

EC centrifugal fans

backward curved, 3-D, Ø 310



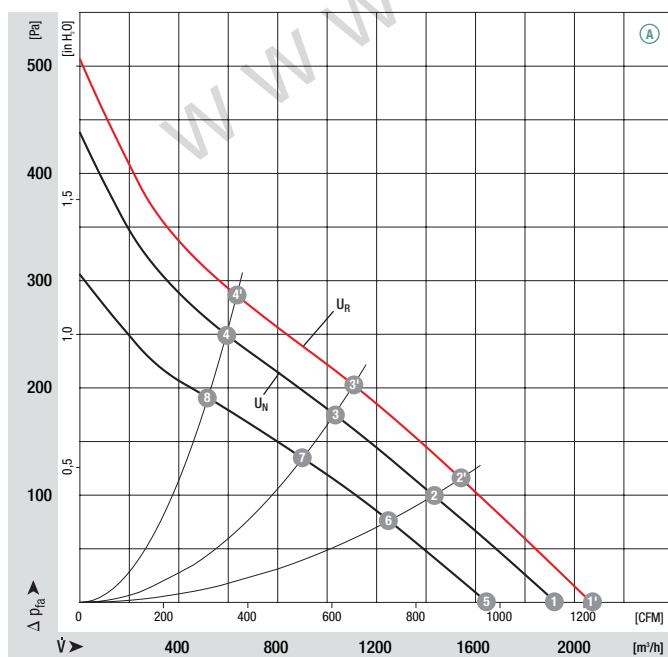
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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 310	M1G 074-CF	Ⓐ	24	16-28	1910	1600	90	4.20	64	-25 to +45	G)
R1G 310	M1G 074-CF	Ⓐ	48	36-57	1910	1600	90	2.20	64	-25 to +45	G)

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
Ⓐ 1'	1720	113	66	—
Ⓐ 2'	1540	122	60	62
Ⓐ 3'	1490	124	59	67
Ⓐ 4'	1560	121	63	50
Ⓐ 1	1600	90	64	—
Ⓐ 2	1430	96	58	62
Ⓐ 3	1390	99	58	67
Ⓐ 4	1450	96	61	50
Ⓐ 5	1150	69	60	—
Ⓐ 6	1260	65	55	62
Ⓐ 7	1230	67	54	67
Ⓐ 8	1270	65	58	50

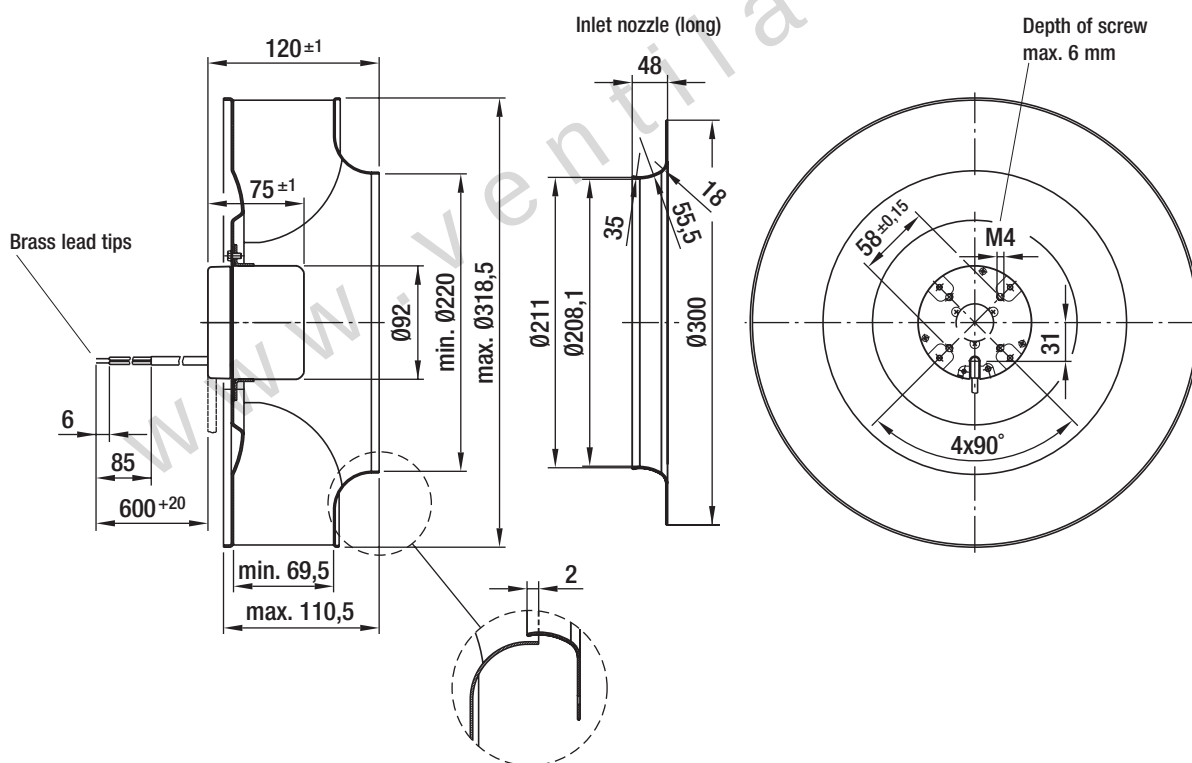
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48 VDC) with CCC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



Mass of
centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)
R1G 310-AD19 -52	2.6	31050-2-4013	31051-2-4013
R1G 310-AD33 -52	2.6	31050-2-4013	31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 310



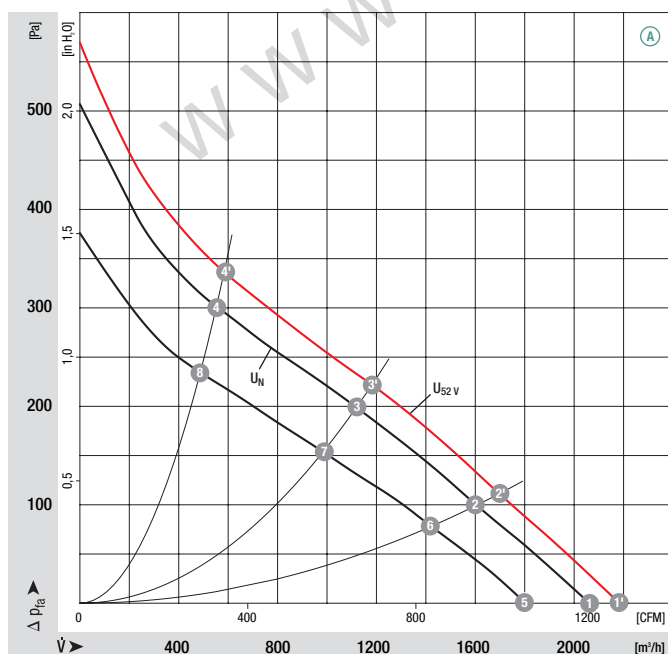
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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
R1G 310	M1G 074-CF	A	48	36-52	2100	1800	120	3.00	67	-25 to +40	p. 600

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
A 1'	1895	130	67	—
A 2'	1720	140	64	59
A 3'	1610	147	60	67
A 4'	1635	146	65	48
A 1	1800	120	67	—
A 2	1610	118	62	59
A 3	1530	122	58	67
A 4	1570	120	63	48
A 5	1570	74	63	—
A 6	1430	80	58	59
A 7	1350	82	54	67
A 8	1400	80	60	48

- **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, CCC
- Tach output
- Reverse polarity and locked-rotor protection



Mass of
centrifugal fan



Centrifugal fan

kg

Inlet nozzle
(long)

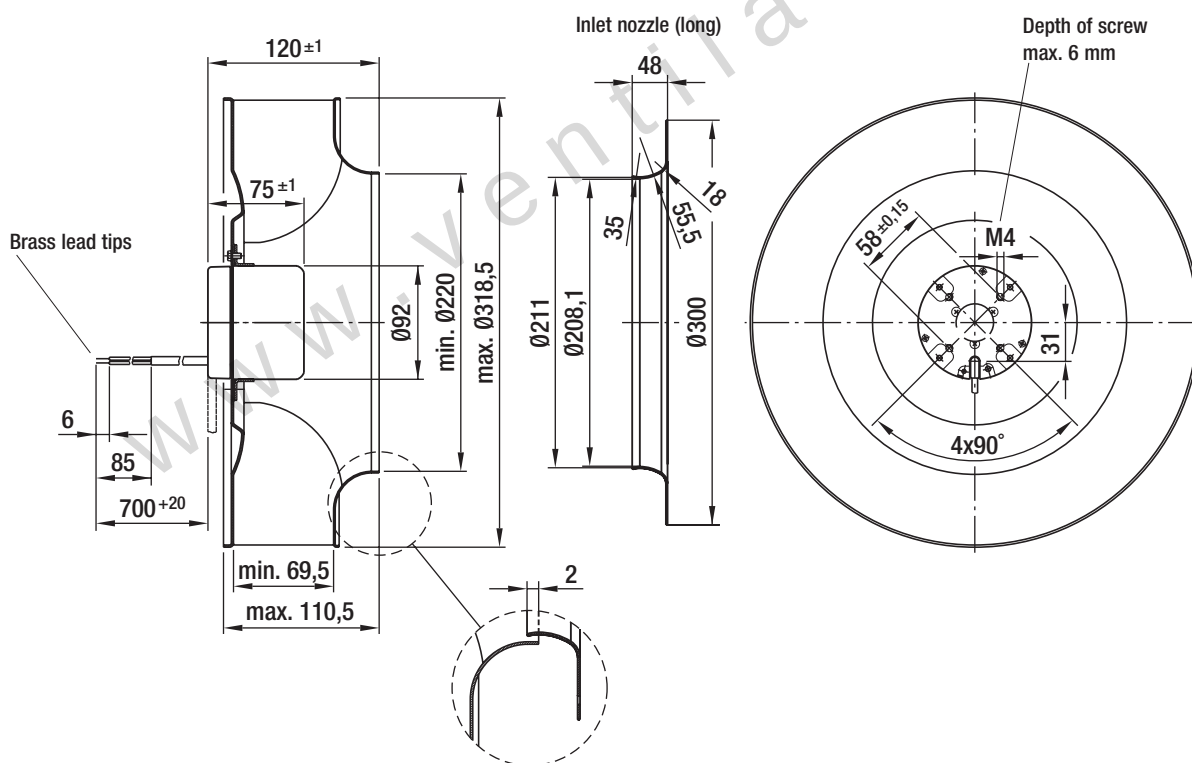
Inlet nozzle
(short)

R1G 310-AD17 -11

2.6

31050-2-4013

31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 310



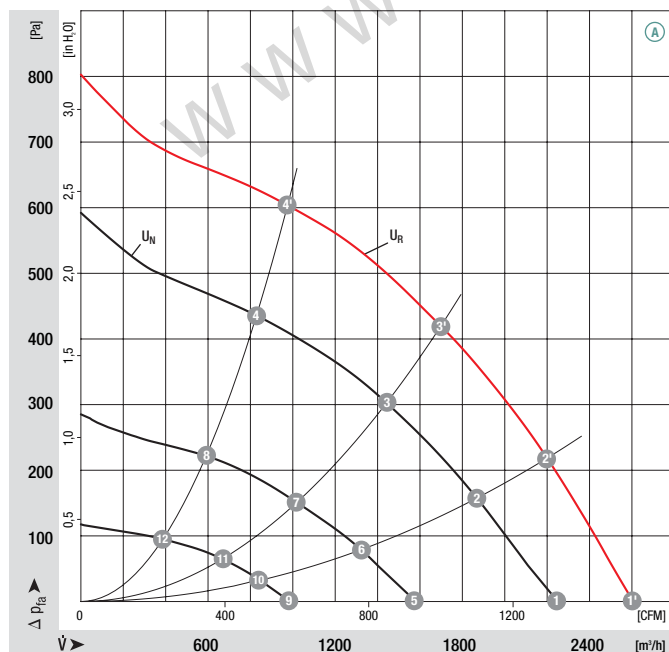
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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
R3G 310	M3G 084-FA	A	48	36-57	2230	2000	190	4.00	71	-25 to +60	G)

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	2395	271	74	—
A 2'	2345	325	71	47
A 3'	2320	362	70	60
A 4'	2330	350	74	54
A 1	2070	178	71	—
A 2	2035	211	67	47
A 3	2015	234	65	60
A 4	2025	227	70	54
A 5	1445	66	61	—
A 6	1430	79	59	47
A 7	1420	88	57	60
A 8	1420	85	62	54
A 9	930	23	50	—
A 10	925	26	48	47
A 11	920	29	47	60
A 12	920	28	51	54

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



Mass of
centrifugal fan



Centrifugal fan

kg

Inlet nozzle
(long)

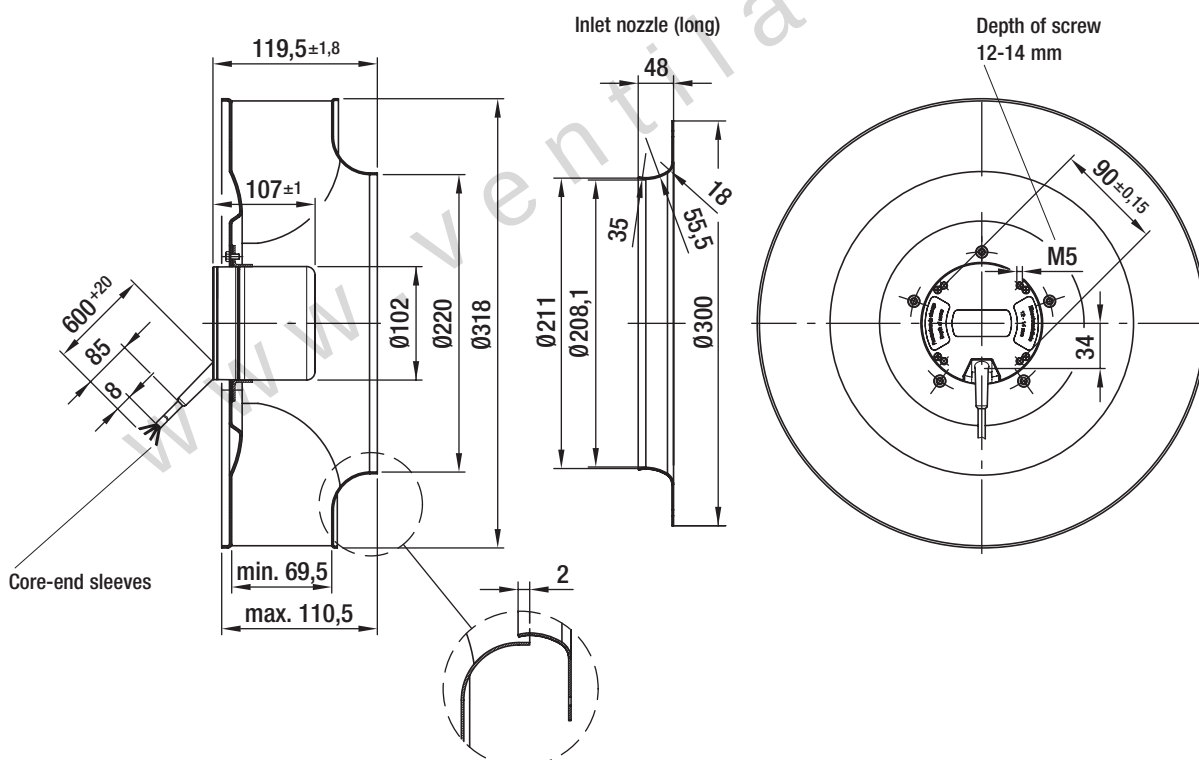
Inlet nozzle
(short)

R3G 310-AN12 -30

4.2

31050-2-4013

31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 310



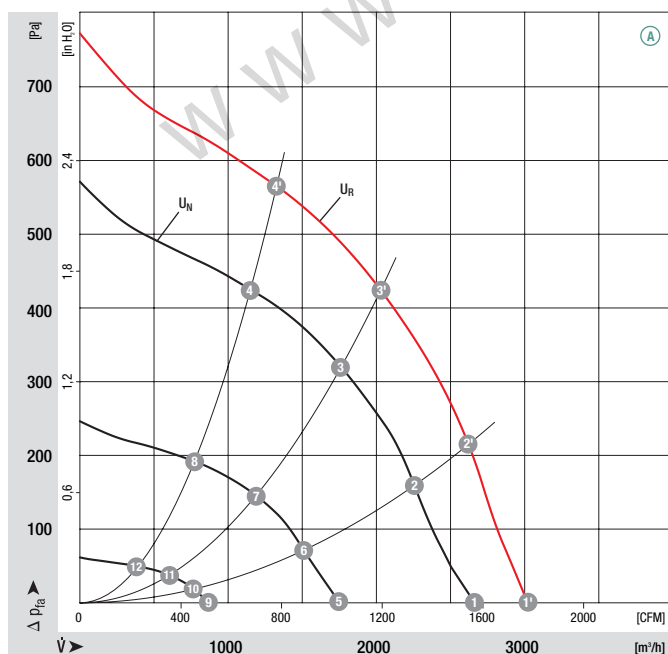
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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
R3G 310	M3G 084-FA	A	48	36-57	2620	1930	208	4.35	69	-25 to +60	p. 600

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η _{tL} [%]
A 1'	2230	317	72	—
A 2'	2190	373	69	50
A 3'	2150	415	66	66
A 4'	2175	390	67	63
A 1	1930	208	69	—
A 2	1900	248	65	50
A 3	1870	274	62	66
A 4	1890	257	61	63
A 5	1290	69	59	—
A 6	1280	80	57	50
A 7	1270	90	55	66
A 8	1280	85	54	63
A 9	660	14	47	—
A 10	660	15	46	50
A 11	655	17	44	66
A 12	655	16	44	63

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



Mass of
centrifugal fan



Centrifugal fan

kg

Inlet nozzle
(long)

Inlet nozzle
(short)

R3G 310-AL09 -30

4.4

31050-2-4013

31051-2-4013

