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

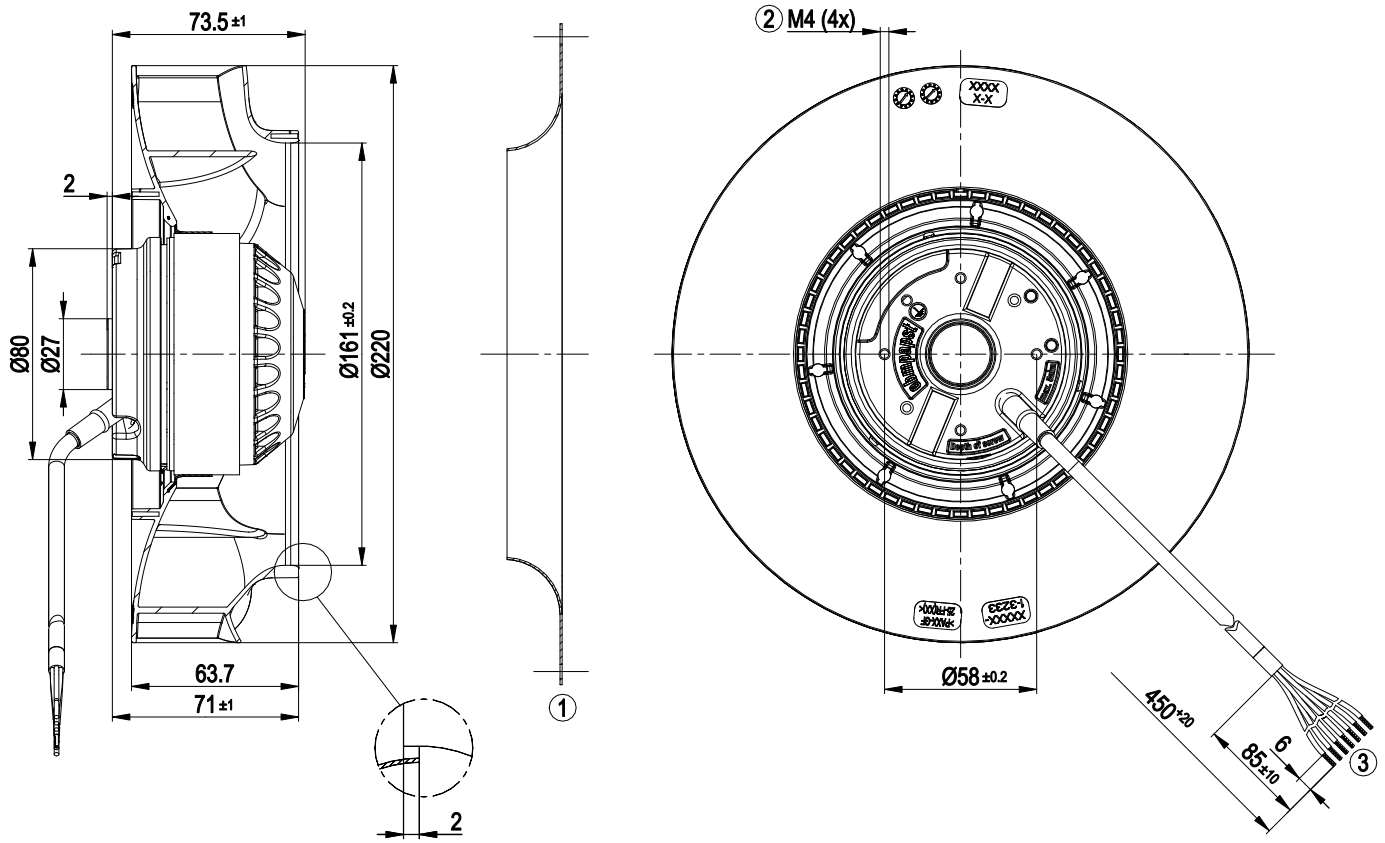
Mass	1.8 kg
Size	220 mm
Surface of rotor	Coated in black
Material of impeller	PA plastic
Direction of rotation	Clockwise, seen on rotor
Type of protection	IP 44; Depending on installation and position as per EN 60034-5
Insulation class	"F"
Humidity (F)/environmental protection class (H)	H0+
Max. permissible 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
Condensate discharge 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



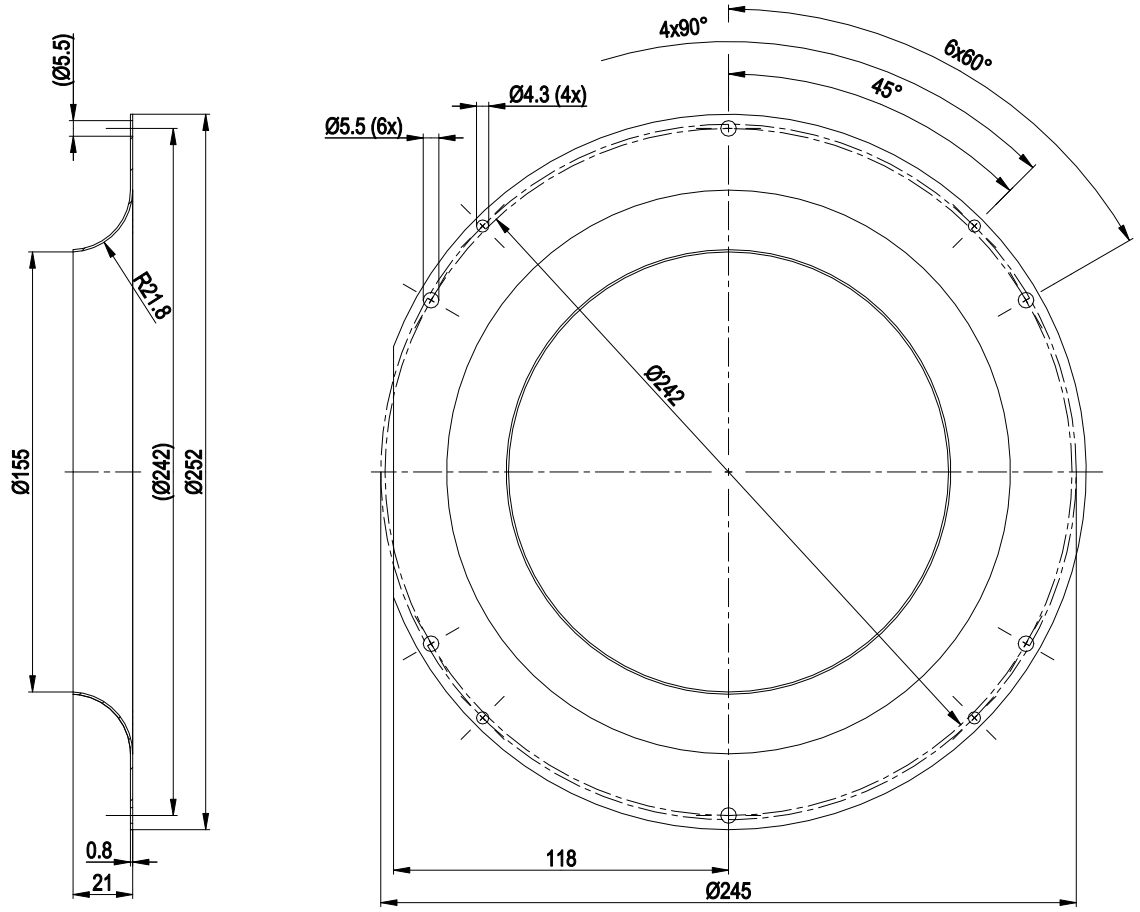
1	Accessory part: Inlet nozzle 09609-2-4013 not included in scope of delivery
2	Depth of screw max. 5 mm
3	Connection line halogen- and silicone-free 7x 0.5 mm², 7x lead tips crimped

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Accessory part

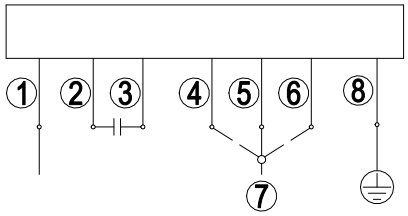


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Connection screen



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

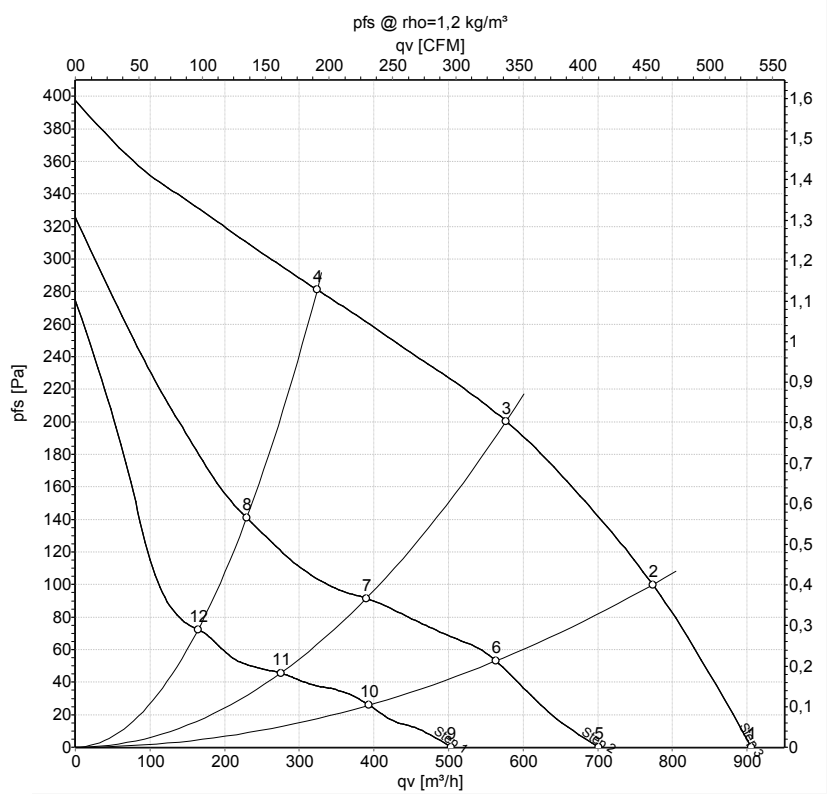
1	blue (N)	2	brown	3	yellow
4	Level 1 (white)	5	Level 2 (grey)	6	Level 3 (black)
7	L1	8	PE (green/yellow)		

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Charts: Air flow 50 Hz



Measurement: LU-157848-1
Measurement: LU-157849-1
Measurement: LU-157850-1

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	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	inH2O
1	3	230	50	2605	91	0.41	905	0	535	0.00
2	3	230	50	2560	96	0.43	775	100	455	0.40
3	3	230	50	2500	105	0.47	575	200	340	0.80
4	3	230	50	2545	97	0.44	325	280	190	1.12
5	2	230	50	2020	86	0.38	700	0	415	0.00
6	2	230	50	1875	90	0.39	565	53	330	0.21
7	2	230	50	1710	95	0.41	390	92	230	0.37
8	2	230	50	1810	91	0.40	230	141	135	0.57
9	1	230	50	1490	85	0.37	505	0	295	0.00
10	1	230	50	1320	86	0.38	395	26	230	0.10
11	1	230	50	1205	87	0.38	275	46	160	0.18
12	1	230	50	1295	86	0.37	165	73	95	0.29

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

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