R2E190-RA62-75

AC centrifugal fan - RadiCal

backward-curved, single-intake

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Nominal data

Type	**R2E190-RA62-75**
Motor	**M2E068-BF**

Phase		1~
Nominal voltage	VAC	240
Frequency	Hz	50
Method of obtaining data		ml
Valid for approval/standard		CE
Speed (rpm)	min^{-1}	2440
Power consumption	W	63
Current draw	A	0.28
Capacitor	µF	1.5
Capacitor voltage	VDB	450
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. back pressure	in. wg	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	40
Starting current	A	0.41

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	1.18 kg
Size	190 mm
Motor size	68
Rotor surface	Unpainted
Impeller material	PP 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
Speed levels	3
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 (with customer connection of protective earth)
Conformity with standards	EN 60335-1; CE

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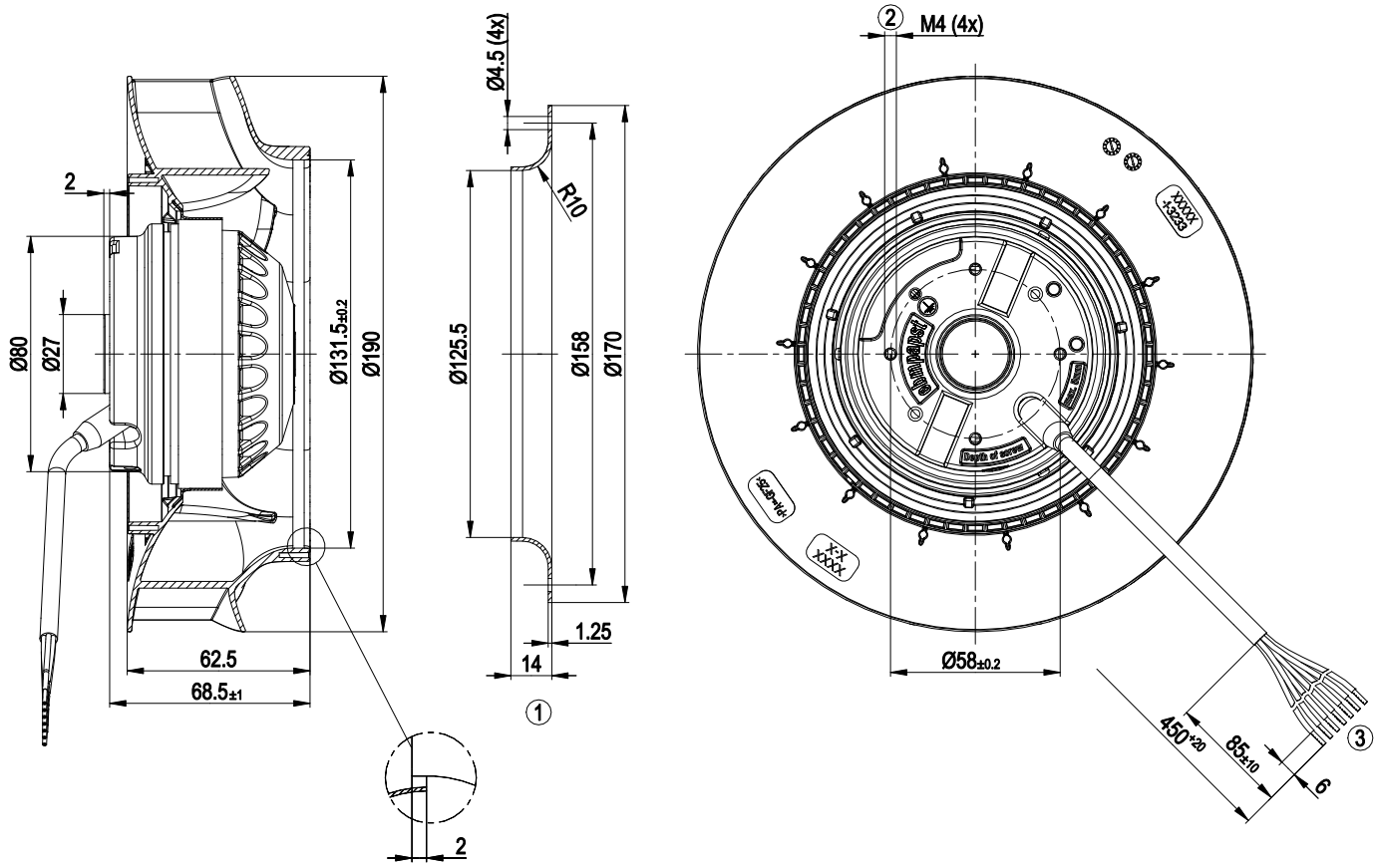
Product drawing



1	Accessory part: Inlet ring 09576-2-4013, not included in scope of delivery
2	Max. clearance for screw 5 mm
3	Cable PVC AWG20, 7x crimped splices

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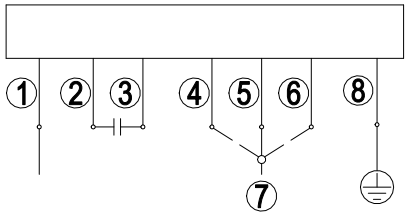
Connection diagram



Note: High speed (step III); low speed (step I); the switch must interrupt the circuit on switching.

1	blue (N)	2	brown	3	yellow
4	Step 1 (black1)	5	Step 2 (black2)	6	Step 3 (black3)
7	L1	8	PE (green/yellow)		

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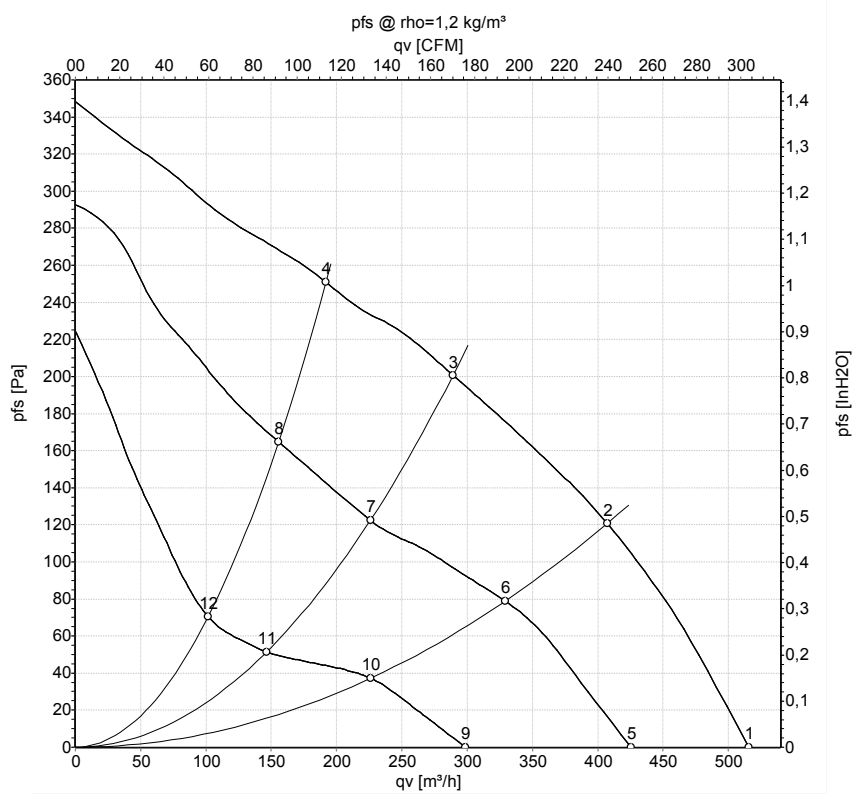
Curves: Air performance 50 Hz



Measurement: LU-161869-1
Measurement: LU-162039-1
Measurement: LU-162042-1

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	240	50	2525	59	0.26	515	0	305	0.00
2	240	50	2475	61	0.27	405	120	240	0.48
3	240	50	2440	63	0.28	290	200	170	0.80
4	240	50	2490	60	0.26	190	250	115	1.00
5	240	50	2110	46	0.20	425	0	250	0.00
6	240	50	2010	48	0.21	330	79	195	0.32
7	240	50	1935	49	0.21	225	122	135	0.49
8	240	50	2030	48	0.21	155	165	90	0.66
9	240	50	1510	43	0.19	300	0	175	0.00
10	240	50	1380	44	0.19	225	37	135	0.15
11	240	50	1250	45	0.19	145	51	85	0.20
12	240	50	1340	44	0.19	100	70	60	0.28

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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