

EC centrifugal fan

backward curved, Ø 220



- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **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

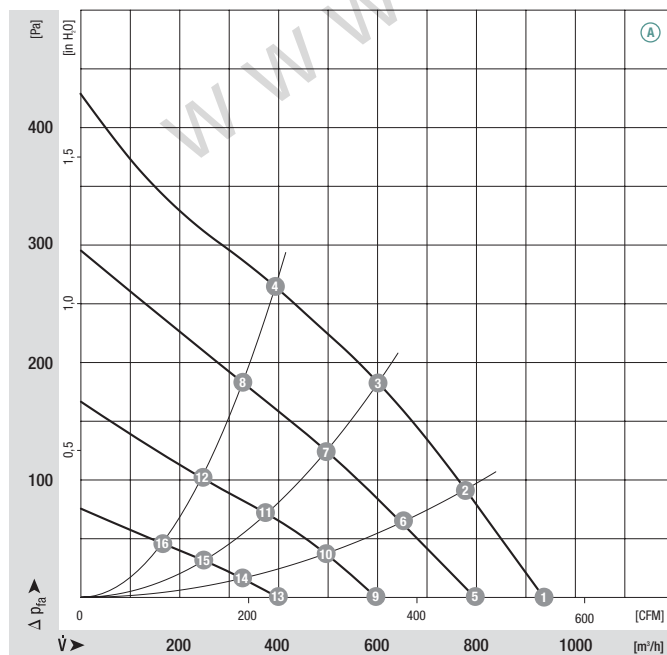
Nominal data

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
R3G 220	M3G 055-CF	Ⓐ	1~ 115	50/60	2620	75	1.10	-25 to +60	p. 601 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	2620	55	0.80	69	—
Ⓐ 2	2480	64	1.00	67	55
Ⓐ 3	2370	71	1.00	59	63
Ⓐ 4	2450	66	1.00	63	47
Ⓐ 5	2340	40	0.60	67	—
Ⓐ 6	2260	48	0.70	64	53
Ⓐ 7	2200	53	0.80	57	62
Ⓐ 8	2250	51	0.80	59	47
Ⓐ 9	1890	22	0.40	64	—
Ⓐ 10	1820	27	0.40	60	48
Ⓐ 11	1790	30	0.50	52	60
Ⓐ 12	1820	28	0.40	55	45
Ⓐ 13	1180	8	0.20	56	—
Ⓐ 14	1150	9	0.20	52	34
Ⓐ 15	1130	10	0.20	42	44
Ⓐ 16	1150	10	0.20	43	33

- **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:** VDE, UL, CSA, CCC, GOST are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Centrifugal fan

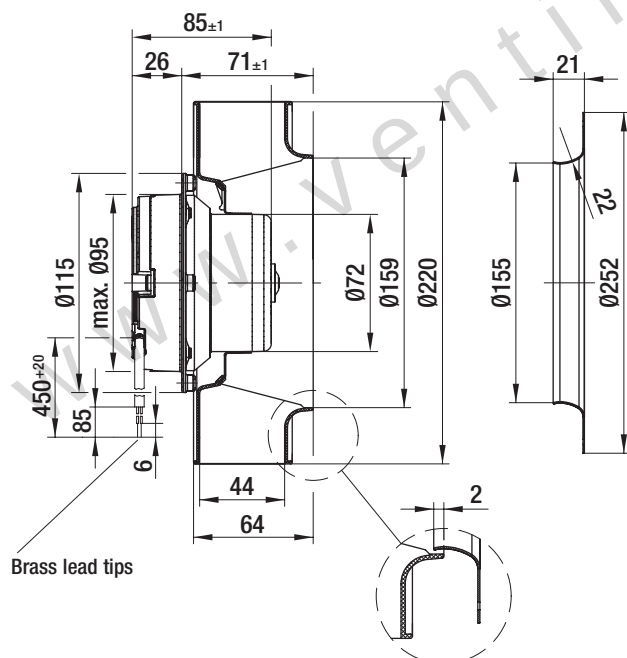
kg

Inlet nozzle (long)

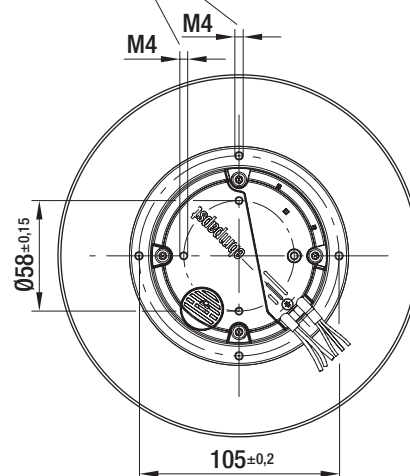
R3G 220-AD21 -02

1.4

09609-2-4013



Depth of screw
max. 6 mm



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- **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

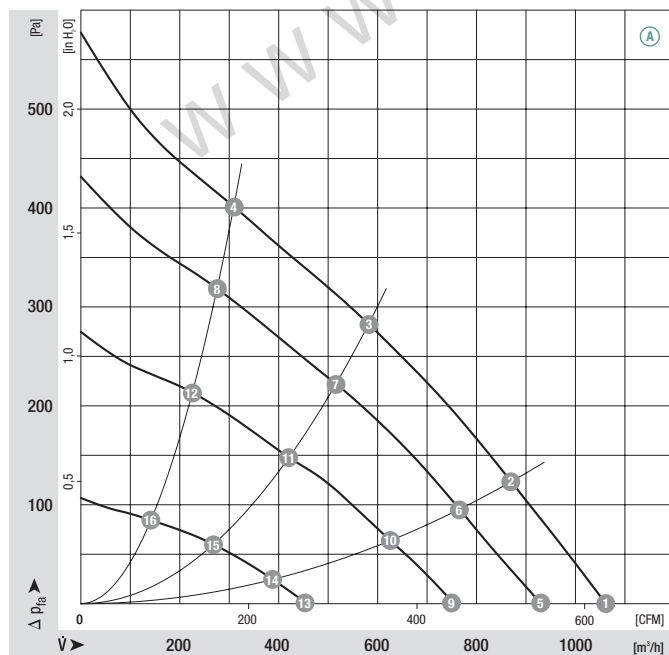
Nominal data

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
R3G 220	M3G 055-CF	Ⓐ	1~ 230	50/60	3030	105	0.80	-25 to +60	p. 601 H1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	3030	80	0.60	71	—
Ⓐ 2	2880	93	0.70	68	57
Ⓐ 3	2750	102	0.75	62	64
Ⓐ 4	2800	99	0.75	66	48
Ⓐ 5	2660	54	0.40	69	—
Ⓐ 6	2540	64	0.50	66	56
Ⓐ 7	2450	73	0.55	59	64
Ⓐ 8	2500	70	0.55	63	48
Ⓐ 9	2150	30	0.25	65	—
Ⓐ 10	2070	36	0.30	62	54
Ⓐ 11	2010	41	0.30	55	62
Ⓐ 12	2060	39	0.30	57	48
Ⓐ 13	1340	10	0.10	58	—
Ⓐ 14	1310	12	0.10	55	38
Ⓐ 15	1280	13	0.10	48	48
Ⓐ 16	1300	13	0.10	45	36

- **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:** UL, CSA, CCC, GOST are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Centrifugal fan

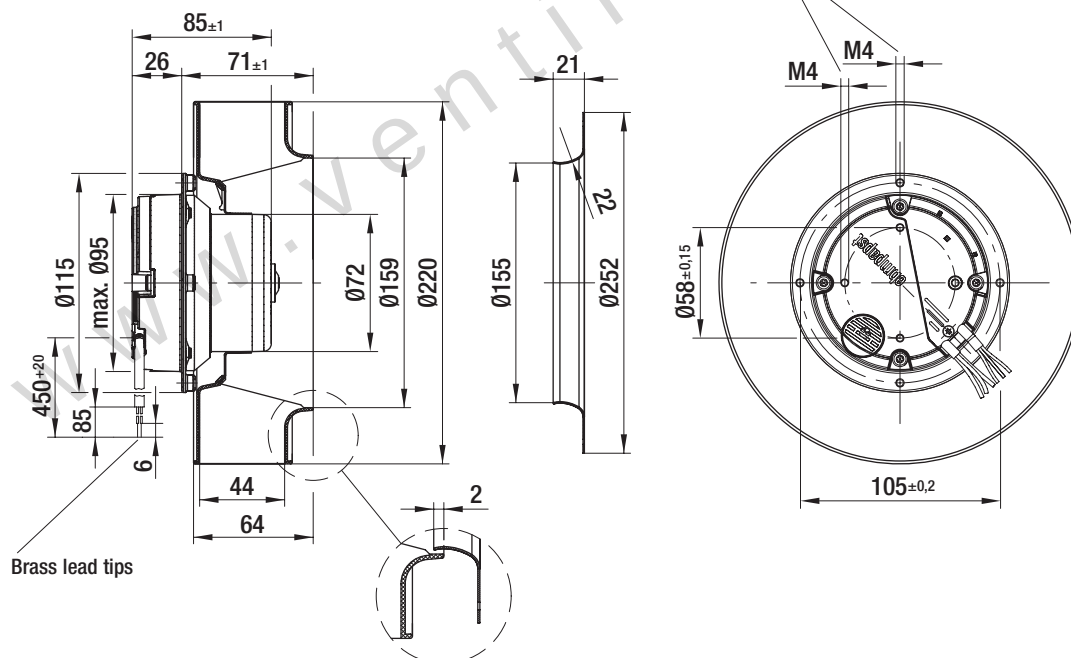
kg

Inlet nozzle (long)

R3G 220-AD17 -02

1.4

09609-2-4013



EC centrifugal fan

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- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

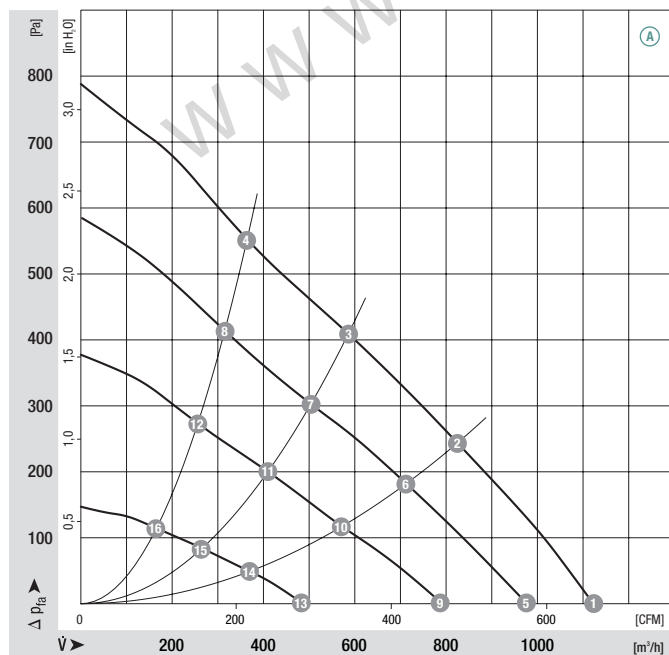
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 603
R3G 220	M3G 074-CF	A	1~ 100-130	50/60	3590	160	2.50	-25 to +60	J1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
A 1	3590	158	2.00	74	—
A 2	3360	164	2.10	70	47
A 3	3260	160	2.00	66	58
A 4	3330	164	2.10	71	47
A 5	3110	106	1.40	72	—
A 6	2890	110	1.40	66	45
A 7	2810	108	1.40	62	54
A 8	2870	114	1.50	66	44
A 9	2510	62	0.90	68	—
A 10	2350	60	0.80	62	43
A 11	2280	60	0.80	56	52
A 12	2330	61	0.90	60	44
A 13	1590	21	0.30	60	—
A 14	1520	23	0.30	52	31
A 15	1470	21	0.30	46	42
A 16	1500	21	0.30	50	34

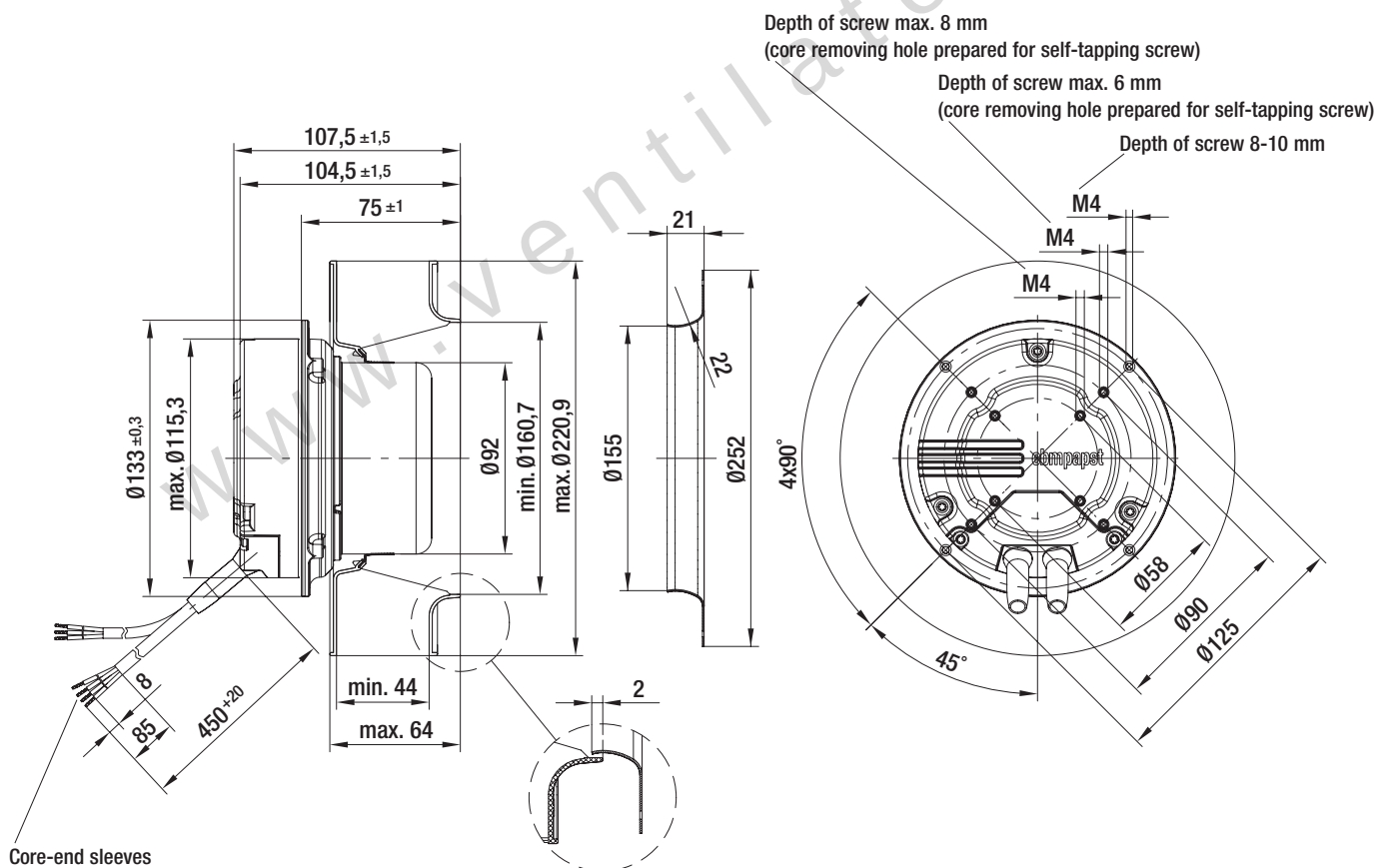
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R3G 220-AE70 -01	2.2	09609-2-4013



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- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
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Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

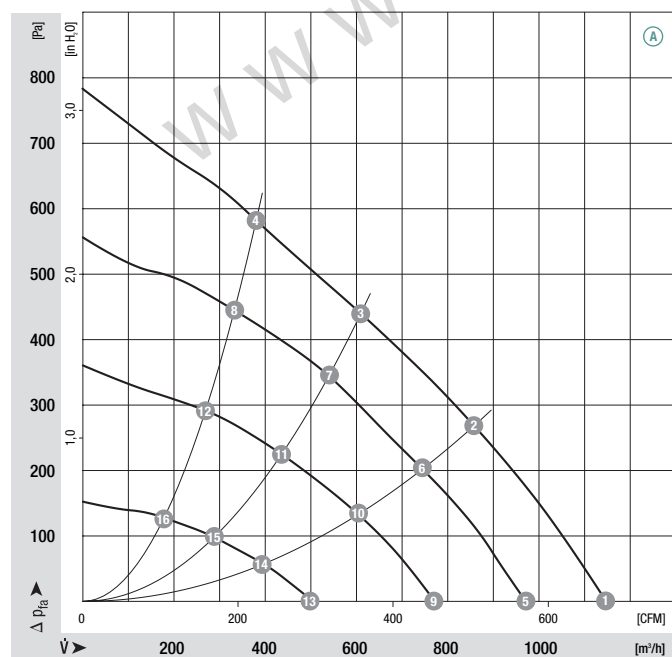
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
VAC	Hz	rpm	W	A	°C	p. 603			
R3G 220	M3G 074-CF	Ⓐ	1~ 200-277	50/60	3560	170	1.20	-25 to +60	J1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	3560	151	1.10	76	—
Ⓐ 2	3400	172	1.20	70	51
Ⓐ 3	3320	166	1.20	67	53
Ⓐ 4	3440	173	1.20	71	44
Ⓐ 5	3080	103	0.80	71	—
Ⓐ 6	3010	120	0.90	67	49
Ⓐ 7	3000	123	0.90	63	53
Ⓐ 8	3035	117	0.90	67	43
Ⓐ 9	2500	62	0.50	67	—
Ⓐ 10	2435	66	0.50	63	46
Ⓐ 11	2430	69	0.50	58	52
Ⓐ 12	2455	71	0.50	61	41
Ⓐ 13	1625	23	0.20	60	—
Ⓐ 14	1595	24	0.20	54	49
Ⓐ 15	1595	26	0.20	48	52
Ⓐ 16	1605	24	0.20	51	45

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **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, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R3G 220-AE50 -01	2.2	09609-2-4013

