

R2E133-BH66-25

AC centrifugal fan

backward-curved, single-intake



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Nominal data

Type	R2E133-BH66-25			
Motor	M2E052-BF			
Phase		1~	1~	1~
Nominal voltage	VAC	230	230	230
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	UL	CE
Speed (rpm)	min ⁻¹	2800	3300	3300
Power consumption	W	24	31	27
Current draw	A	0.11	0.14	0.13
Capacitor	μF	1	1	1
Capacitor voltage	VDB	400	400	400
Capacitor standard		S0 (CE)	UL	S0 (CE)
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	45	60	60
Starting current	A	0.20		0.21

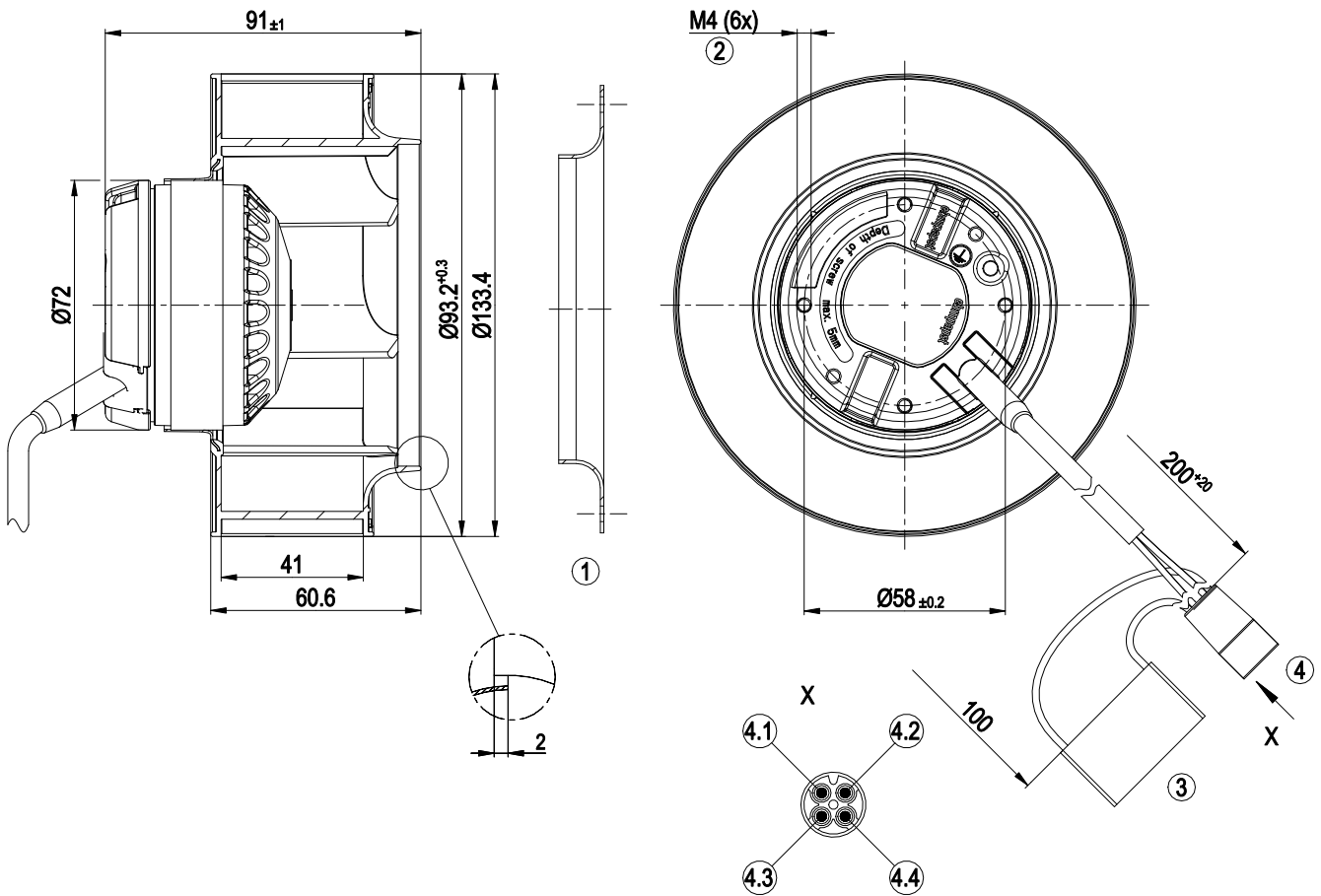
ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



Technical description

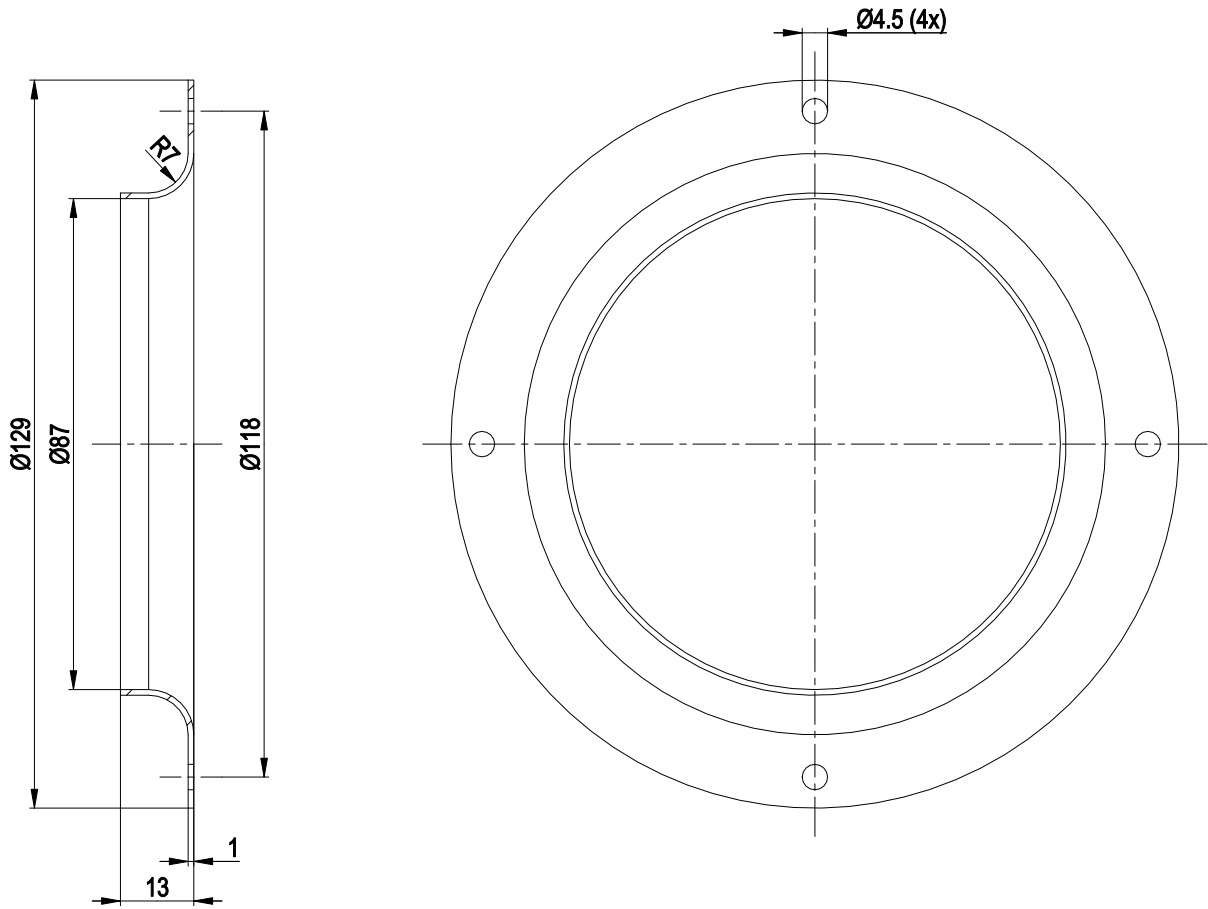
Weight	0.68 kg
Size	133 mm
Motor size	52
Rotor surface	Unpainted
Impeller material	PA plastic
Number of blades	7
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection class	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
With cable	Variable
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S0
Conformity with standards	EN 60335-1; CE
Approval	UL 1004-3; CCC; CSA C22.2 No. 77; VDE

Product drawing



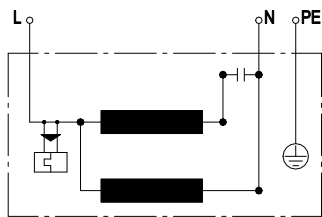
1	Accessory part: inlet ring 09566-2-4013, not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Capacitor with adhesive foil
4	Cable PVC AWG20, 1x 4-pole connector housing tyco 925075-7, 2x plug pin tyco 163555-6, 2x plug pin tyco 163303-8
4.1	brown (+ capacitor)
4.2	black (+ capacitor)
4.3	green/yellow (PE)
4.4	blue

Accessory part



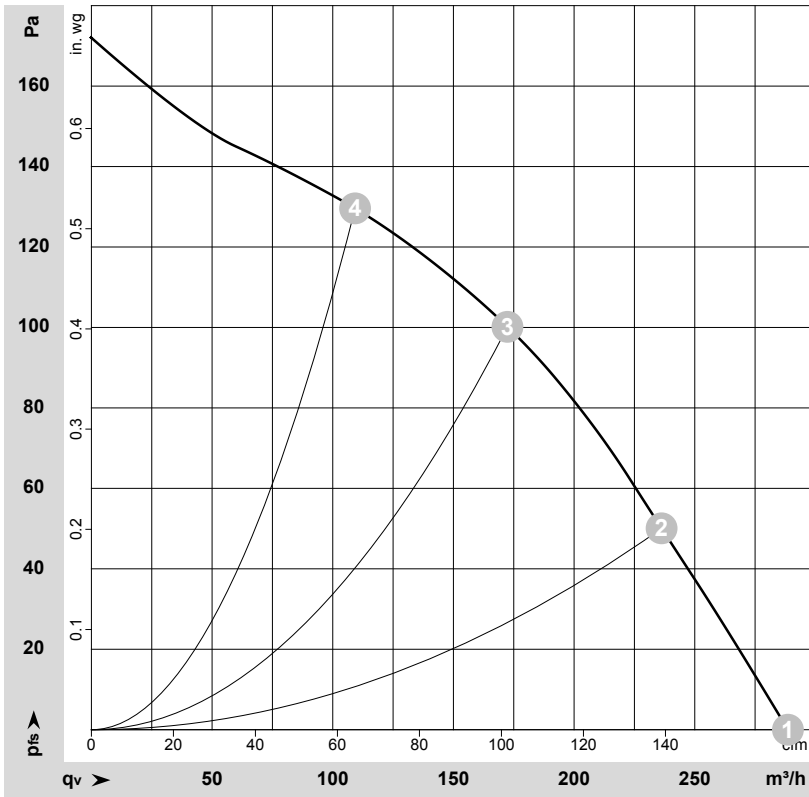
1 Accessory part: inlet ring 09566-2-4013 not included in scope of delivery

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-54086-1

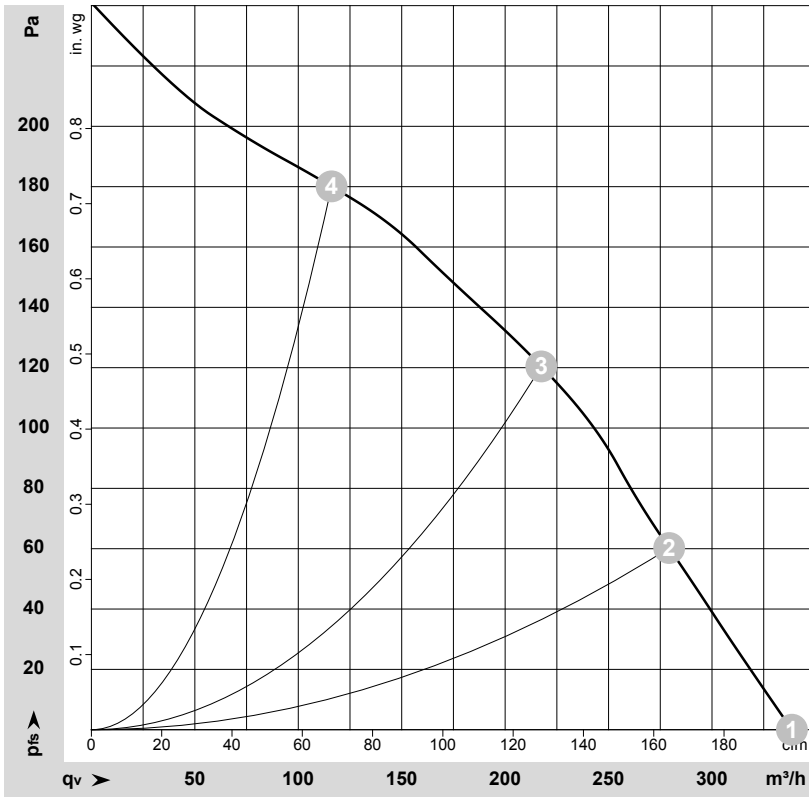
Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebmpapst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the 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	m^3/h	Pa	cfm	in. wg
1	1~	230	50	2800	24	0.11	290	0	170	0.00
2	1~	230	50	2710	25	0.11	235	50	140	0.20
3	1~	230	50	2700	26	0.11	170	100	100	0.40
4	1~	230	50	2715	26	0.11	110	130	65	0.52

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

Curves: Air performance 60 Hz



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

Measurement: LU-54087-1

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	m ³ /h	Pa	cfm	in. wg
1	1~	230	60	3300	27	0.13	340	0	200	0.00
2	1~	230	60	3150	29	0.13	280	60	165	0.24
3	1~	230	60	3120	29	0.13	215	120	130	0.48
4	1~	230	60	3155	29	0.13	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