R2E220-RB76-17

AC centrifugal fan - RadiCal

backward curved, single inlet

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Nominal data

Type	**R2E220-RB76-17**
Motor	**M2E068-CF**

Phase		1~
Nominal voltage	VAC	230
Frequency	Hz	50
Type of data definition		ml
Valid for approval / standard		CE
Speed (rpm)	min^{-1}	2500
Power input	W	105
Current draw	A	0.47
Motor capacitor	µF	2.5
Capacitor voltage	VDB	400
Capacitor standard		S2 (CE)
Min. back pressure	Pa	0
Min. ambient temperature	°C	-25
Max. ambient temperature	°C	70
Starting current	A	0.85

ml = Max. load · me = Max. efficiency · fa = Running at free air · cs = Customer specs · cu = Customer unit
Subject to alterations

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Technical features

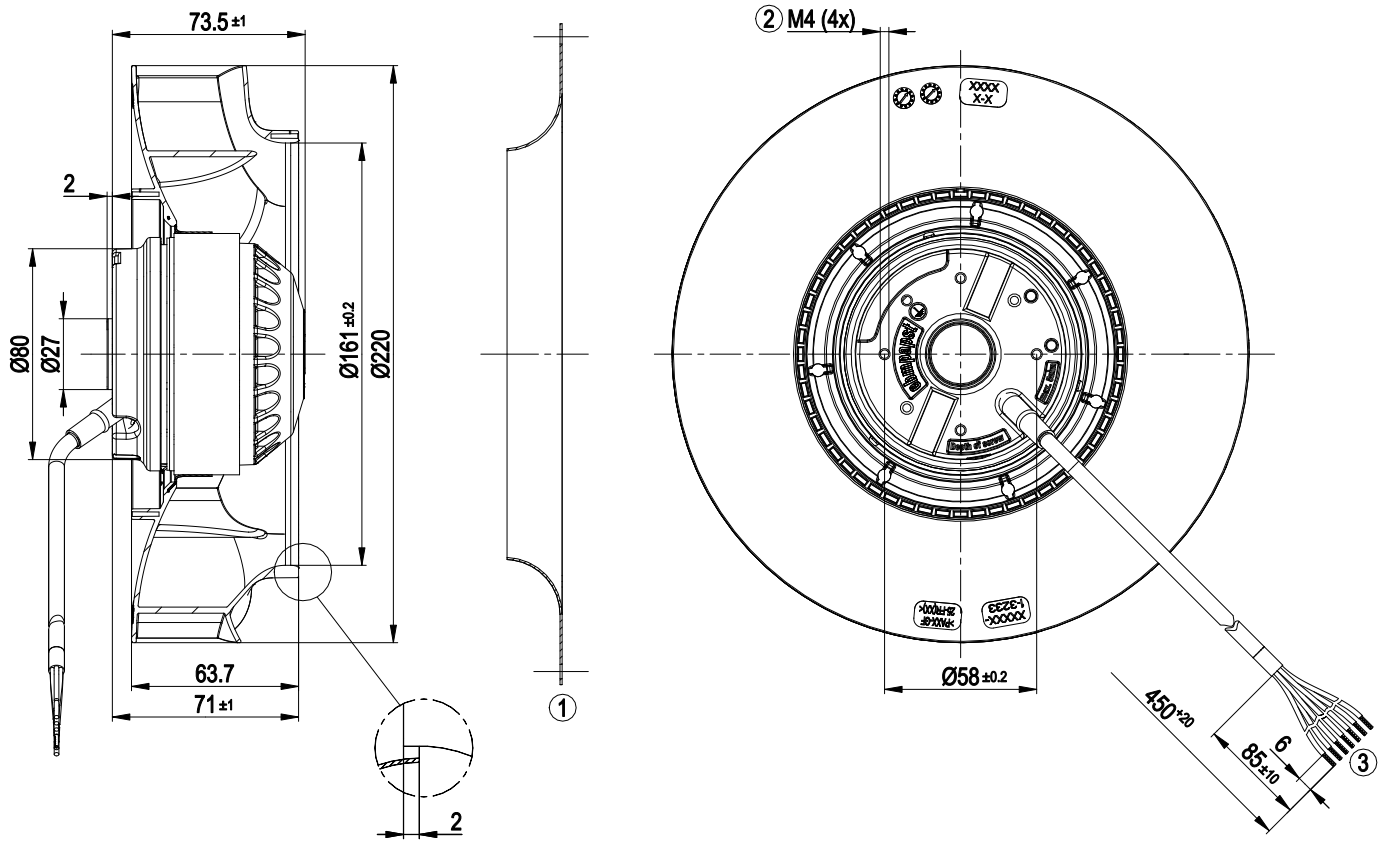
Mass	1.8 kg
Size	220 mm
Motor size	68
Surface of rotor	Coated in black
Material of impeller	PA plastic
Direction of rotation	Clockwise, seen on rotor
Protection rating	IP44
Type of protection	Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F) / environmental protection class (H)	H1
Max. permissible ambient motor temp. (transp./ storage)	+ 80 °C
Min. permissible ambient motor temp. (transp./storage)	- 40 °C
Mounting position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	Rotor-side
Operation mode	S1
Motor bearing	Ball bearing
Speed steps	3
Touch current acc. IEC 60990 (measuring network Fig. 4, TN system)	< 0.75 mA
Motor protection	Temperature limiter manual reset
Cable exit	Variable
Protection class	I (if protective earth is connected by customer)
Product conforming to standard	EN 60335-1; CE

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Product drawing



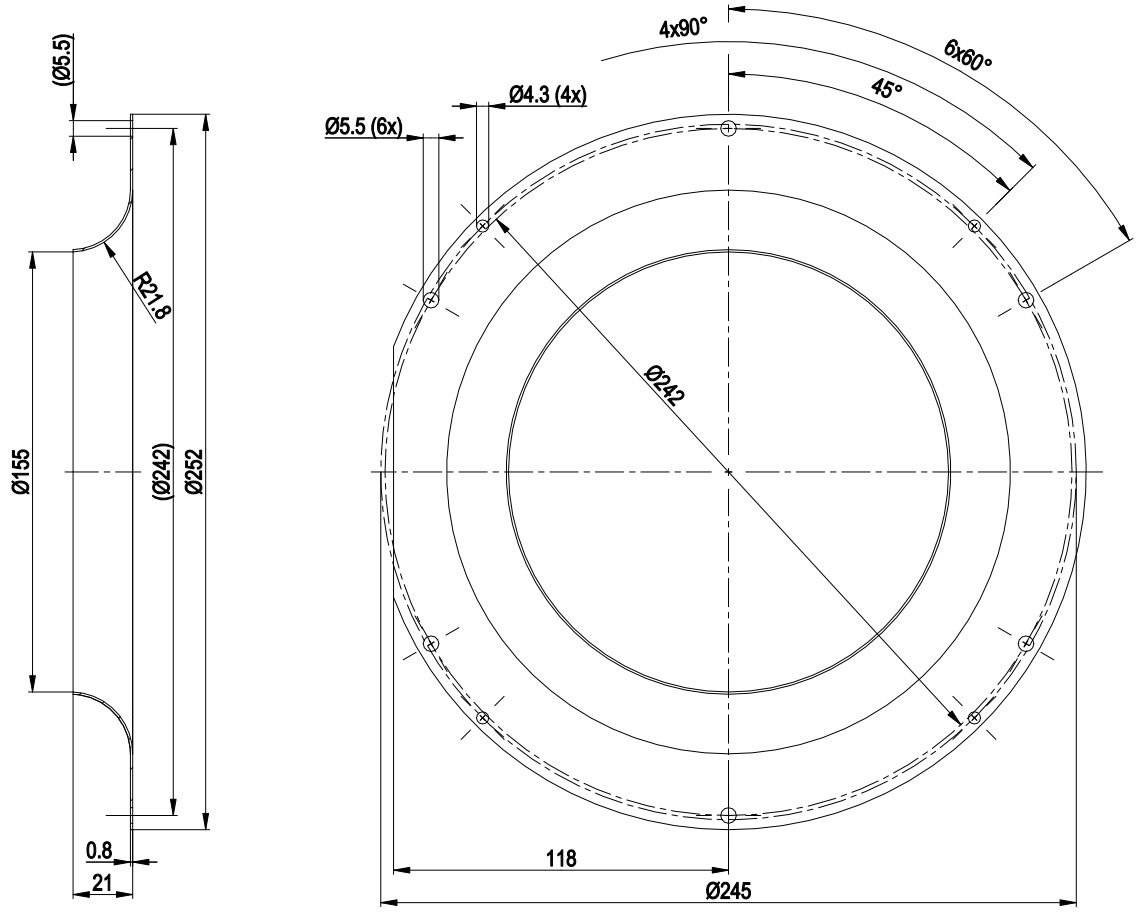
1	Accessory part: Inlet nozzle 09609-2-4013 not included in scope of delivery
2	Depth of screw max. 5 mm
3	Connection line halogen- and silicone-free 7x 0.5 mm², 7x lead tips crimped

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Accessory part

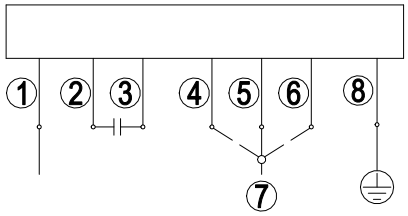


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Connection screen



Note: Fast speed (level III); slow speed (level I)

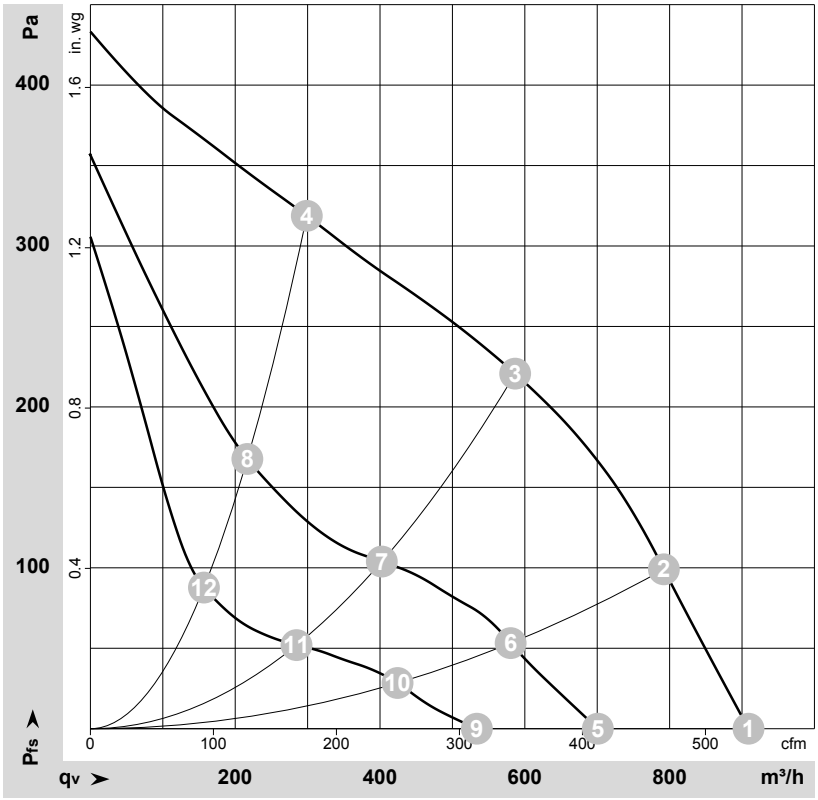
1	blue (N)	2	brown	3	yellow
4	Level 1 (white)	5	Level 2 (grey)	6	Level 3 (black)
7	L1	8	PE (green/yellow)		

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Charts: Air flow 50 Hz



ρ = 1.15 kg/m³ ± 2 %

Measurement: LU-186317-1
Measurement: LU-186318-1
Measurement: LU-186319-1

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: LwA measured as per ISO 13347 / LpA 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

	Stage	Conn.	U	f	n	P_e	I	LpA_{in}	LwA_{in}	q_V	p_{fs}	q_V	p_{fs}
			V	Hz	min^{-1}	W	A	dB(A)	dB(A)	m^3/h	Pa	cfm	in. wg
1	3	1~	230	50	2600	93	0.43	66	72	910	0	535	0.00
2	3	1~	230	50	2550	98	0.45	64	70	790	100	465	0.40
3	3	1~	230	50	2500	105	0.47	57	65	585	220	345	0.88
4	3	1~	230	50	2540	99	0.45	60	67	300	320	175	1.28
5	2	1~	230	50	2040	86	0.38	62	69	700	0	415	0.00
6	2	1~	230	50	1895	91	0.40	58	65	580	53	340	0.21
7	2	1~	230	50	1720	97	0.42	49	57	400	104	235	0.42
8	2	1~	230	50	1845	92	0.40	50	58	215	167	130	0.67
9	1	1~	230	50	1570	85	0.37	55	64	535	0	315	0.00
10	1	1~	230	50	1400	88	0.38	51	59	425	29	250	0.12
11	1	1~	230	50	1225	89	0.39	44	51	285	52	170	0.21
12	1	1~	230	50	1340	87	0.38	43	51	155	88	90	0.35

Conn. = Connection · U = Supply voltage · f = Frequency · n = Speed (rpm) · P_e = Power input · I = Current draw · LpA_{in} = Sound pressure level inlet side · LwA_{in} = Sound power level inlet side
q_V = Air flow · p_{fs} = Pressure increase

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