

R2E190-AO50-17 ebmpapst Datasheet

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Nominal data

Type	R2E190-AO50-17			
Motor	M2E068-BF			
Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Type of data definition		fa	fa	fa
Valid for approval / standard		CE	CE	UL 2111
Speed	min ⁻¹	2500	2700	2700
Power input	W	50	60	65
Current draw	A	0.45	0.53	0.57
Motor capacitor	µF	6	6	6
Capacitor voltage	VDB	220	220	220
Capacitor standard		P0 (CE)		UL
Min. back pressure	Pa	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	70	70	70

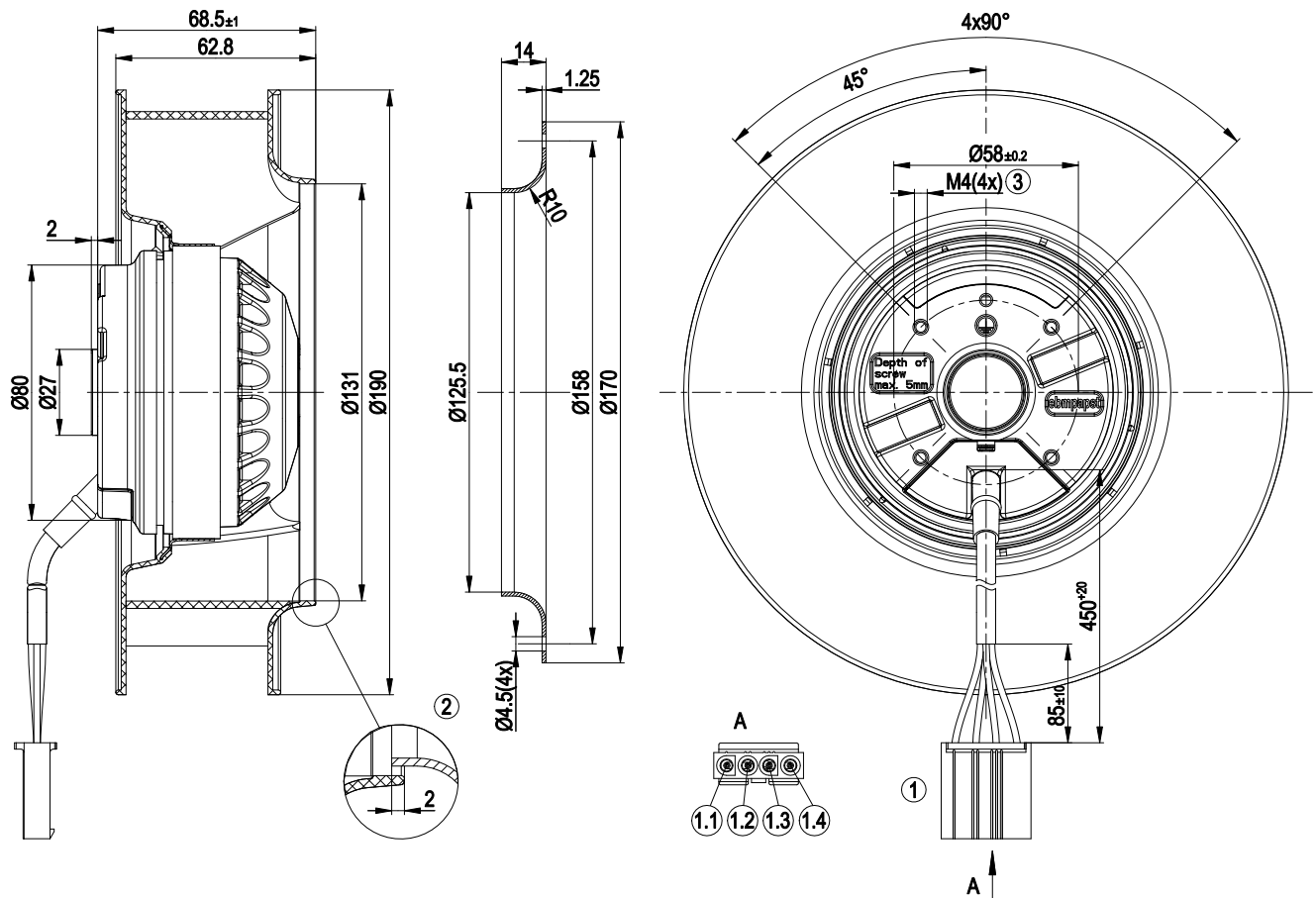
ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations



Technical features

Mass	1.2 kg
Size	190 mm
Material of impeller	Plastic PA6, fibreglass-reinforced
Number of blades	7
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position
Insulation class	"F"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Any
Condensate discharge holes	None
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	UL 2111; CSA C22.2 Nr.77

Product drawing

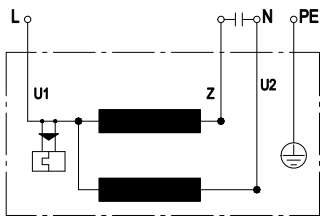


1	Connection line PFA AWG20, Molex connector housing 39-03-6042 with 4x plug pin 02-09-2116
1.1	green/yellow
1.2	blue
1.3	brown
1.4	black
2	Accessory part: Inlet nozzle 09576-2-4013, not included in the standard scope of delivery
3	Depth of screw max. 5 mm

AC centrifugal fan

backward curved, single inlet

Connection screen

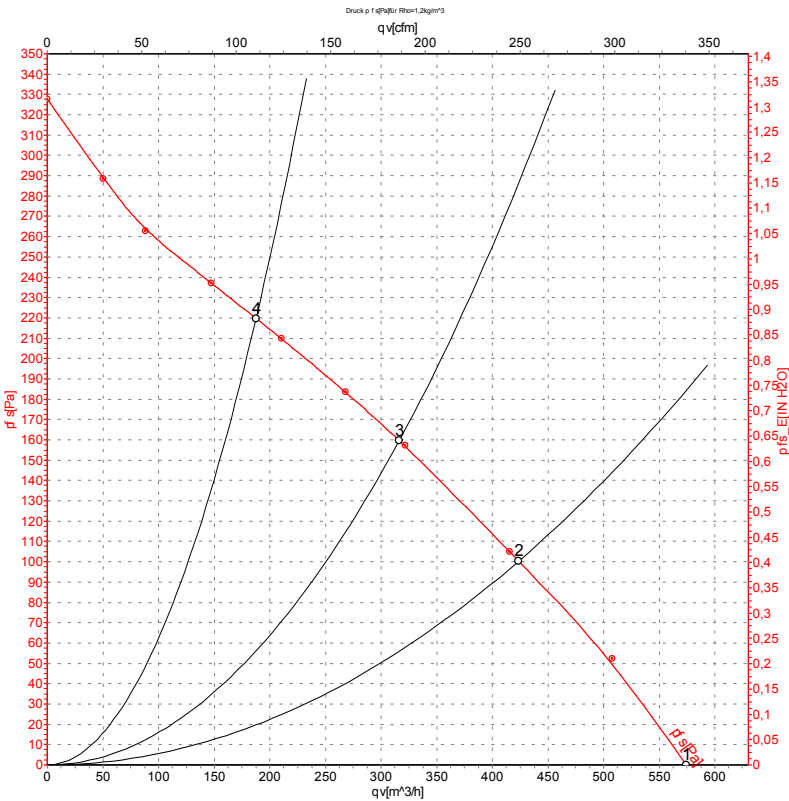


U1	blue	Z	brown	U2	black
PE	green/yellow				



AC centrifugal fan
backward curved, single inlet

Charts: Air flow 50 Hz



Measurement: LU-49767

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

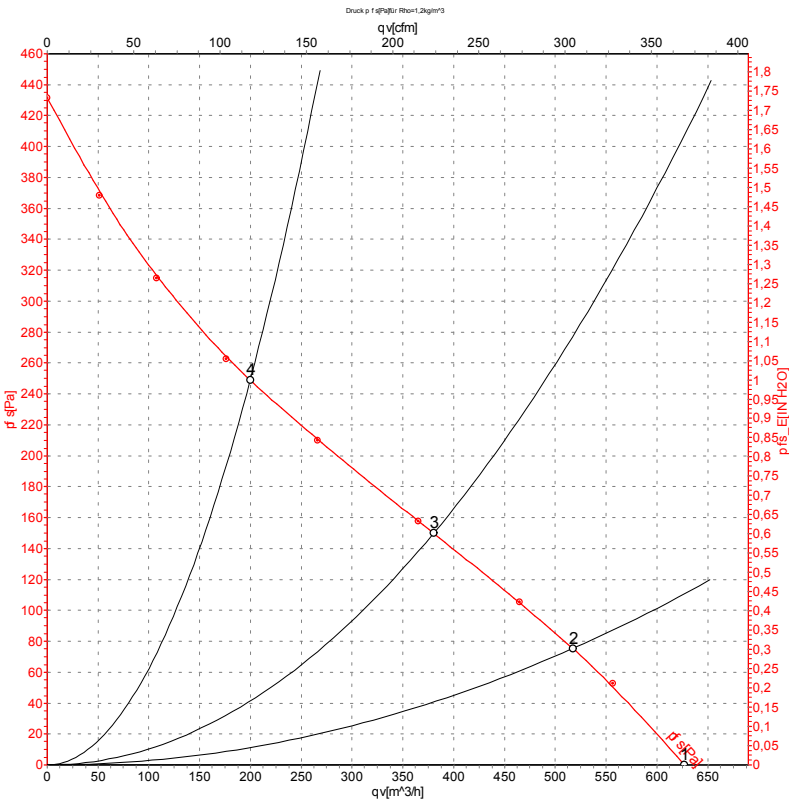
	U	f	n	P _e	I	qv	p _{fs}
	V	Hz	min ⁻¹	W	A	m³/h	Pa
1	115	50	2500	50	0.45	575	0
2	115	50	2390	52	0.45	425	100
3	115	50	2340	53	0.47	315	160
4	115	50	2405	51	0.45	190	220

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



AC centrifugal fan
backward curved, single inlet

Charts: Air flow 60 Hz



Measurement: LU-49768

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	115	60	2700	60	0.53	625	0
2	115	60	2605	63	0.55	515	75
3	115	60	2475	66	0.58	380	150
4	115	60	2570	64	0.56	200	250

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

