

EC centrifugal fan

backward curved, Ø 175



- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

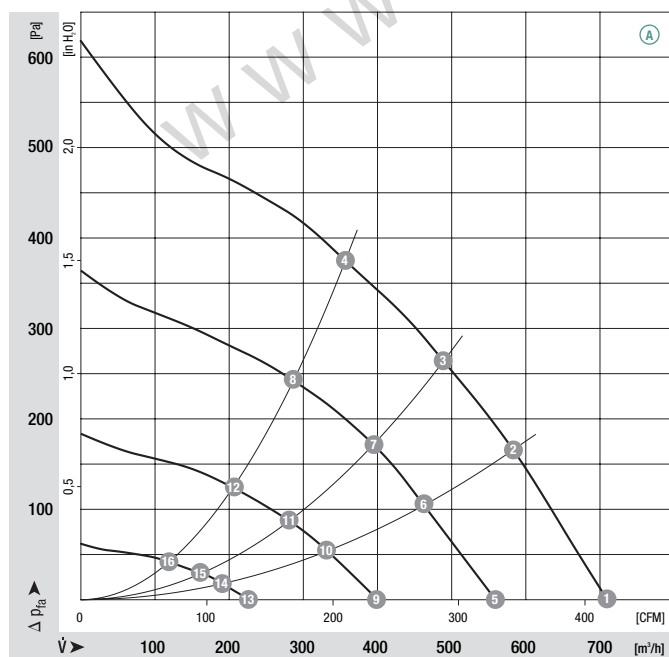
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Perm. amb. temp. °C	Electr. connection p. 601
R3G 175	M3G 055-CF	Ⓐ	1~ 115	50/60	3970	90	1.30	-25 to +60	H1)

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	3970	72	1.10	72	—
Ⓐ 2	3870	81	1.20	67	45
Ⓐ 3	3810	85	1.20	66	57
Ⓐ 4	3790	88	1.30	65	52
Ⓐ 5	3180	38	0.60	65	—
Ⓐ 6	3110	45	0.70	61	39
Ⓐ 7	3120	46	0.70	58	53
Ⓐ 8	3110	47	0.70	56	51
Ⓐ 9	2270	17	0.30	59	—
Ⓐ 10	2240	20	0.35	54	38
Ⓐ 11	2240	20	0.35	50	51
Ⓐ 12	2240	21	0.35	50	50
Ⓐ 13	1310	6	0.10	45	—
Ⓐ 14	1295	7	0.10	40	40
Ⓐ 15	1285	7	0.10	37	53
Ⓐ 16	1290	7	0.10	35	54

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST; VDE, UL, CSA, CCC are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Centrifugal fan

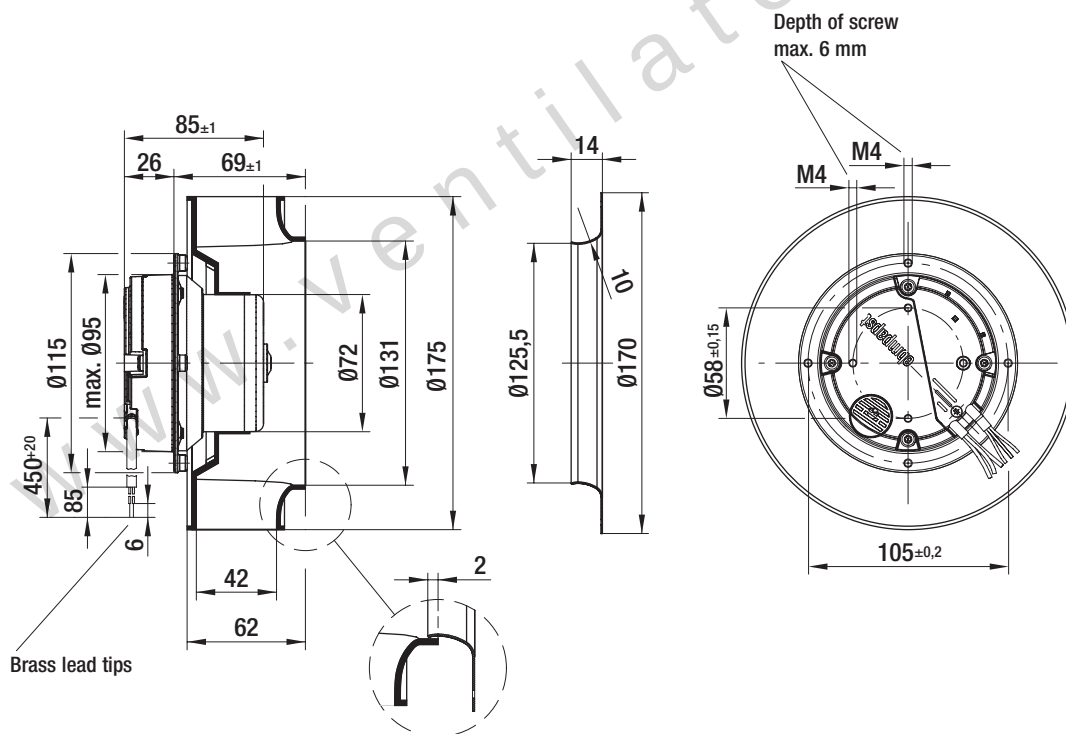
kg

Inlet nozzle (long)

R3G 175-AF25 -02

1.2

09576-2-4013



EC centrifugal fan

backward curved, Ø 175

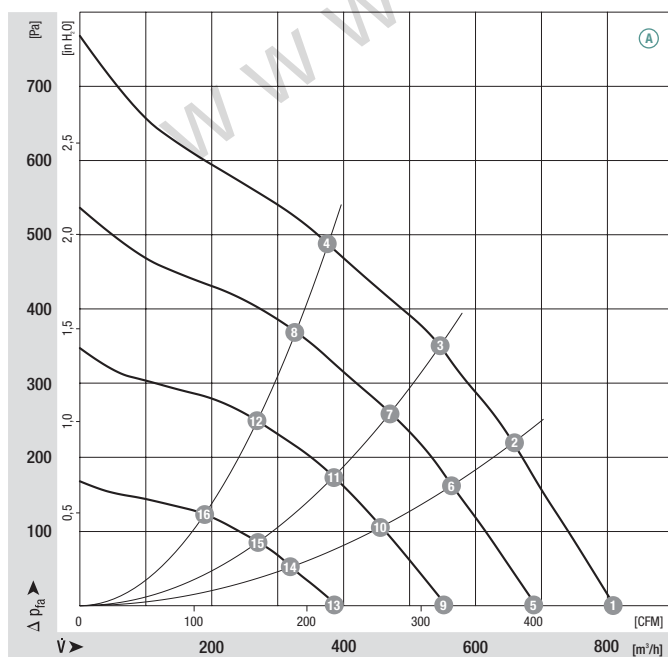


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- **Condensate discharges:** None
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- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	°C	p. 601
R3G 175	M3G 055-CF	Ⓐ	1~ 230	50/60	4460	120	1.00	-25 to +60	H1)

subject to alterations (1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	4460	100	0.75	76	—
Ⓐ 2	4350	112	0.80	69	57
Ⓐ 3	4300	115	0.85	66	68
Ⓐ 4	4260	118	0.85	68	60
Ⓐ 5	3800	65	0.50	71	—
Ⓐ 6	3730	72	0.55	65	56
Ⓐ 7	3710	76	0.55	74	66
Ⓐ 8	3710	78	0.60	64	60
Ⓐ 9	3110	37	0.30	66	—
Ⓐ 10	3070	42	0.30	60	51
Ⓐ 11	3060	44	0.35	58	61
Ⓐ 12	3040	45	0.35	59	58
Ⓐ 13	2170	17	0.15	59	—
Ⓐ 14	2150	18	0.15	54	40
Ⓐ 15	2150	18	0.15	50	51
Ⓐ 16	2130	19	0.15	50	48

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- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
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Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle (long)

R3G 175-AF19 -02

1.2

09576-2-4013

