R2E175-AC79-29

AC centrifugal fan

backward-curved

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Nominal data

Type	**R2E175-AC79-29**
Motor	**M2E068-BF**

Phase		1~	1~	1~
Nominal voltage	VAC	115	115	115
Frequency	Hz	50	60	60
Method of obtaining data		fa	fa	fa
Valid for approval/standard		CE	CE	UL
Speed (rpm)	min^{-1}	2600	2900	2900
Power consumption	W	55	70	80
Current draw	A	0.50	0.61	0.67
Capacitor	µF	6	6	6
Capacitor voltage	VDB	220	220	220
Capacitor standard		S0 (CE)	S0 (CE)	UL
Min. ambient temperature	°C	-25	-25	-25
Max. ambient temperature	°C	-	-	65
Starting current	A	0.79	0.81	0.81

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

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Technical description

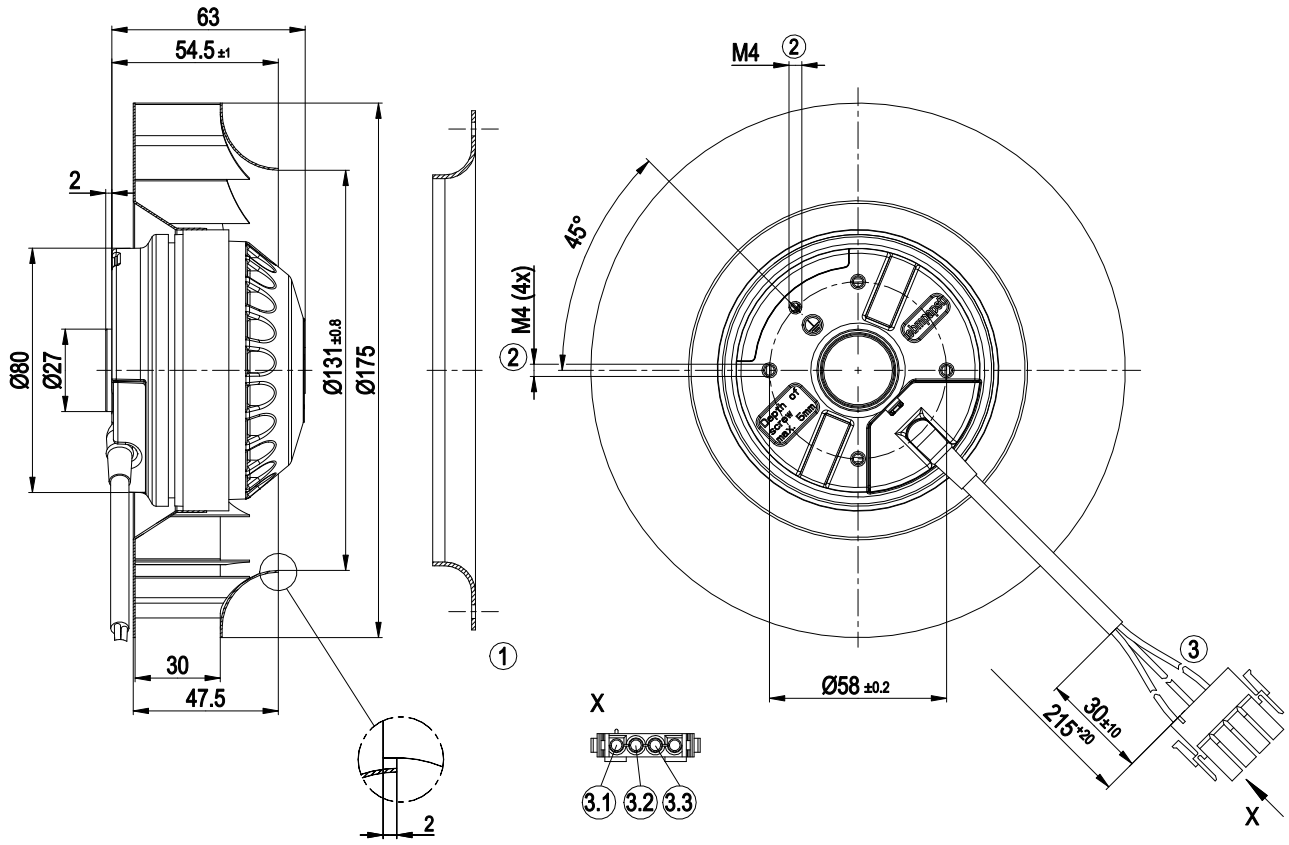
Weight	1.3 kg
Size	175 mm
Motor size	68
Rotor surface	Unpainted
Impeller material	Sheet steel, galvanized
Number of blades	16
Direction of rotation	Clockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent
Insulation class	"B"
Moisture (F) / Environmental (H) protection 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 mounting	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Motor protection	Thermal overload protector (TOP) internally connected
With cable	Variable
Protection class	I (if the protective earth is connected by the customer to the marked PE connection point)
Conformity with standards	EN 60335-1; CE
Approval	CSA C22.2 No. 77; CCC; UL 1004-3

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Product drawing



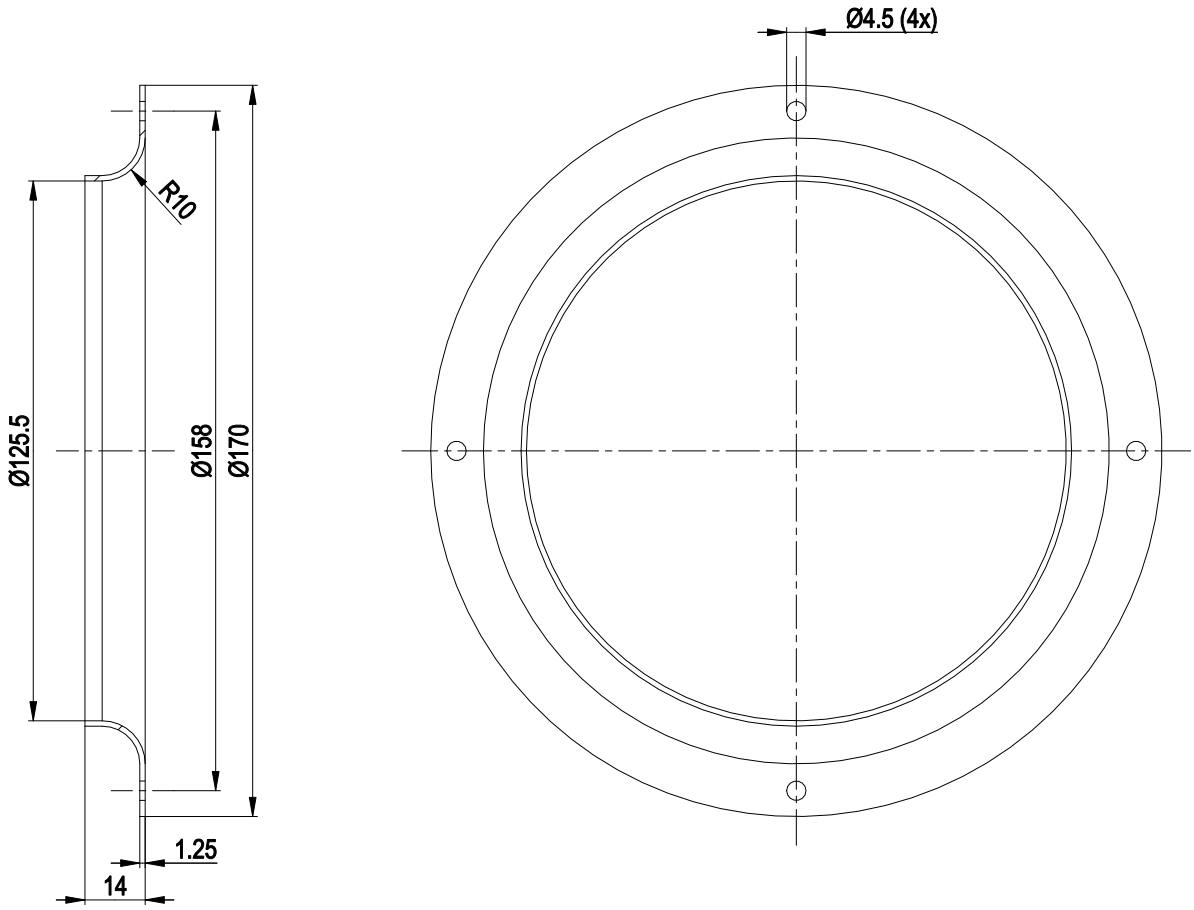
1	Accessory part: Inlet ring 09576-2-4013, not included in scope of delivery.
2	Max. clearance for screw 5 mm
3	Cable PVC 3X 0.5 mm², 4-pole connector housing tyco 926298-7, 3x plug pin tyco 926885-1
3.1	Z (brown)
3.2	L (blue)
3.3	N (black)

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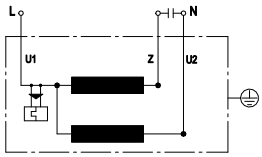
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Accessory part



1	Accessory part: inlet ring 09576-2-4013 not included in scope of delivery

Connection diagram



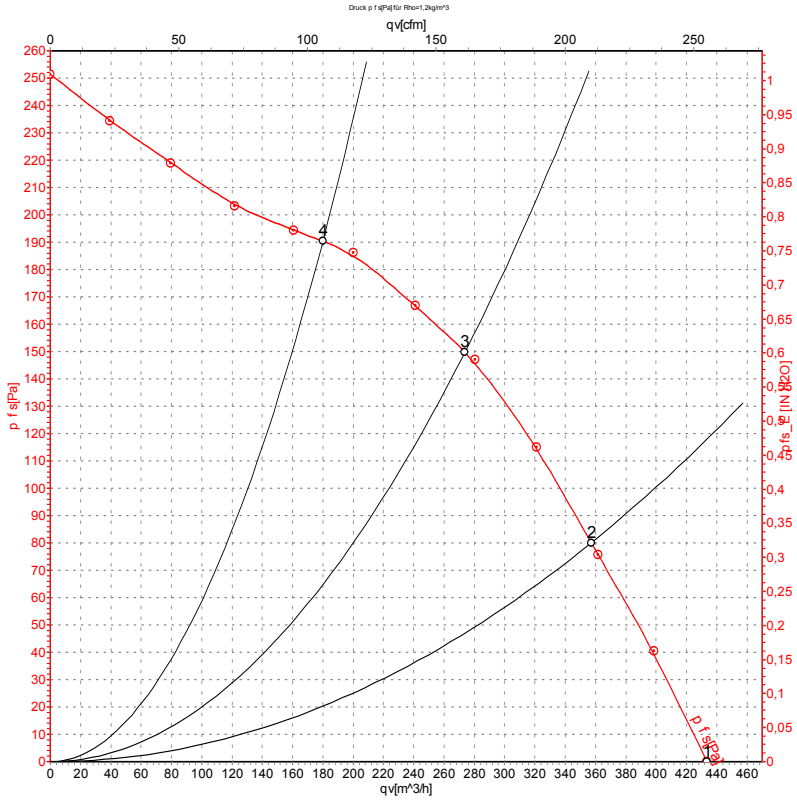
U1	blue	Z	brown	U2	black

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Curves: Air performance 50 Hz



Measurement: LU-115602-1

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

	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	115	50	2600	55	0.50	435	0	255	0.00
2	115	50	2510	55	0.49	355	80	210	0.32
3	115	50	2525	54	0.48	275	150	160	0.60
4	115	50	2560	53	0.47	180	190	105	0.76

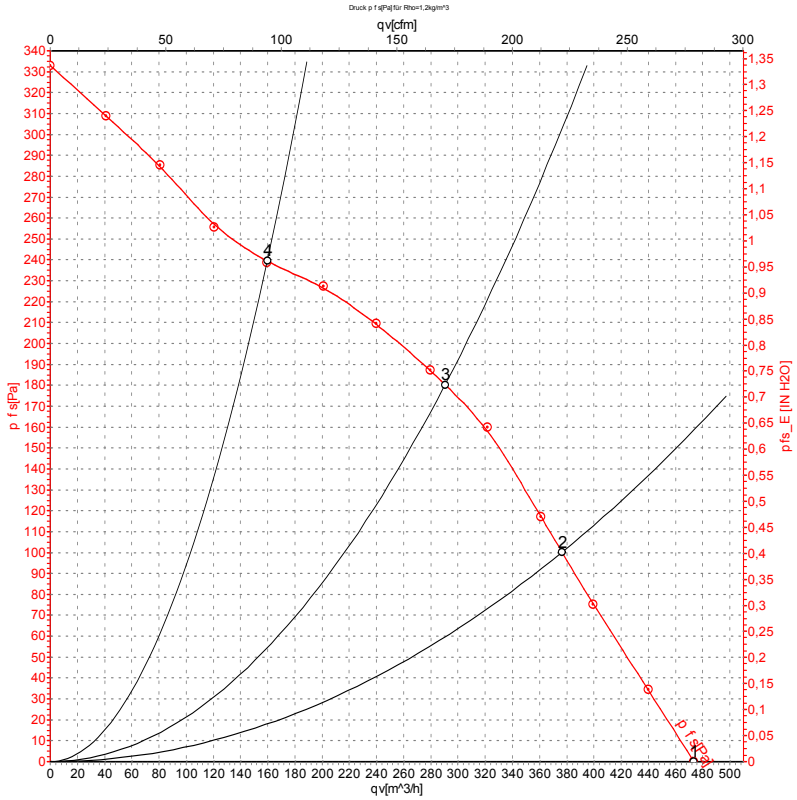
U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_V = Air flow · p_{fs} = Pressure increase

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Curves: Air performance 60 Hz



Measurement: LU-115600-1

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

	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	115	60	2785	70	0.61	475	0	280	0.00
2	115	60	2690	71	0.62	375	100	220	0.40
3	115	60	2730	70	0.61	290	180	170	0.72
4	115	60	2830	68	0.59	160	240	95	0.96

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

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