

EC centrifugal fan

backward curved, Ø 190



- **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

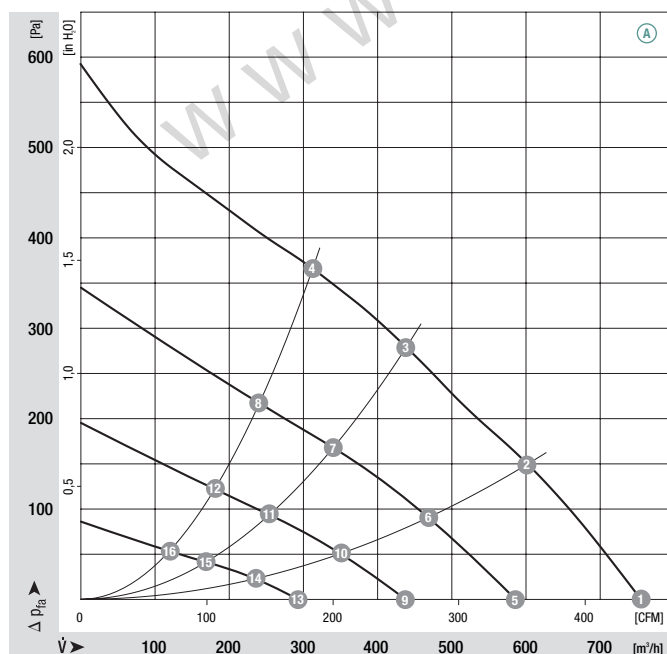
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Perm. amb. temp. °C	Electr. connection p. 601
R3G 190	M3G 055-CF	Ⓐ	1~ 115	50/60	3370	87	1.40	-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	3370	76	1.10	70	—
Ⓐ 2	3250	81	1.20	64	44
Ⓐ 3	3220	84	1.20	63	55
Ⓐ 4	3190	85	1.30	60	55
Ⓐ 5	2715	42	0.70	64	—
Ⓐ 6	2690	46	0.70	63	43
Ⓐ 7	2670	48	0.80	58	54
Ⓐ 8	2655	49	0.80	56	56
Ⓐ 9	2310	27	0.40	61	—
Ⓐ 10	2285	29	0.50	56	42
Ⓐ 11	2265	31	0.50	55	52
Ⓐ 12	2260	32	0.50	52	53
Ⓐ 13	1780	15	0.20	58	—
Ⓐ 14	1760	16	0.30	52	35
Ⓐ 15	1750	17	0.30	48	43
Ⓐ 16	1745	17	0.30	45	44

- **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

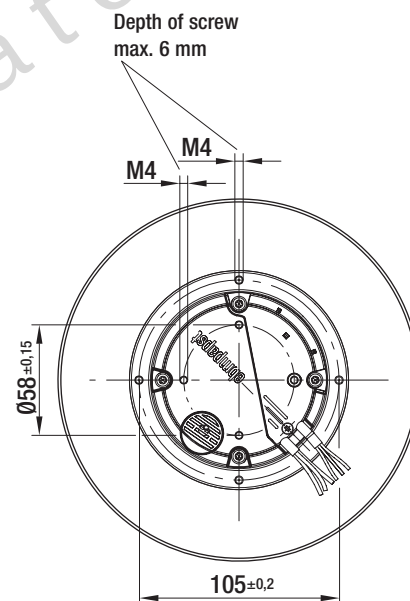
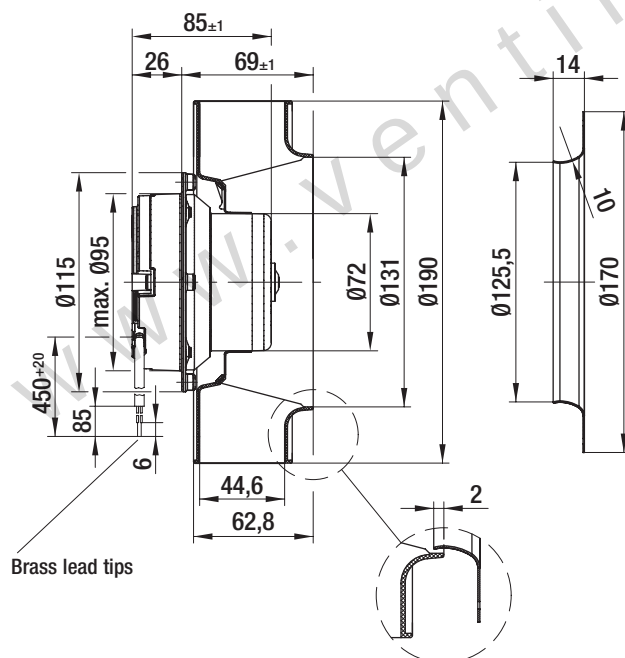
kg

Inlet nozzle (long)

R3G 190-AB15 -02

1.3

09576-2-4013



EC centrifugal fan

backward curved, Ø 190

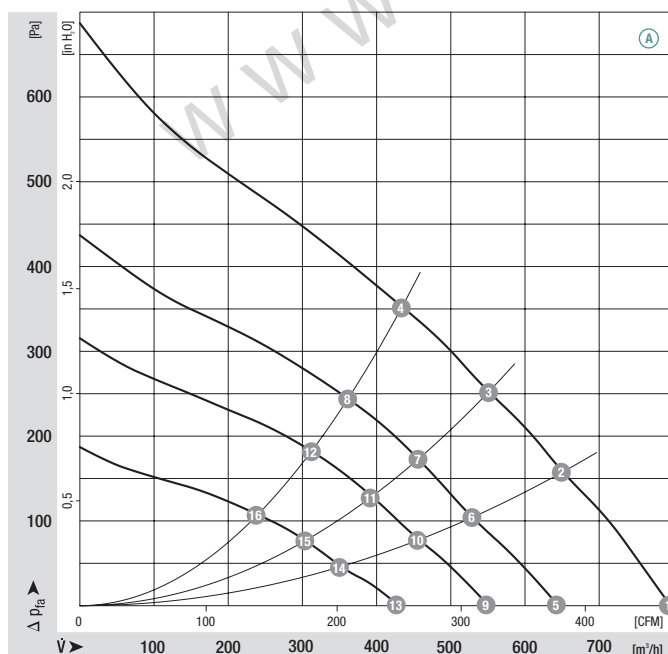


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate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

Nominal data		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 190	M3G 055-CF	Ⓐ 1~ 230	50/60	3570	105	0.90	-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]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	3570	90	0.65	72	—
Ⓐ 2	3490	96	0.70	66	47
Ⓐ 3	3440	101	0.75	64	57
Ⓐ 4	3410	102	0.75	62	59
Ⓐ 5	2950	51	0.40	65	—
Ⓐ 6	2880	55	0.40	62	44
Ⓐ 7	2860	58	0.45	60	55
Ⓐ 8	2840	60	0.45	57	58
Ⓐ 9	2510	33	0.25	62	—
Ⓐ 10	2480	36	0.30	58	43
Ⓐ 11	2470	39	0.30	57	53
Ⓐ 12	2450	40	0.30	54	56
Ⓐ 13	1940	18	0.15	57	—
Ⓐ 14	1920	19	0.15	54	37
Ⓐ 15	1900	20	0.15	51	46
Ⓐ 16	1890	22	0.15	47	48

- **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

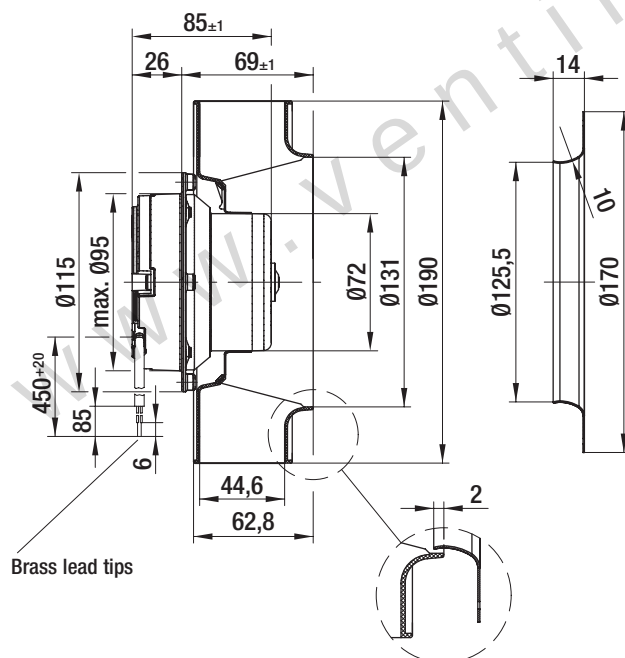
kg

Inlet nozzle (long)

R3G 190-AB23 -02

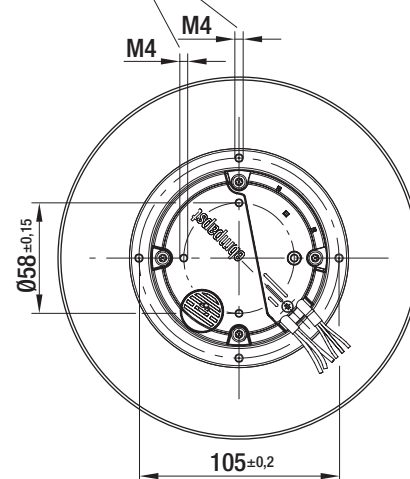
1.3

09576-2-4013



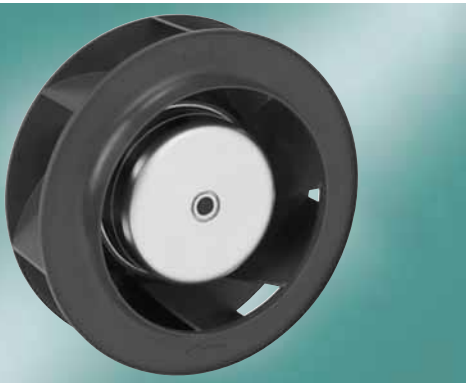
Brass lead tips

Depth of screw
max. 6 mm



EC centrifugal fan

backward curved, Ø 190



- **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:** 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

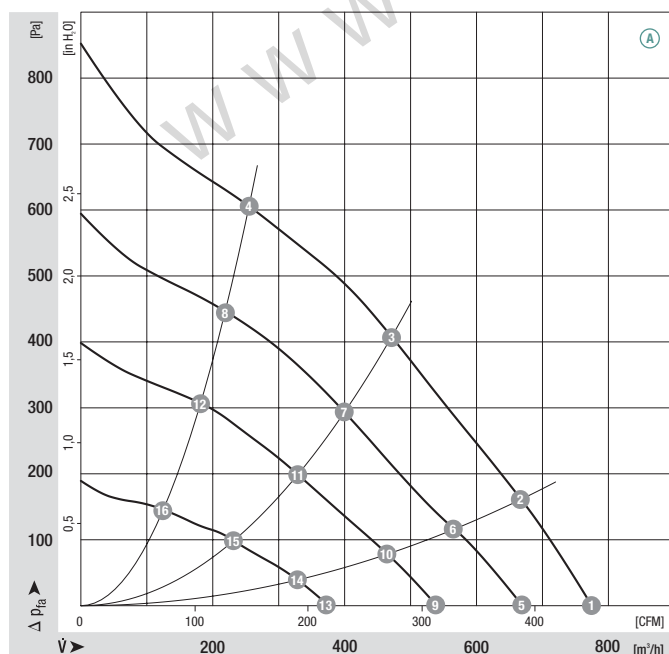
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	°C	p. 603
R3G 190	M3G 074-BF	 1~ 100-130	50/60	3960	170	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]	Lp _A [dB(A)]	η _{IL} [%]
A 1	3960	146	1.80	73	—
A 2	3940	149	1.90	71	32
A 3	3900	156	2.00	68	48
A 4	4000	147	1.90	69	43
A 5	3430	94	1.20	70	—
A 6	3370	95	1.30	66	31
A 7	3310	99	1.30	64	47
A 8	3420	95	1.30	64	41
A 9	2830	58	0.80	64	—
A 10	2790	59	0.80	62	28
A 11	2720	58	0.80	58	45
A 12	2830	57	0.80	60	39
A 13	1960	24	0.40	58	—
A 14	1950	25	0.40	56	23
A 15	1910	25	0.40	50	37
A 16	1940	24	0.40	50	31

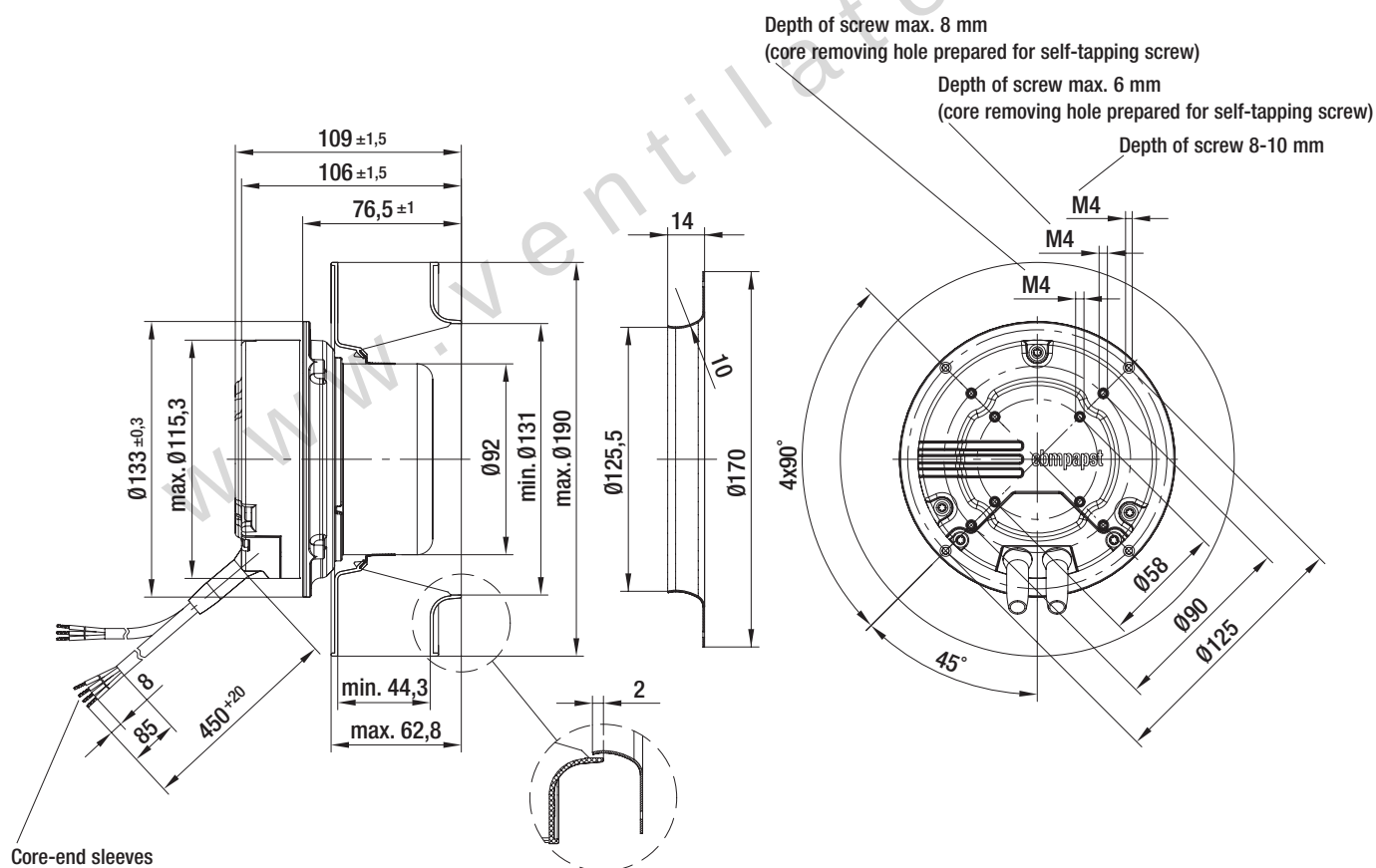
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection 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 190-AF60 -01	1.8	09576-2-4013



EC centrifugal fan

backward curved, Ø 190



- **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:** 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

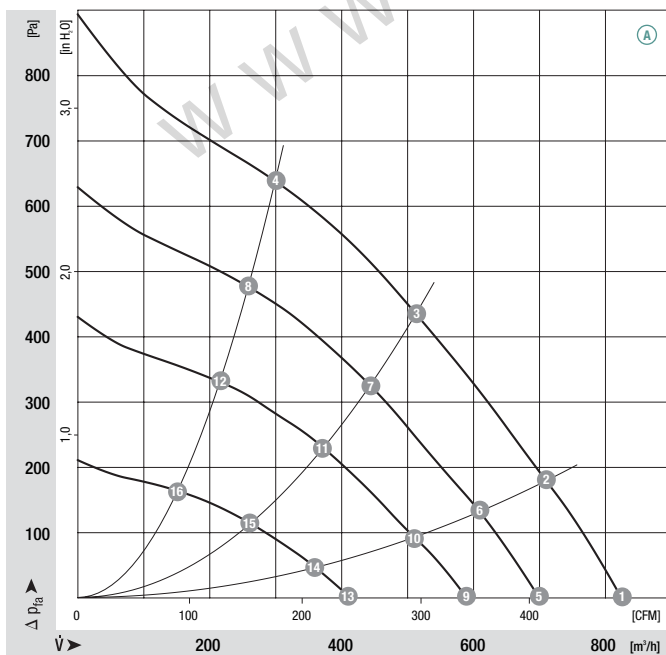
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	°C	p. 603
R3G 190	M3G 074-BF	Ⓐ 1~ 200-277	50/60	4050	156	1.15	-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]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	4050	149	1.10	74	—
Ⓐ 2	4040	156	1.10	72	35
Ⓐ 3	4010	155	1.10	69	52
Ⓐ 4	4090	142	1.00	69	43
Ⓐ 5	3490	101	0.70	70	—
Ⓐ 6	3460	104	0.70	68	33
Ⓐ 7	3250	103	0.70	65	51
Ⓐ 8	3535	96	0.70	65	41
Ⓐ 9	2925	62	0.50	66	—
Ⓐ 10	2915	63	0.50	64	33
Ⓐ 11	2900	63	0.50	60	52
Ⓐ 12	2930	60	0.50	61	42
Ⓐ 13	2040	27	0.20	59	—
Ⓐ 14	2050	27	0.20	56	33
Ⓐ 15	2040	27	0.20	51	51
Ⓐ 16	2060	26	0.20	51	39

- **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 190-AF50 -01	1.8	09576-2-4013

