

EC centrifugal fans

backward curved, Ø 175



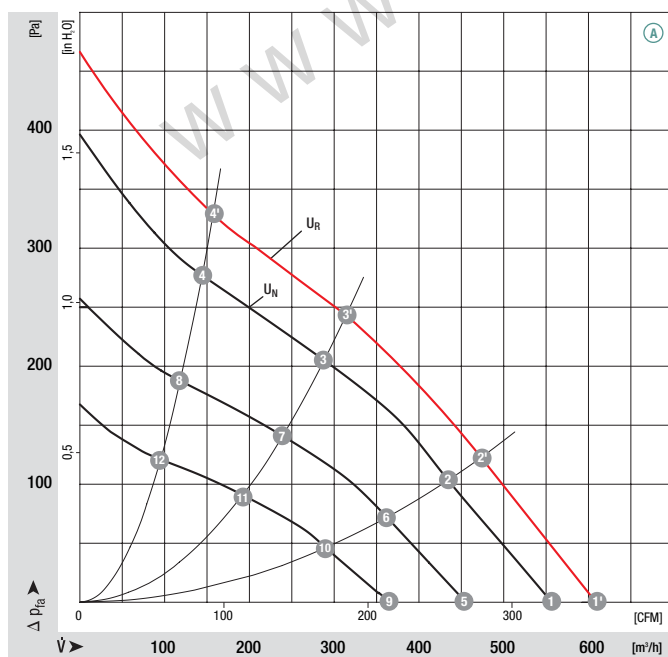
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VDC	Voltage range VDC	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 600
R1G 175	M1G 055-BD	(A)	24	16-28	565	3100	34	1.60	65	-25 to +60	G)
R1G 175	M1G 055-BD	(A)	48	36-57	565	3100	34	1.00	65	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	3390	46	67	—
(A) 2'	3200	51	60	49
(A) 3'	3170	51	58	58
(A) 4'	3300	51	66	39
(A) 1	3100	34	65	—
(A) 2	2910	39	58	49
(A) 3	2880	39	56	58
(A) 4	3010	37	64	39
(A) 5	2520	20	60	—
(A) 6	2430	22	54	51
(A) 7	2390	23	51	58
(A) 8	2470	21	60	39
(A) 9	2050	12	56	—
(A) 10	1950	13	50	51
(A) 11	1920	13	56	58
(A) 12	1990	12	53	40

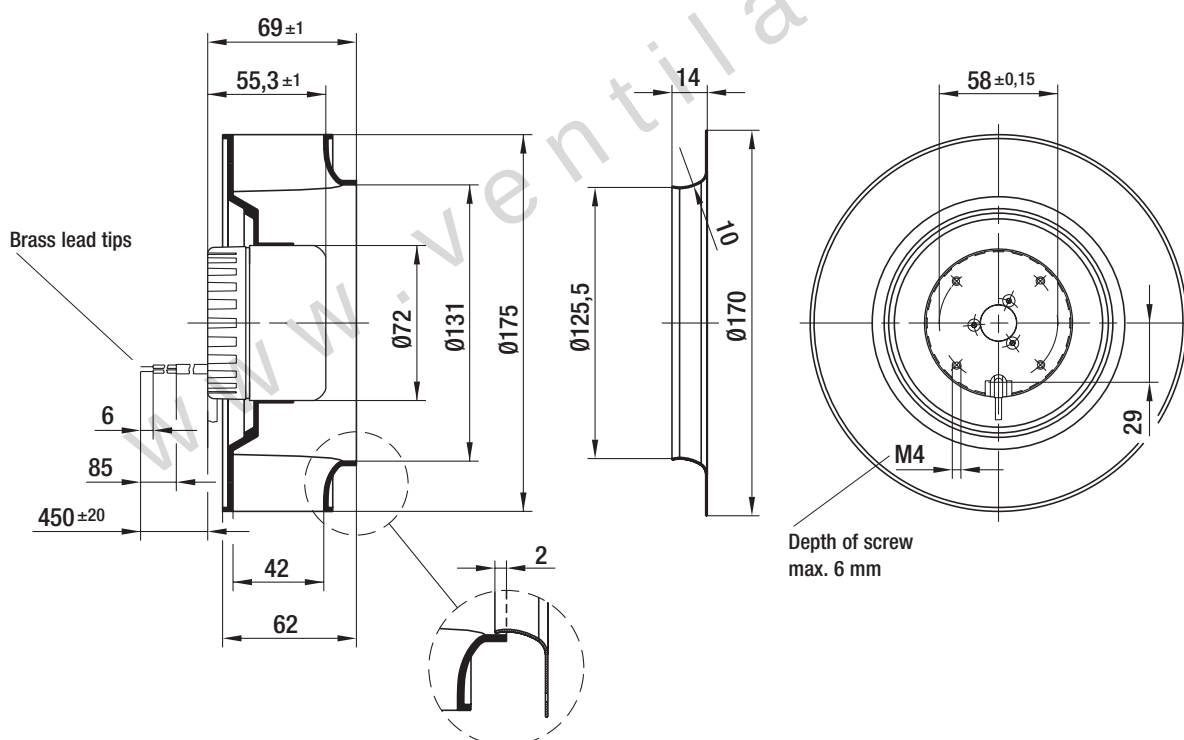
- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
 - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48 VDC) with VDE, CCC



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 175-AB63 -02	0.7	09576-2-4013
R1G 175-AB41 -02	0.7	09576-2-4013



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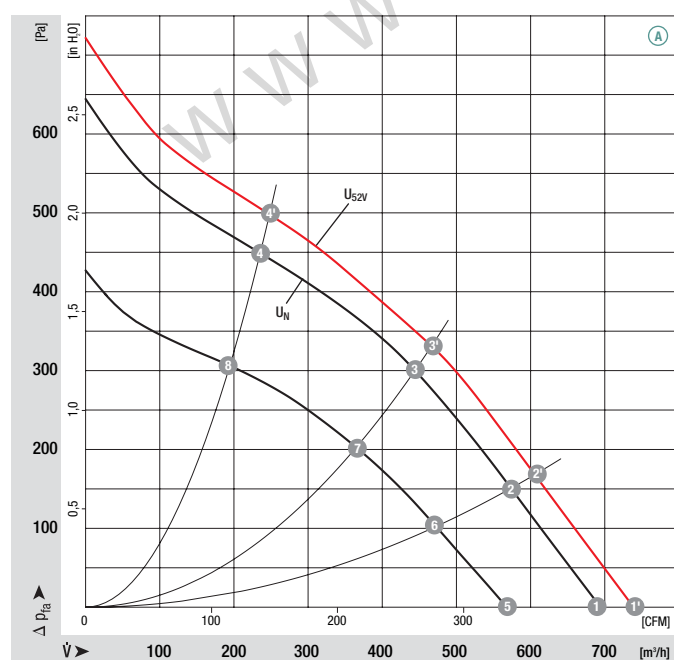
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black, with cooling holes
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VDC	Voltage range VDC	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection
R1G 175	M1G 055-CF	A	48	36-52	695	4000	75	1.75	72	-25 to +40	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	4250	88	73	—
A 2'	4130	93	71	39
A 3'	4050	96	67	55
A 4'	4130	93	72	43
A 1	4000	75	72	—
A 2	3920	80	69	39
A 3	3880	83	66	55
A 4	3920	80	71	43
A 5	3290	42	67	—
A 6	3250	45	64	39
A 7	3160	47	62	55
A 8	3250	46	66	43

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
 - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** CCC



Centrifugal fan	kg	Inlet nozzle (long)
R1G 175-AF29 -04	1.0	09576-2-4013

