

EC centrifugal fans backward curved

	EC centrifugal fans with plastic impeller, 24 / 48 VDC	Ø 120 - Ø 250	222
	EC centrifugal fans with sheet steel impeller, 24 / 48 VDC	Ø 250 - Ø 280	240
	EC centrifugal fans with aluminium impeller, 24 / 48 VDC	Ø 310 - Ø 400	246
	EC centrifugal fans with plastic impeller, line-fed	Ø 133 - Ø 250	262
	EC centrifugal fans with sheet steel impeller, line-fed	Ø 250 - Ø 280	296
	EC centrifugal fans with aluminium impeller, line-fed	Ø 310 - Ø 630	316



EC centrifugal fans

backward curved, Ø 120

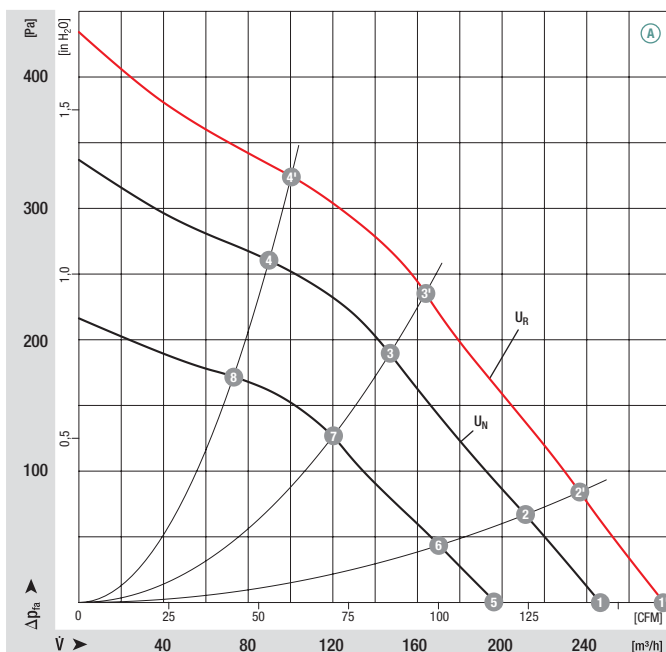


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 120	M1G 045-BE	Ⓐ	24	16-28	250	4060	26	1.20	62	-25 to +50	G)
R1G 120	M1G 045-BE	Ⓐ	48	36-57	250	4060	26	0.60	62	-25 to +50	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	4520	36	65	—
Ⓐ 2'	4500	36	64	27
Ⓐ 3'	4540	36	61	45
Ⓐ 4'	4750	32	64	39
Ⓐ 1	4060	26	62	—
Ⓐ 2	4000	26	61	27
Ⓐ 3	4050	26	58	45
Ⓐ 4	4200	23	61	39
Ⓐ 5	3270	14	56	—
Ⓐ 6	3250	14	55	27
Ⓐ 7	3280	14	53	45
Ⓐ 8	3400	13	56	39

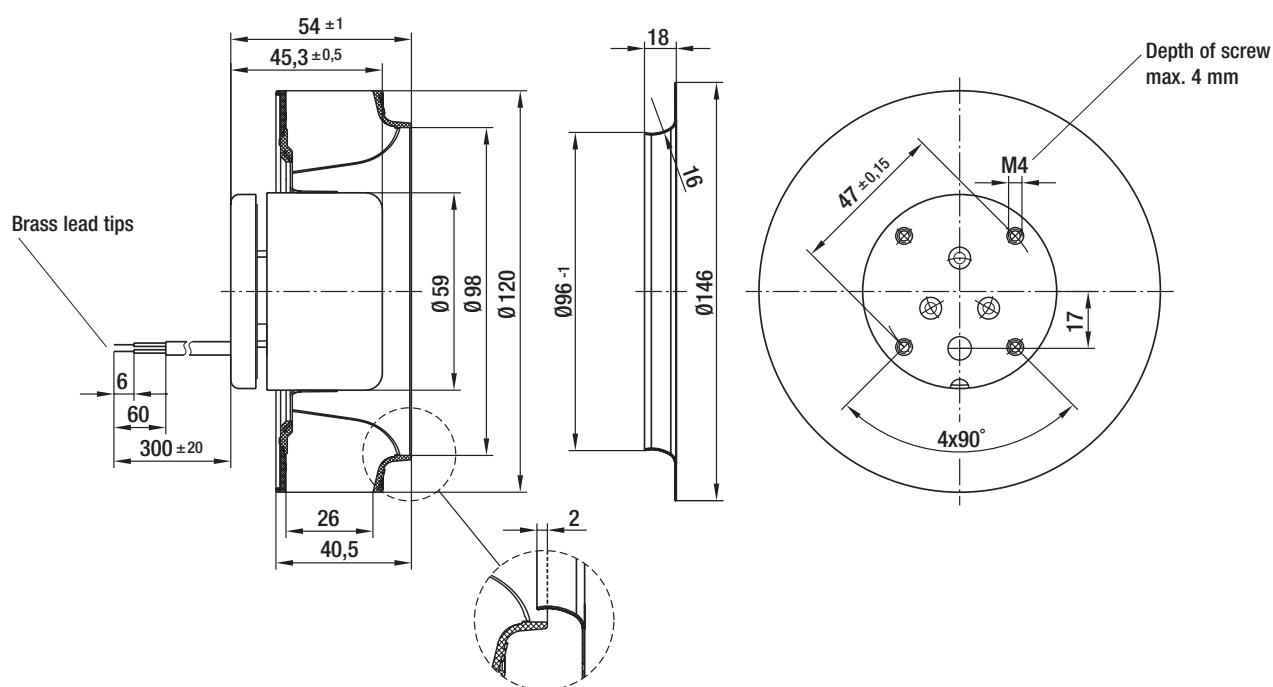
- **Technical features:**
 - Control input 0-10 VDC / PWM
 - **Cable exit:** Axial
 - **Protection class:** I
 - **Product conforming to standard:** EN 60950-1
 - **Approvals:**  (48 VDC) CCC
- Tach output
- Reverse polarity and locked-rotor protection



Mass of
centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 120-AD13 -02	0.5	96120-2-4013
R1G 120-AD11 -02	0.5	96120-2-4013



EC centrifugal fans

backward curved, Ø 133

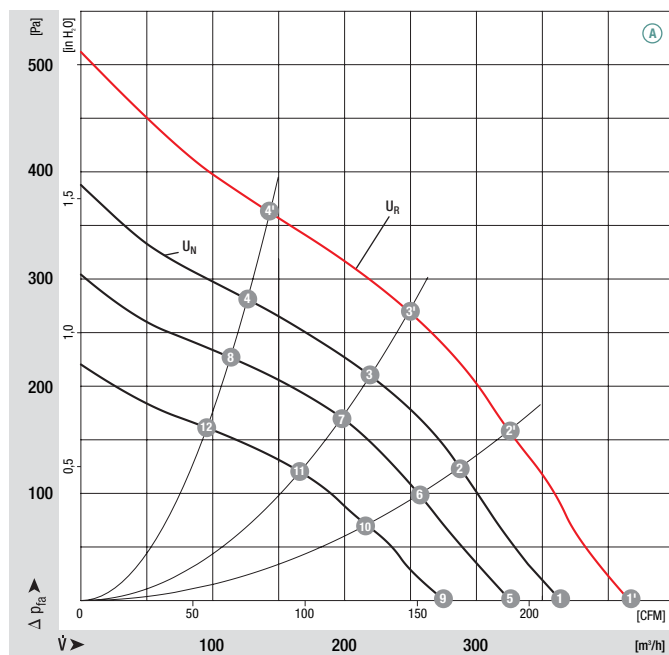


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 133	M1G 055-BD	Ⓐ	24	16-28	360	3900	28	1.30	63	-25 to +60	G)
R1G 133	M1G 055-BD	Ⓐ	48	36-57	360	3900	28	0.70	63	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	4450	39	74	—
Ⓐ 2'	4250	44	60	45
Ⓐ 3'	4270	44	59	56
Ⓐ 4'	4380	41	61	44
Ⓐ 1	3900	28	63	—
Ⓐ 2	3770	31	58	45
Ⓐ 3	3770	31	56	56
Ⓐ 4	3850	29	58	44
Ⓐ 5	3500	20	59	—
Ⓐ 6	3380	23	55	45
Ⓐ 7	3400	23	53	56
Ⓐ 8	3450	21	55	44
Ⓐ 9	2970	13	55	—
Ⓐ 10	2860	15	51	45
Ⓐ 11	2880	15	49	56
Ⓐ 12	2930	14	51	44

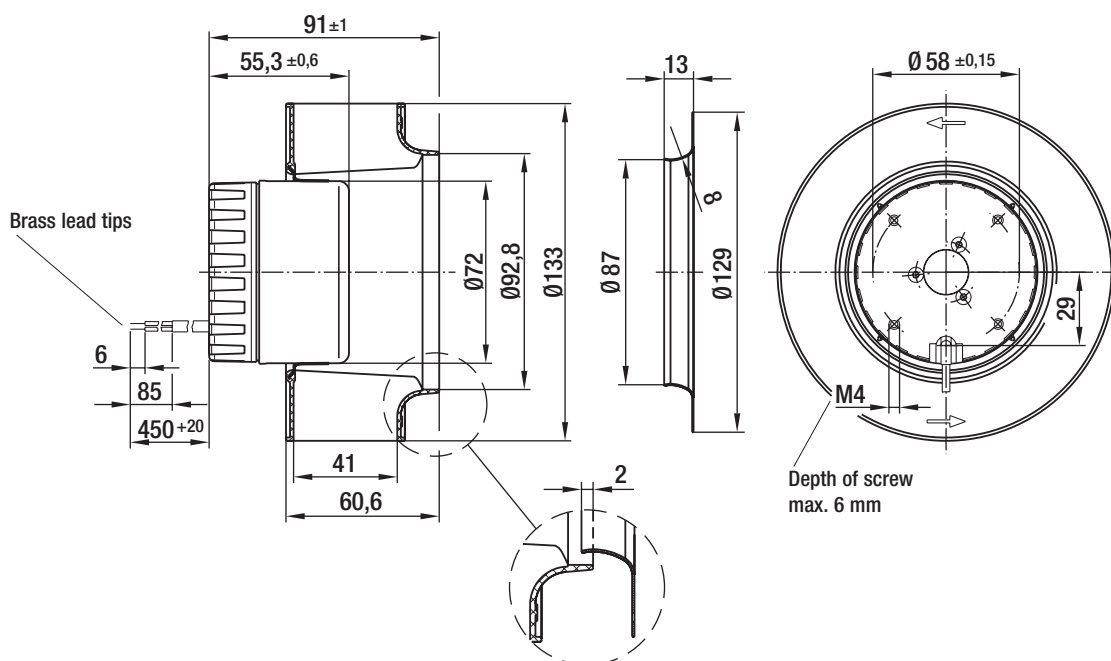
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48 VDC) with CCC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



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 133-AA17 -02	0.7	09566-2-4013
R1G 133-AA65 -02	0.7	09566-2-4013



EC centrifugal fans

backward curved, Ø 175

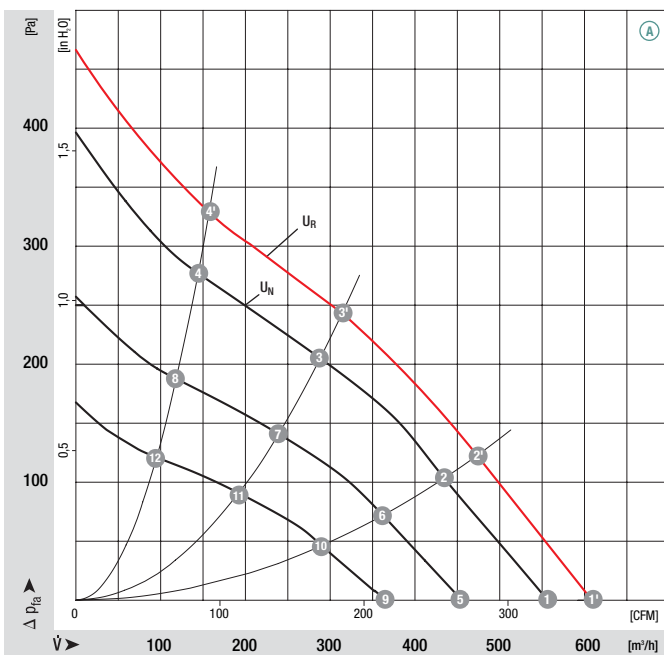


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Galvanised
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 175	M1G 055-BD	Ⓐ	24	16-28	565	3100	34	1.60	65	-25 to +60	G)
R1G 175	M1G 055-BD	Ⓐ	48	36-57	565	3100	34	1.00	65	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
Ⓐ 1'	3390	46	67	—
Ⓐ 2'	3200	51	60	49
Ⓐ 3'	3170	51	58	58
Ⓐ 4'	3300	51	66	39
Ⓐ 1	3100	34	65	—
Ⓐ 2	2910	39	58	49
Ⓐ 3	2880	39	56	58
Ⓐ 4	3010	37	64	39
Ⓐ 5	2520	20	60	—
Ⓐ 6	2430	22	54	51
Ⓐ 7	2390	23	51	58
Ⓐ 8	2470	21	60	39
Ⓐ 9	2050	12	56	—
Ⓐ 10	1950	13	50	51
Ⓐ 11	1920	13	56	58
Ⓐ 12	1990	12	53	40

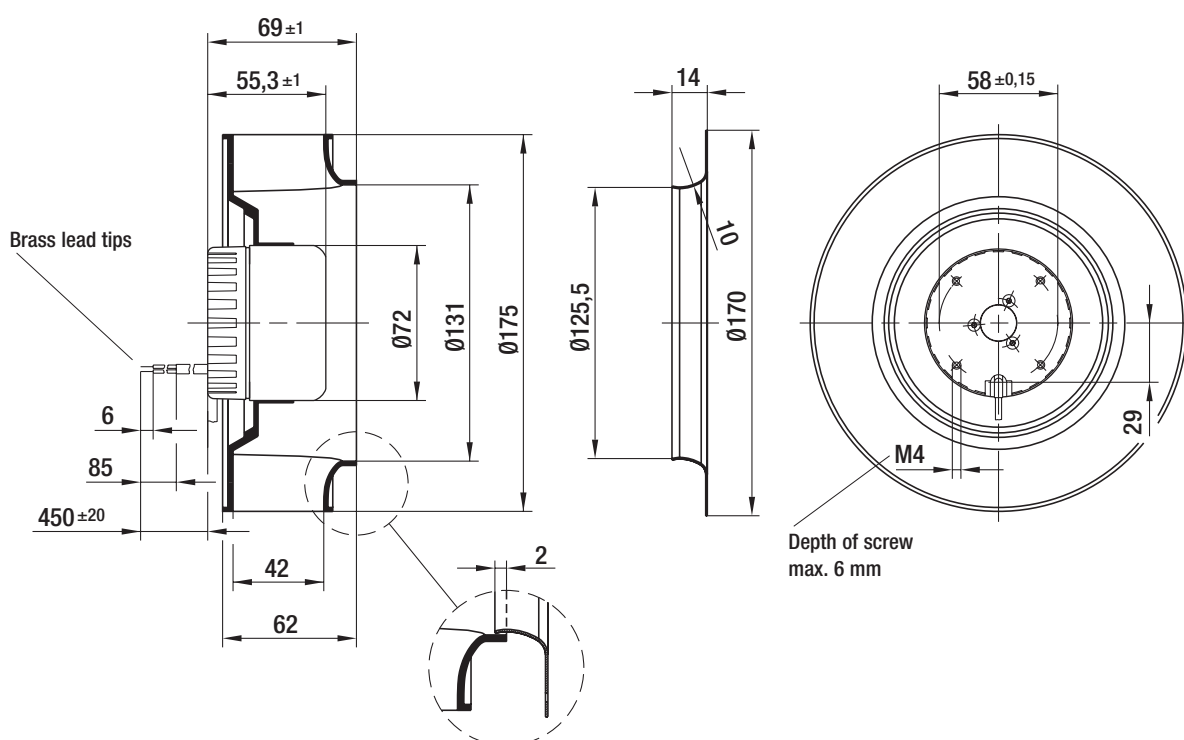
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48 VDC) with VDE,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



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 175-AB63 -02	0.7	09576-2-4013
R1G 175-AB41 -02	0.7	09576-2-4013



EC centrifugal fan

backward curved, Ø 175



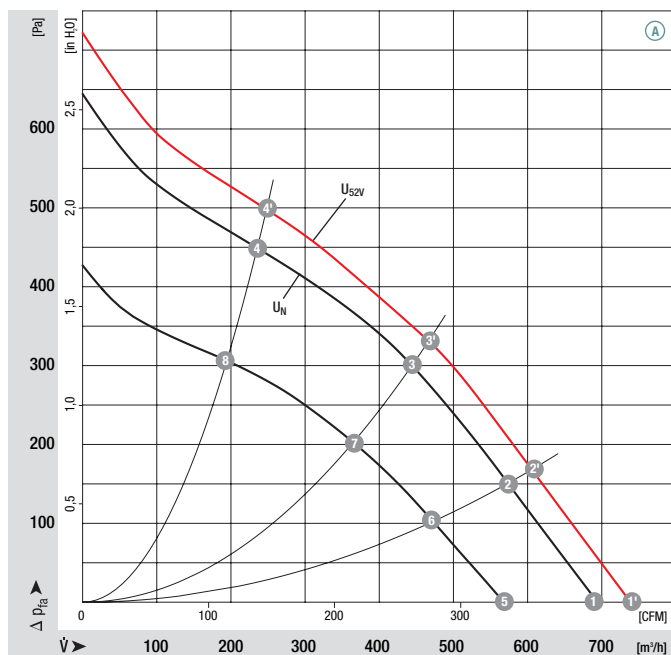
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black, with cooling holes
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** Rotor-side
- **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 175	M1G 055-CF	Ⓐ	48	36-52	695	4000	75	1.75	72	-25 to +40	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
Ⓐ 1'	4250	88	73	—
Ⓐ 2'	4130	93	71	39
Ⓐ 3'	4050	96	67	55
Ⓐ 4'	4130	93	72	43
Ⓐ 1	4000	75	72	—
Ⓐ 2	3920	80	69	39
Ⓐ 3	3880	83	66	55
Ⓐ 4	3920	80	71	43
Ⓐ 5	3290	42	67	—
Ⓐ 6	3250	45	64	39
Ⓐ 7	3160	47	62	55
Ⓐ 8	3250	46	66	43

- **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:** CCC
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fan

Centrifugal fan

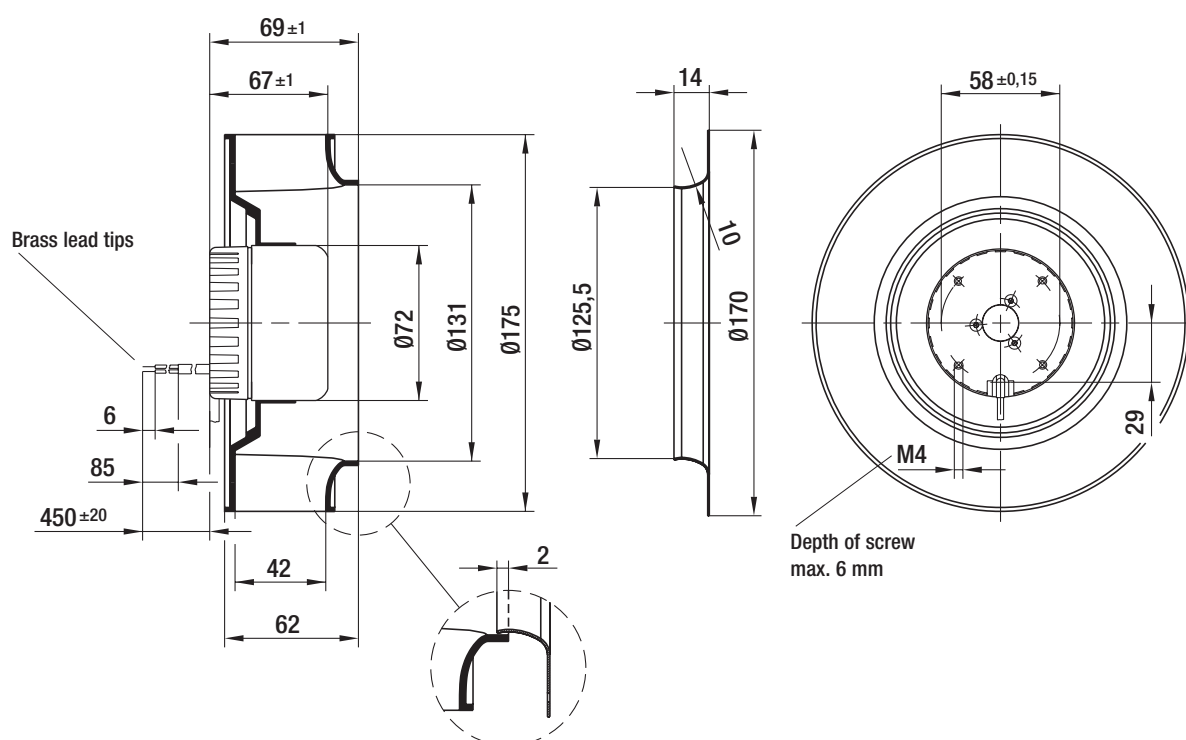
kg

Inlet nozzle
(long)

R1G 175-AF29 -04

1.0

09576-2-4013





EC centrifugal fans

backward curved, Ø 190

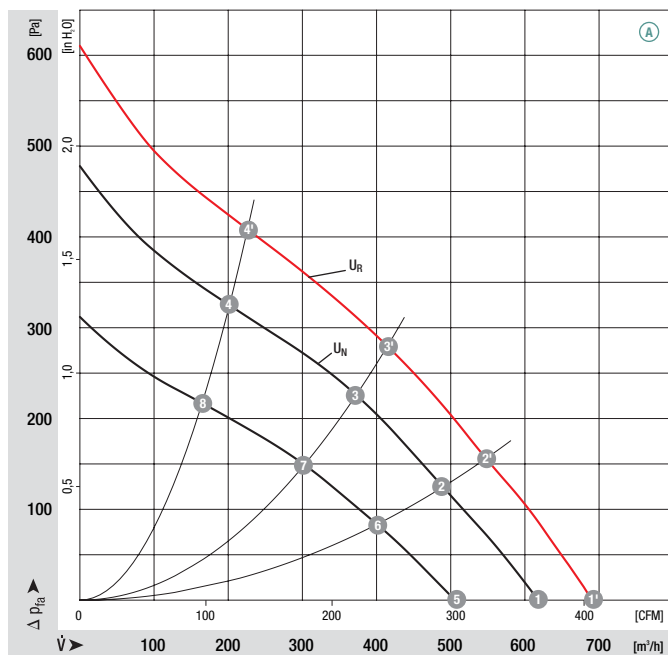


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** (A) (24 VDC) IP 20, (A) (48 VDC) IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 190	M1G 055-CF		24	16-28	620	2950	51	2.30	68	-25 to +40	G)
R1G 190	M1G 055-CF		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

EC centrifugal fans

backward curved, Ø 190

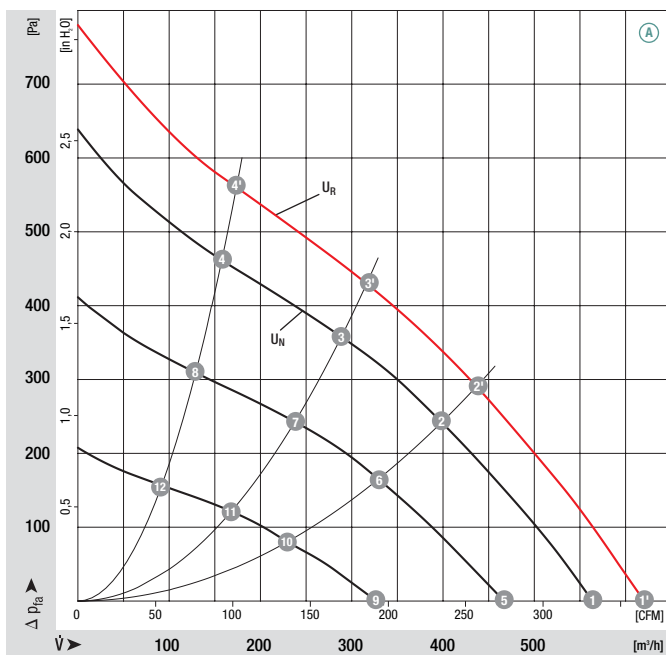


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	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)

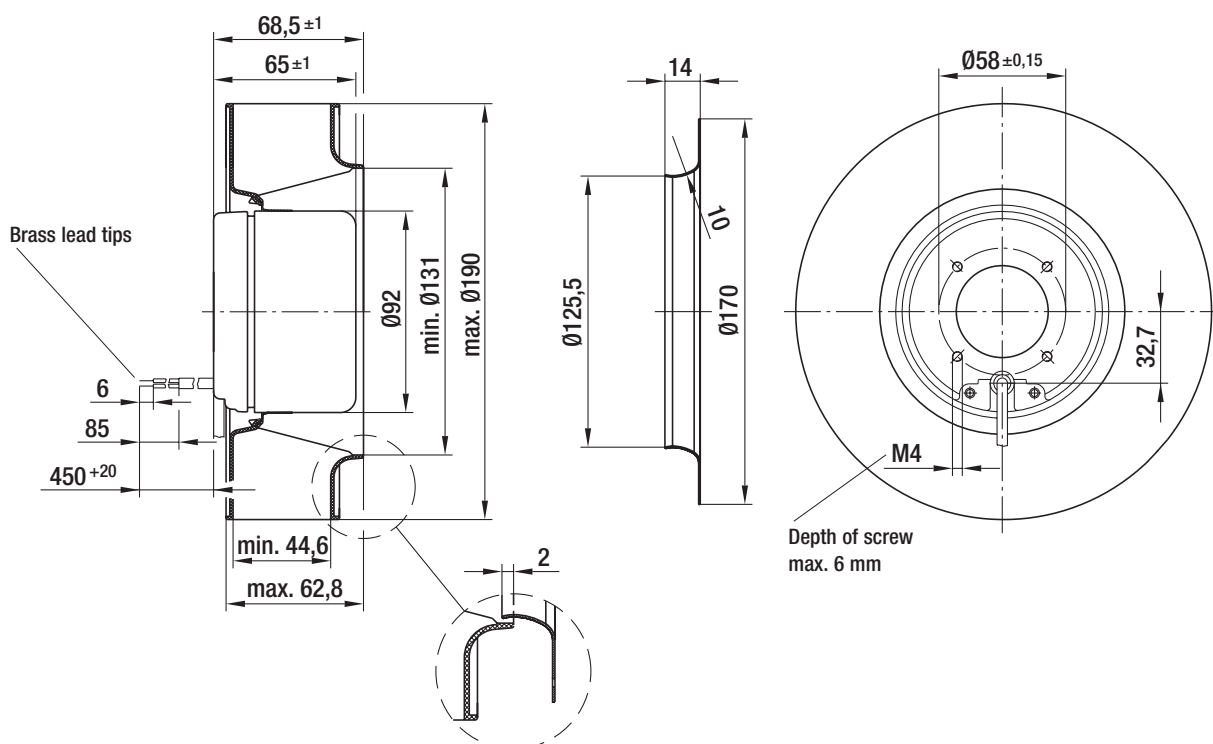


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	3580	106	71	—
(A) 2'	3590	105	66	41
(A) 3'	3630	103	65	45
(A) 4'	3770	97	69	33
(A) 1	3250	80	68	—
(A) 2	3275	80	64	42
(A) 3	3300	79	63	45
(A) 4	3400	74	66	34
(A) 5	2700	47	65	—
(A) 6	2710	47	59	41
(A) 7	2740	45	58	44
(A) 8	2795	42	61	33
(A) 9	1910	19	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
 - 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,  (48 VDC) with CCC
- 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



EC centrifugal fans

backward curved, Ø 220

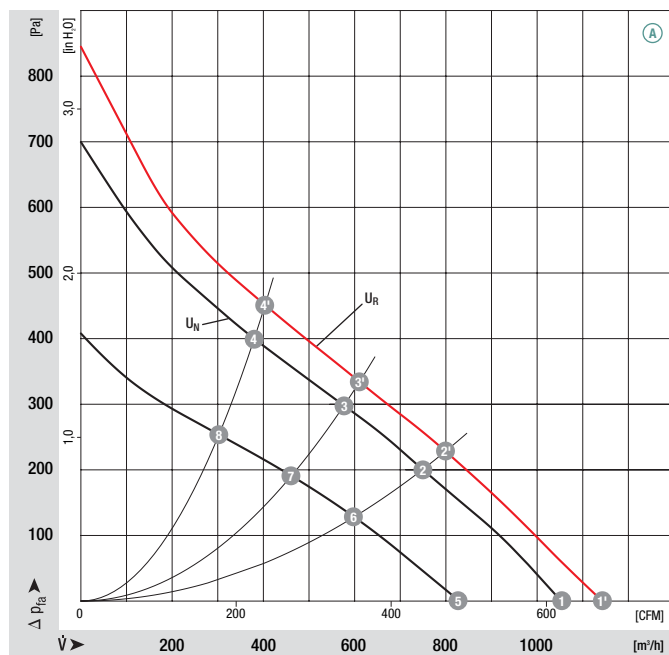


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 220	M1G 074-BF	(A)	24	16-28	1055	3150	106	5.00	76	-25 to +60	G)
R1G 220	M1G 074-BF	(A)	48	36-57	1015	3100	100	2.40	73	-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'	3400	128	78	—
(A) 2'	3200	132	69	53
(A) 3'	3050	135	67	55
(A) 4'	3000	137	71	46
(A) 1	3150	106	76	—
(A) 2	3010	110	68	53
(A) 3	2870	112	65	55
(A) 4	2800	113	69	46
(A) 5	2470	50	70	—
(A) 6	2360	54	63	53
(A) 7	2300	57	59	55
(A) 8	2250	59	63	46

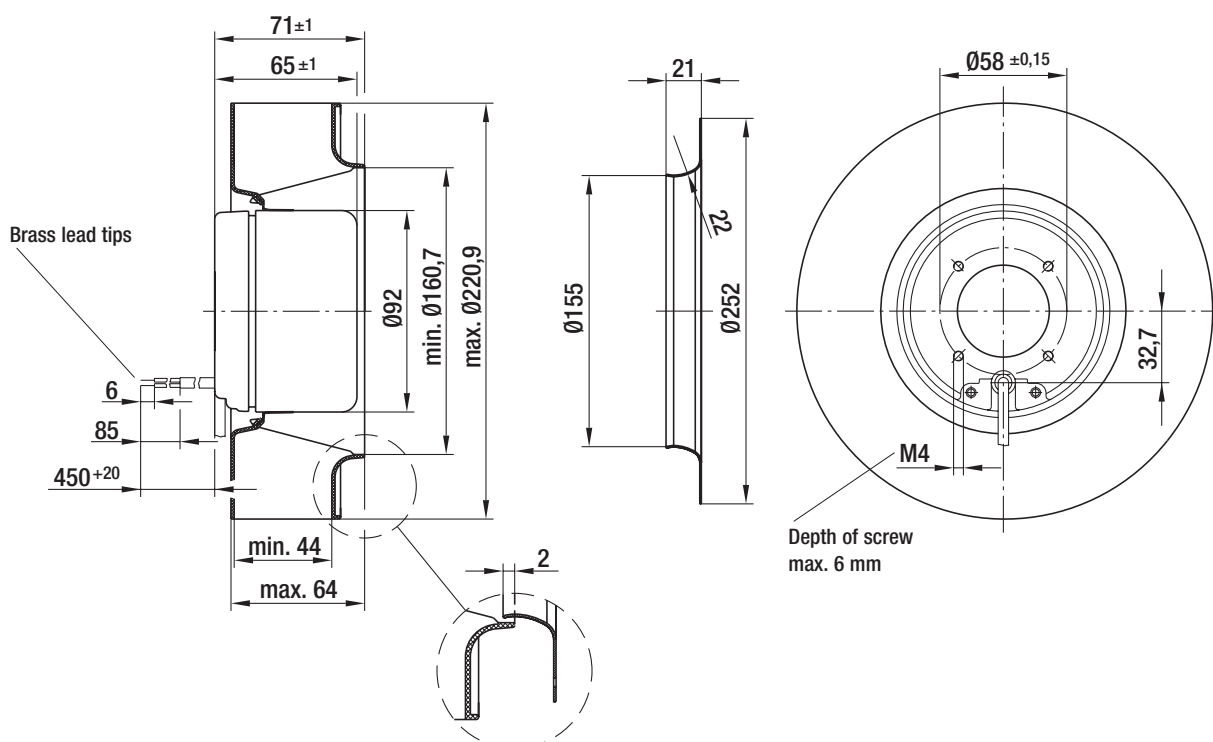
- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48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



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R1G 220-AB35 -52	1.4	09609-2-4013
R1G 220-AB73 -52	1.4	09609-2-4013



EC centrifugal fans

backward curved, Ø 225



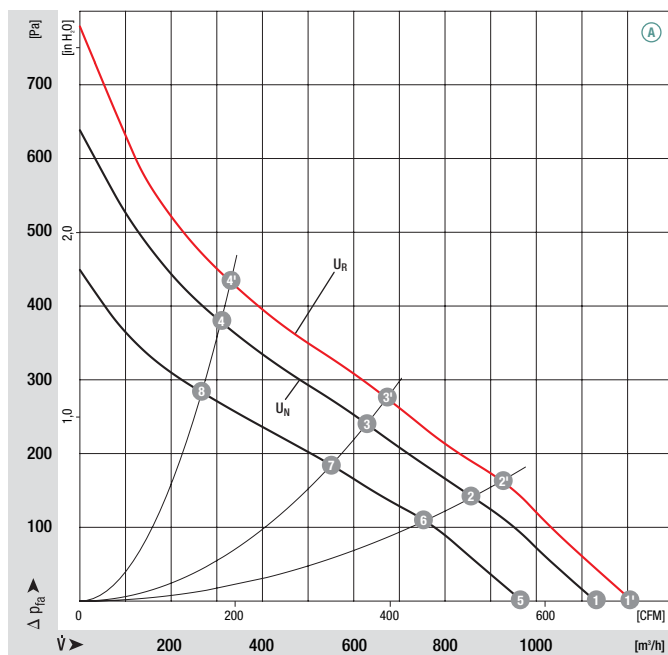
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of 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 225	M1G 074-BF	(A)	24	16-28	1125	2600	100	4.60	67	-25 to +60	G)
R1G 225	M1G 074-BF	(A)	48	36-57	1130	2700	95	2.20	67	-25 to +60	G)

subject to alterations

Curves (established at 48 VDC)

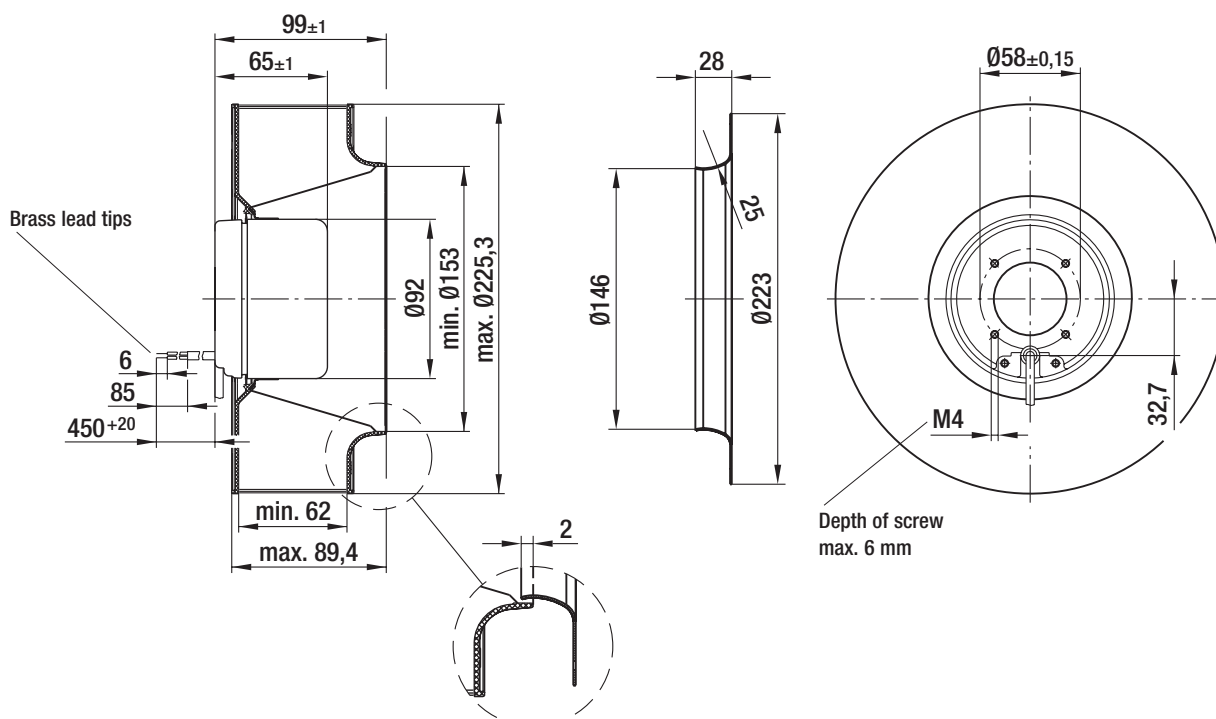


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2780	112	69	—
(A) 2'	2610	116	64	48
(A) 3'	2570	117	62	57
(A) 4'	2780	112	66	42
(A) 1	2700	95	67	—
(A) 2	2450	93	63	48
(A) 3	2400	94	60	57
(A) 4	2610	91	64	42
(A) 5	2230	59	63	—
(A) 6	2150	63	58	48
(A) 7	2100	64	56	57
(A) 8	2230	58	58	42

- **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 225-AF07 -52	1.5	96358-2-4013
R1G 225-AF11 -52	1.5	96358-2-4013



EC centrifugal fans

backward curved, Ø 250

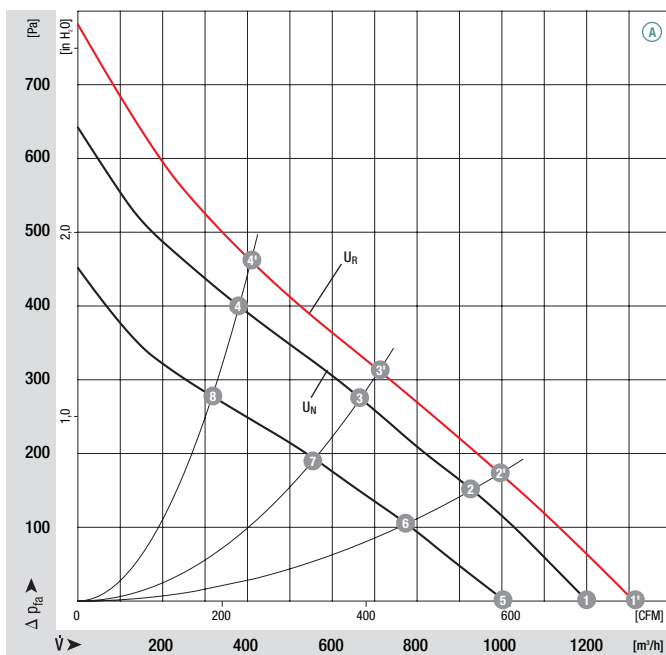


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 250	M1G 074-CF	Ⓐ	24	16-28	1140	2540	93	4.30	73	-25 to +60	G)
R1G 250	M1G 074-CF	Ⓐ	48	36-57	1200	2600	105	2.55	72	-25 to +60	G)

subject to alterations

Curves (established at 48 VDC)

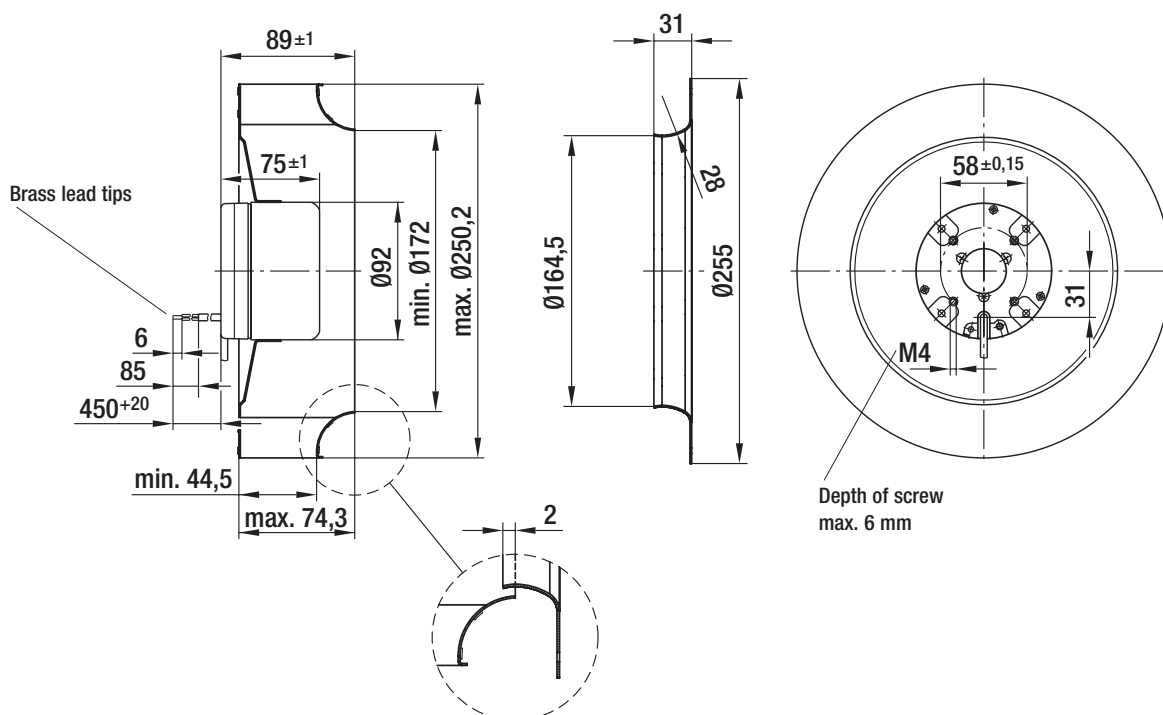


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	2870	134	75	—
Ⓐ 2'	2610	139	68	55
Ⓐ 3'	2530	140	63	58
Ⓐ 4'	2650	138	66	48
Ⓐ 1	2600	105	72	—
Ⓐ 2	2440	114	66	55
Ⓐ 3	2360	116	62	58
Ⓐ 4	2490	112	64	48
Ⓐ 5	2190	59	68	—
Ⓐ 6	2020	67	62	55
Ⓐ 7	2020	70	57	58
Ⓐ 8	2070	66	59	48

- **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,  (48 VDC) with CCC
- Tach output
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R1G 250-AQ21 -52	2.0	96359-2-4013
R1G 250-AQ37 -52	2.0	96359-2-4013



EC centrifugal fan

backward curved, Ø 250



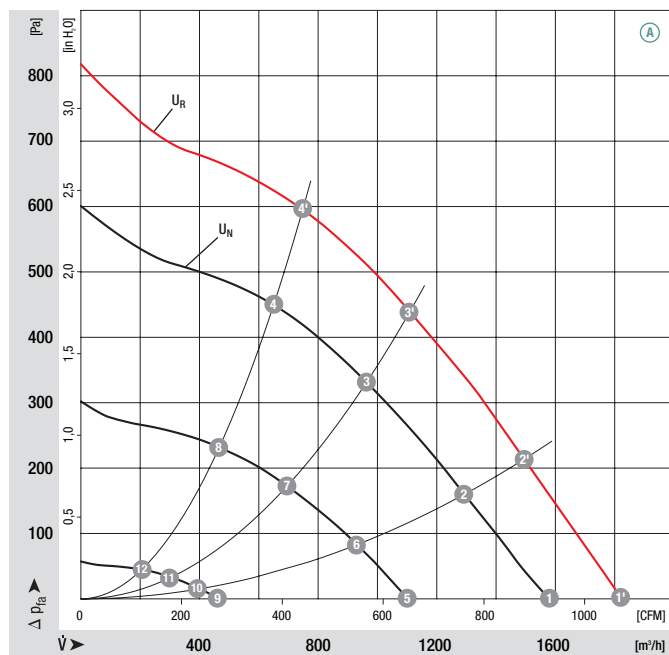
- **Material:** Impeller: Sheet steel
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous 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 250	M3G 084-CA	A	48	36-57	1580	2645	135	2.80	72	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	3055	207	75	—
A 2'	2990	256	70	45
A 3'	2970	274	68	60
A 4'	2980	270	71	55
A 1	2645	135	72	—
A 2	2600	166	67	45
A 3	2580	182	64	60
A 4	2590	177	66	55
A 5	1900	56	66	—
A 6	1875	69	59	45
A 7	1870	73	56	60
A 8	1870	72	58	55
A 9	835	9	48	—
A 10	830	10	44	45
A 11	830	11	43	60
A 12	830	10	35	55

- **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

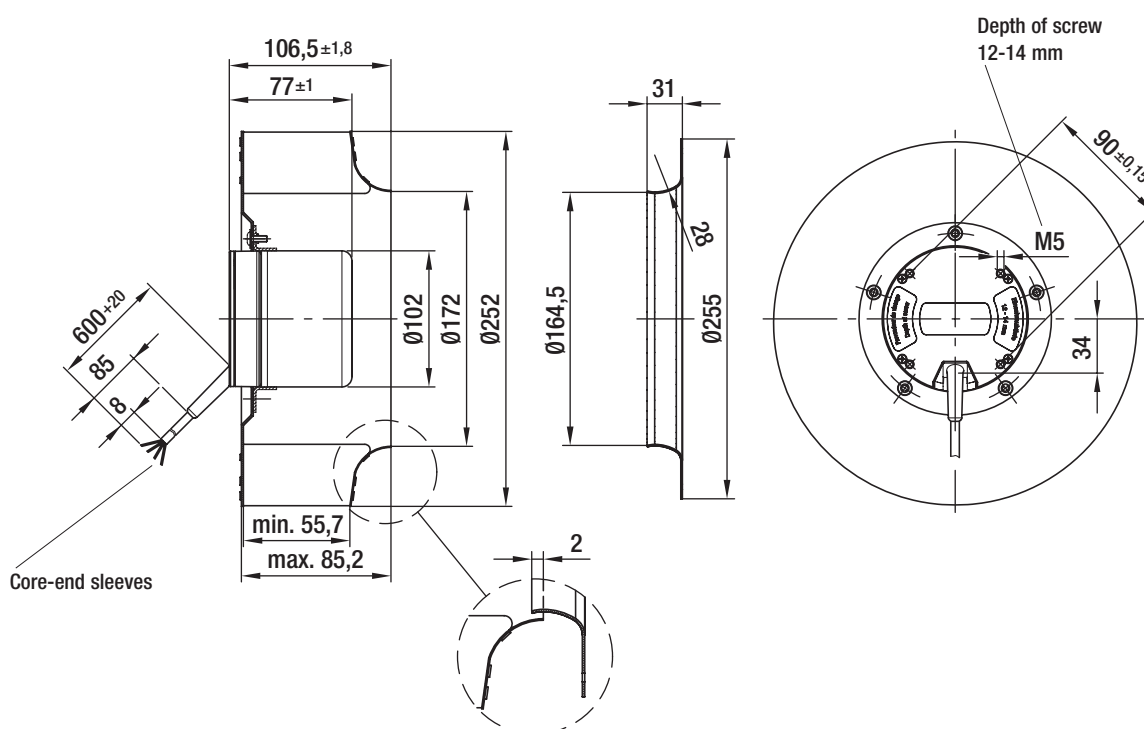
kg

Inlet nozzle
(long)

R3G 250-AD62 -30

3.0

96359-2-4013



EC centrifugal fans

backward curved, Ø 280

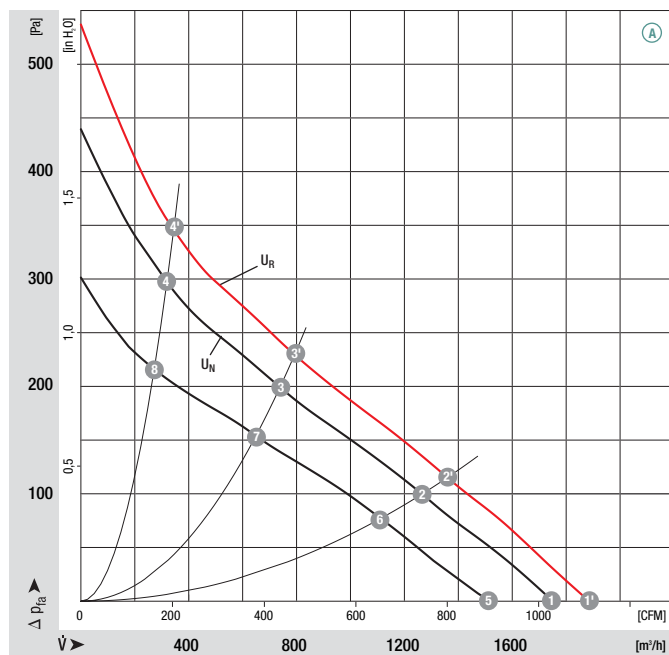


- **Material:** Impeller: Sheet steel
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	p. 600
R1G 280	M1G 074-CF	Ⓐ	24	16-28	1750	1710	95	4.60	71	-25 to +60	G)
R1G 280	M1G 074-CF	Ⓐ	48	36-57	1750	1710	95	2.30	71	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
Ⓐ 1'	1840	118	72	—
Ⓐ 2'	1650	127	64	55
Ⓐ 3'	1670	126	62	55
Ⓐ 4'	1950	114	67	31
Ⓐ 1	1710	95	71	—
Ⓐ 2	1550	100	63	55
Ⓐ 3	1560	100	59	55
Ⓐ 4	1810	91	64	31
Ⓐ 5	1470	60	67	—
Ⓐ 6	1360	68	60	55
Ⓐ 7	1370	67	55	55
Ⓐ 8	1530	56	59	31

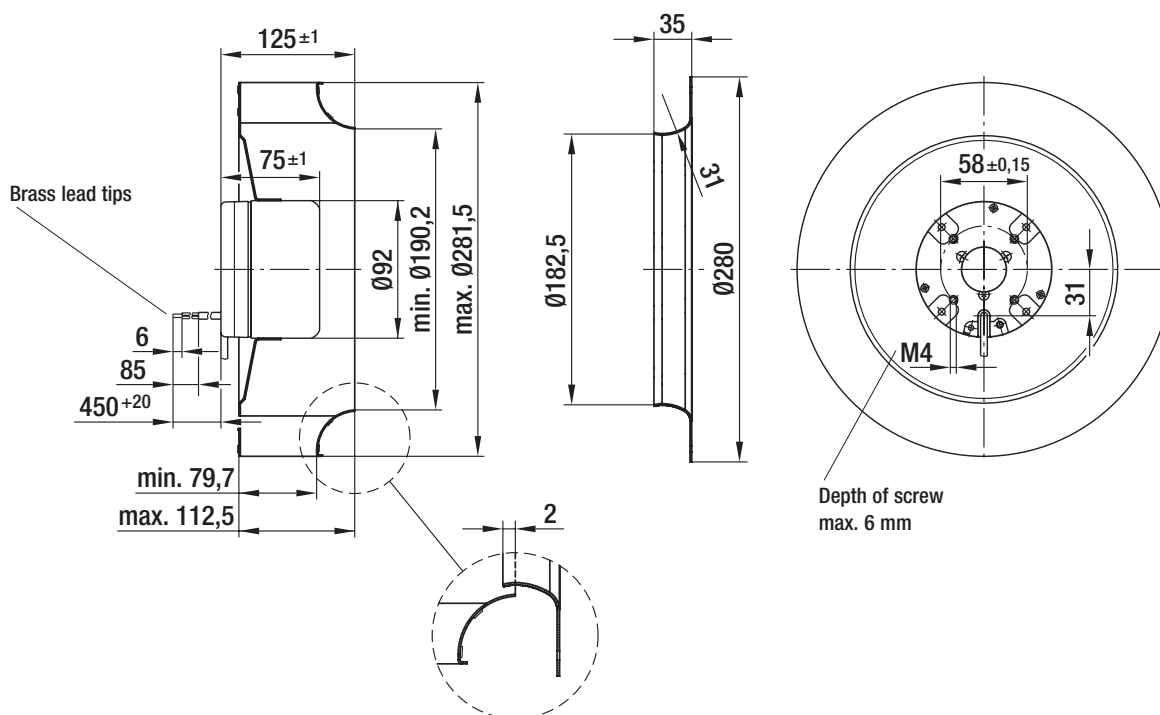
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:** UL, CSA,  (48 VDC) with CCC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



Mass of centrifugal fan

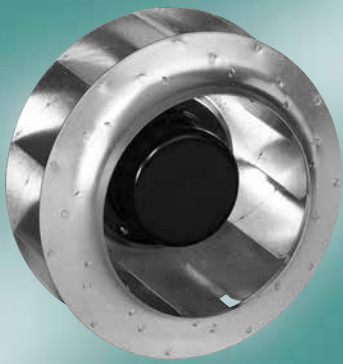


Centrifugal fan	kg	Inlet nozzle (long)
R1G 280-AE45 -52	2.8	96360-2-4013
R1G 280-AE47 -52	2.8	96360-2-4013



EC centrifugal fan

backward curved, Ø 280



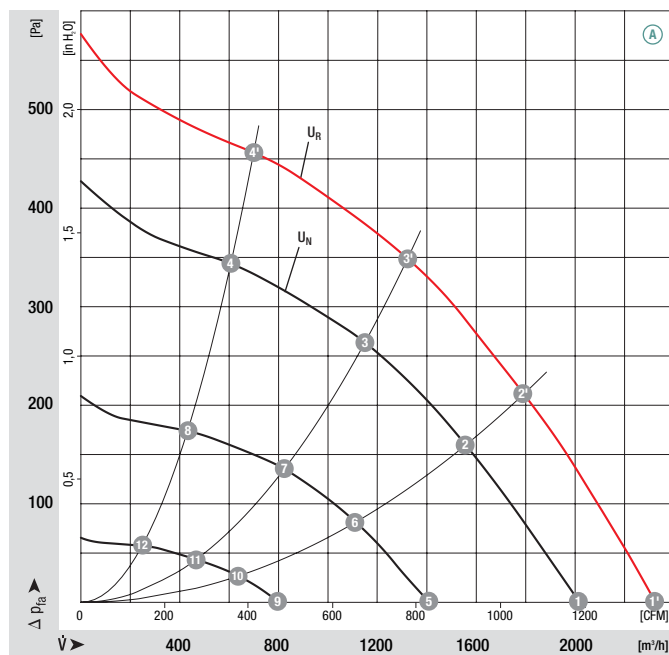
- **Material:** Impeller: Sheet steel
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous 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 280	M3G 084-CA	A	48	36-57	2020	1965	123	2.60	70	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	2265	187	72	—
A 2'	2185	243	68	53
A 3'	2165	258	65	60
A 4'	2230	213	69	50
A 1	1965	123	70	—
A 2	1905	160	65	53
A 3	1885	171	61	60
A 4	1940	140	66	50
A 5	1390	46	63	—
A 6	1365	61	58	53
A 7	1360	65	53	60
A 8	1380	53	55	50
A 9	800	12	53	—
A 10	790	15	48	53
A 11	785	15	42	60
A 12	795	13	41	50

- **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
- Over-temperature protected motor
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fan

Centrifugal fan

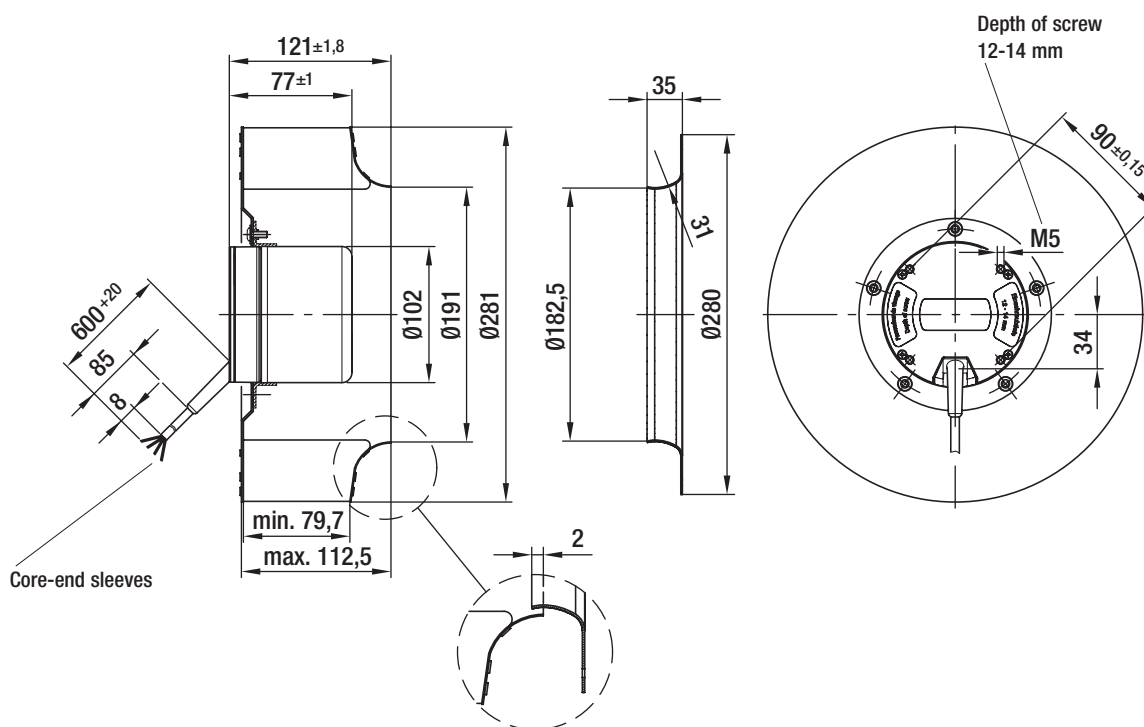
kg

Inlet nozzle
(long)

R3G 280-AC66 -30

3.3

96360-2-4013



EC centrifugal fans

backward curved, 3-D, Ø 310

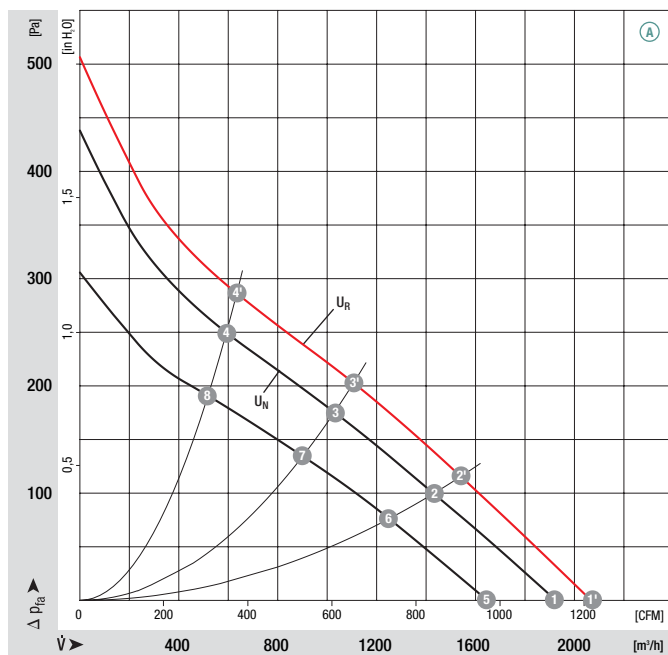


- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings


Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	°C	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)

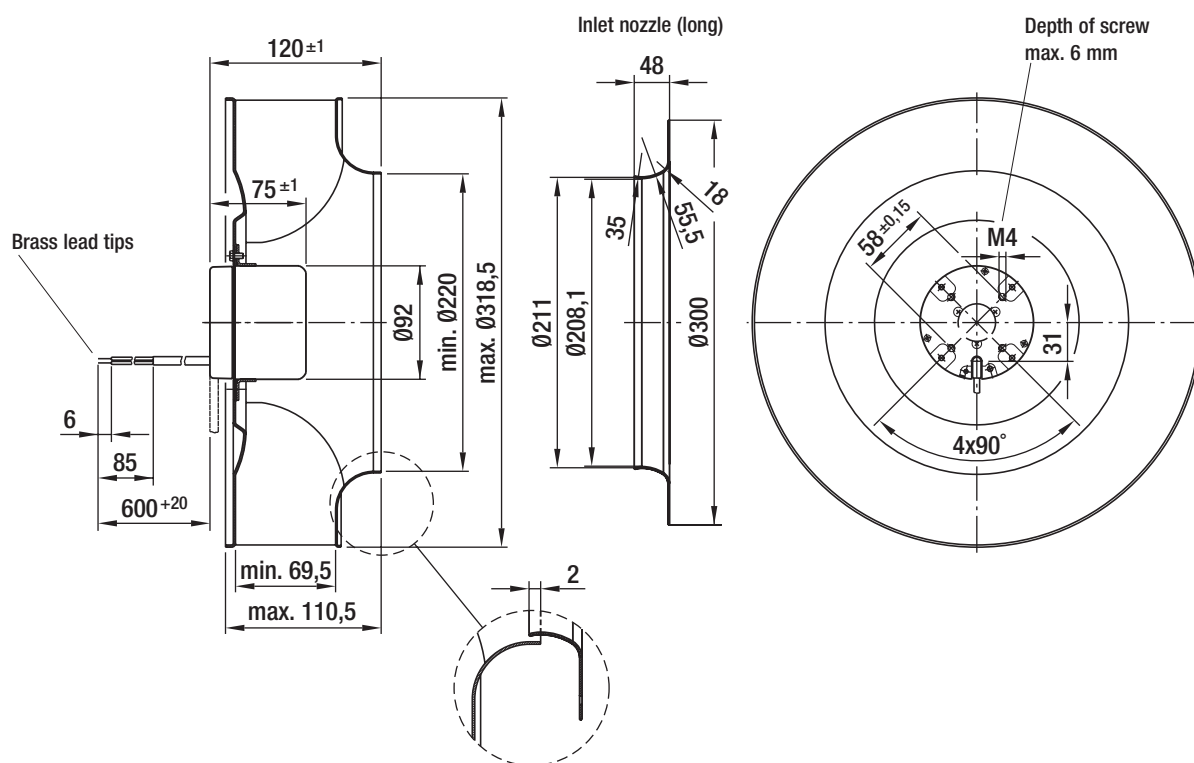


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	1720	113	66	—
Ⓐ 2'	1540	122	60	62
Ⓐ 3'	1490	124	59	67
Ⓐ 4'	1560	121	63	50
Ⓐ 1	1600	90	64	—
Ⓐ 2	1430	96	58	62
Ⓐ 3	1390	99	58	67
Ⓐ 4	1450	96	61	50
Ⓐ 5	1150	69	60	—
Ⓐ 6	1260	65	55	62
Ⓐ 7	1230	67	54	67
Ⓐ 8	1270	65	58	50

- **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



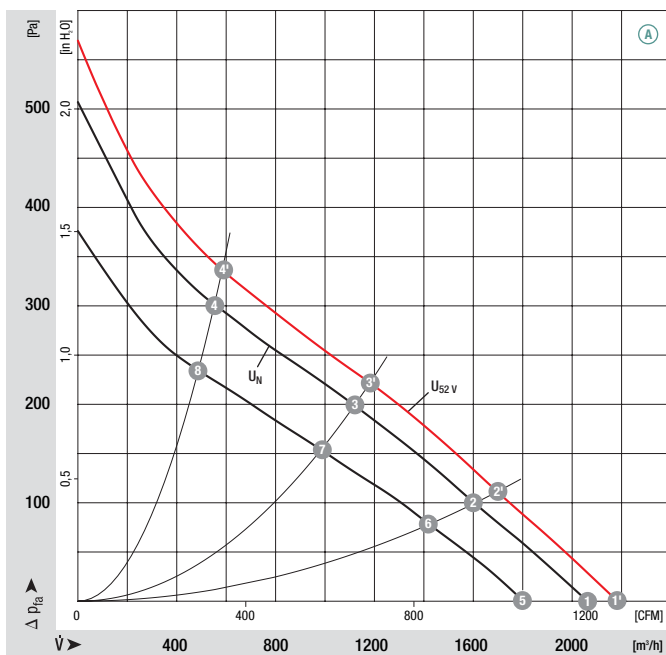
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:**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

subject to alterations

Curves (established with long inlet nozzle)



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

- **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
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fan

Centrifugal fan

kg

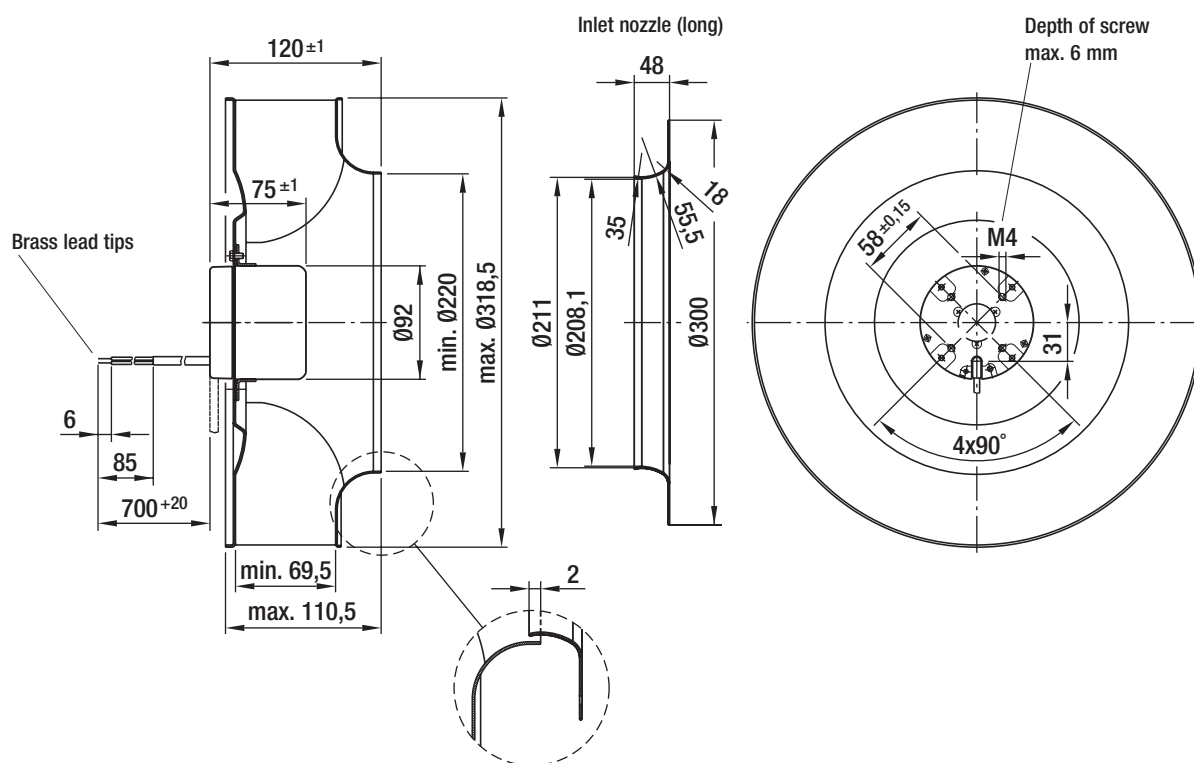
Inlet nozzle
(long)Inlet nozzle
(short)

R1G 310-AD17 -11

2.6

31050-2-4013

31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 310



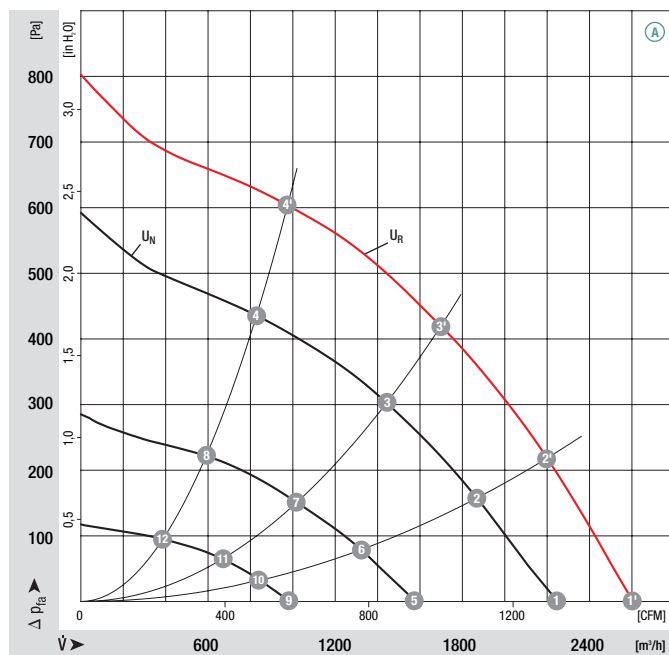
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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
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 _{HL} [%]
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

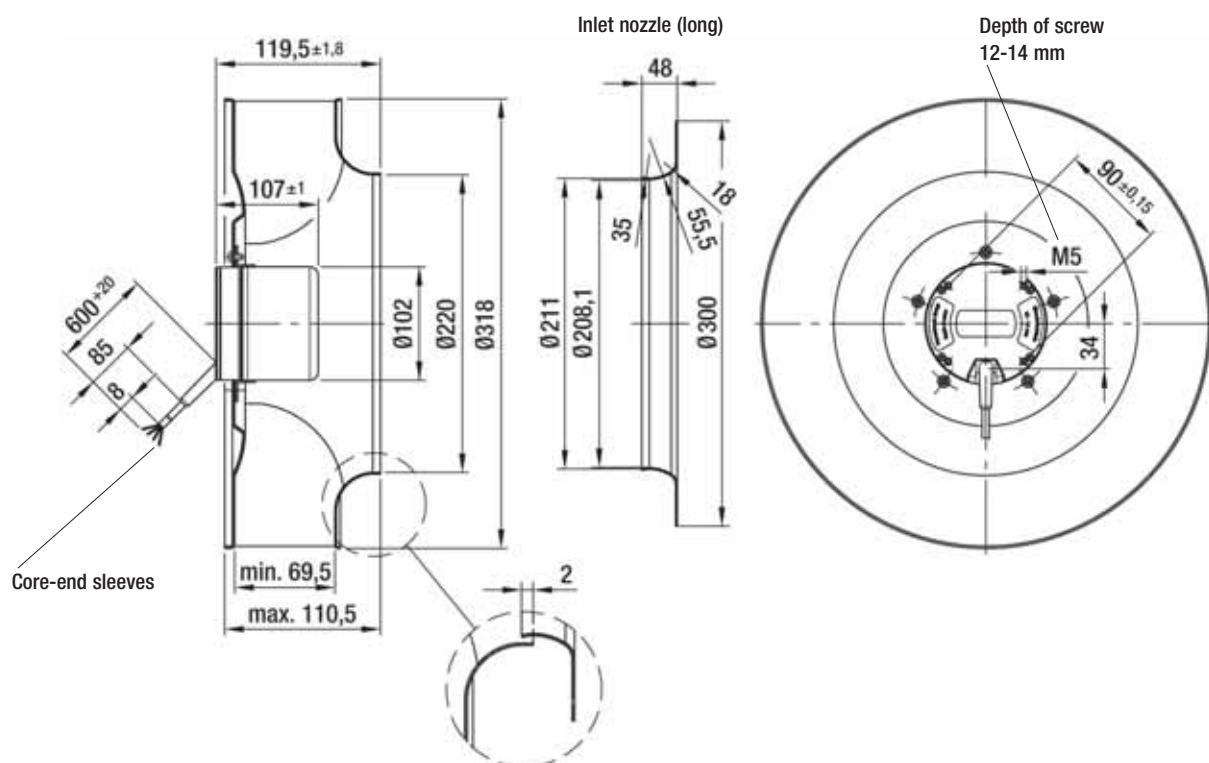
Inlet nozzle
(long)Inlet nozzle
(short)

R3G 310-AN12 -30

4.2

31050-2-4013

31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 310



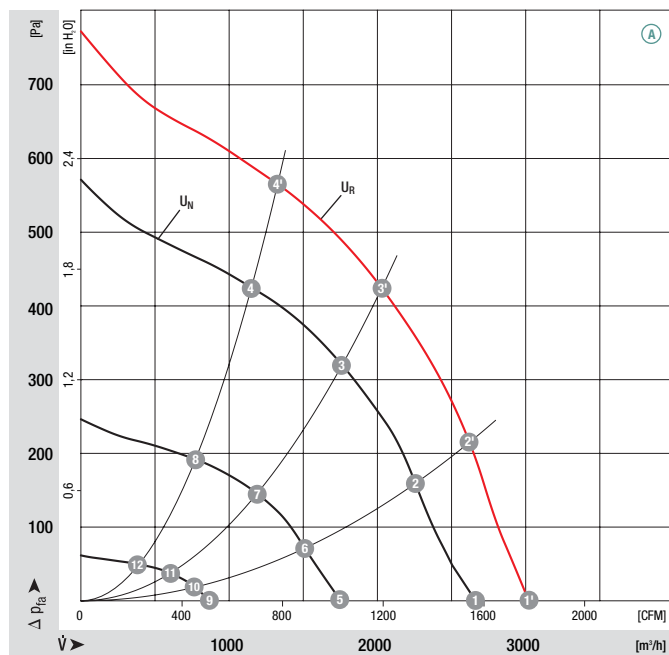
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:**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

subject to alterations

Curves (established with long inlet nozzle)



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

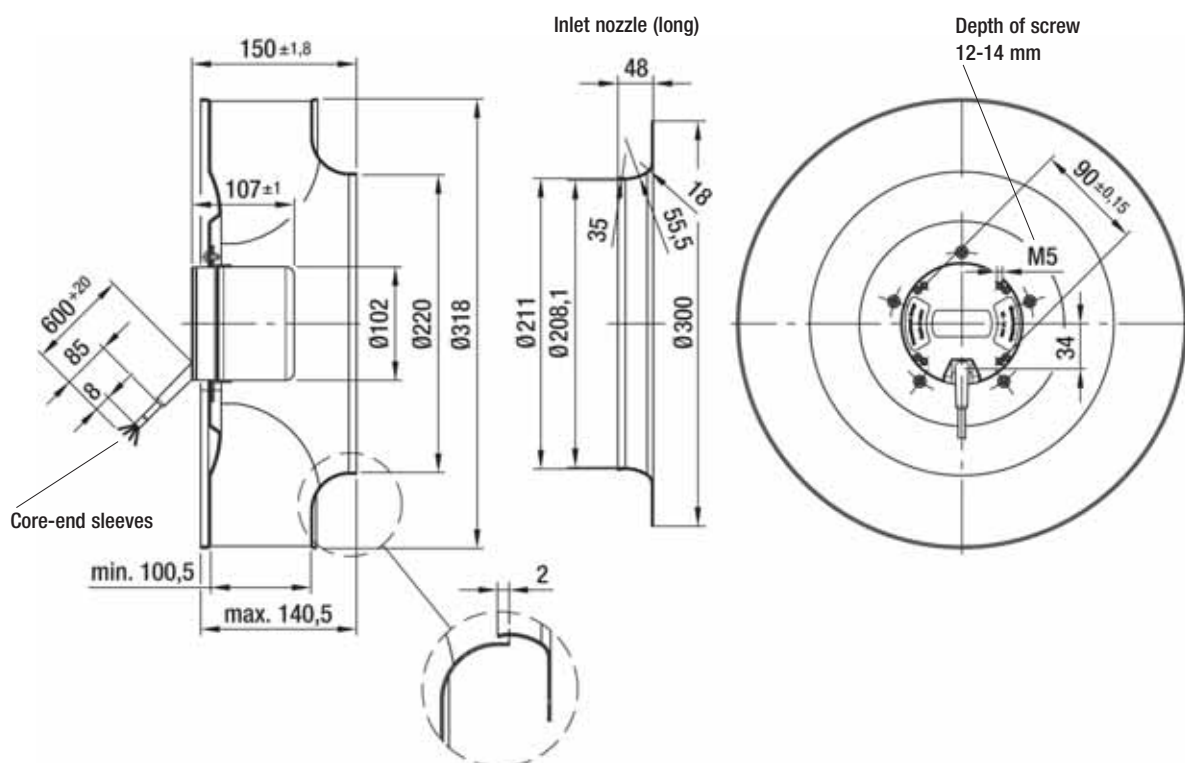
Inlet nozzle
(long)Inlet nozzle
(short)

R3G 310-AL09 -30

4.4

31050-2-4013

31051-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 355



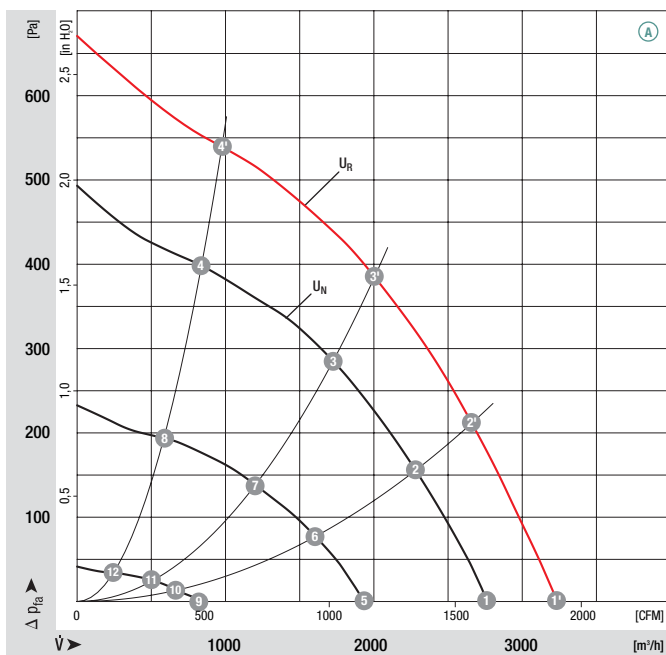
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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 355	M3G 084-FA	A	48	36-57	2790	1560	178	3.70	69	-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'	1800	272	73	—
A 2'	1740	333	67	53
A 3'	1725	355	67	65
A 4'	1770	307	70	49
A 1	1560	178	69	—
A 2	1515	220	63	53
A 3	1500	236	63	65
A 4	1530	208	65	49
A 5	1088	64	60	—
A 6	1065	79	56	53
A 7	1055	85	54	65
A 8	1070	75	56	49
A 9	470	9	44	—
A 10	450	10	42	53
A 11	450	11	40	65
A 12	455	10	40	49

- **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

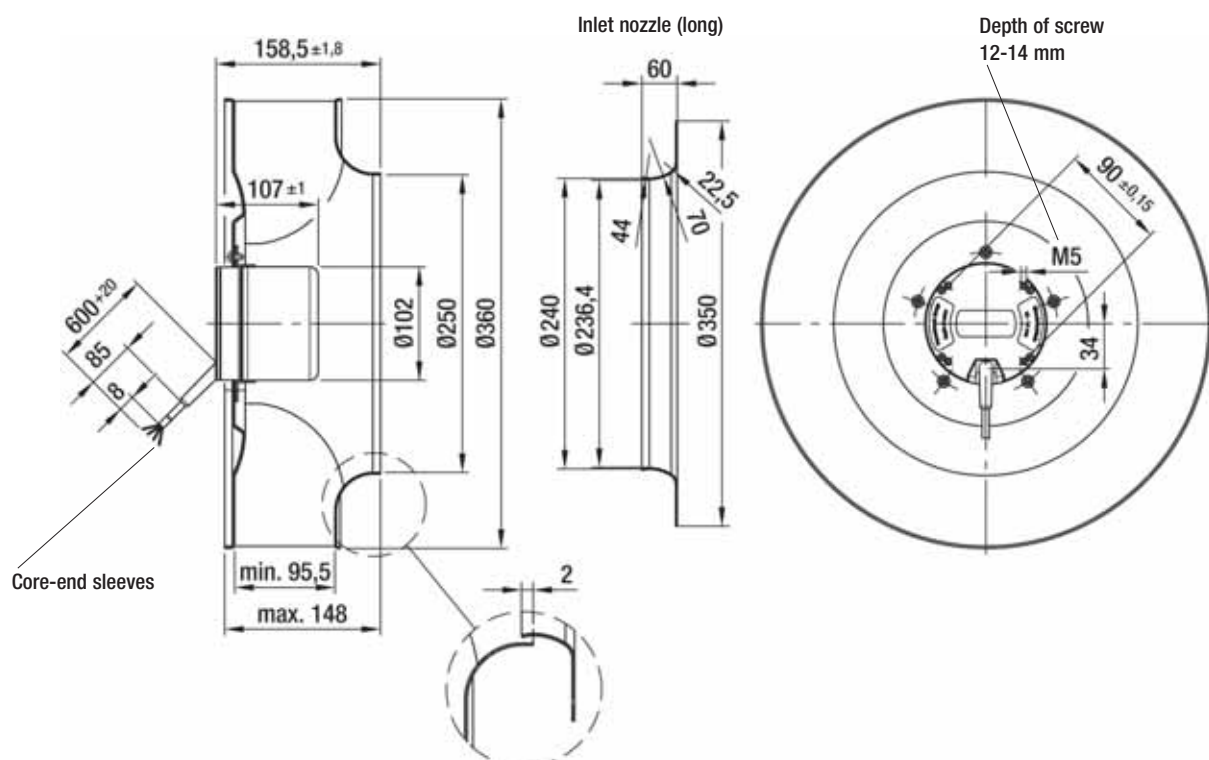
Inlet nozzle
(long)Inlet nozzle
(short)

R3G 355-AM08-30

4.6

35560-2-4013

35561-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 355



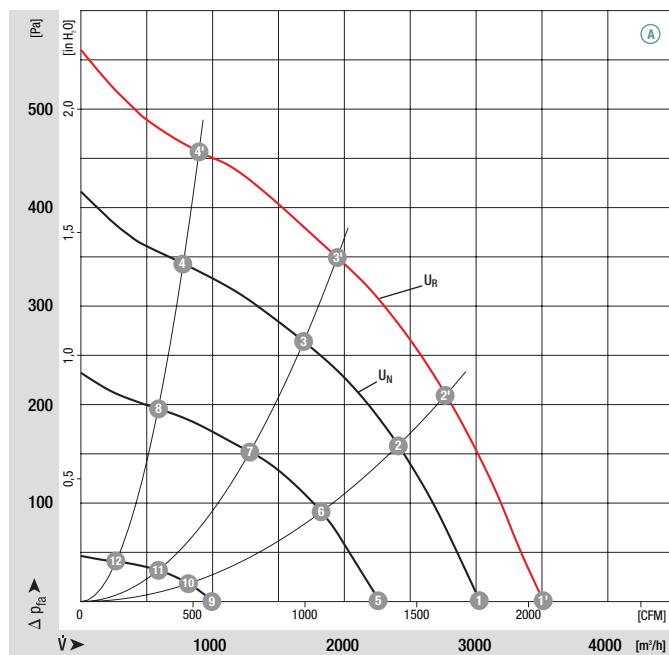
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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 355	M3G 084-FA	Ⓐ	48	36-57	3030	1410	168	3.50	66	-25 to +60	G)

subject to alterations

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	1630	257	70	—
Ⓐ 2'	1575	317	64	62
Ⓐ 3'	1570	321	63	66
Ⓐ 4'	1610	270	67	47
Ⓐ 1	1410	168	66	—
Ⓐ 2	1370	207	60	62
Ⓐ 3	1365	212	59	66
Ⓐ 4	1400	177	63	47
Ⓐ 5	1065	75	58	—
Ⓐ 6	1045	93	55	62
Ⓐ 7	1040	96	55	66
Ⓐ 8	1060	79	56	47
Ⓐ 9	485	11	37	—
Ⓐ 10	480	12	35	62
Ⓐ 11	480	13	34	66
Ⓐ 12	480	11	35	47

- **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

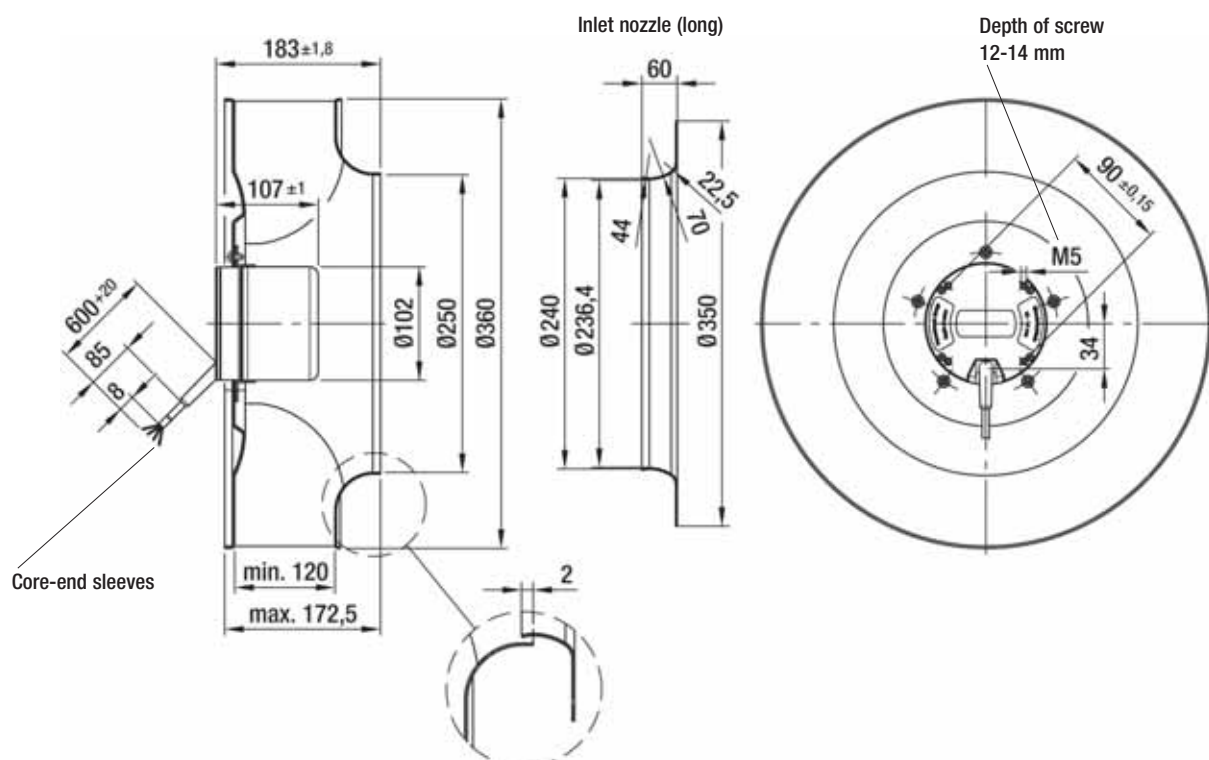
Inlet nozzle
(long)Inlet nozzle
(short)

R3G 355-AN18 -30

4.8

35560-2-4013

35561-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 400



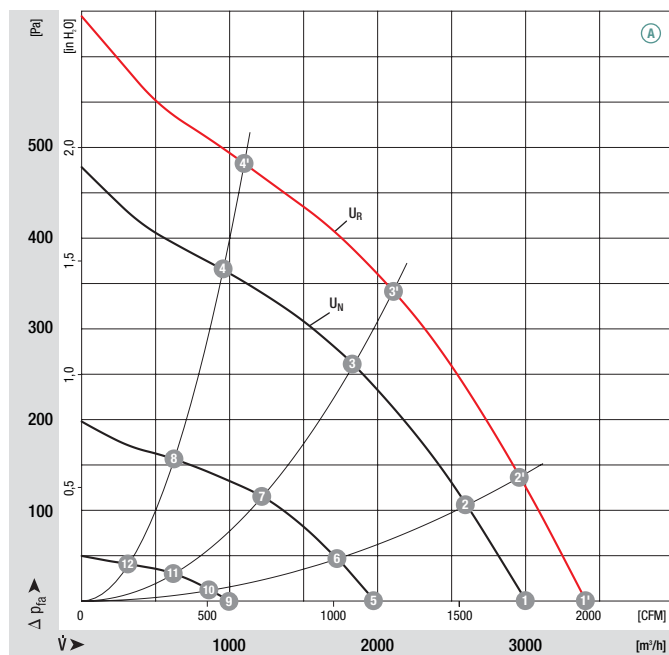
- **Material:** Impeller: Sheet aluminium, joined by tabs
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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 400	M3G 084-FA	A	48	36-57	3000	1290	200	4.20	65	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	1480	307	69	—
A 2'	1450	340	68	44
A 3'	1440	353	62	68
A 4'	1480	309	67	55
A 1	1290	200	65	—
A 2	1270	224	64	44
A 3	1260	234	59	68
A 4	1285	204	62	55
A 5	850	59	56	—
A 6	840	67	54	44
A 7	835	71	51	68
A 8	850	62	53	55
A 9	435	11	43	—
A 10	435	12	41	44
A 11	430	13	38	68
A 12	435	12	39	55

- **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

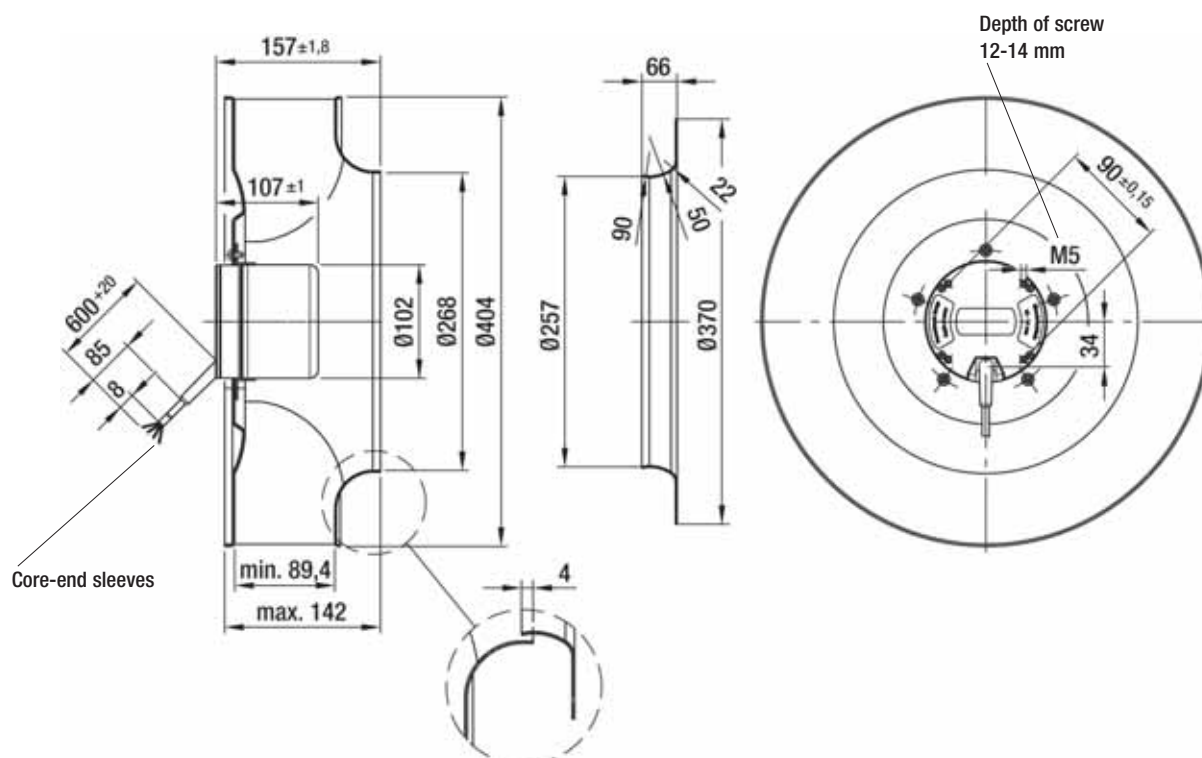
kg

Inlet nozzle
(long)

R3G 400-AD20 -30

5.0

54476-2-4013



EC centrifugal fan

backward curved, 3-D, Ø 400



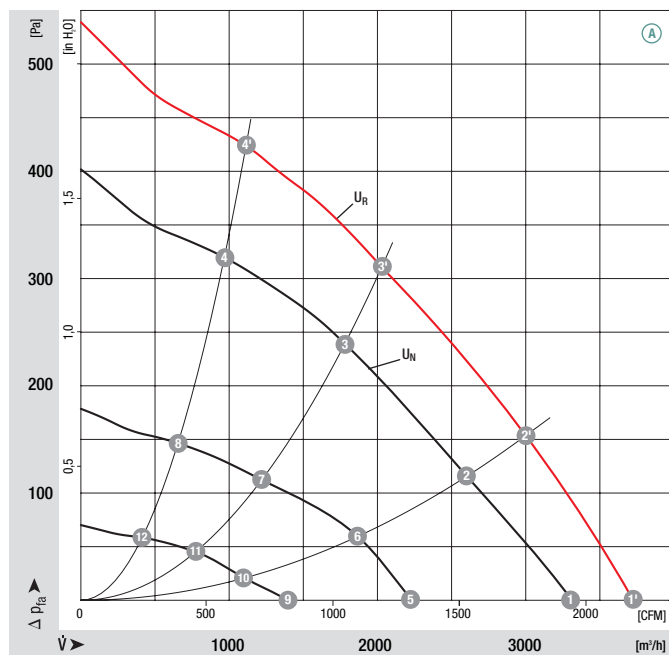
- **Material:** Impeller: Sheet aluminium, joined by tabs
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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 400	M3G 084-FA	A	48	36-57	3300	1160	192	3.90	63	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
A 1'	1325	287	69	—
A 2'	1300	340	66	43
A 3'	1300	335	64	62
A 4'	1345	268	68	53
A 1	1160	192	63	—
A 2	1140	227	62	43
A 3	1140	210	59	62
A 4	1170	177	63	53
A 5	795	62	57	—
A 6	784	74	56	43
A 7	780	69	56	62
A 8	795	59	56	53
A 9	500	15	49	—
A 10	500	19	48	43
A 11	500	21	48	62
A 12	505	18	49	53

- **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)

R3G 400-AC13 -30

5.3

54476-2-4013

