

R2E133-BH82-26

AC centrifugal fan

backward-curved, single-intake

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Amtsgericht (court of registration) Stuttgart · HRB 590142

Nominal data

Type	R2E133-BH82-26			
Motor	M2E052-BF			
Phase		1~	1~	1~
Nominal voltage	VAC	200	200	200
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	CE	UL 1004-3
Speed (rpm)	min ⁻¹	2750	3200	3200
Power consumption	W	20	23	25
Current draw	A	0.1	0.12	0.13
Capacitor	µF	1	1	1
Capacitor voltage	VDB	300	300	300
Capacitor standard		S0 (CE)	S0 (CE)	UL
Min. back pressure	Pa	0	0	0
Min. back pressure	in. wg	0	0	0
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	60	65	65
Starting current	A	0.21	0.21	0.21

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

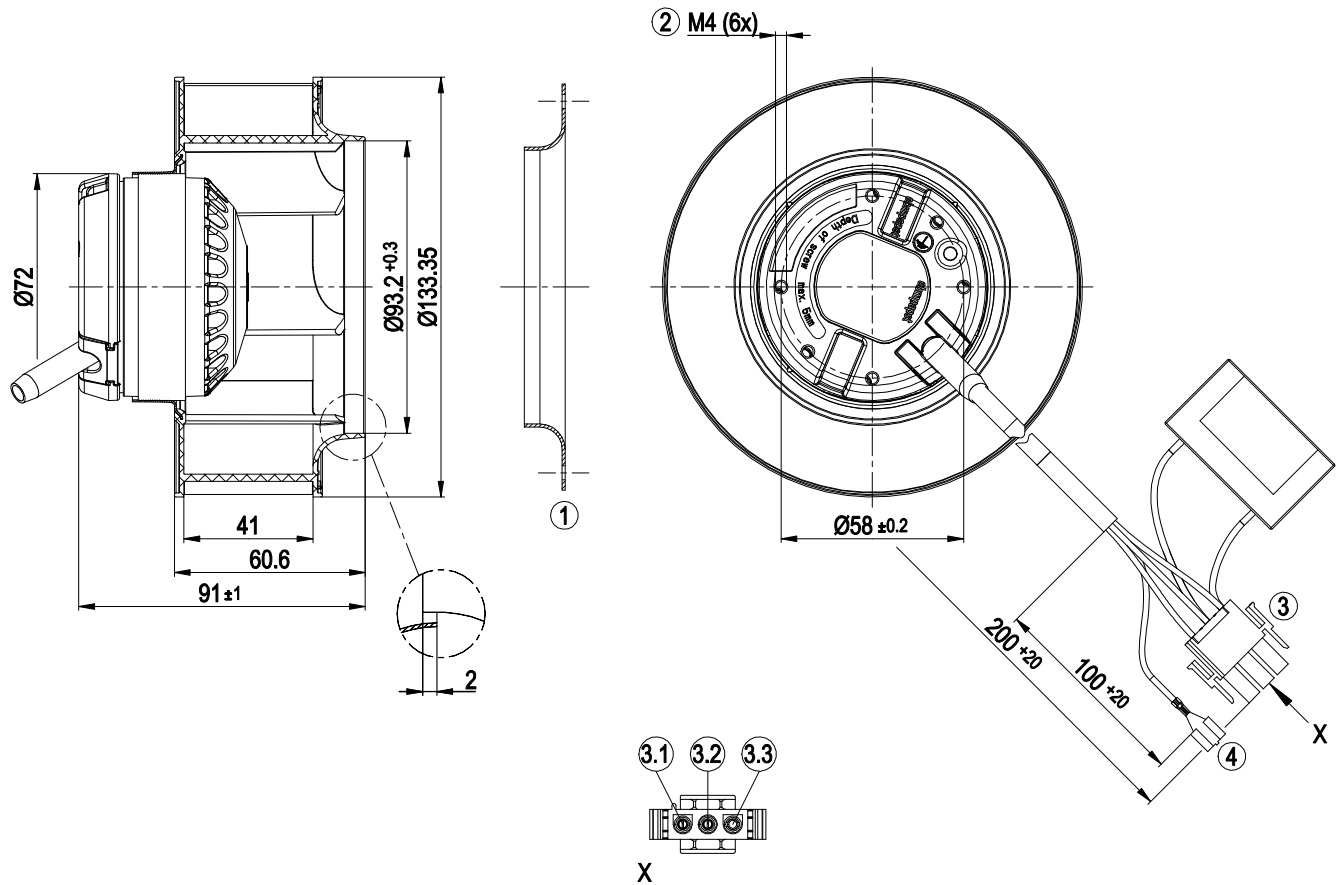
Weight	0.7 kg
Size	133 mm
Motor size	52
Impeller material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	H0 - dry environment
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Any
Condensation drainage holes	None
Mode	S1
Motor bearing	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Connector with cable
Motor protection	Thermal overload protector (TOP) internally connected
Protection class assignment	I; If a protective earth is connected by the customer This component for installation may have several local protection classes. This information relates to this component's basic design. The final protection class is based on the component's intended installation and connection.
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; EN 60034-1; EN 60204-1; CE
Approval	VDE; CSA C22.2 No. 77; CCC; UL 1004-3



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Product drawing



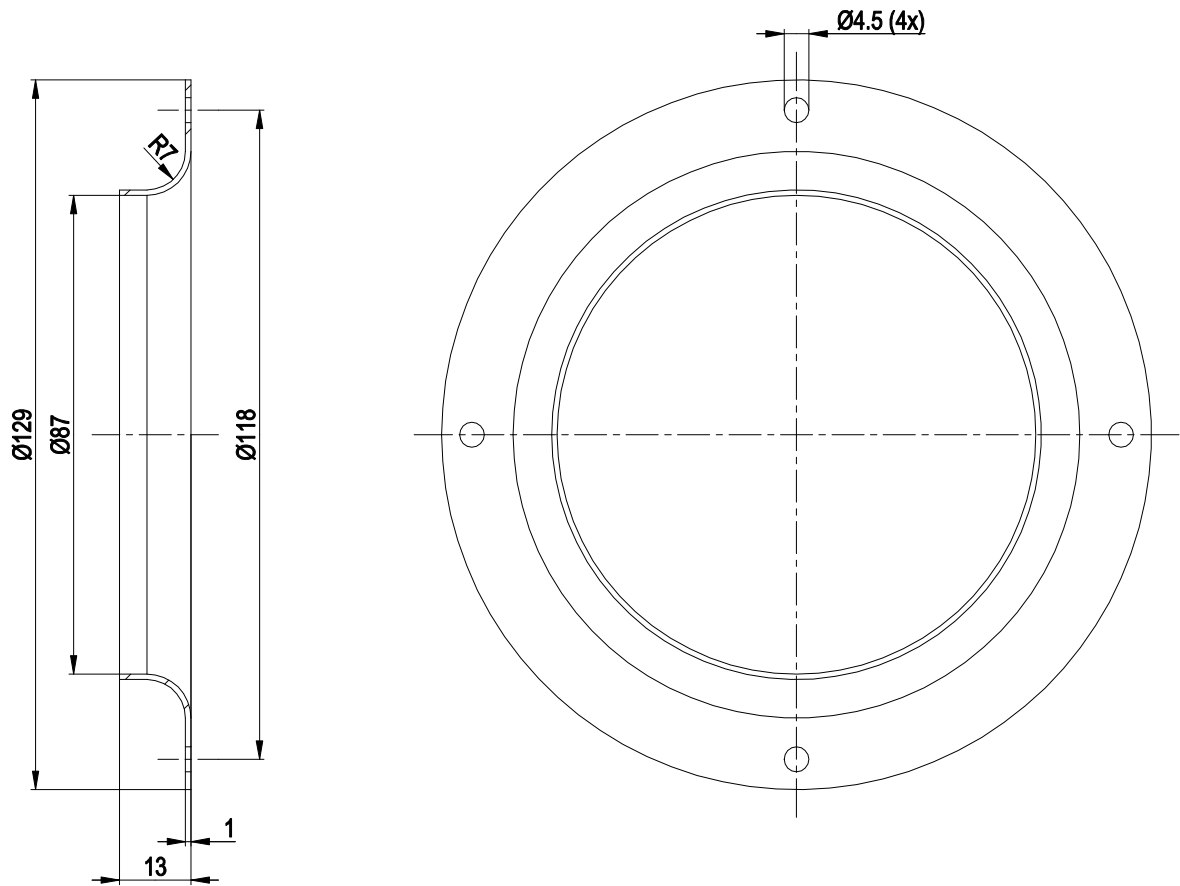
1	Accessory part: Inlet ring 09566-2-4013 (not included in scope of delivery)
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20
	3-pole connector housing TE 2178473-3, 2x plug pin TE 350 538-1, 1x plug pin TE 926 885-1
3.1	L
3.2	Z + capacitor
3.3	N + capacitor
4	Flat push-on receptacle 6.3 x 0.8 (PE)



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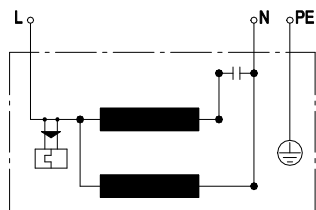
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Accessory part



Inlet ring 09566-2-4013

Connection diagram



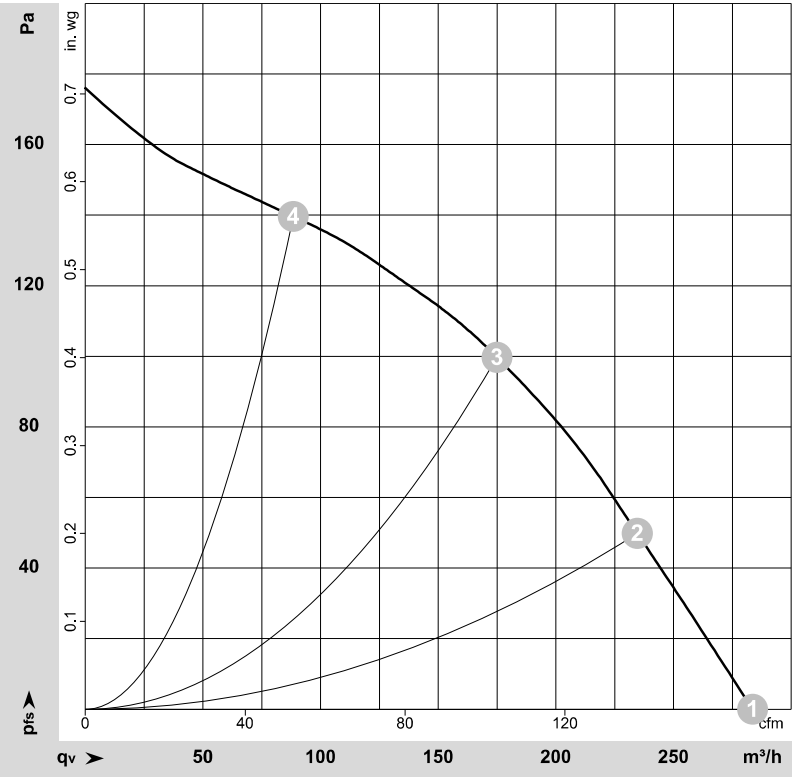
L	blue	N	black	PE	green/yellow
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Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57817-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	200	50	2750	20	0.10	285	0	165	0.00
2	1~	200	50	2690	22	0.11	235	50	140	0.20
3	1~	200	50	2685	22	0.12	175	100	105	0.40
4	1~	200	50	2710	22	0.11	90	140	50	0.56

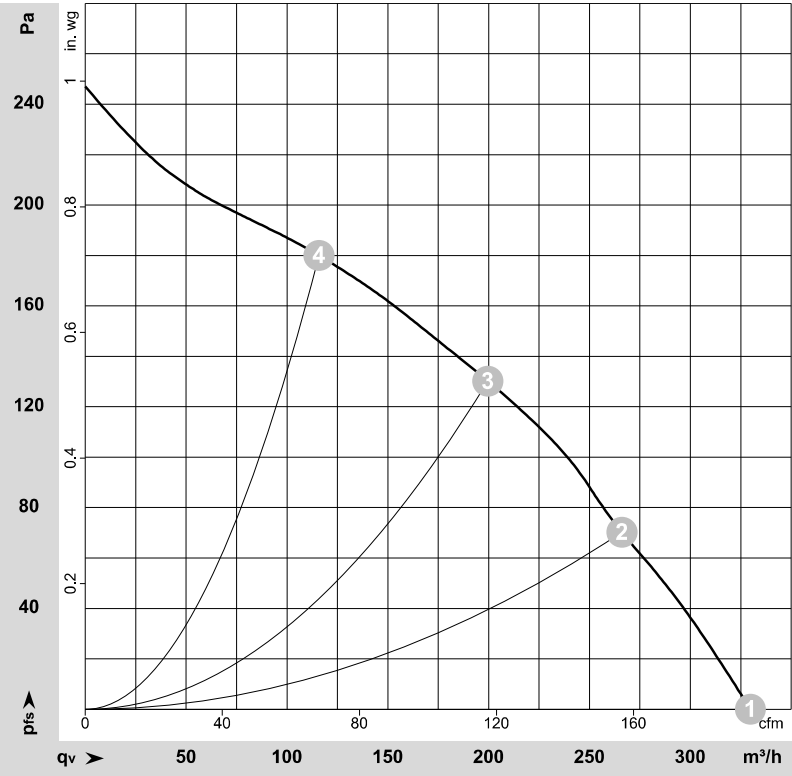
Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



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Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-57818-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	200	60	3200	23	0.12	330	0	195	0.00
2	1~	200	60	3085	25	0.13	265	70	155	0.28
3	1~	200	60	3065	25	0.13	200	130	120	0.52
4	1~	200	60	3105	25	0.12	115	180	70	0.72

Wired = Wiring · U = Voltage · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

