWG20, 1x AMP pin housing 172167-1 with 3x AMP socket contact 170362-1
1.1	Not assigned
1.2	black
1.3	brown
1.4	Blue
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 5 mm

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Connection screen

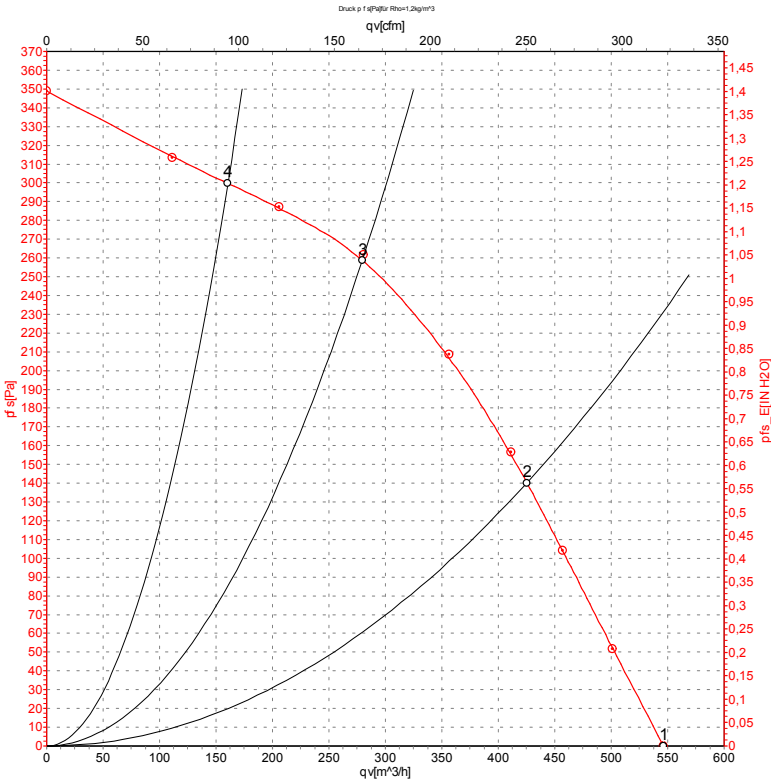


U1	blue	Z	brown	U2	black
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Charts: Air flow 50 Hz



Measurement: LU-53490

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 _f
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	230	50	2750	100	0.50	545	0
2	230	50	2710	100	0.50	425	140
3	230	50	2730	97	0.48	280	260
4	230	50	2790	87	0.46	160	300

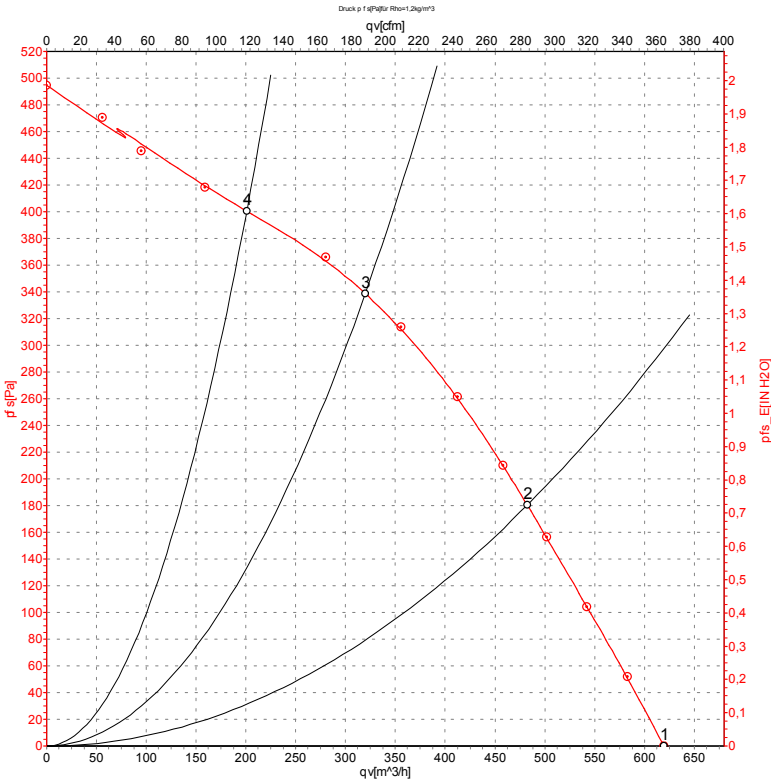
U = Supply voltage · f = Frequency · n = Speed · P_e = Power input · I = Current draw · q_v = Air flow · p_f = Pressure increase



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Charts: Air flow 60 Hz



Measurement: LU-53491

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	60	3120	120	0.52	620	0
2	230	60	3070	126	0.55	480	180
3	230	60	3125	119	0.52	320	340
4	230	60	3225	105	0.46	200	400

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

