

EC centrifugal fans

backward curved, Ø 190



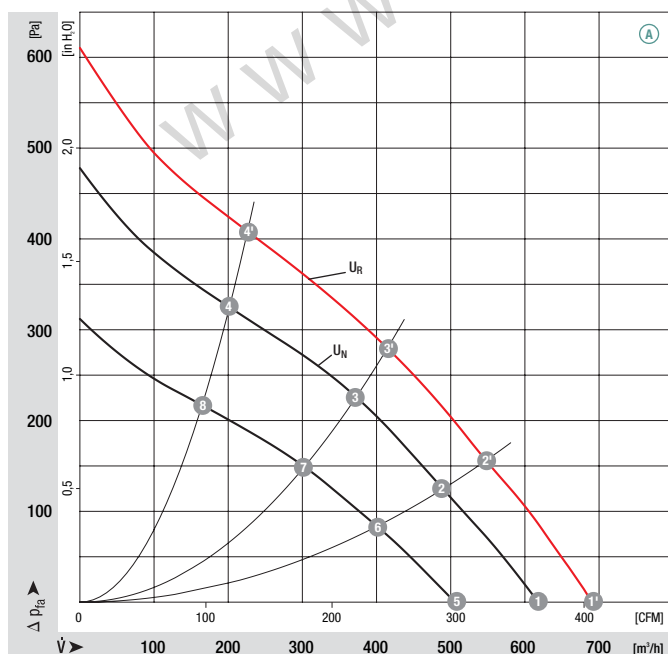
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** (A) (24 VDC) IP 20, (A) (48 VDC) IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate 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 190	M1G 055-CF	(A)	24	16-28	620	2950	51	2.30	68	-25 to +40	G)
R1G 190	M1G 055-CF	(A)	48	36-57	620	2950	51	1.20	68	-25 to +40	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	3300	71	70	—
(A) 2'	3200	75	66	45
(A) 3'	3160	77	63	53
(A) 4'	3290	72	67	42
(A) 1	2950	51	68	—
(A) 2	2870	54	63	45
(A) 3	2830	56	60	53
(A) 4	2940	51	63	42
(A) 5	2390	28	62	—
(A) 6	2340	30	58	45
(A) 7	2320	31	54	53
(A) 8	2390	28	58	42

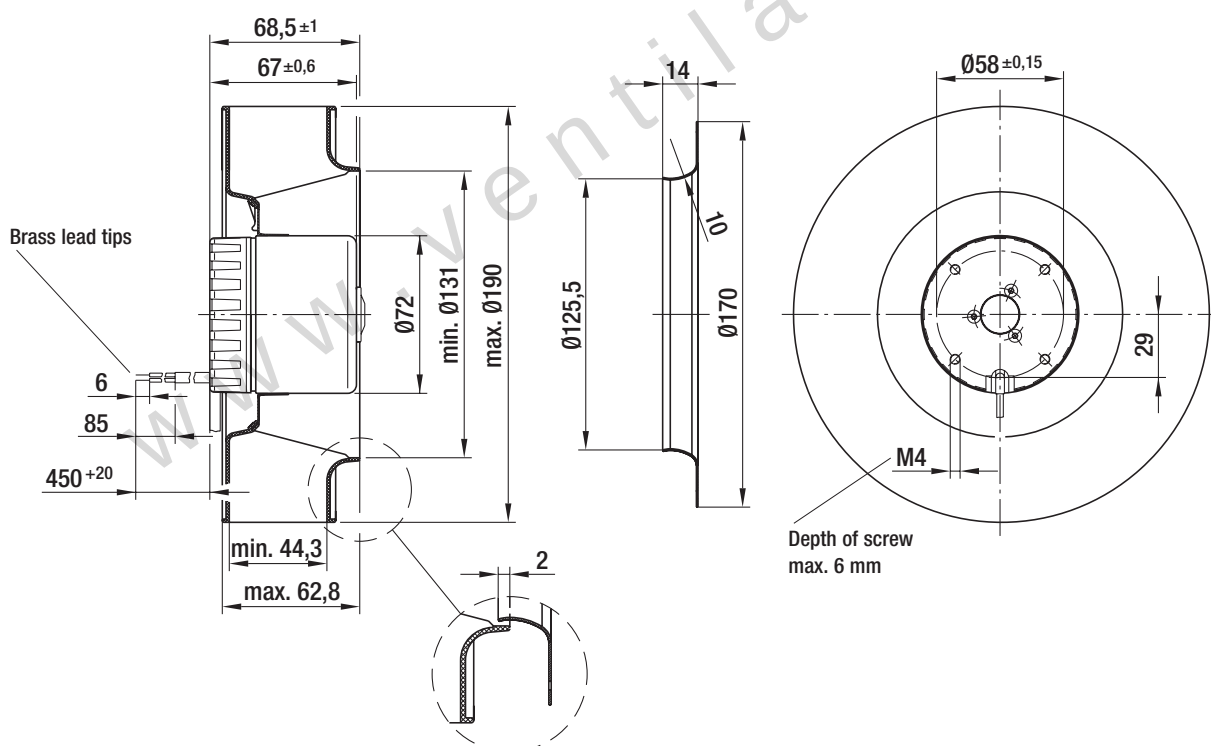
- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
 - Reverse polarity and locked-rotor protection
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:**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



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 190-AB27 -02	1.0	09576-2-4013
R1G 190-AB25 -02	1.0	09576-2-4013



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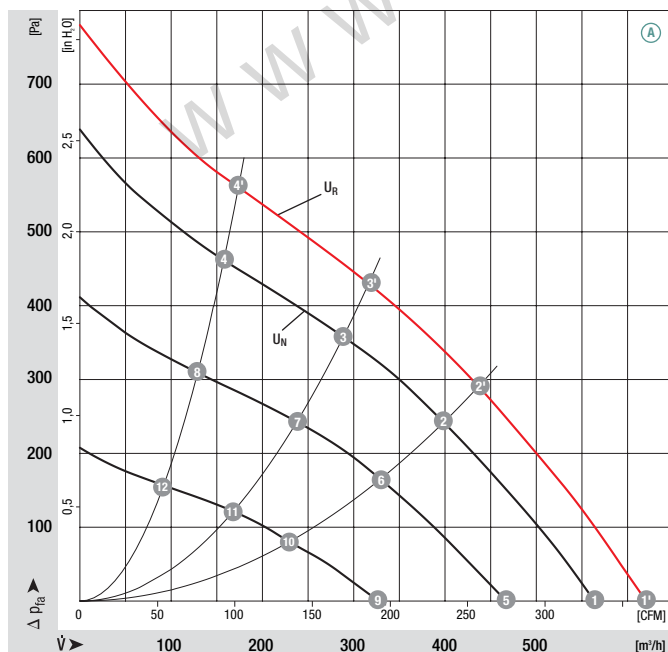
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of 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 190	M1G 074-BF	(A)	24	16-28	560	3250	80	3.70	68	-25 to +60	G)
R1G 190	M1G 074-BF	(A)	48	36-57	545	3200	71	1.65	68	-25 to +60	G)

subject to alterations

Curves (established at 24 VDC)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	3580	106	71	—
(A) 2'	3590	105	66	41
(A) 3'	3630	103	65	45
(A) 4'	3770	97	69	33
(A) 1	3250	80	68	—
(A) 2	3275	80	64	42
(A) 3	3300	79	63	45
(A) 4	3400	74	66	34
(A) 5	2700	47	65	—
(A) 6	2710	47	59	41
(A) 7	2740	45	58	44
(A) 8	2795	42	61	33
(A) 9	1910	19	60	—
(A) 10	1910	20	51	39
(A) 11	1940	19	49	43
(A) 12	1985	18	52	33

- **Technical features:**
 - Control input 0-10 VDC / PWM
- **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 CCC
- Tach output
- Reverse polarity and locked-rotor protection



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 190-AC37 -52	1.3	09576-2-4013
R1G 190-AC11 -52	1.3	09576-2-4013

