

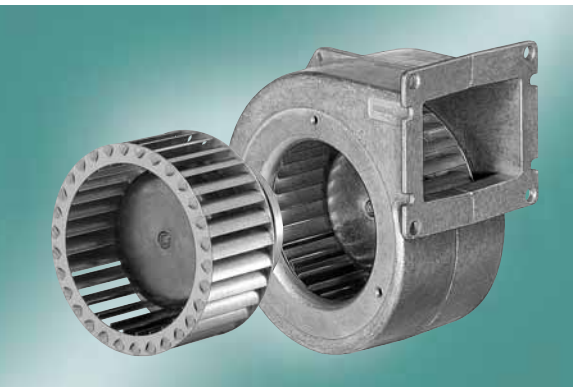
EC centrifugal fans and blowers forward curved

	EC centrifugal fans and blowers, single inlet, 24 / 48 VDC	Ø 085 - Ø 160	422
	EC centrifugal fans and blowers, single inlet, line-fed	Ø 108 - Ø 450	438
	EC centrifugal blowers, dual inlet, 24 / 48 VDC	Ø 133 - Ø 160	502
	EC centrifugal blowers, dual inlet, line-fed	Ø 146 - Ø 180	510



EC centrifugal fans and blowers

single inlet, Ø 085

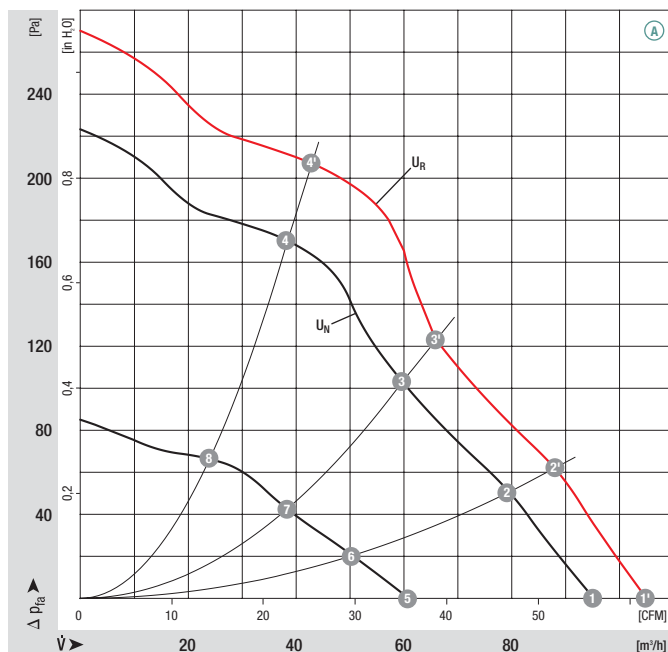


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 085	M1G 045-BE	(A)	24	16-28	95	2850	14	0.64	57	0	-25 to +60	G)
*1G 085	M1G 045-BE	(A)	48	36-57	95	2850	14	0.32	57	0	-25 to +60	G)

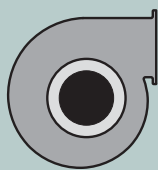
subject to alterations

Curves

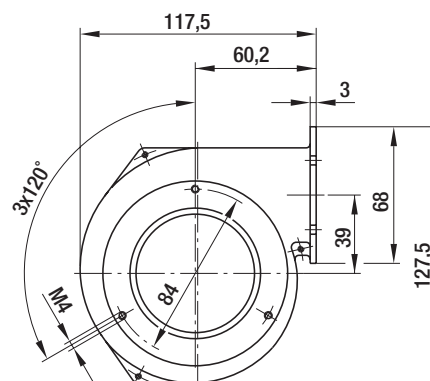
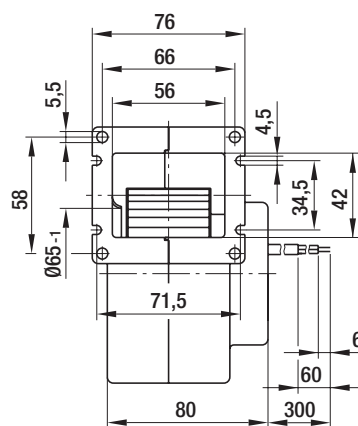
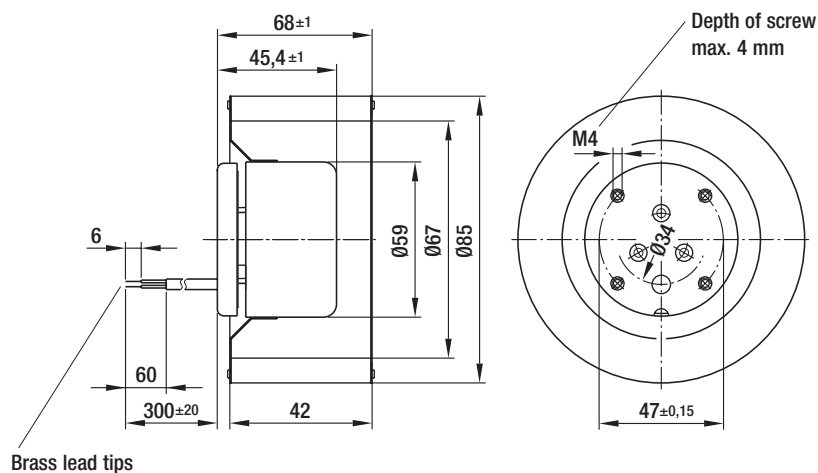


	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1'	3180	19	59	—
(A) 2'	3300	16	57	28
(A) 3'	3500	15	57	32
(A) 4'	3800	12	57	37
(A) 1	2850	14	57	—
(A) 2	3000	12	55	28
(A) 3	3180	11	55	32
(A) 4	3400	9	54	37
(A) 5	1890	5	46	—
(A) 6	1970	4	44	25
(A) 7	2070	4	44	30
(A) 8	2170	3	42	33

- **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 fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 085-AB05 -01	0.5	G1G 085-AB05 -01	0.8
R1G 085-AB07 -01	0.5	G1G 085-AB07 -01	0.8



EC centrifugal fans and blowers

single inlet, Ø 097

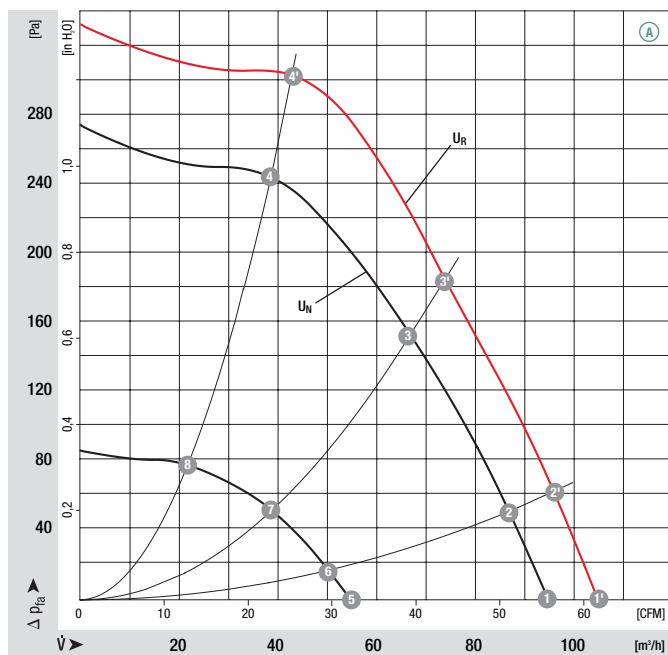


- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 097	M1G 045-BE	(A)	24	16-28	95	2650	16	0.75	59	0	-25 to +60	G)
*1G 097	M1G 045-BE	(A)	48	36-57	95	2650	16	0.38	59	0	-25 to +60	G)

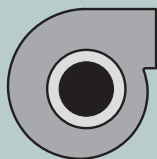
subject to alterations

Curves

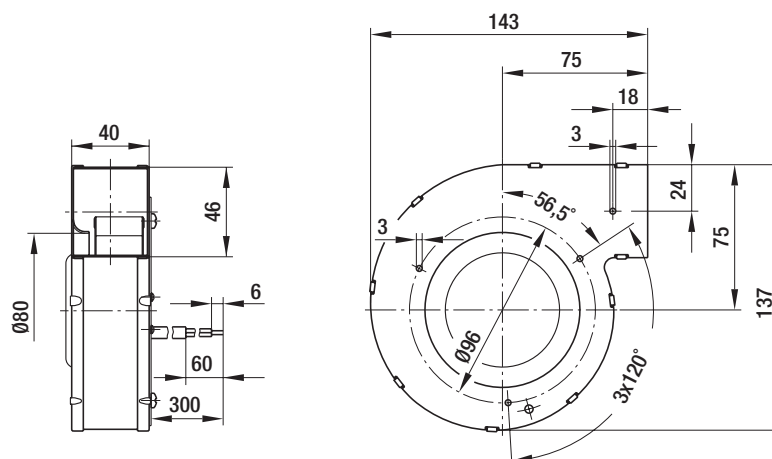
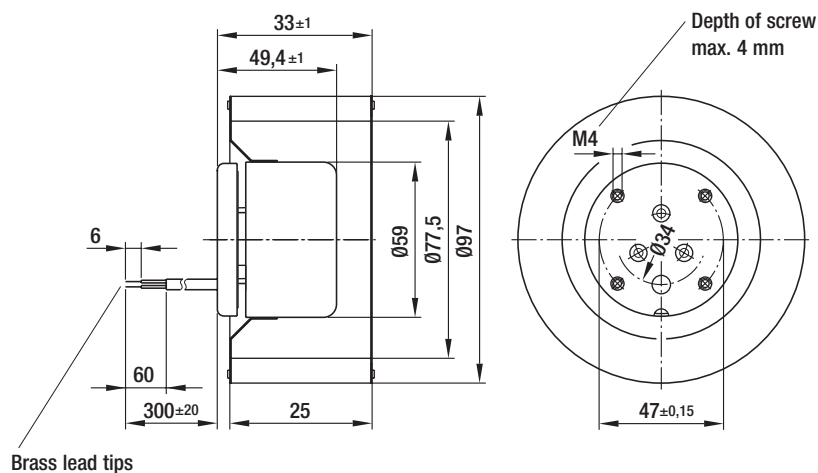


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2920	22	62	—
(A) 2'	3030	21	61	41
(A) 3'	3300	17	59	48
(A) 4'	3700	13	58	48
(A) 1	2650	16	59	—
(A) 2	2730	15	58	41
(A) 3	2960	13	56	48
(A) 4	3290	10	55	48
(A) 5	1615	4	45	—
(A) 6	1650	4	45	38
(A) 7	1745	4	43	46
(A) 8	1880	3	42	47

- **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

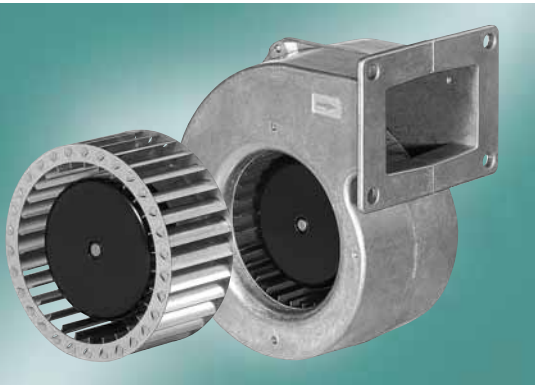
Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower without flange	kg
R1G 097-AA05 -01	0.5	G1G 097-AA05 -01	0.8
R1G 097-AA07 -01	0.5	G1G 097-AA07 -01	0.8



EC centrifugal fans and blowers

single inlet, Ø 108

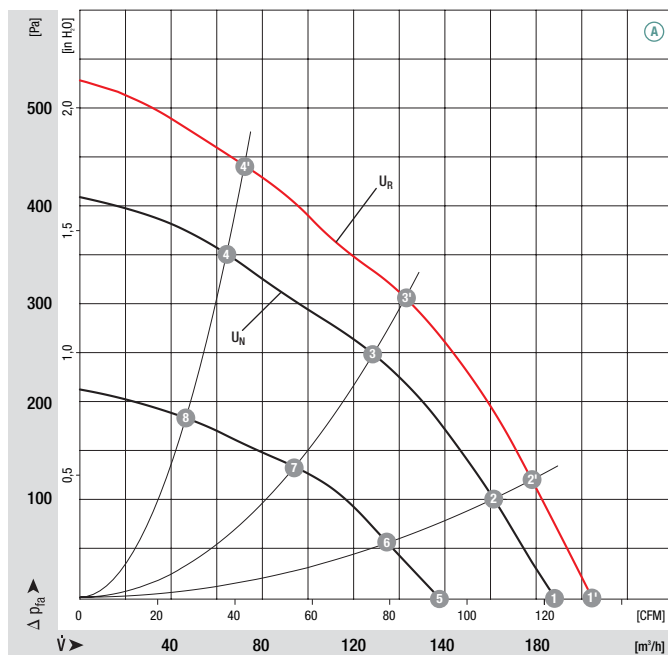


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 108	M1G 055-BD	(A)	24	16-28	200	3000	42	2.00	65	0	-25 to +60	G)
*1G 108	M1G 055-BD	(A)	48	36-57	200	3000	42	1.00	65	0	-25 to +60	G)

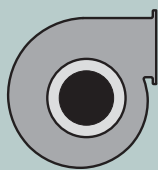
subject to alterations

Curves

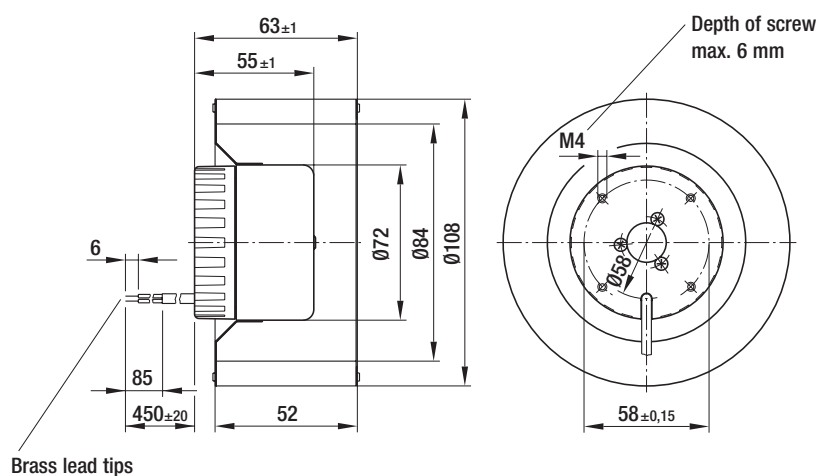


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	3230	55	67	—
(A) 2'	3410	52	66	33
(A) 3'	3800	43	65	41
(A) 4'	4100	35	64	33
(A) 1	3000	42	65	—
(A) 2	3140	40	64	33
(A) 3	3420	32	63	41
(A) 4	3690	26	63	33
(A) 5	2300	20	61	—
(A) 6	2380	17	58	33
(A) 7	2550	14	55	41
(A) 8	2720	11	55	33

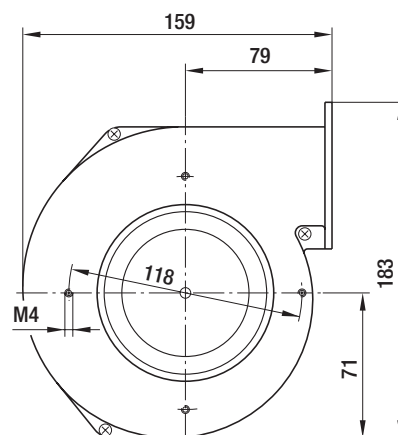
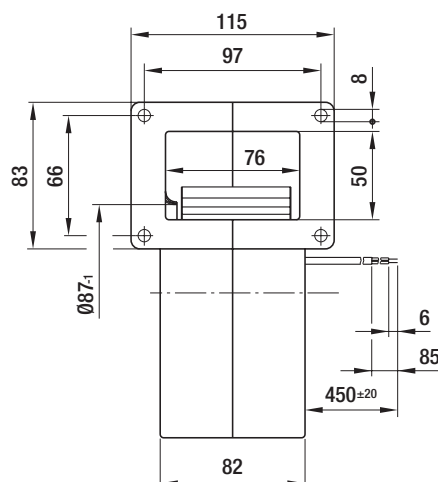
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (24 VDC) UL, CSA,  (48 VDC) CCC
- Tach output
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 108-AB17 -02	0.7	G1G 108-AB17 -02	1.4
R1G 108-AB41 -02	0.7	G1G 108-AB41 -02	1.4

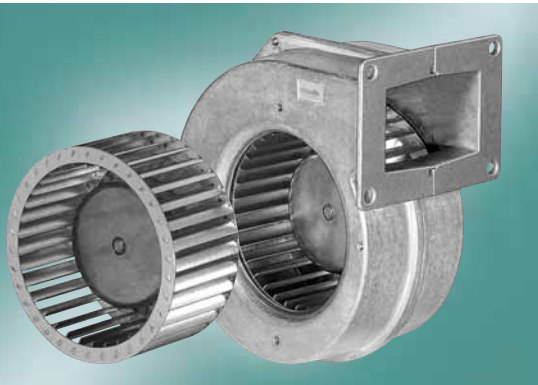


Brass lead tips



EC centrifugal fans and blowers

single inlet, Ø 120

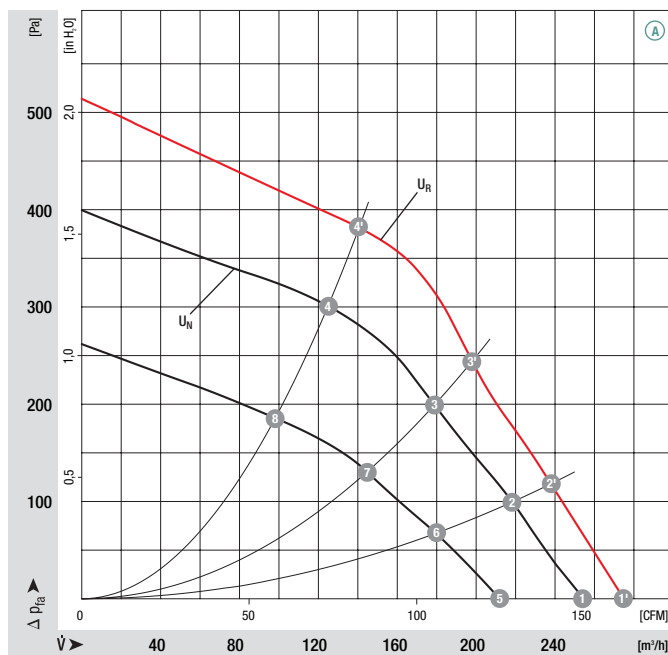


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 120	M1G 055-BD	(A)	24	16-28	255	2200	40	1.90	62	0	-25 to +60	G)
*1G 120	M1G 055-BD	(A)	48	36-57	255	2200	40	0.95	62	0	-25 to +60	G)

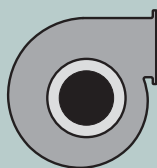
subject to alterations

Curves

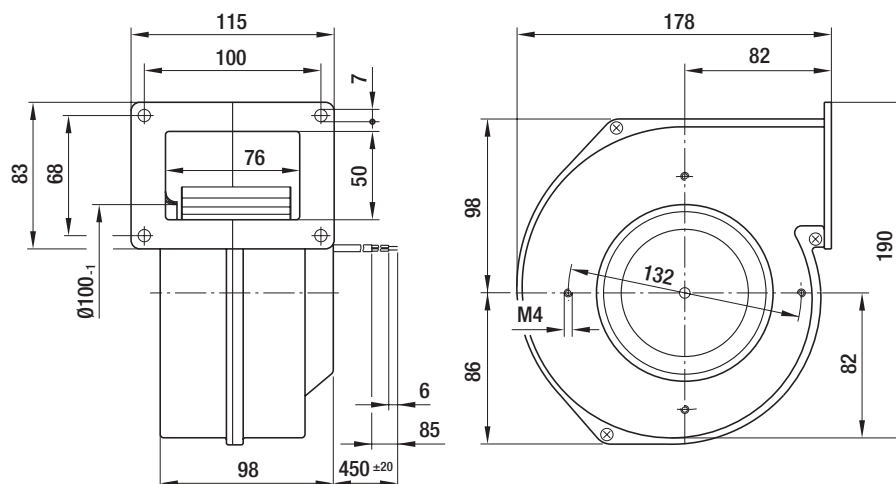
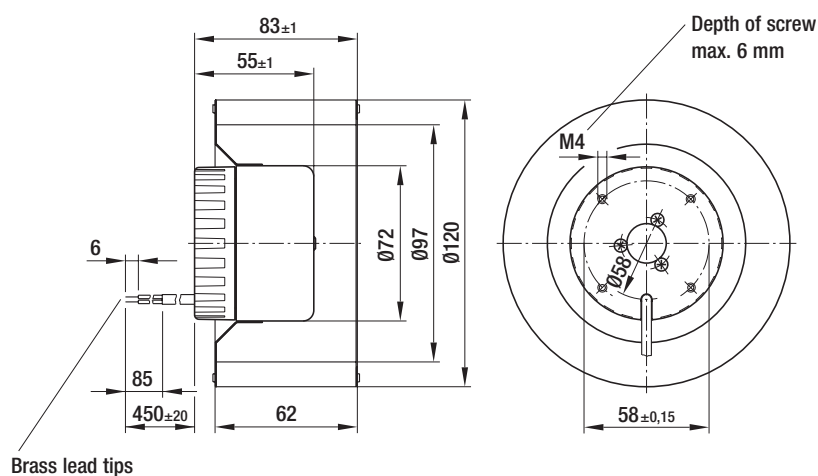


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	2410	50	63	—
(A) 2'	2620	47	62	58
(A) 3'	2870	44	61	60
(A) 4'	3200	36	62	55
(A) 1	2200	40	62	—
(A) 2	2410	36	60	59
(A) 3	2600	32	58	62
(A) 4	2880	25	58	55
(A) 5	1870	24	55	—
(A) 6	1990	21	54	58
(A) 7	2100	18	53	61
(A) 8	2310	14	54	54

- **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:** Axial
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (24 VDC) UL, CSA,  (48 VDC) CCC
- Tach output
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 120-AB67 -02	0.8	G1G 120-AB67 -02	1.6
R1G 120-AB71 -02	0.8	G1G 120-AB71 -02	1.6



EC centrifugal fans and blowers

single inlet, Ø 133

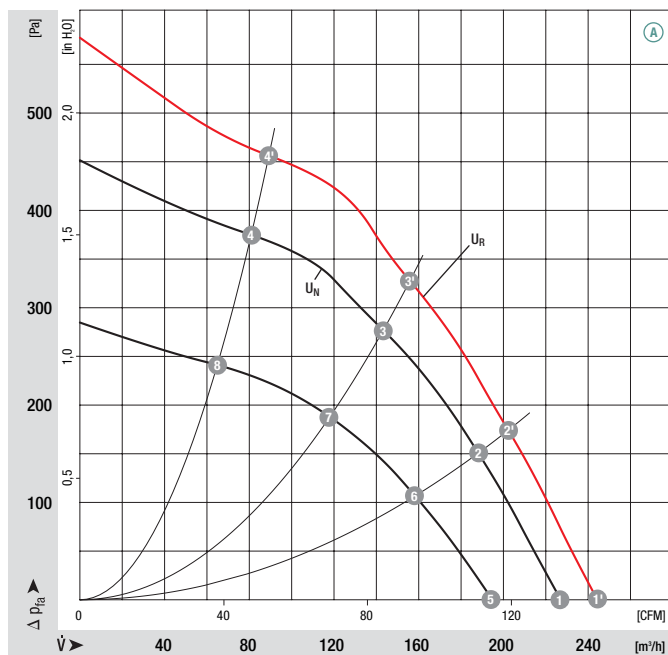


- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 133	M1G 055-BD	(A)	24	16-28	225	2000	40	2.20	64	0	-25 to +60	G)
*1G 133	M1G 055-BD	(A)	48	36-57	225	2000	45	1.10	64	0	-25 to +60	G)

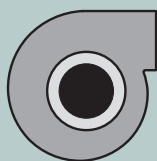
subject to alterations

Curves

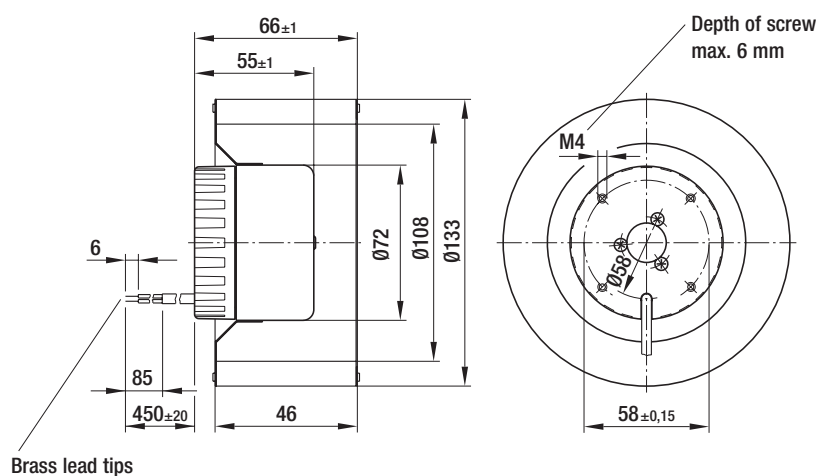


	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η_{tL} [%]
(A) 1'	2170	57	66	—
(A) 2'	2410	51	66	47
(A) 3'	2750	44	64	49
(A) 4'	3200	36	66	32
(A) 1	2000	45	64	—
(A) 2	2230	40	64	49
(A) 3	2540	35	62	51
(A) 4	2920	27	63	33
(A) 5	1750	28	60	—
(A) 6	1910	24	59	50
(A) 7	2120	20	58	53
(A) 8	2370	15	59	35

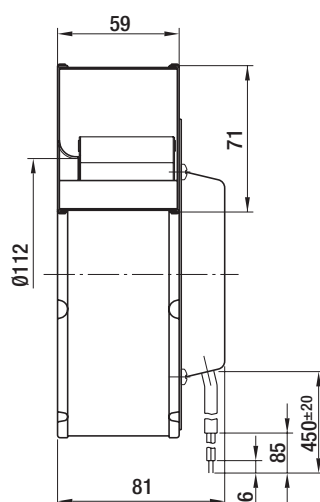
- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Tach output
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Lateral
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (24 VDC) UL, CSA,  (48 VDC) CCC
- Reverse polarity and locked-rotor protection

Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower without flange	kg
R1G 133-AE19 -02	0.7	G1G 133-DE19 -02	1.3
R1G 133-AE03 -02	0.7	G1G 133-DE03 -02	1.3

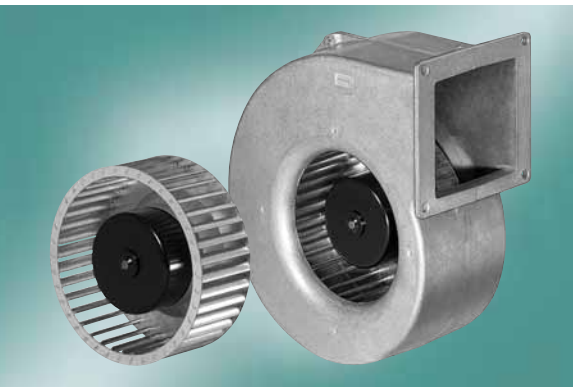


Brass lead tips



EC centrifugal fans and blowers

single inlet, Ø 140

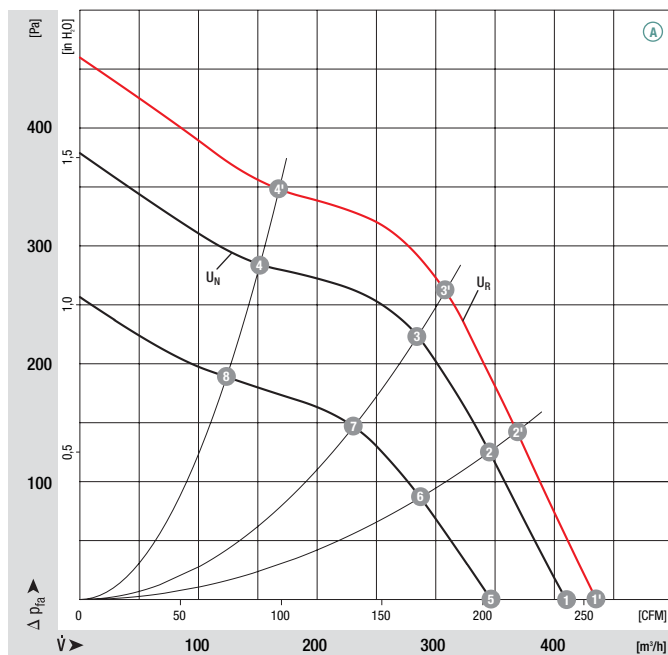


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 140	M1G 055-CF	(A)	24	16-28	400	1750	54	2.50	63	0	-25 to +60	G)
*1G 140	M1G 055-CF	(A)	48	36-57	410	1750	54	1.30	63	0	-25 to +60	G)

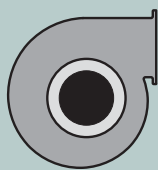
subject to alterations

Curves

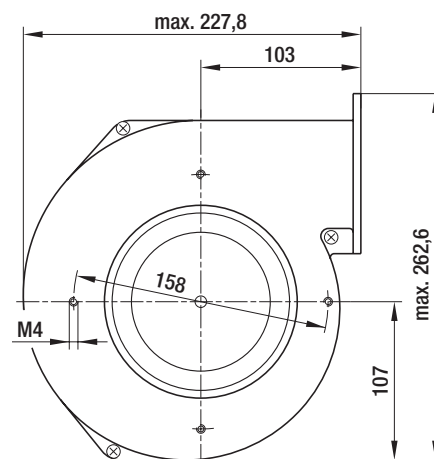
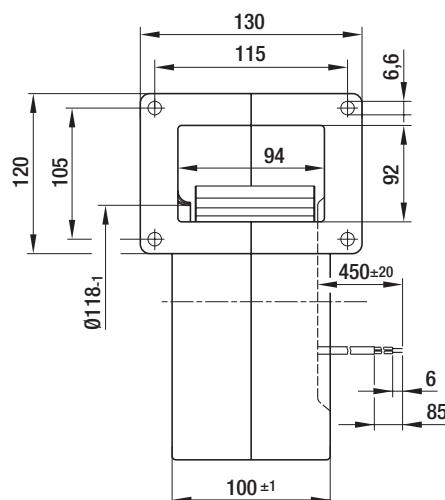
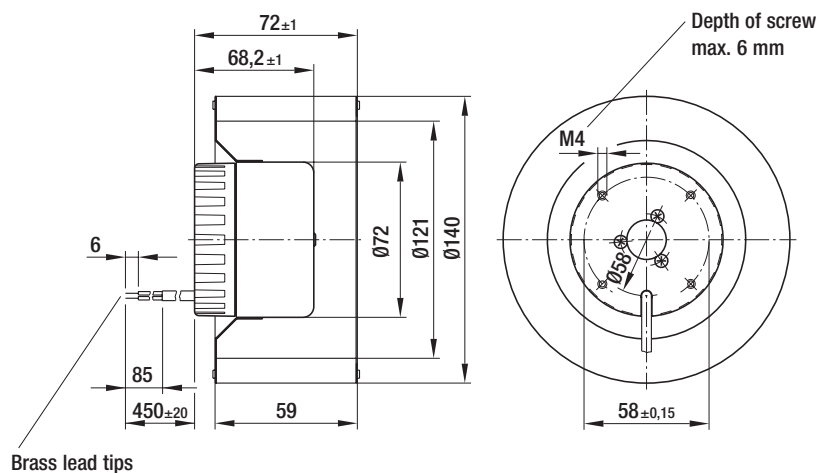


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	1850	65	64	—
(A) 2'	2020	61	61	50
(A) 3'	2200	57	59	54
(A) 4'	2550	43	60	40
(A) 1	1750	54	63	—
(A) 2	1900	50	59	51
(A) 3	2030	45	58	54
(A) 4	2310	32	58	40
(A) 5	1500	34	60	—
(A) 6	1580	29	56	50
(A) 7	1670	25	54	53
(A) 8	1880	19	53	41

- **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:** 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 fanMass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 140-AV17 -02	1.0	G1G 140-AV17 -02	2.3
R1G 140-AV21 -02	1.0	G1G 140-AV21 -02	2.3



EC centrifugal fans and blowers

single inlet, Ø 146

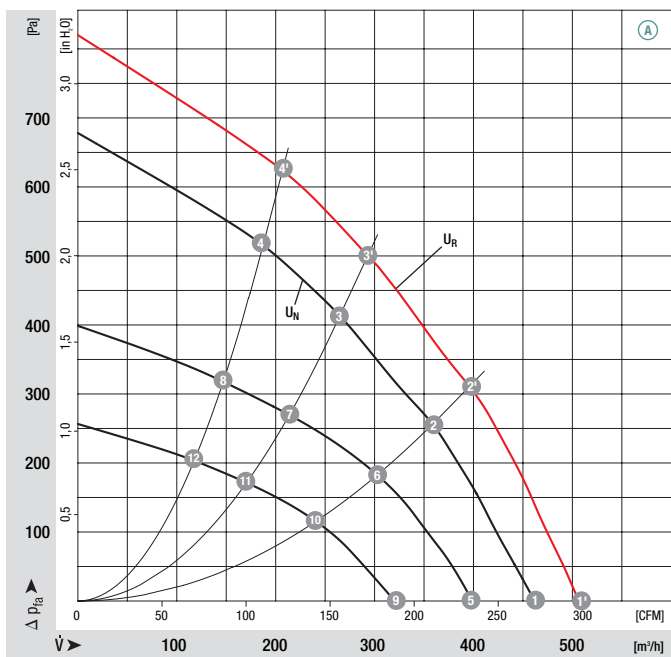


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 146	M1G 074-BF	(A)	24	16-28	470	2200	100	5.00	68	0	-25 to +60	G)
*1G 146	M1G 074-BF	(A)	48	36-57	465	2150	100	2.60	67	0	-25 to +60	G)

subject to alterations

Curves (established at 24 VDC)

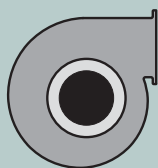


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2400	140	70	—
(A) 2'	2650	130	67	45
(A) 3'	3000	110	66	49
(A) 4'	3300	100	67	45
(A) 1	2200	100	68	—
(A) 2	2445	90	65	46
(A) 3	2750	84	64	49
(A) 4	3025	77	65	45
(A) 5	1890	68	63	—
(A) 6	2075	57	60	46
(A) 7	2250	48	61	49
(A) 8	2335	41	61	45
(A) 9	1520	37	59	—
(A) 10	1670	32	55	46
(A) 11	1815	27	55	49
(A) 12	1920	23	55	45

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

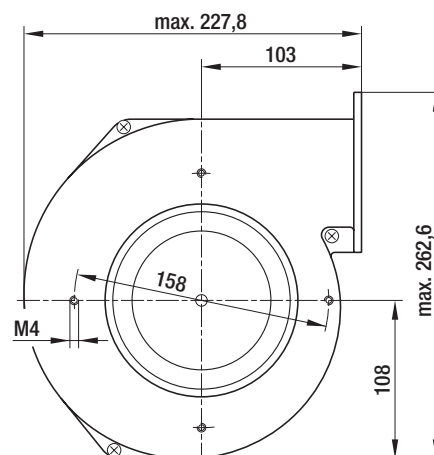
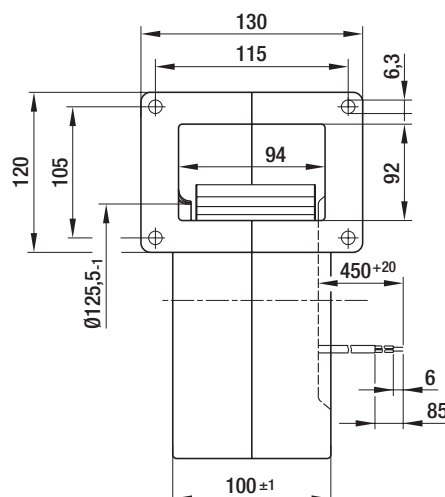
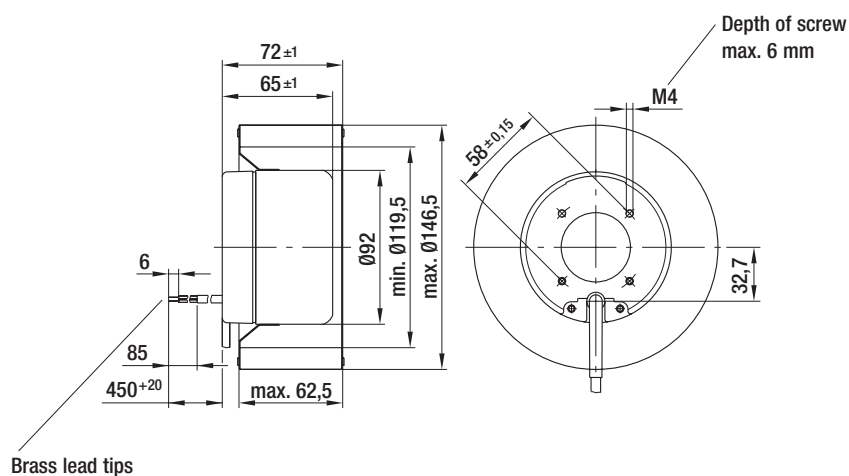


Mass of centrifugal fan



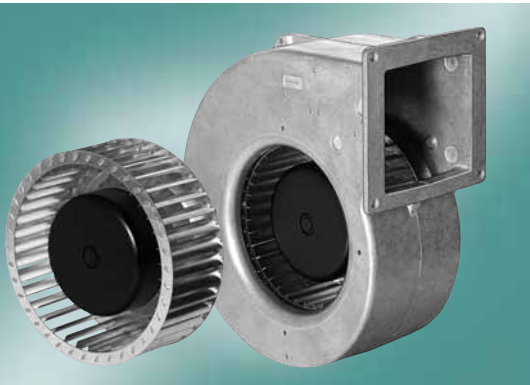
Mass of
centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 146-AA07 -52	1.4	G1G 146-BA07 -52	2.8
R1G 146-AA11 -52	1.4	G1G 146-BA11 -52	2.8



EC centrifugal fans and blowers

single inlet, Ø 160

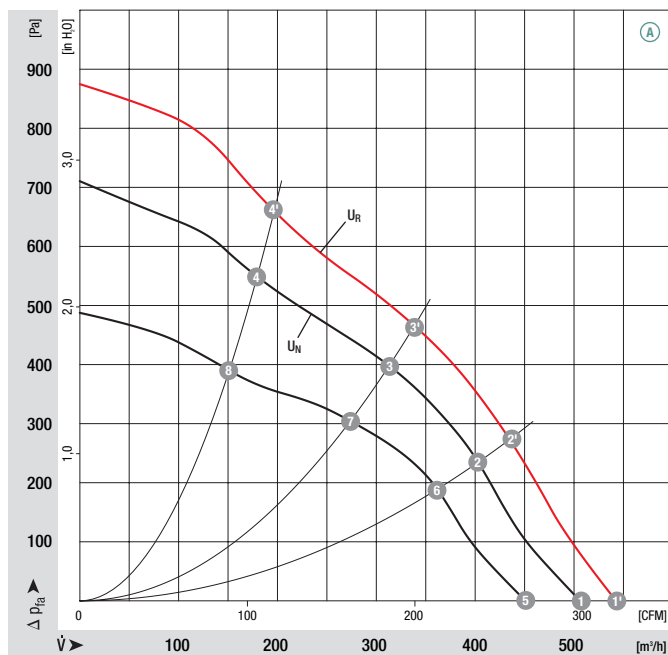


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
*1G 160	M1G 074-BF	(A)	24	16-28	505	1750	105	5.80	67	0	-25 to +60	G)
*1G 160	M1G 074-BF	(A)	48	36-57	505	1750	105	2.90	67	0	-25 to +60	G)

subject to alterations

Curves

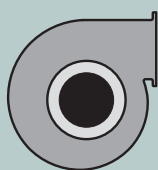


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	1890	134	68	—
(A) 2'	2200	118	67	52
(A) 3'	2500	110	67	57
(A) 4'	2900	102	69	52
(A) 1	1750	105	67	—
(A) 2	2030	95	66	52
(A) 3	2270	90	65	57
(A) 4	2550	81	67	44
(A) 5	1580	72	62	—
(A) 6	1810	66	62	52
(A) 7	2000	58	62	57
(A) 8	2200	48	63	54

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

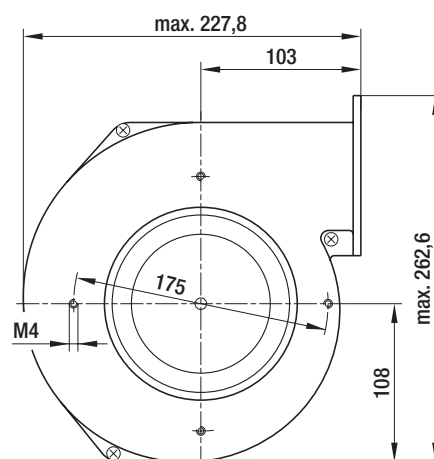
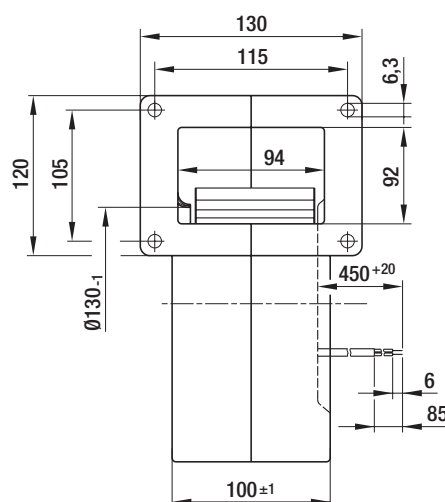
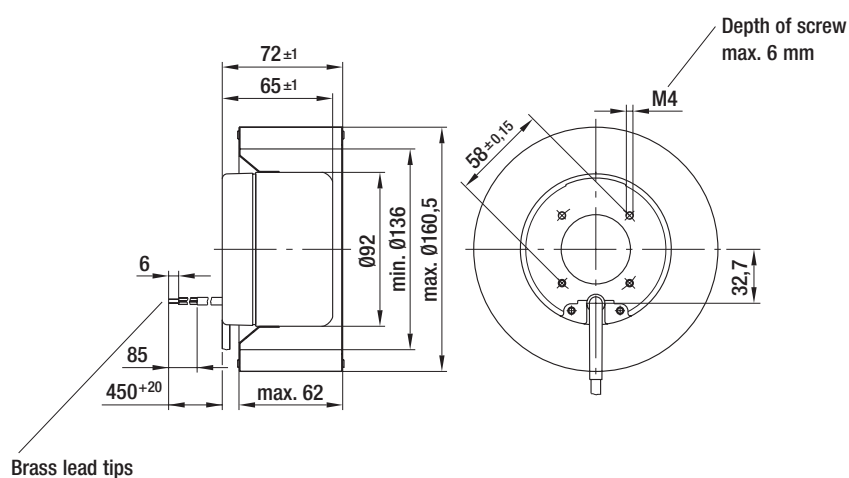


Mass of centrifugal fan



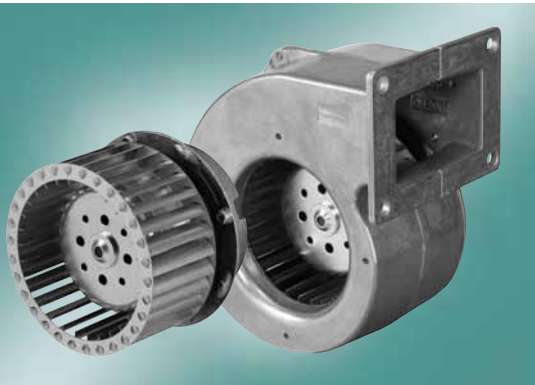
Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R1G 160-AH29 -52	1.4	G1G 160-BH29 -52	2.8
R1G 160-AH39 -52	1.4	G1G 160-BH39 -52	2.8



EC centrifugal fan and blowers

single inlet, Ø 108



- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

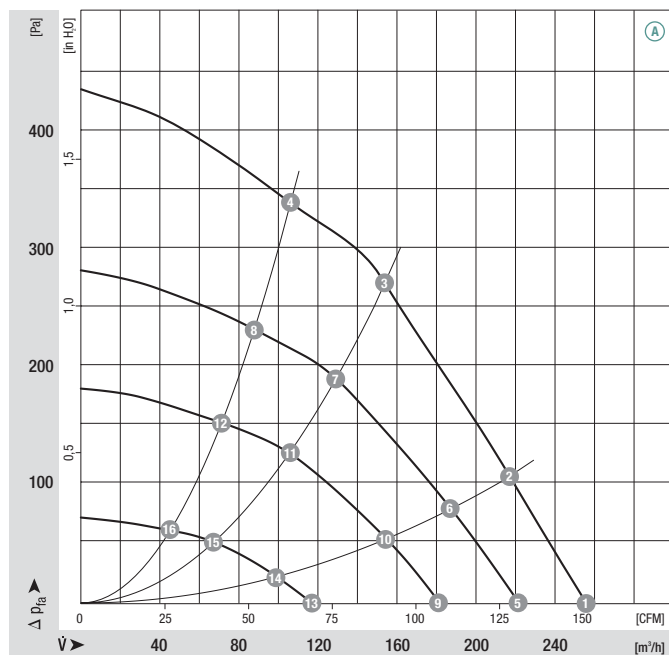
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 108	M3G 055-BD	Ⓐ	1~ 115	50/60	2960	60	0.90	0	-25 to +60	p. 601

subject to alterations

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

Curves

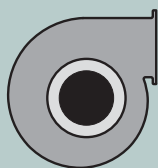


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2960	60	0.90	64	—
Ⓐ 2	3100	53	0.80	62	42
Ⓐ 3	3370	42	0.60	60	44
Ⓐ 4	3560	34	0.50	59	32
Ⓐ 5	2570	38	0.55	61	—
Ⓐ 6	2660	34	0.50	60	42
Ⓐ 7	2820	25	0.40	57	44
Ⓐ 8	2920	19	0.30	55	32
Ⓐ 9	2150	23	0.35	56	—
Ⓐ 10	2200	20	0.30	55	42
Ⓐ 11	2320	16	0.25	52	44
Ⓐ 12	2390	12	0.20	50	32
Ⓐ 13	1400	9	0.20	46	—
Ⓐ 14	1425	8	0.20	44	42
Ⓐ 15	1490	7	0.20	40	44
Ⓐ 16	1530	6	0.20	40	32

- **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



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

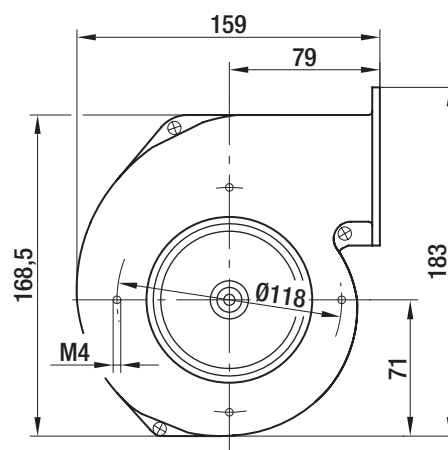
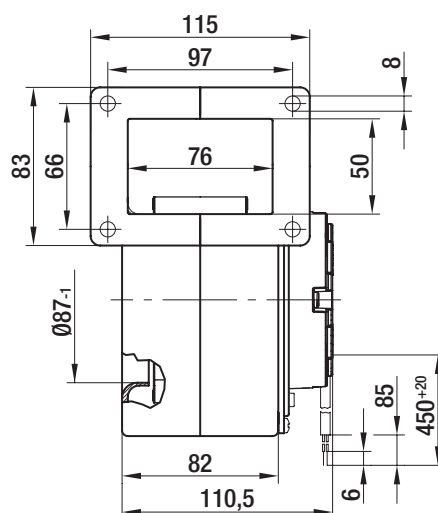
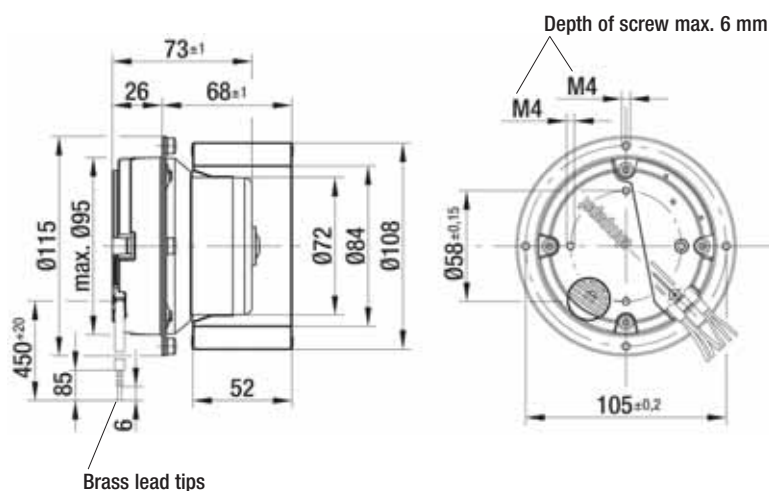
kg

R3G 108-AB15 -02

1.0

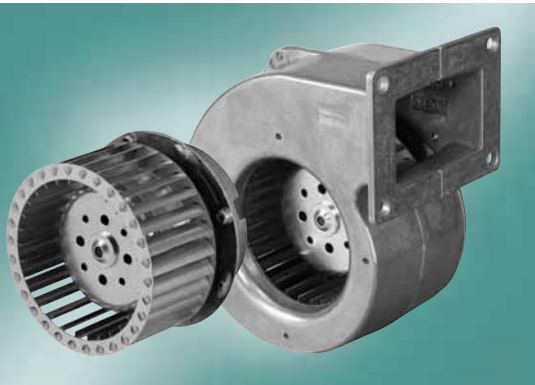
G3G 108-BB15 -02

1.7



EC centrifugal fan and blowers

single inlet, Ø 108



- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

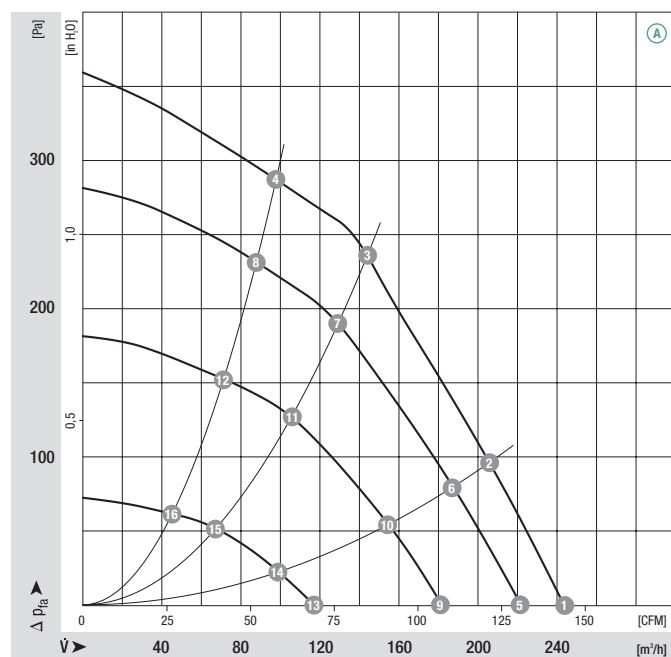
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 108	M3G 055-BD	Ⓐ	1~ 230	50/60	2800	50	0.38	0	-25 to +60	p. 601

subject to alterations

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

Curves

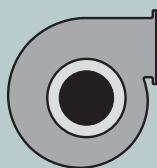


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2800	50	0.38	64	—
Ⓐ 2	2950	44	0.35	62	42
Ⓐ 3	3120	33	0.25	60	44
Ⓐ 4	3260	25	0.20	59	32
Ⓐ 5	2570	38	0.30	61	—
Ⓐ 6	2660	34	0.25	60	42
Ⓐ 7	2820	25	0.20	57	44
Ⓐ 8	2920	19	0.15	55	32
Ⓐ 9	2150	23	0.20	56	—
Ⓐ 10	2200	20	0.15	55	42
Ⓐ 11	2320	16	0.15	52	44
Ⓐ 12	2390	12	0.10	50	32
Ⓐ 13	1400	9	0.10	46	—
Ⓐ 14	1425	8	0.10	44	42
Ⓐ 15	1490	7	0.10	40	44
Ⓐ 16	1530	6	0.10	40	32

- **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



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

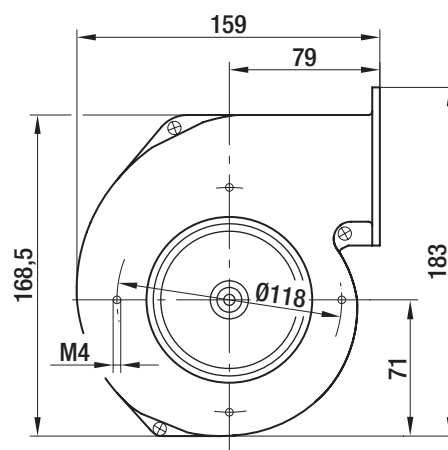
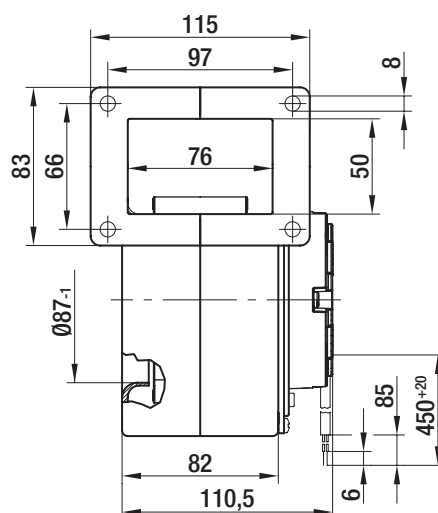
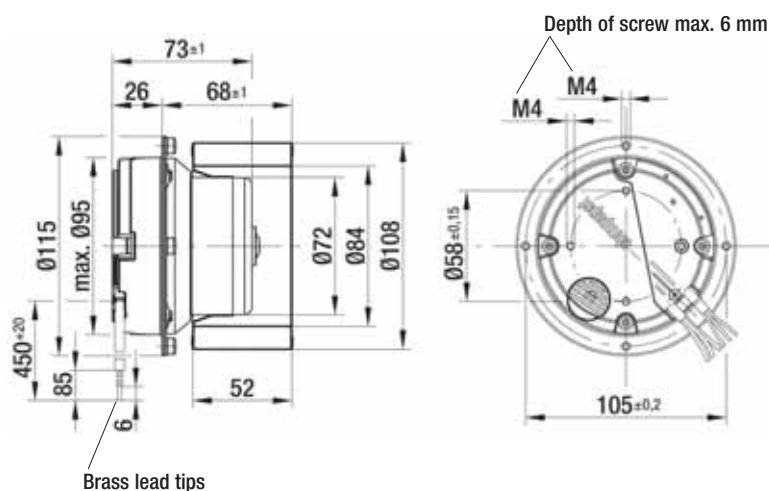
kg

R3G 108-AB01 -02

1.0

G3G 108-BB01 -02

1.7



EC centrifugal fan and blowers

single inlet, Ø 120



- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

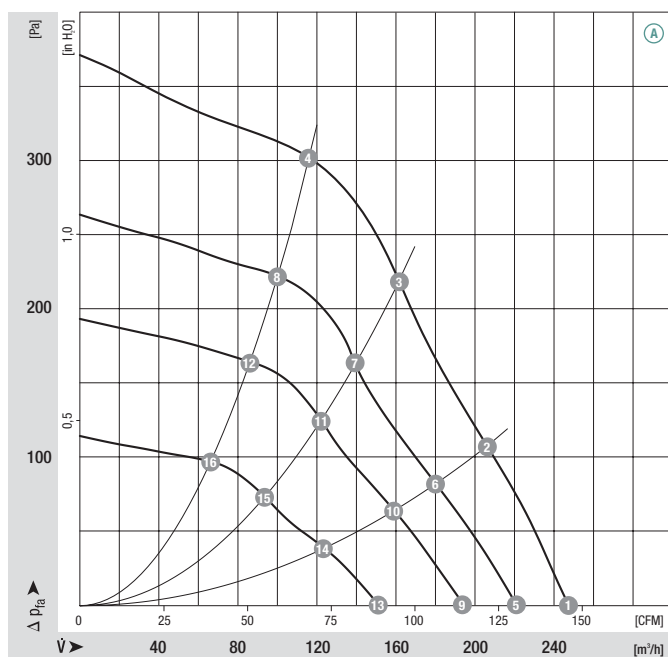
Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 601
*3G 120	M3G 055-BD	Ⓐ	1~ 115	50/60	2320	46	0.70	0	-25 to +60	H1)

subject to alterations

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

Curves

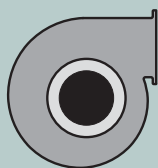


	n	P ₁	I	L _{pA}	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
Ⓐ 1	2320	46	0.70	61	—
Ⓐ 2	2490	40	0.60	59	52
Ⓐ 3	2640	33	0.50	58	58
Ⓐ 4	2880	24	0.40	57	51
Ⓐ 5	2060	34	0.50	59	—
Ⓐ 6	2190	29	0.45	57	50
Ⓐ 7	2295	24	0.40	55	54
Ⓐ 8	2445	18	0.30	54	52
Ⓐ 9	1830	24	0.40	54	—
Ⓐ 10	1920	20	0.30	52	50
Ⓐ 11	2010	17	0.30	51	54
Ⓐ 12	2115	13	0.20	51	52
Ⓐ 13	1430	13	0.20	48	—
Ⓐ 14	1500	12	0.20	45	50
Ⓐ 15	1580	10	0.20	44	54
Ⓐ 16	1640	8	0.20	44	52

- **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

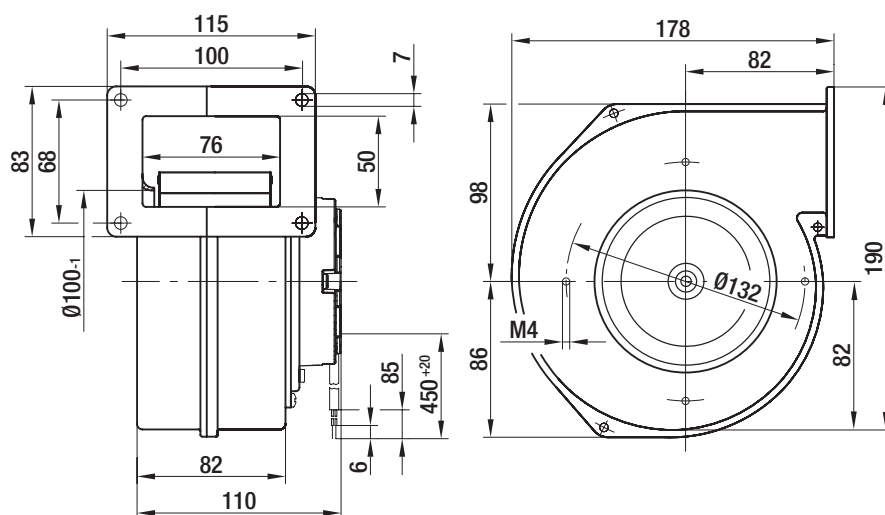
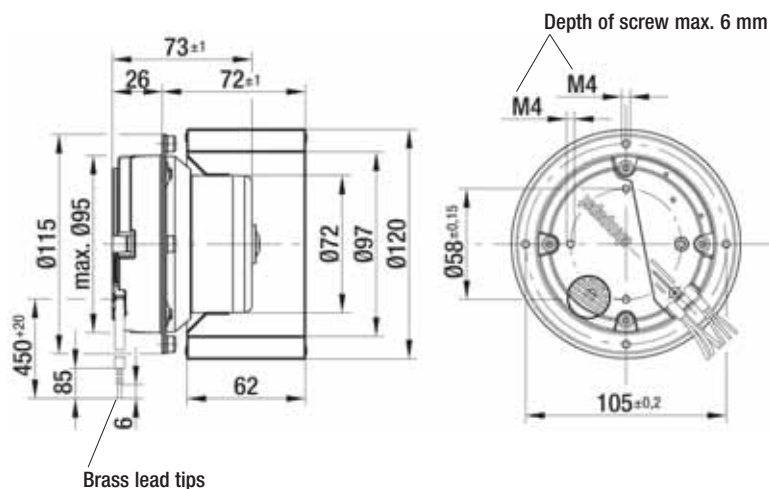


Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R3G 120-AB13 -02	1.1	G3G 120-BB13 -02	1.8



EC centrifugal fan and blowers

single inlet, Ø 120



- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

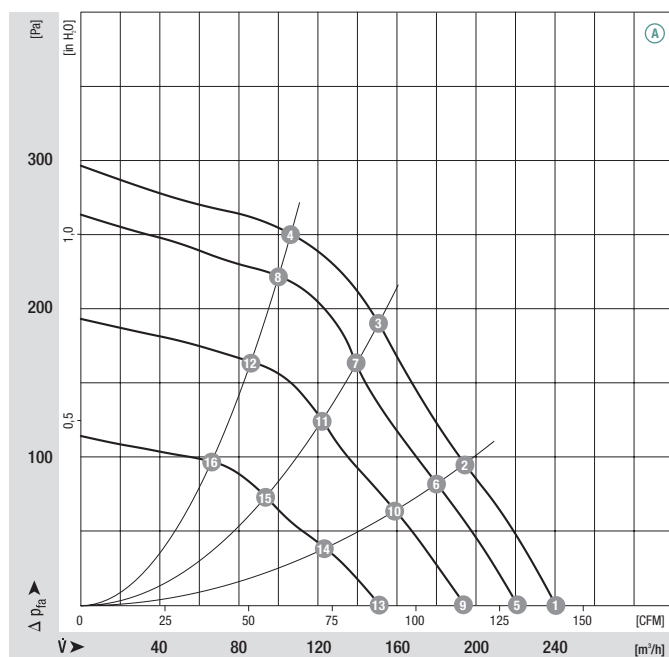
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 120	M3G 055-BD	Ⓐ	1~ 230	50/60	2200	41	0.30	0	-25 to +60	p. 601

subject to alterations

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

Curves



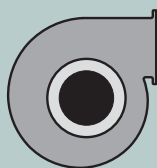
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2200	41	0.30	62	—
Ⓐ 2	2320	34	0.25	59	51
Ⓐ 3	2440	28	0.20	57	55
Ⓐ 4	2600	20	0.15	57	49
Ⓐ 5	2060	34	0.25	59	—
Ⓐ 6	2190	29	0.20	57	50
Ⓐ 7	2295	24	0.20	55	54
Ⓐ 8	2445	18	0.15	54	52
Ⓐ 9	1830	24	0.20	54	—
Ⓐ 10	1920	20	0.15	52	50
Ⓐ 11	2010	17	0.15	51	54
Ⓐ 12	2115	13	0.10	51	52
Ⓐ 13	1430	13	0.10	48	—
Ⓐ 14	1500	12	0.10	45	50
Ⓐ 15	1580	10	0.10	44	54
Ⓐ 16	1640	8	0.10	44	52

- **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



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

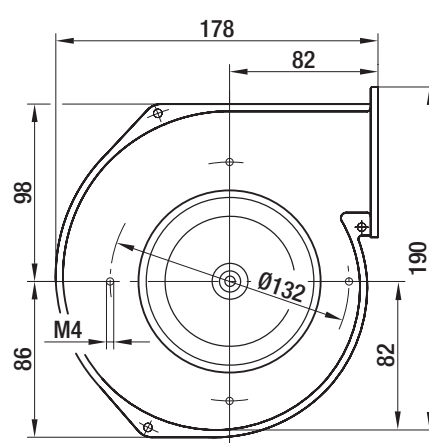
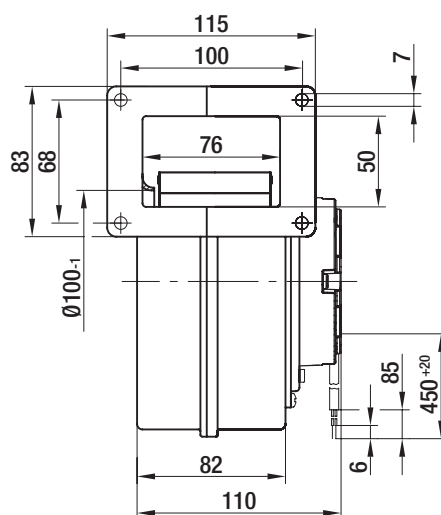
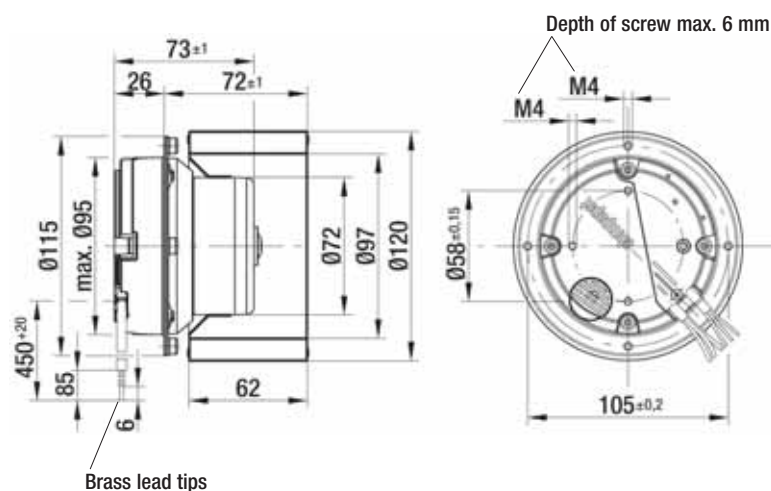
kg

R3G 120-AB03 -02

1.1

G3G 120-BB03 -02

1.8



EC centrifugal fan and blowers

single inlet, Ø 133



- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

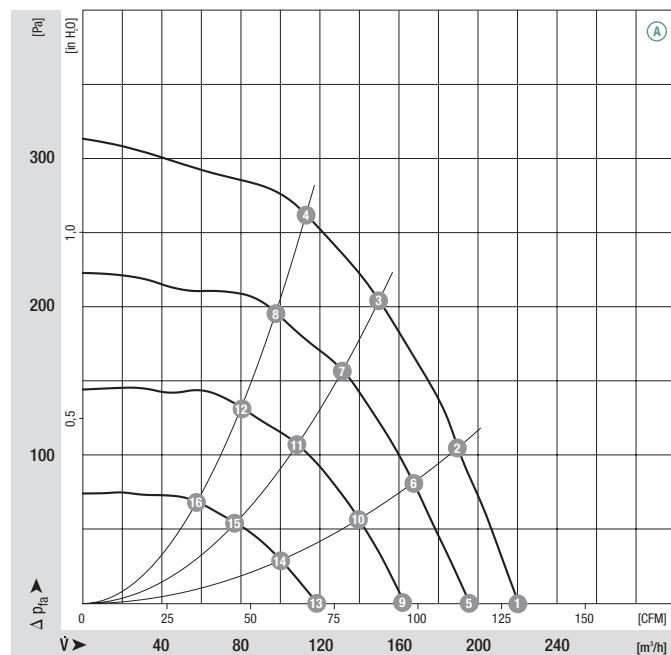
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 133	M3G 055-BD	Ⓐ	1~ 115	50/60	2000	42	0.60	0	-25 to +60	p. 601

subject to alterations

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

Curves

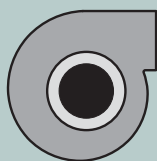


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2000	42	0.60	64	—
Ⓐ 2	2140	37	0.55	62	42
Ⓐ 3	2310	30	0.45	60	52
Ⓐ 4	2460	23	0.35	58	51
Ⓐ 5	1780	30	0.45	60	—
Ⓐ 6	1870	26	0.40	59	45
Ⓐ 7	1995	21	0.30	56	53
Ⓐ 8	2120	17	0.25	56	51
Ⓐ 9	1495	18	0.30	55	—
Ⓐ 10	1570	16	0.25	54	45
Ⓐ 11	1640	13	0.20	51	53
Ⓐ 12	1730	10	0.20	50	51
Ⓐ 13	1100	9	0.20	49	—
Ⓐ 14	1140	8	0.20	47	45
Ⓐ 15	1200	7	0.20	44	53
Ⓐ 16	1250	6	0.20	41	51

- **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



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower without flange

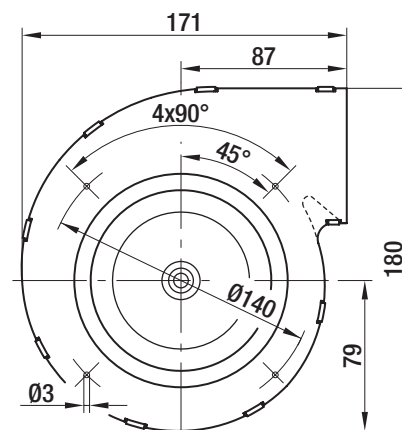
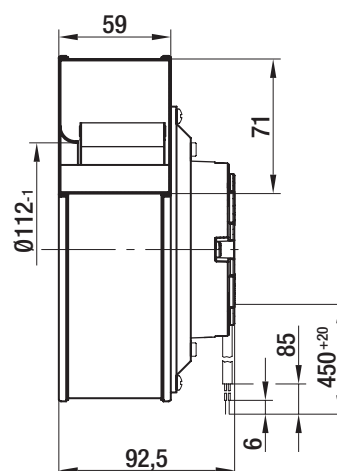
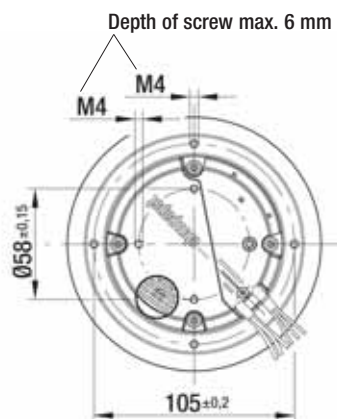
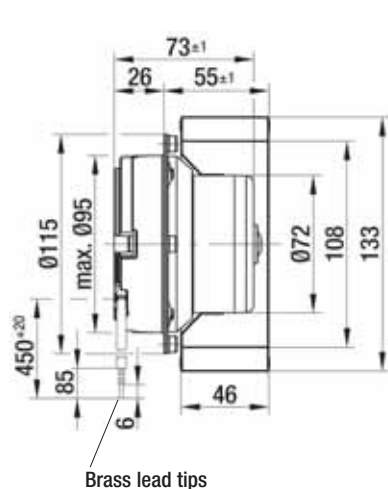
kg

R3G 133-AD11 -02

1.0

G3G 133-DD11 -02

1.5



EC centrifugal fan and blowers

single inlet, Ø 133



- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

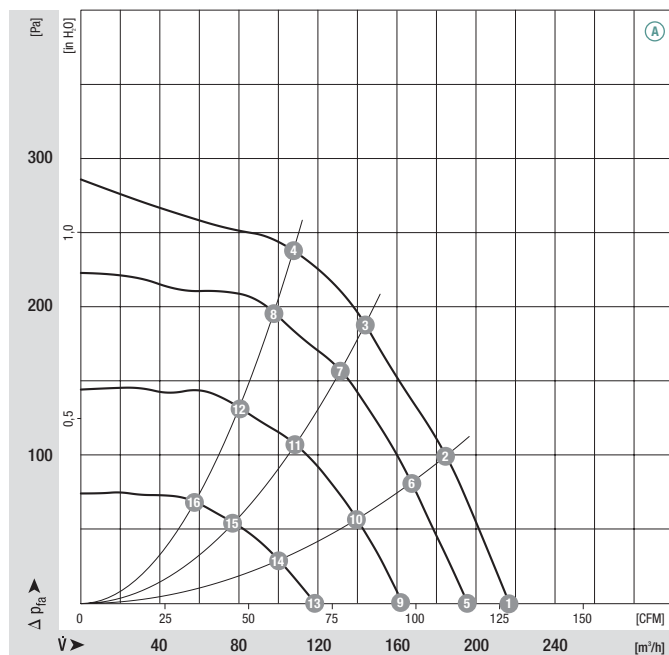
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 133	M3G 055-BD	Ⓐ	1~ 230	50/60	1925	38	0.30	0	-25 to +60	p. 601

subject to alterations

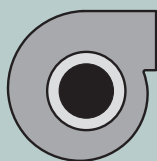
(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	1925	38	0.30	63	—
Ⓐ 2	2070	34	0.25	62	45
Ⓐ 3	2210	27	0.20	60	53
Ⓐ 4	2330	21	0.15	59	51
Ⓐ 5	1780	30	0.25	60	—
Ⓐ 6	1870	26	0.20	59	45
Ⓐ 7	1995	21	0.15	56	53
Ⓐ 8	2120	17	0.15	56	51
Ⓐ 9	1495	18	0.15	55	—
Ⓐ 10	1570	16	0.15	54	45
Ⓐ 11	1640	13	0.10	51	53
Ⓐ 12	1730	10	0.10	50	51
Ⓐ 13	1100	9	0.10	49	—
Ⓐ 14	1140	8	0.10	47	45
Ⓐ 15	1200	7	0.10	44	53
Ⓐ 16	1250	6	0.10	41	51

- **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 fanMass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
without flange

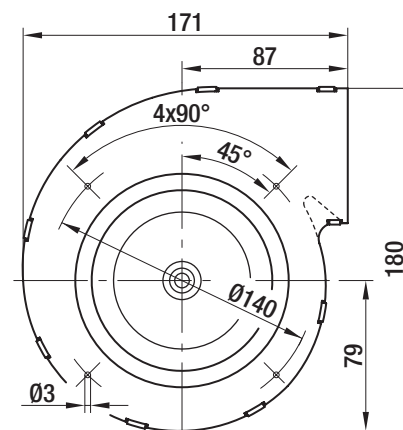
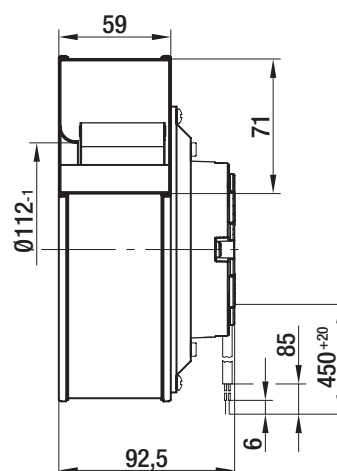
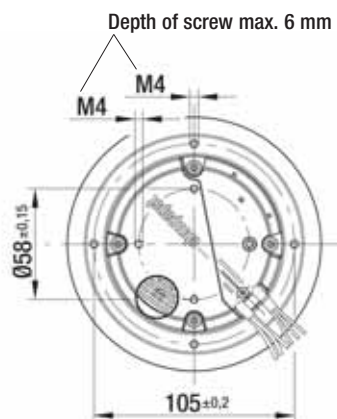
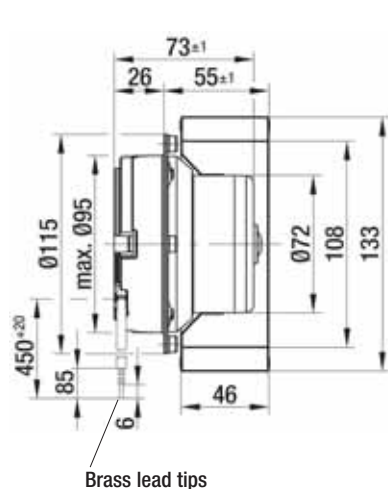
kg

R3G 133-AD05 -02

1.0

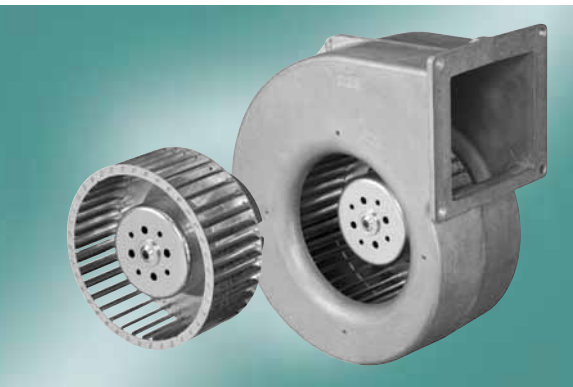
G3G 133-DD05 -02

1.5



EC centrifugal fan and blowers

single inlet, Ø 140

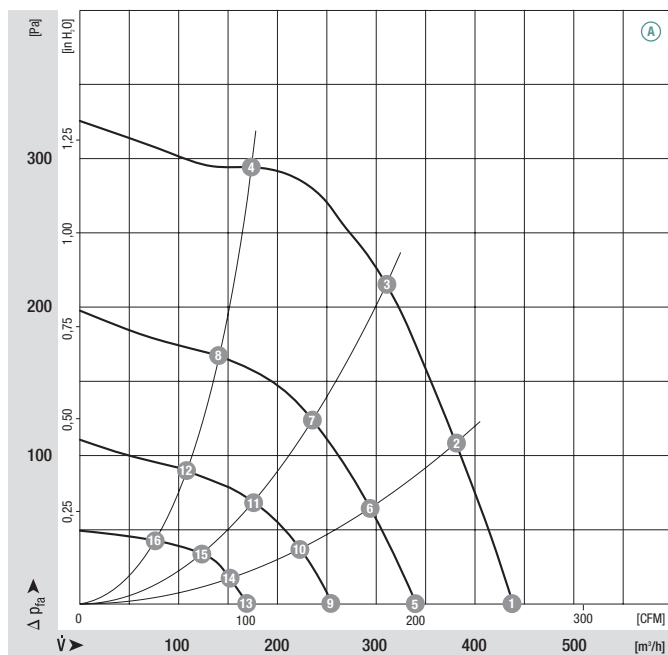


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate 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⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 601
*3G 140	M3G 055-CF	Ⓐ	1~ 115	50/60	1790	70	1.00	0	-25 to +60	H1)

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

Curves

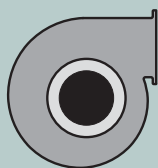


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	1790	70	1.00	63	—
Ⓐ 2	1900	63	1.00	61	46
Ⓐ 3	2040	53	0.80	60	61
Ⓐ 4	2250	36	0.50	58	55
Ⓐ 5	1410	33	0.60	58	—
Ⓐ 6	1500	30	0.55	56	46
Ⓐ 7	1600	25	0.45	54	56
Ⓐ 8	1790	18	0.30	53	48
Ⓐ 9	1060	14	0.35	51	—
Ⓐ 10	1105	13	0.30	50	46
Ⓐ 11	1210	11	0.25	47	56
Ⓐ 12	1355	8	0.20	47	48
Ⓐ 13	705	4	0.20	40	—
Ⓐ 14	750	4	0.20	39	46
Ⓐ 15	800	3	0.20	38	56
Ⓐ 16	895	3	0.20	37	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:** GOST; VDE, UL, CSA, CCC are applied for
- Tach output
- Locked-rotor protection



Mass of
centrifugal fan



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

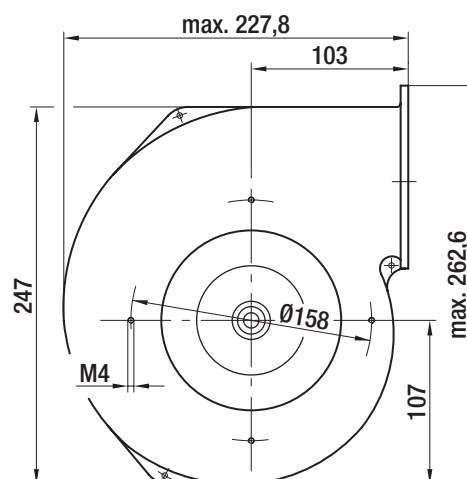
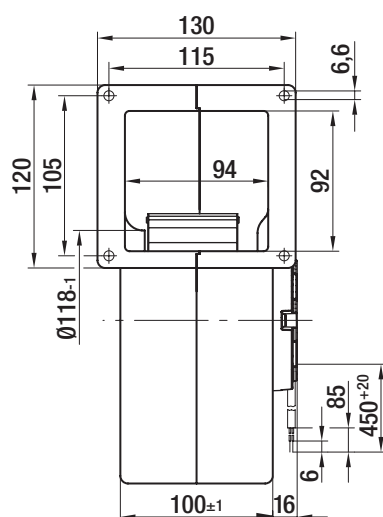
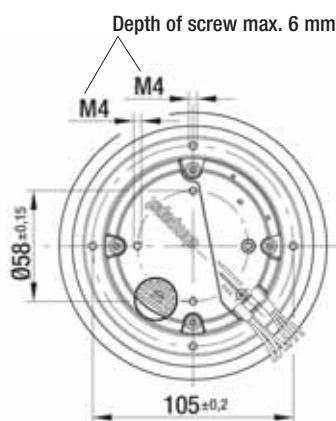
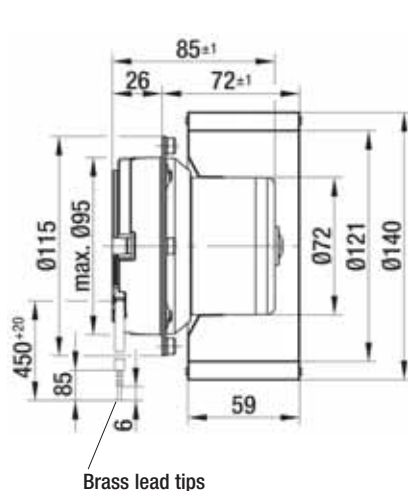
kg

R3G 140-AV19 -02

1.3

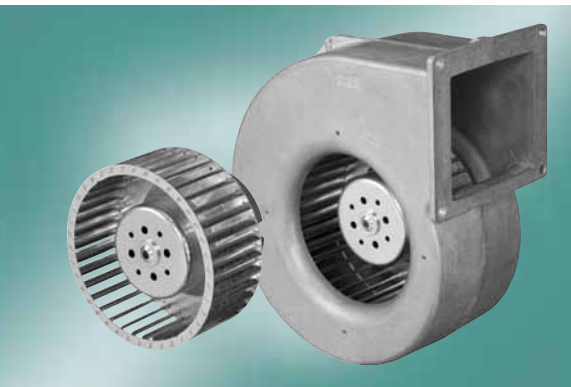
G3G 140-AV19 -02

2.6



EC centrifugal fan and blowers

single inlet, Ø 140

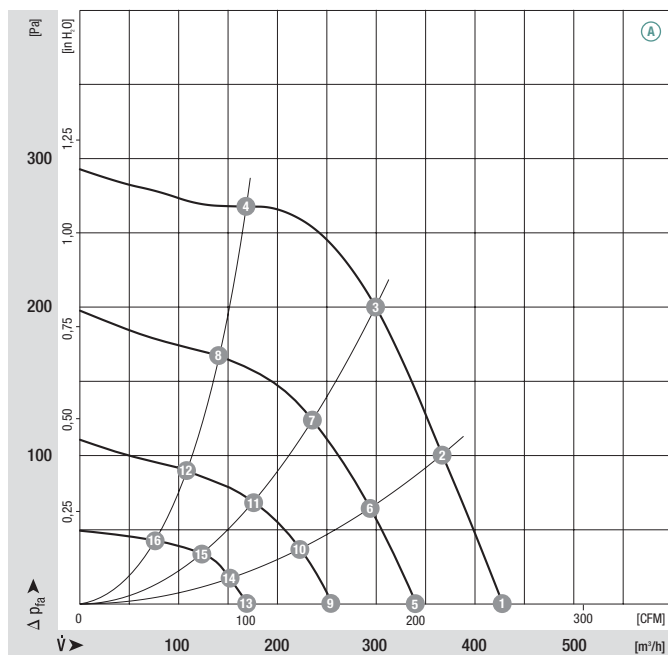


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate 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⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 601
*3G 140	M3G 055-CF	Ⓐ	1~ 230	50/60	1800	66	0.50	0	-25 to +60	H1)

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

Curves

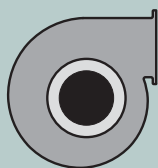


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	1800	66	0.50	63	—
Ⓐ 2	1860	58	0.40	62	46
Ⓐ 3	1970	49	0.35	60	56
Ⓐ 4	2170	33	0.25	58	48
Ⓐ 5	1410	33	0.30	58	—
Ⓐ 6	1500	30	0.25	56	46
Ⓐ 7	1600	25	0.25	54	56
Ⓐ 8	1790	18	0.15	53	48
Ⓐ 9	1060	14	0.15	51	—
Ⓐ 10	1105	13	0.15	50	46
Ⓐ 11	1210	11	0.15	47	56
Ⓐ 12	1355	8	0.10	47	48
Ⓐ 13	705	4	0.10	40	—
Ⓐ 14	750	4	0.10	39	46
Ⓐ 15	800	3	0.10	38	56
Ⓐ 16	895	3	0.10	37	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:** GOST; VDE, UL, CSA, CCC are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

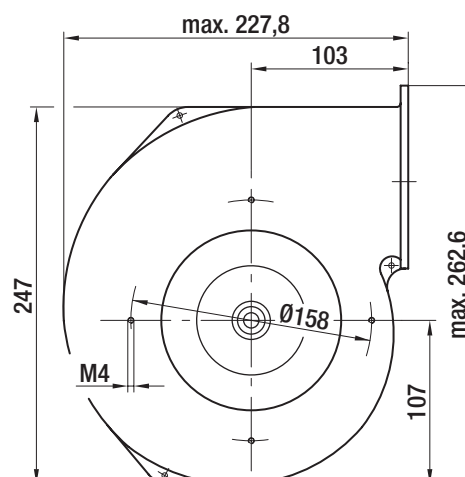
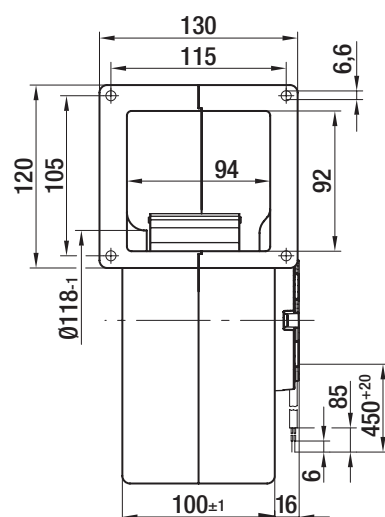
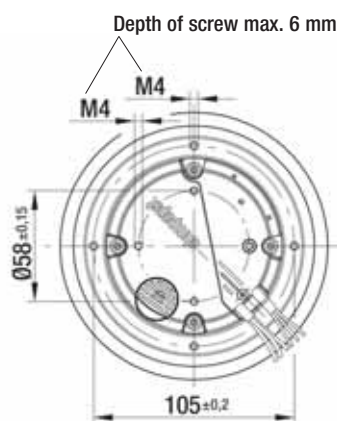
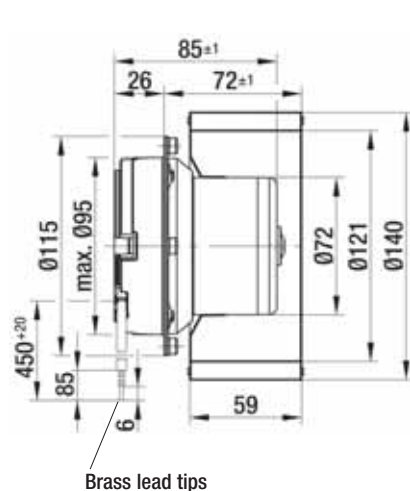
kg

R3G 140-AV03 -02

1.3

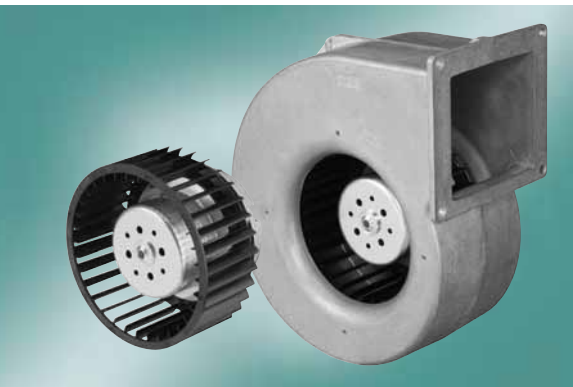
G3G 140-AV03 -02

2.6



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 140

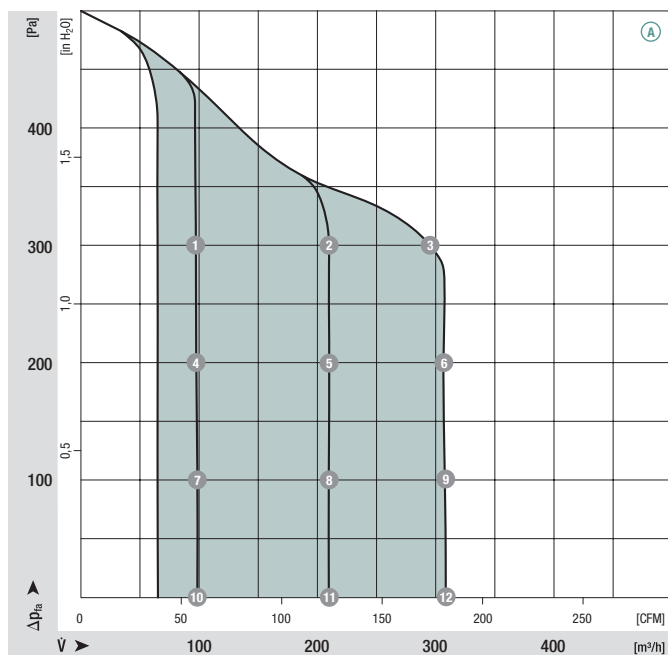


- **Material:** Housing: Die-cast aluminium
Impeller: PP plastic
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 602
*3G 140	M3G 055-CF	Ⓐ	1~ 115	50/60	1340	70	1.00	0	-25 to +60	H2)

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

Curves

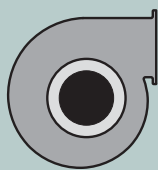


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2390	29	0.40	59	37
Ⓐ 2	2450	55	0.80	60	50
Ⓐ 3	2460	67	1.00	60	57
Ⓐ 4	1920	17	0.30	54	38
Ⓐ 5	1960	30	0.70	55	54
Ⓐ 6	2130	55	0.80	60	55
Ⓐ 7	1300	9	0.20	46	36
Ⓐ 8	1550	22	0.30	51	48
Ⓐ 9	1760	40	0.60	58	48
Ⓐ 10	440	3	0.10	33	—
Ⓐ 11	880	9	0.15	45	—
Ⓐ 12	1340	25	0.40	55	—

- **Technical features:**
 - Input for set value Lin 0-10 VDC / PWM (1.7 V Δ 50 m³/h, 10 V Δ 300 m³/h)
- **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
- **Air intake:** Constant air flow curves can only be attained with unobstructed air intake (s. p. 586)
- Output 10 VDC max. 1.1 mA
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

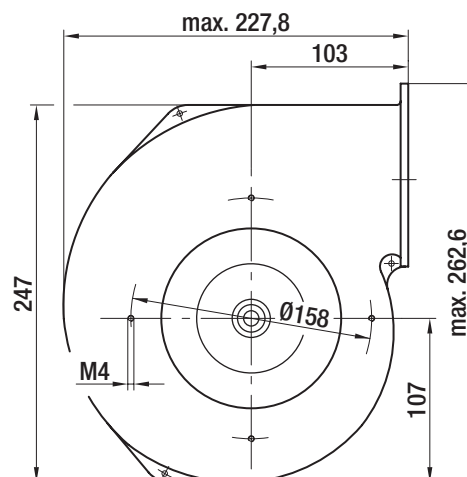
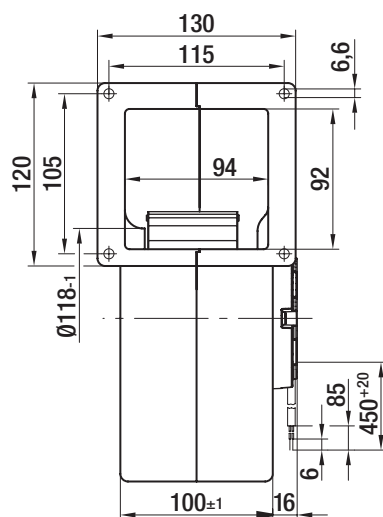
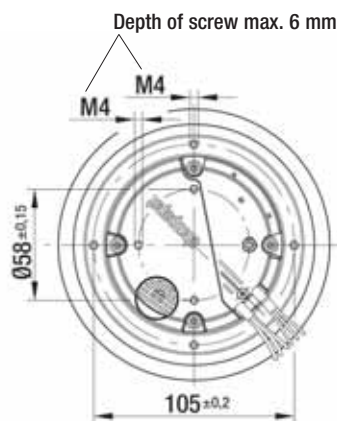
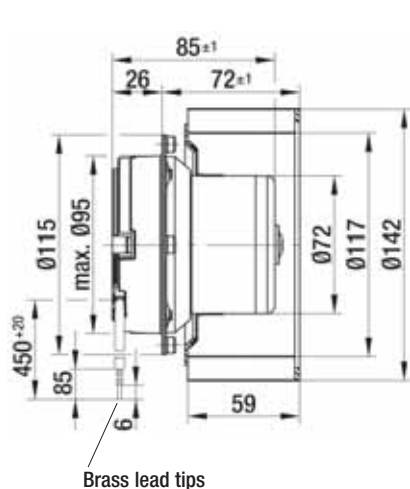
kg

R3G 140-AW21-12

1.3

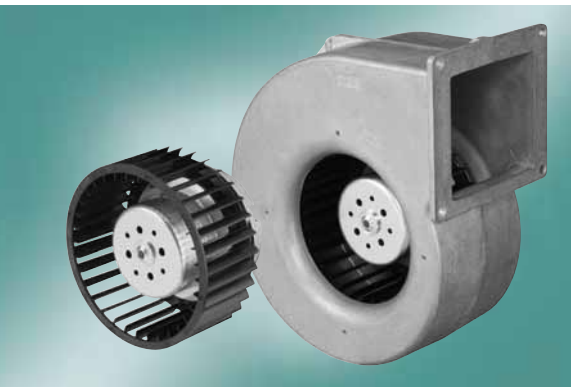
G3G 140-AW21-12

2.6



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 140

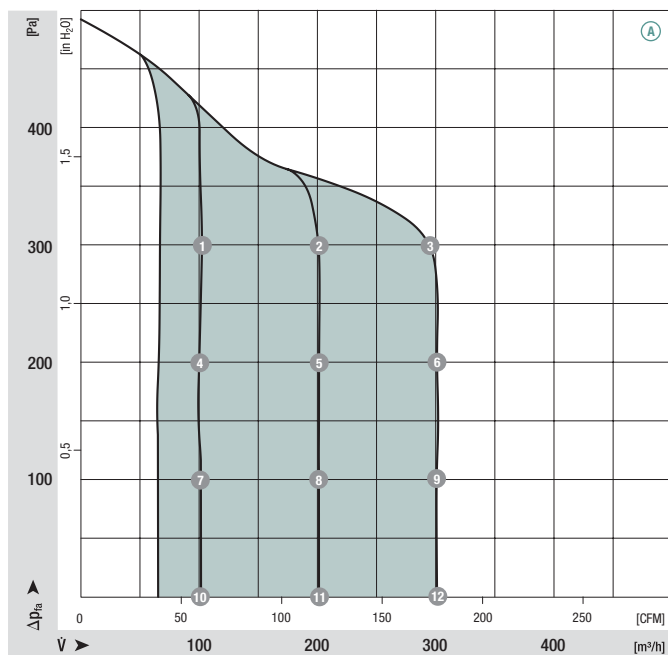


- **Material:** Housing: Die-cast aluminium
Impeller: PP plastic
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 602
*3G 140	M3G 055-CF	Ⓐ	1~ 230	50/60	1380	70	0.60	0	-25 to +60	H2)

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

Curves

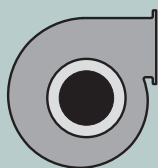


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2380	33	0.25	59	37
Ⓐ 2	2495	51	0.45	60	50
Ⓐ 3	2400	67	0.55	60	57
Ⓐ 4	2030	22	0.20	54	38
Ⓐ 5	2000	34	0.30	55	54
Ⓐ 6	2110	61	0.50	60	55
Ⓐ 7	1325	12	0.10	46	36
Ⓐ 8	1460	21	0.20	51	48
Ⓐ 9	1755	43	0.35	58	48
Ⓐ 10	480	3	0.05	33	—
Ⓐ 11	890	11	0.10	45	—
Ⓐ 12	1380	31	0.25	55	—

- **Technical features:**
 - Input for set value Lin 0-10 VDC / PWM (1.7 V Δ 50 m³/h, 10 V Δ 300 m³/h)
- **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
- **Air intake:** Constant air flow curves can only be attained with unobstructed air intake (s. p. 586)
- Output 10 VDC max. 1.1 mA
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

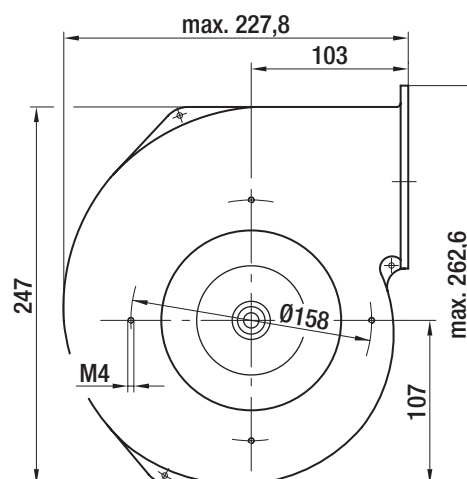
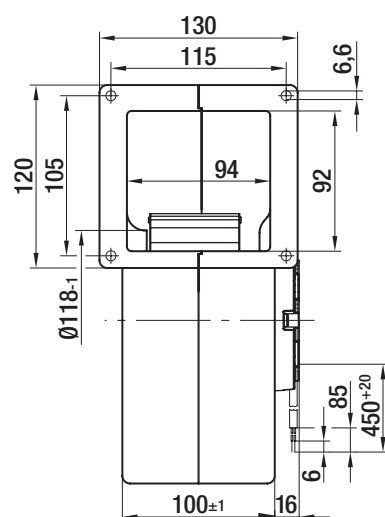
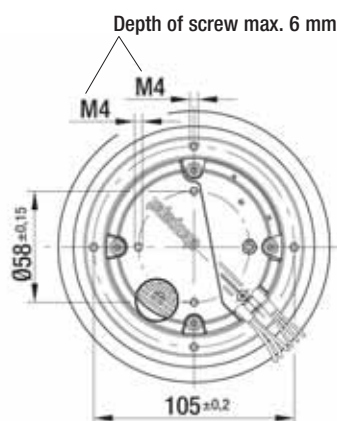
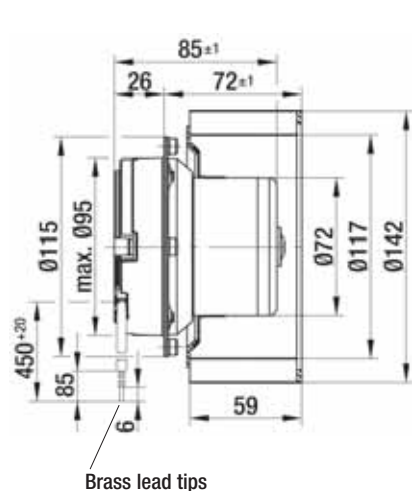
kg

R3G 140-AW05-12

1.3

G3G 140-AW05-12

2.6



EC centrifugal fan and blowers

single inlet, Ø 146

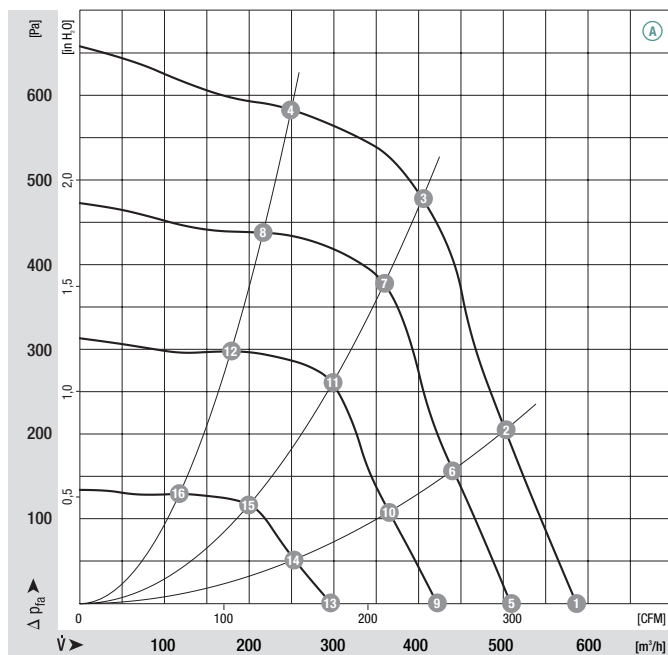


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor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

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 146	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2430	170	2.20	0	-25 to +60	J1)

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

Curves

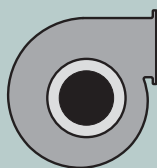


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2430	168	2.10	71	—
Ⓐ 2	2720	167	2.10	70	40
Ⓐ 3	3040	159	2.00	68	55
Ⓐ 4	3230	119	1.50	67	50
Ⓐ 5	2120	110	1.40	67	—
Ⓐ 6	2390	109	1.40	66	40
Ⓐ 7	2700	109	1.40	65	56
Ⓐ 8	2800	77	1.00	63	49
Ⓐ 9	1770	66	0.90	63	—
Ⓐ 10	1980	66	0.90	62	39
Ⓐ 11	2230	65	0.90	60	53
Ⓐ 12	2330	48	0.70	59	44
Ⓐ 13	1250	26	0.40	54	—
Ⓐ 14	1390	26	0.40	52	32
Ⓐ 15	1520	24	0.40	51	43
Ⓐ 16	1560	19	0.30	50	32

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **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

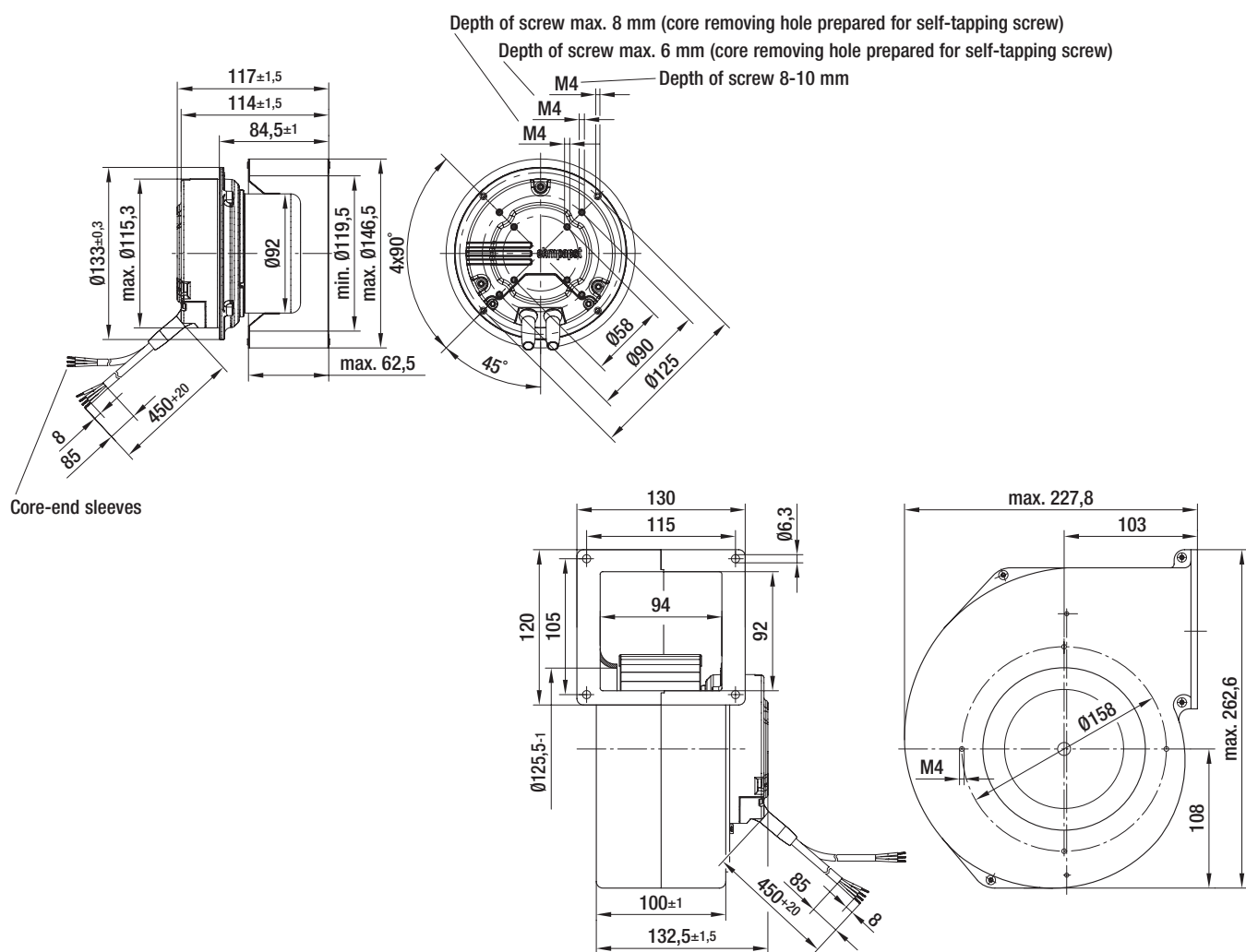


Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange	kg
R3G 146-AB72 -01	2.0	G3G 146-AB72 -01	3.5



EC centrifugal fan and blowers

single inlet, Ø 146

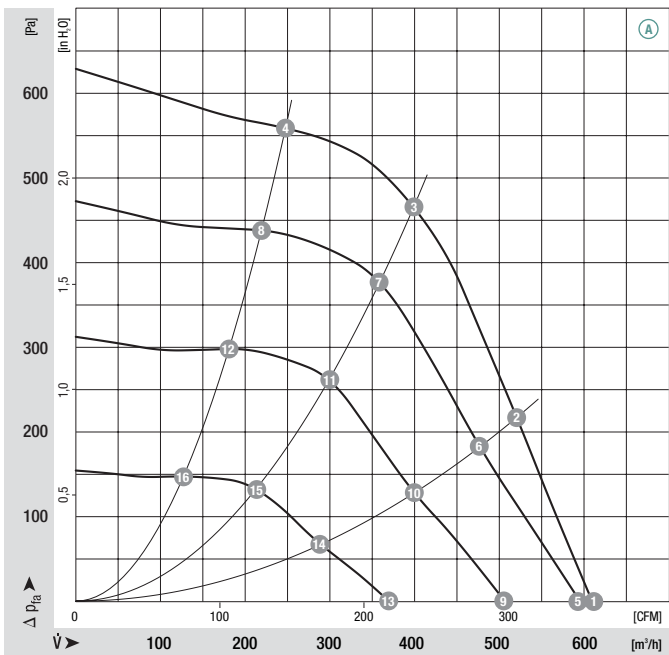


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor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

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 146	M3G 074-CF	Ⓐ	1~ 200-277	50/60	2520	175	1.30	0	-25 to +60	J1)

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

Curves

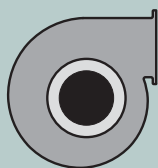


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2520	175	1.30	71	—
Ⓐ 2	2840	172	1.20	70	43
Ⓐ 3	3030	144	1.10	68	60
Ⓐ 4	3210	105	0.80	67	51
Ⓐ 5	2430	172	1.30	71	—
Ⓐ 6	2545	138	1.10	68	42
Ⓐ 7	2655	105	0.80	65	60
Ⓐ 8	2770	78	0.60	63	50
Ⓐ 9	2080	108	0.80	67	—
Ⓐ 10	2160	84	0.70	64	41
Ⓐ 11	2240	70	0.60	66	52
Ⓐ 12	2310	50	0.40	59	51
Ⓐ 13	1540	48	0.40	59	—
Ⓐ 14	1580	39	0.30	56	34
Ⓐ 15	1610	29	0.25	52	41
Ⓐ 16	1640	22	0.20	51	40

- **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



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
with flange

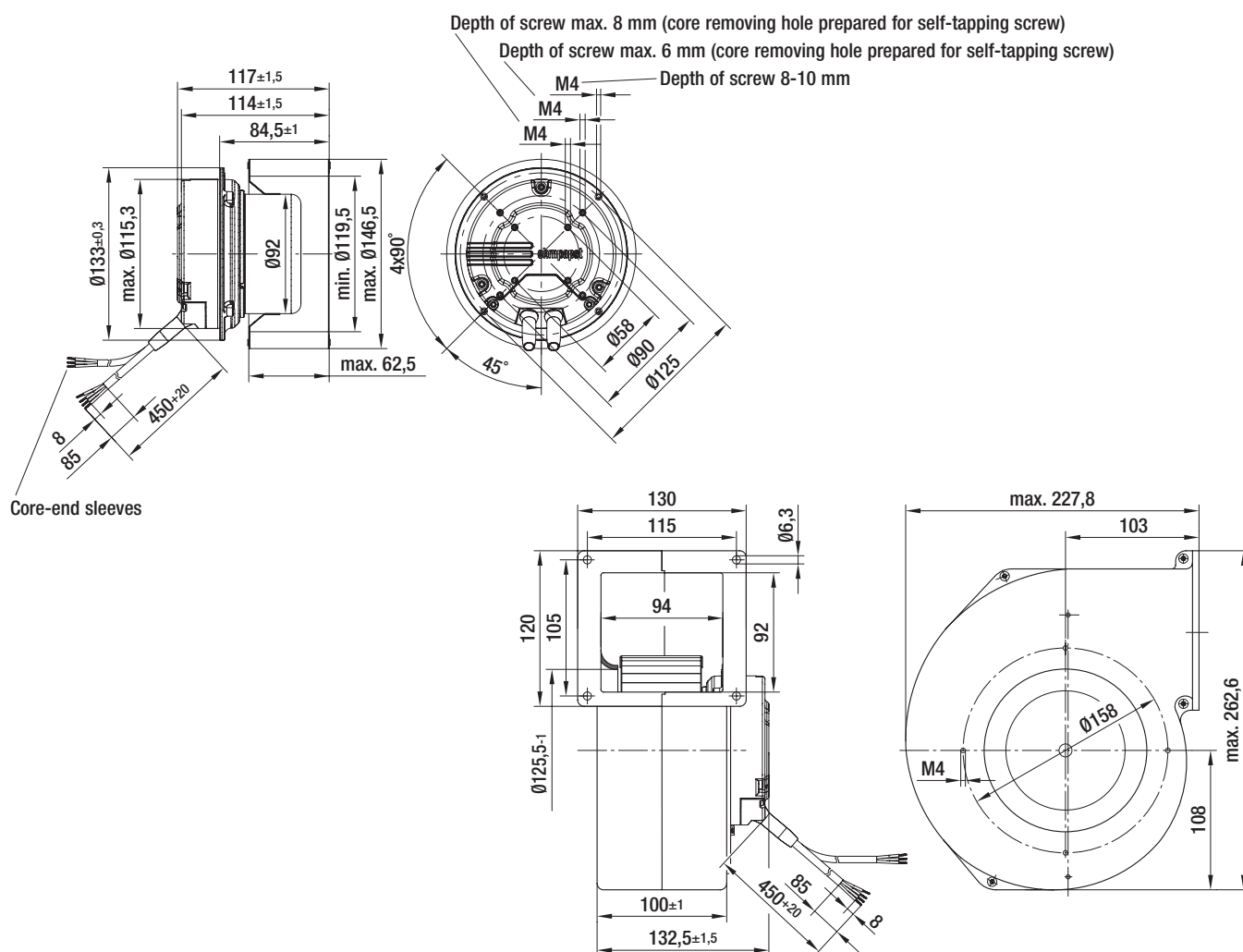
kg

R3G 146-AB54 -01

2.0

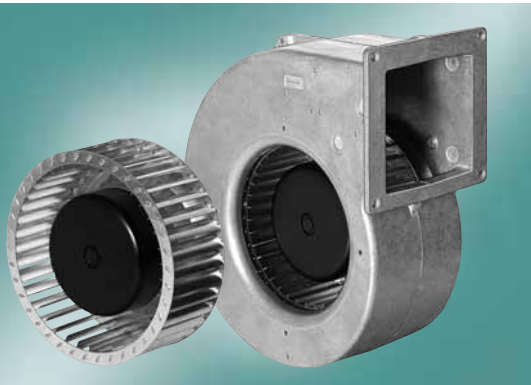
G3G 146-AB54 -01

3.5



EC centrifugal fan and blowers

single inlet, Ø 160



- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

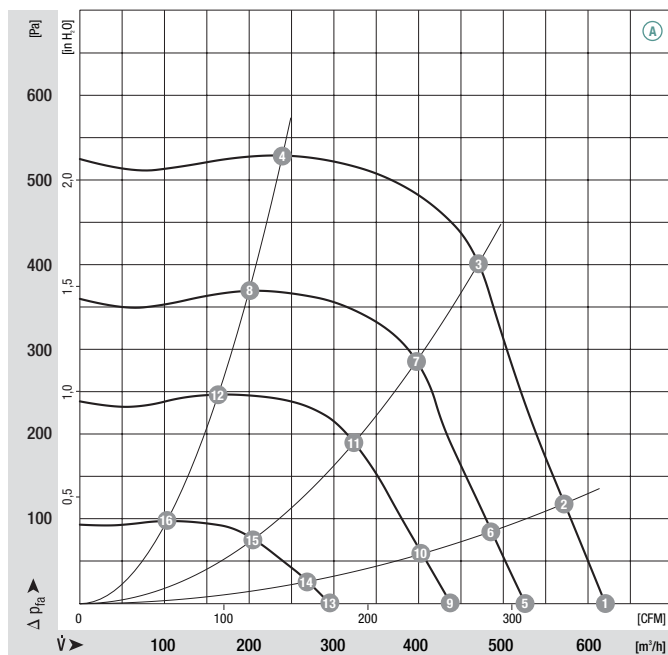
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 160	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2100	170	2.20	0	-25 to +60	J1)

subject to alterations

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

Curves

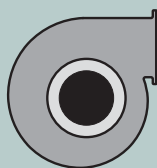


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2100	166	2.10	69	—
Ⓐ 2	2230	167	2.10	68	41
Ⓐ 3	2550	164	2.10	69	58
Ⓐ 4	2640	104	1.40	67	49
Ⓐ 5	1810	106	1.40	64	—
Ⓐ 6	1930	105	1.40	64	38
Ⓐ 7	2160	102	1.30	65	55
Ⓐ 8	2230	62	0.90	62	43
Ⓐ 9	1510	64	0.90	60	—
Ⓐ 10	1600	64	0.90	60	36
Ⓐ 11	1780	61	0.90	60	49
Ⓐ 12	1830	41	0.60	58	39
Ⓐ 13	1020	25	0.40	51	—
Ⓐ 14	1080	24	0.40	50	29
Ⓐ 15	1150	22	0.30	50	37
Ⓐ 16	1170	16	0.30	47	25

- **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



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
with flange

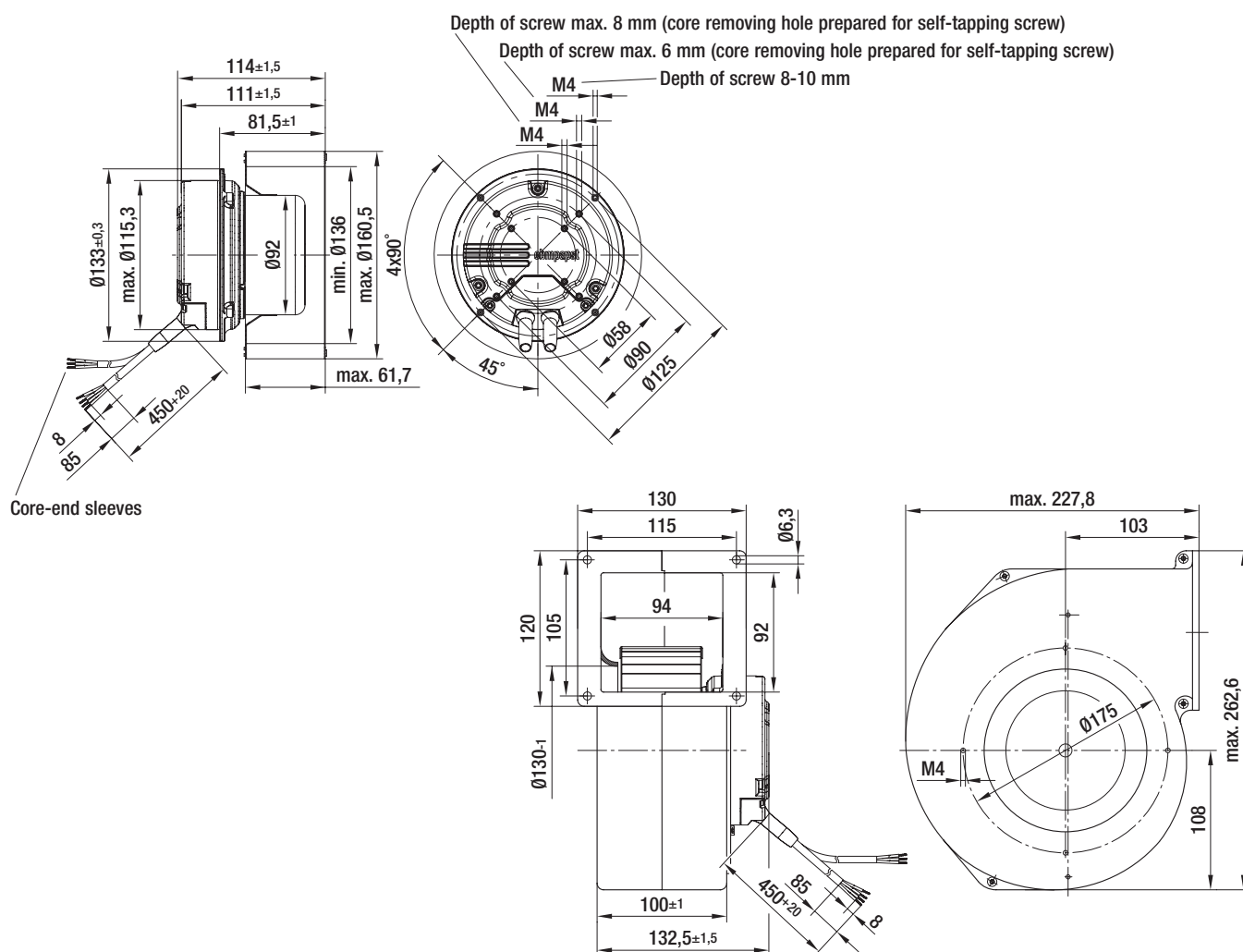
kg

R3G 160-AC70 -01

2.0

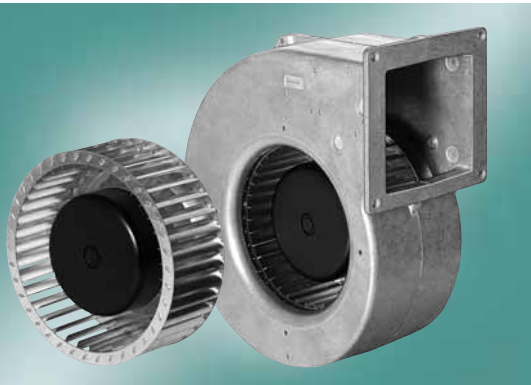
G3G 160-AC70 -01

3.5



EC centrifugal fan and blowers

single inlet, Ø 160



- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **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

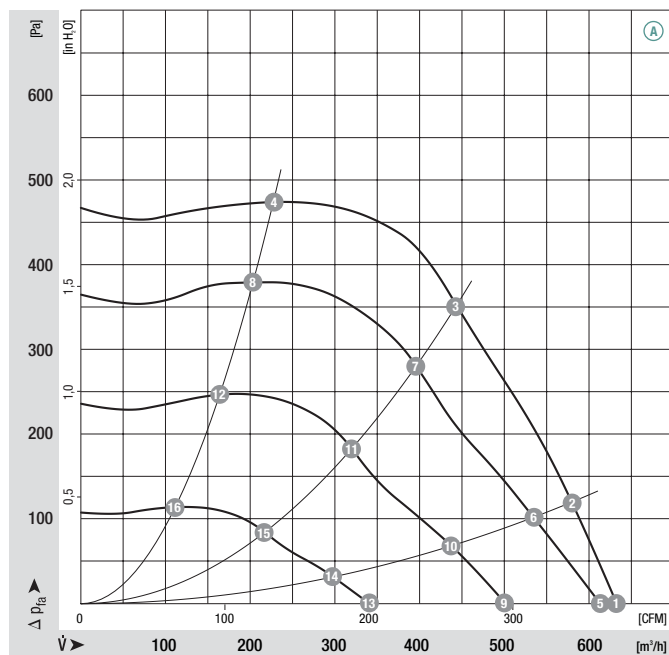
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 160	M3G 074-CF	Ⓐ	1~ 200-277	50/60	2150	175	1.30	0	-25 to +60	J1)

subject to alterations

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

Curves

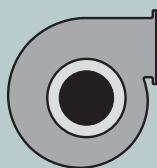


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2150	170	1.25	70	—
Ⓐ 2	2320	172	1.30	70	39
Ⓐ 3	2450	139	1.10	68	41
Ⓐ 4	2540	91	0.70	67	46
Ⓐ 5	2070	153	1.10	69	—
Ⓐ 6	2090	138	1.00	67	40
Ⓐ 7	2150	101	0.80	65	56
Ⓐ 8	2205	68	0.60	63	45
Ⓐ 9	1700	91	0.70	63	—
Ⓐ 10	1730	80	0.60	62	37
Ⓐ 11	1760	60	0.50	59	49
Ⓐ 12	1795	41	0.30	58	37
Ⓐ 13	1190	37	0.30	54	—
Ⓐ 14	1200	33	0.30	53	29
Ⓐ 15	1220	27	0.25	51	35
Ⓐ 16	1240	20	0.20	48	27

- **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



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
with flange

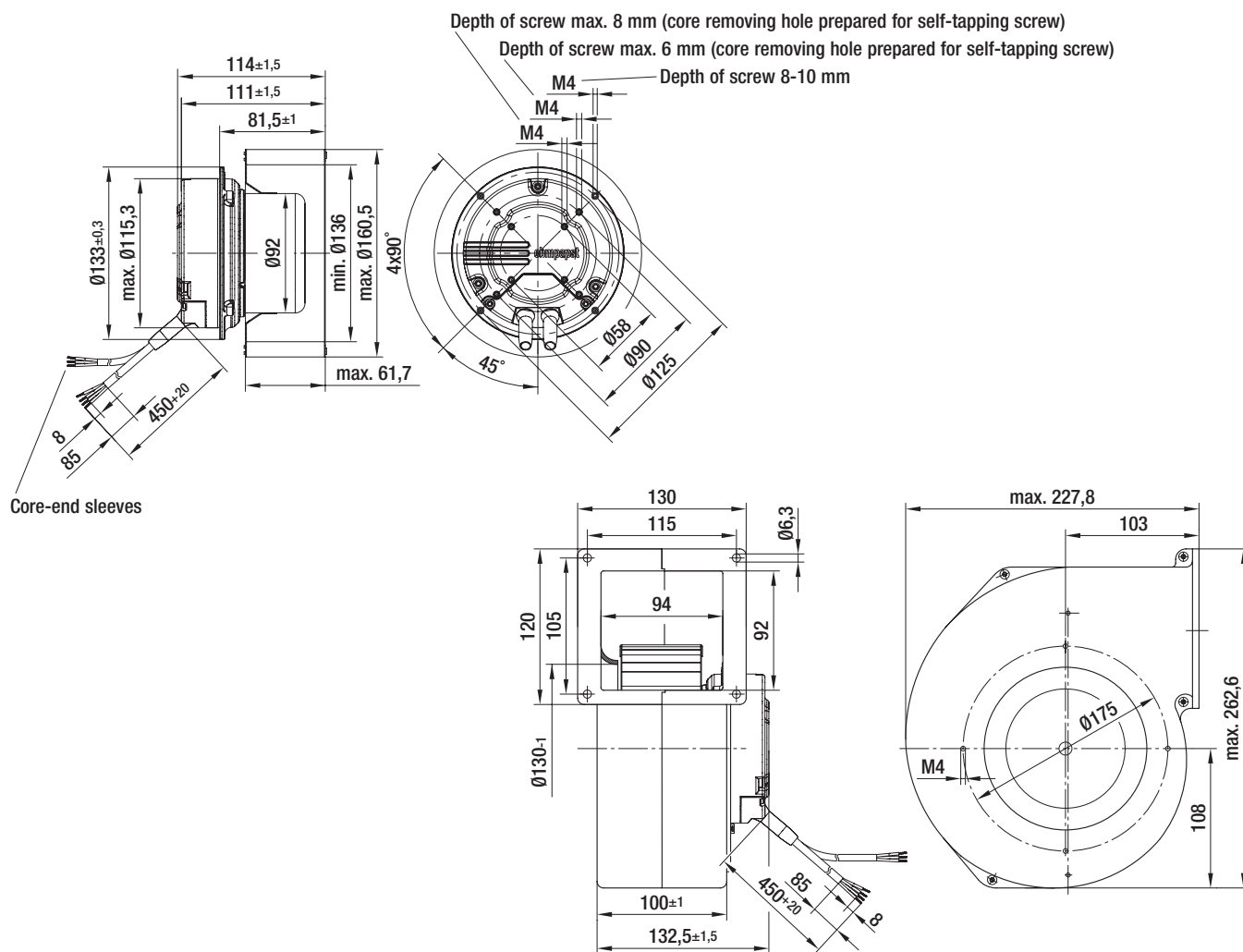
kg

R3G 160-AC50 -01

2.0

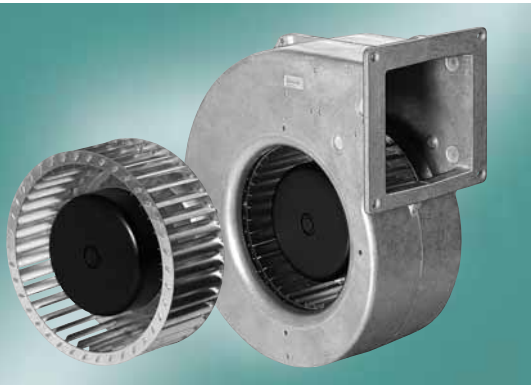
G3G 160-AC50 -01

3.5



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 160



- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

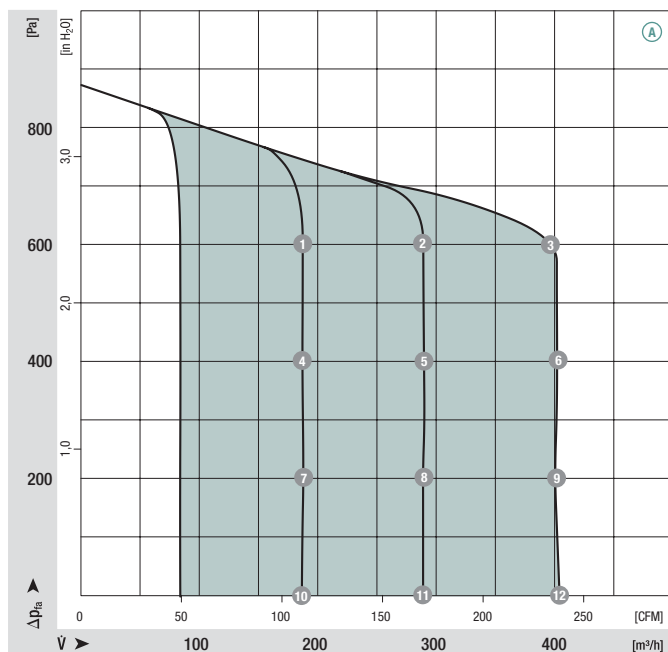
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm rpm	Max. power input ⁽¹⁾ W	Max. current draw ⁽¹⁾ A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection
*3G 160	M3G 074-BF	Ⓐ	1~ 230	50/60	1340	175	1.30	0	-25 to +60	p. 604

subject to alterations

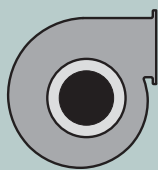
(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2910	110	0.90	68	44
Ⓐ 2	2930	142	1.10	69	52
Ⓐ 3	2780	175	1.30	71	63
Ⓐ 4	2380	68	0.60	63	47
Ⓐ 5	2360	88	0.70	65	58
Ⓐ 6	2450	132	0.95	67	62
Ⓐ 7	1690	35	0.30	57	49
Ⓐ 8	1760	51	0.40	60	56
Ⓐ 9	2020	94	0.70	63	50
Ⓐ 10	610	9	0.10	40	—
Ⓐ 11	950	22	0.25	51	—
Ⓐ 12	1340	51	0.40	58	—

- **Technical features:**
 - Input for set value Lin 0-10 VDC / PWM
(1.7 V Δ 50 m³/h, 10 V Δ 300 m³/h)
- **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
- **Air intake:** Constant air flow curves can only be attained with unobstructed air intake (s. p. 586)
- PFC (passive)
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor

Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
with flange

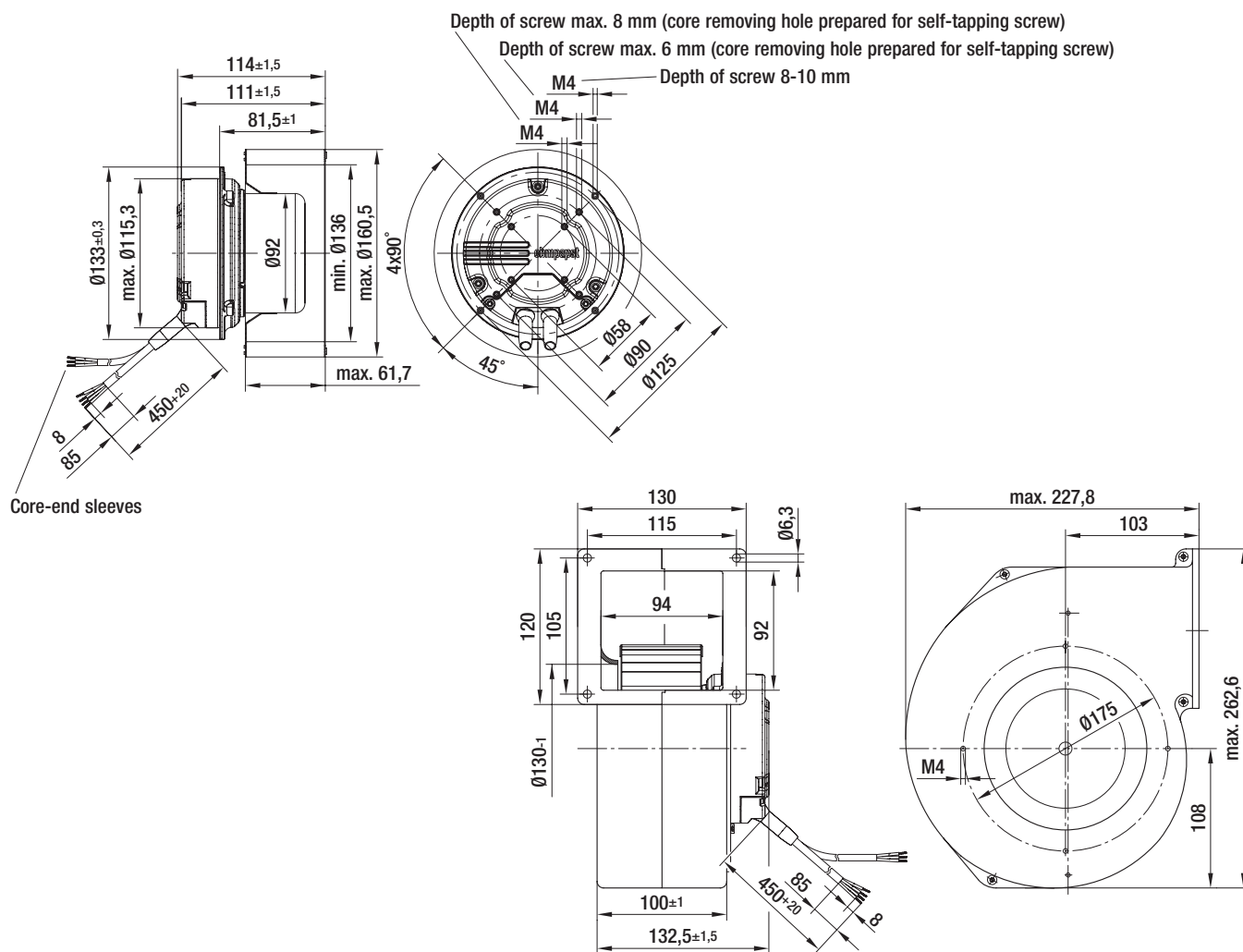
kg

R3G 160-AD52 -01

2.0

G3G 160-AD52 -01

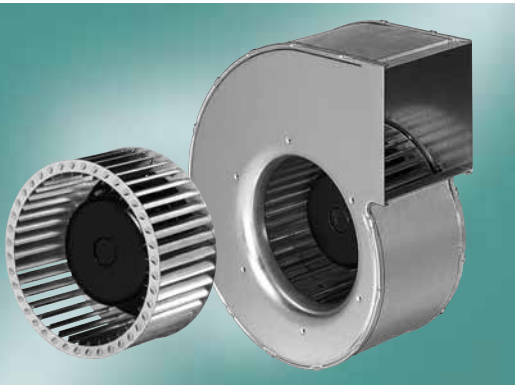
3.5



EC centrifugal fan and blowers

single inlet, Ø 180

- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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



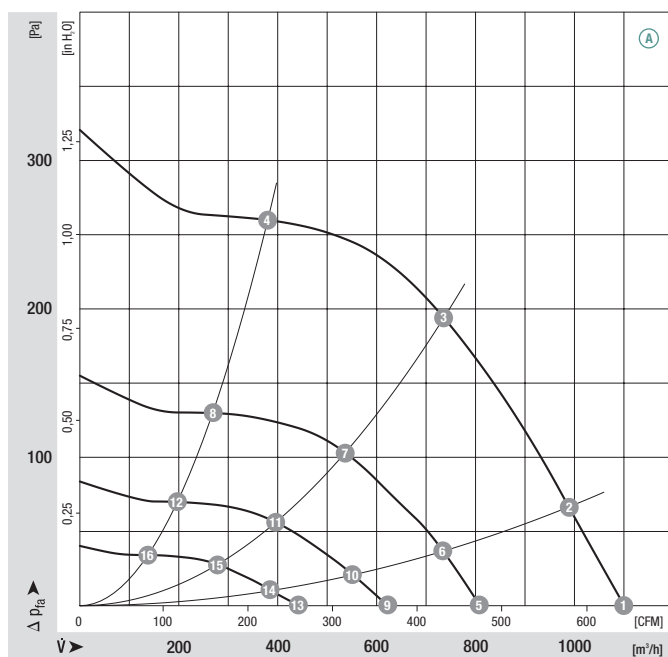
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 180	M3G 074-CF	Ⓐ	1~ 100-130	50/60	1320	175	2.20	0	-25 to +60	J1)

subject to alterations

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

Curves



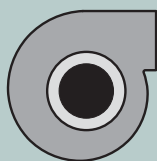
	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1320	171	2.10	67	—
Ⓐ 2	1370	151	1.90	65	57
Ⓐ 3	1460	115	1.50	61	69
Ⓐ 4	1570	69	0.90	59	59
Ⓐ 5	990	69	0.90	59	—
Ⓐ 6	1030	65	0.90	57	54
Ⓐ 7	1080	48	0.70	54	64
Ⓐ 8	1130	29	0.40	51	57
Ⓐ 9	770	35	0.50	52	—
Ⓐ 10	790	30	0.40	50	49
Ⓐ 11	810	23	0.30	46	55
Ⓐ 12	840	15	0.20	42	40
Ⓐ 13	560	16	0.20	44	—
Ⓐ 14	560	13	0.20	40	38
Ⓐ 15	580	11	0.20	36	41
Ⓐ 16	590	8	0.10	33	24

- **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



Centrifugal fan

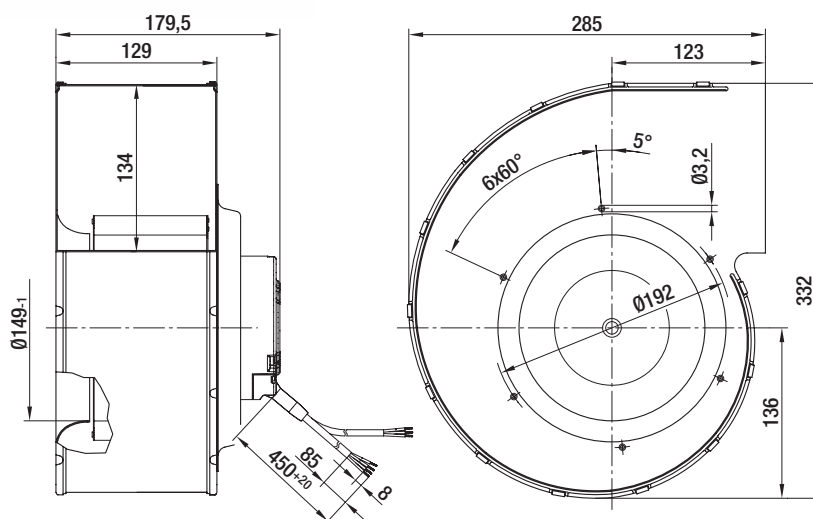
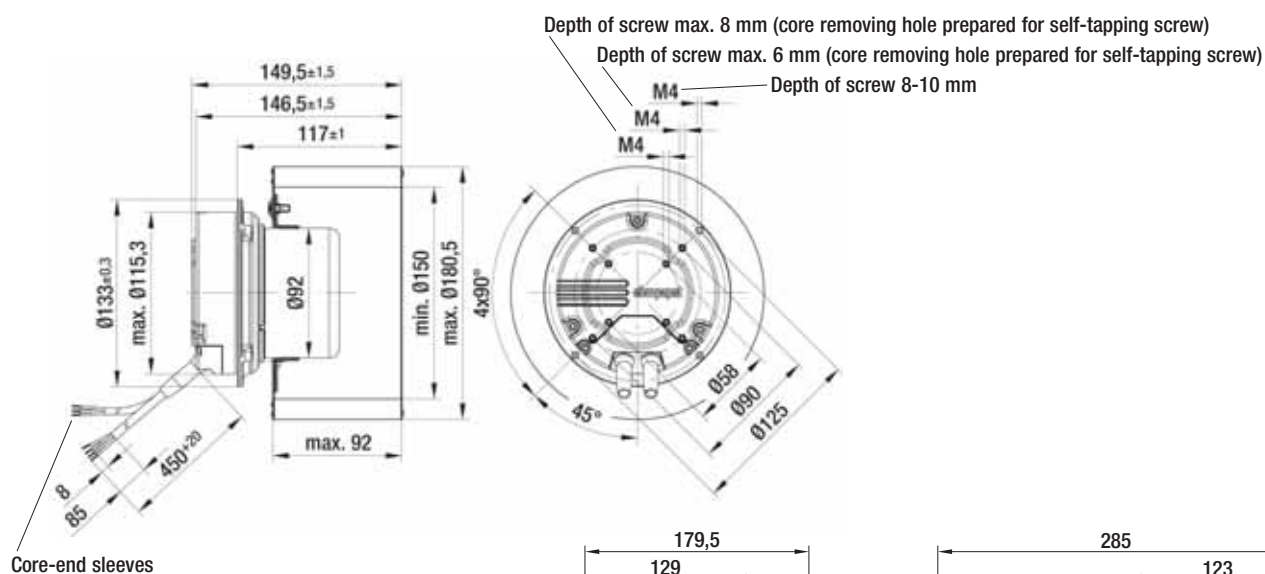
Mass of centrifugal fan



Mass of centrifugal blower

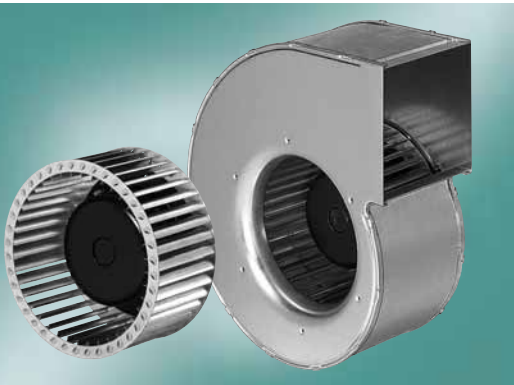
R3G 180-AU73 -01	2.0	G3G 180-EU73 -01	4.0
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R3G 180-AU73 -01	2.0	G3G 180-EU73 -01	4.0
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EC centrifugal fan and blowers

single inlet, Ø 180



- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **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

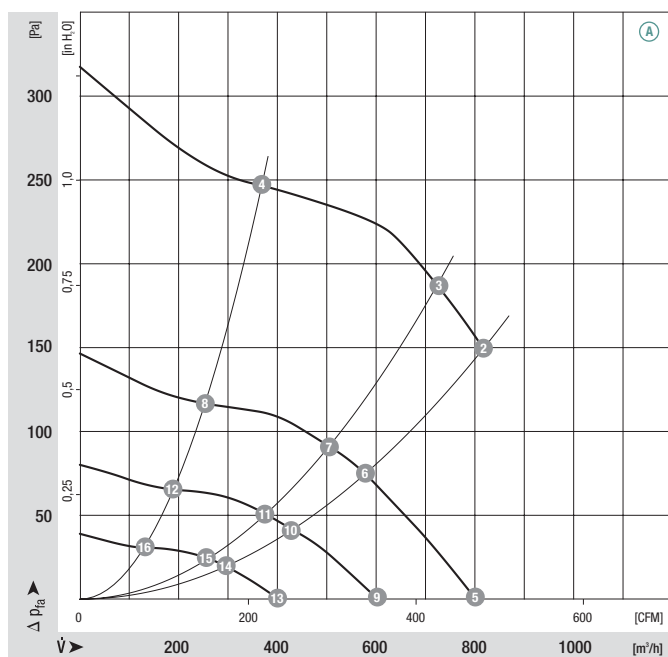
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
*3G 180	M3G 074-CF	Ⓐ	1~ 200-277	50/60	1320	162	1.20	150	-25 to +60	J1)

subject to alterations

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

Curves

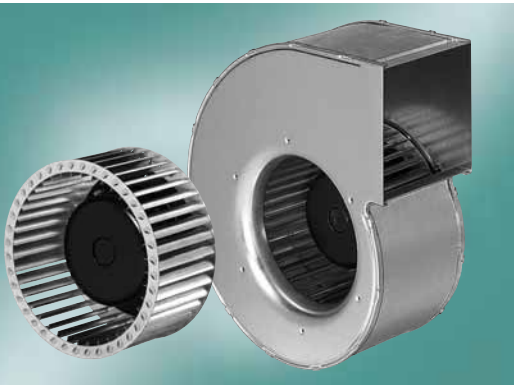


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1420	118	1.90	62	59
Ⓐ 3	1445	106	1.50	61	69
Ⓐ 4	1530	65	1.00	59	56
Ⓐ 5	975	65	1.00	58	—
Ⓐ 6	995	56	0.90	56	54
Ⓐ 7	1025	42	0.70	53	60
Ⓐ 8	1065	26	0.45	49	45
Ⓐ 9	745	31	0.50	52	—
Ⓐ 10	755	28	0.45	49	47
Ⓐ 11	775	21	0.35	45	49
Ⓐ 12	805	15	0.25	42	34
Ⓐ 13	515	33	0.25	41	—
Ⓐ 14	520	12	0.20	39	33
Ⓐ 15	535	10	0.20	35	34
Ⓐ 16	560	8	0.15	32	20

EC centrifugal fan and blowers

single inlet, Ø 180

- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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



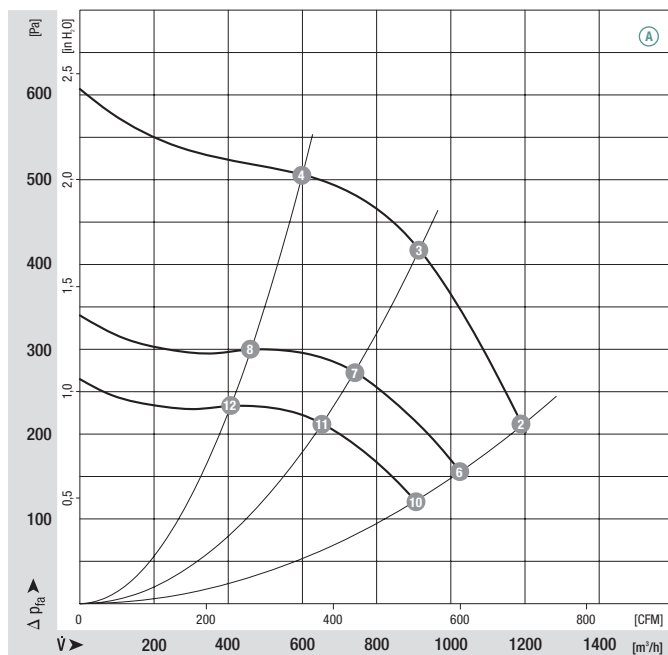
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 180	M3G 084-DF	Ⓐ 1~ 100-130	50/60	1970	335	3.90	200	-25 to +60	K1)

subject to alterations

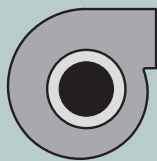
(1) Nominal data in operating point with maximum load and 115 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1970	335	3.90	76	52
Ⓐ 3	2100	265	3.15	72	62
Ⓐ 4	2205	195	2.35	70	56
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1700	213	2.45	71	52
Ⓐ 7	1700	140	1.65	65	62
Ⓐ 8	1700	90	1.10	63	56
Ⓐ 9	—	—	—	—	—
Ⓐ 10	1500	147	1.70	68	52
Ⓐ 11	1500	96	1.15	62	62
Ⓐ 12	1500	61	0.75	59	46

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

Mass of
centrifugal fanMass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
without flange

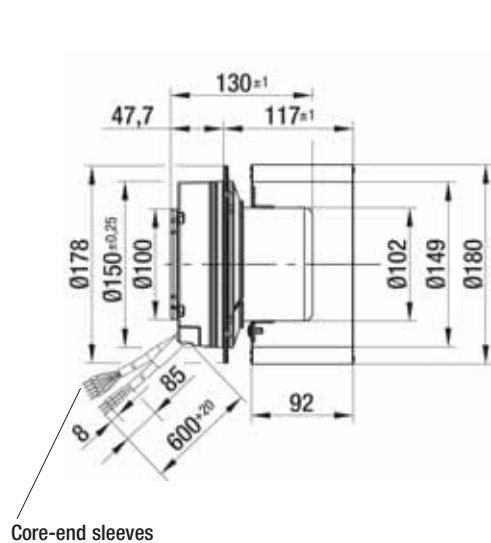
kg

R3G 180-AA01 -81

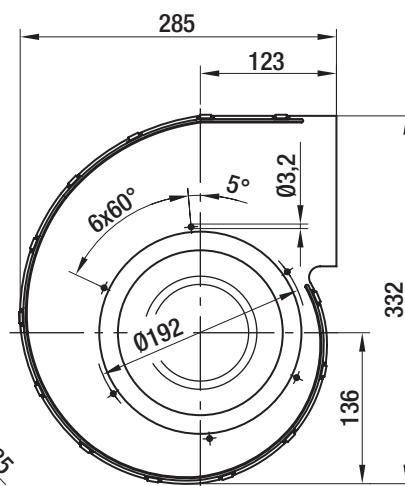
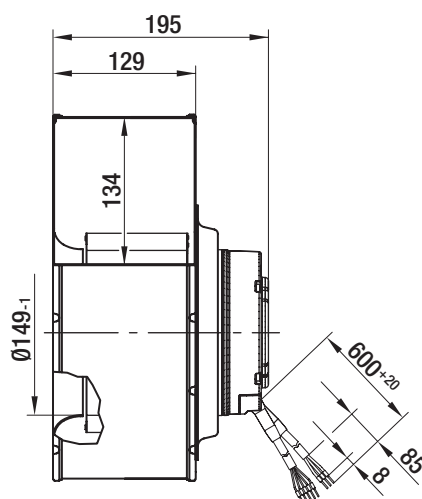
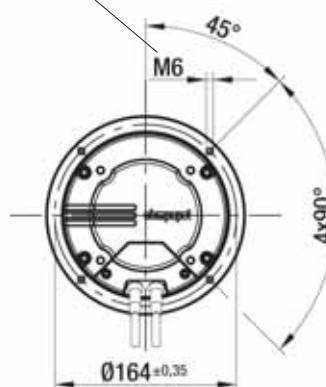
3.9

G3G 180-AA01 -81

6.0



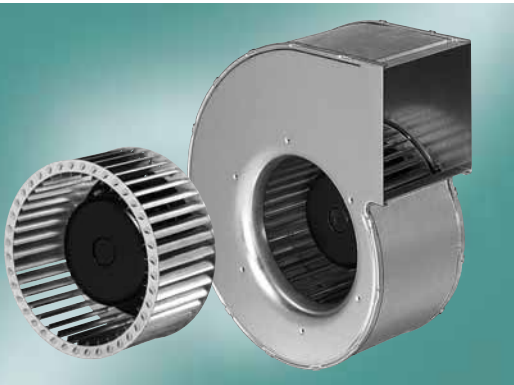
Depth of screw 8-10 mm



EC centrifugal fan and blowers

single inlet, Ø 180

- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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



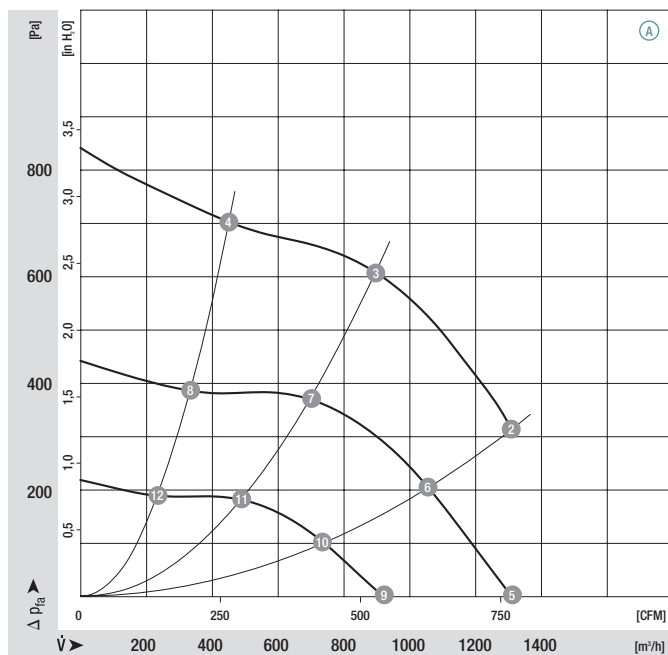
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 180	M3G 084-FA	Ⓐ	1~ 200-277	50/60	2450	510	3.15	300	-25 to +60	K1)

subject to alterations

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

Curves

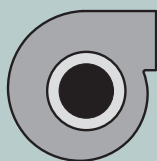


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	2450	510	3.15	79	47
Ⓐ 3	2570	361	2.25	75	58
Ⓐ 4	2690	223	1.45	73	45
Ⓐ 5	2000	395	2.50	77	—
Ⓐ 6	2000	295	1.90	73	47
Ⓐ 7	2000	185	1.20	68	58
Ⓐ 8	2000	100	0.60	64	45
Ⓐ 9	1400	135	0.90	67	—
Ⓐ 10	1400	100	0.60	64	47
Ⓐ 11	1400	65	0.40	59	58
Ⓐ 12	1400	35	0.20	55	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 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for
 - Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor



Mass of
centrifugal fan



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
without flange

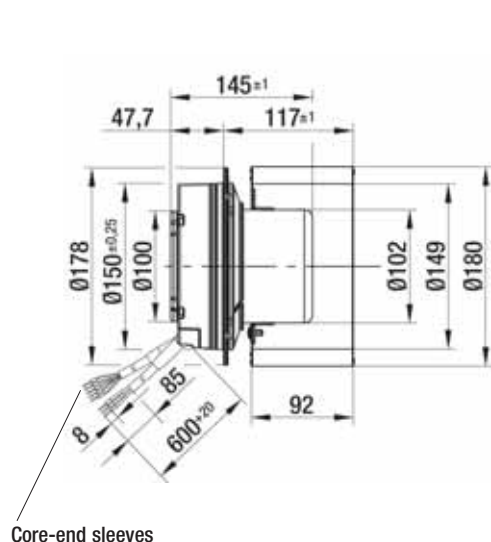
kg

R3G 180-AD43 -71

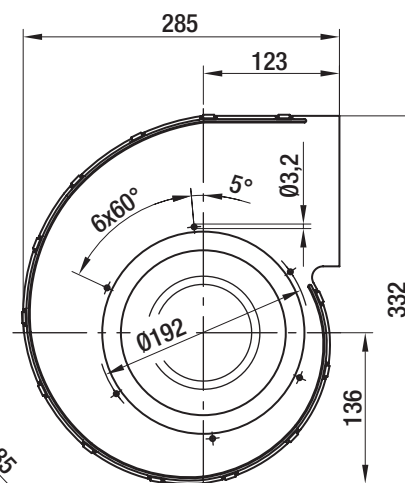
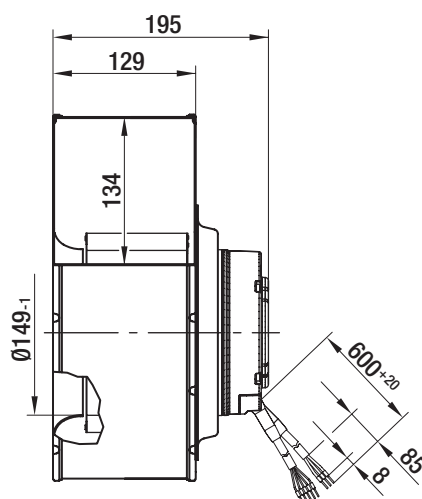
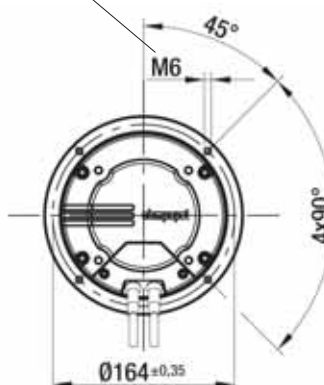
4.7

G3G 180-AD43 -71

6.8

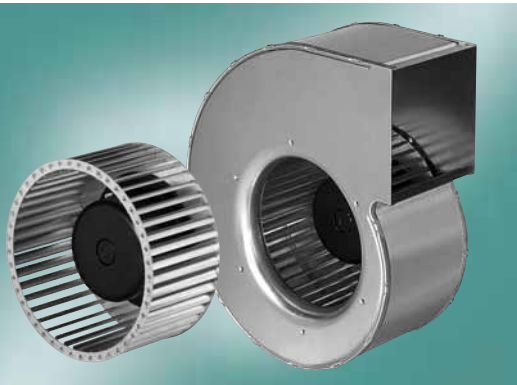


Depth of screw 8-10 mm



EC centrifugal fan and blowers

single inlet, Ø 200



- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

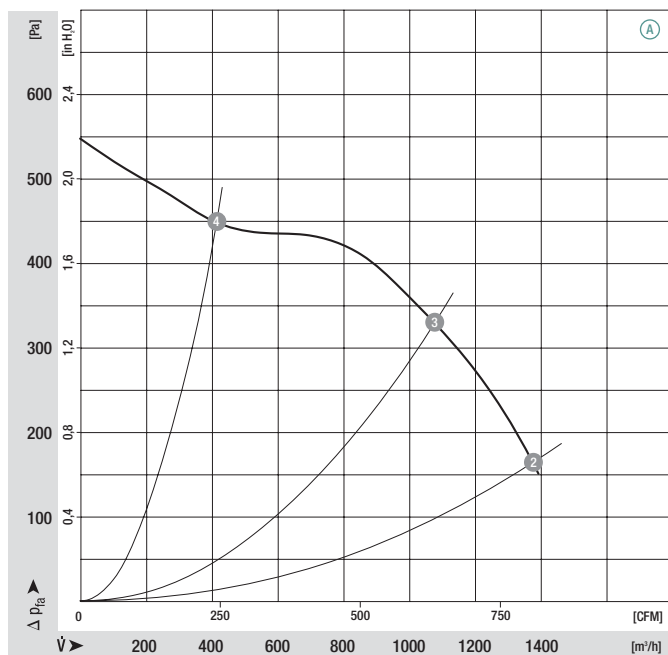
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 200	M3G 084-FA	Ⓐ	1~ 100-130	50/60	1720	350	4.20	150	-25 to +60	K1)

subject to alterations

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

Curves

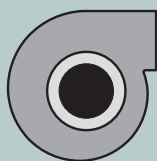


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1720	350	4.10	73	49
Ⓐ 3	1780	277	3.40	71	58
Ⓐ 4	1945	152	2.10	69	50

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



Mass of centrifugal fan



Mass of centrifugal blower without flange

Centrifugal fan

kg

Centrifugal blower without flange

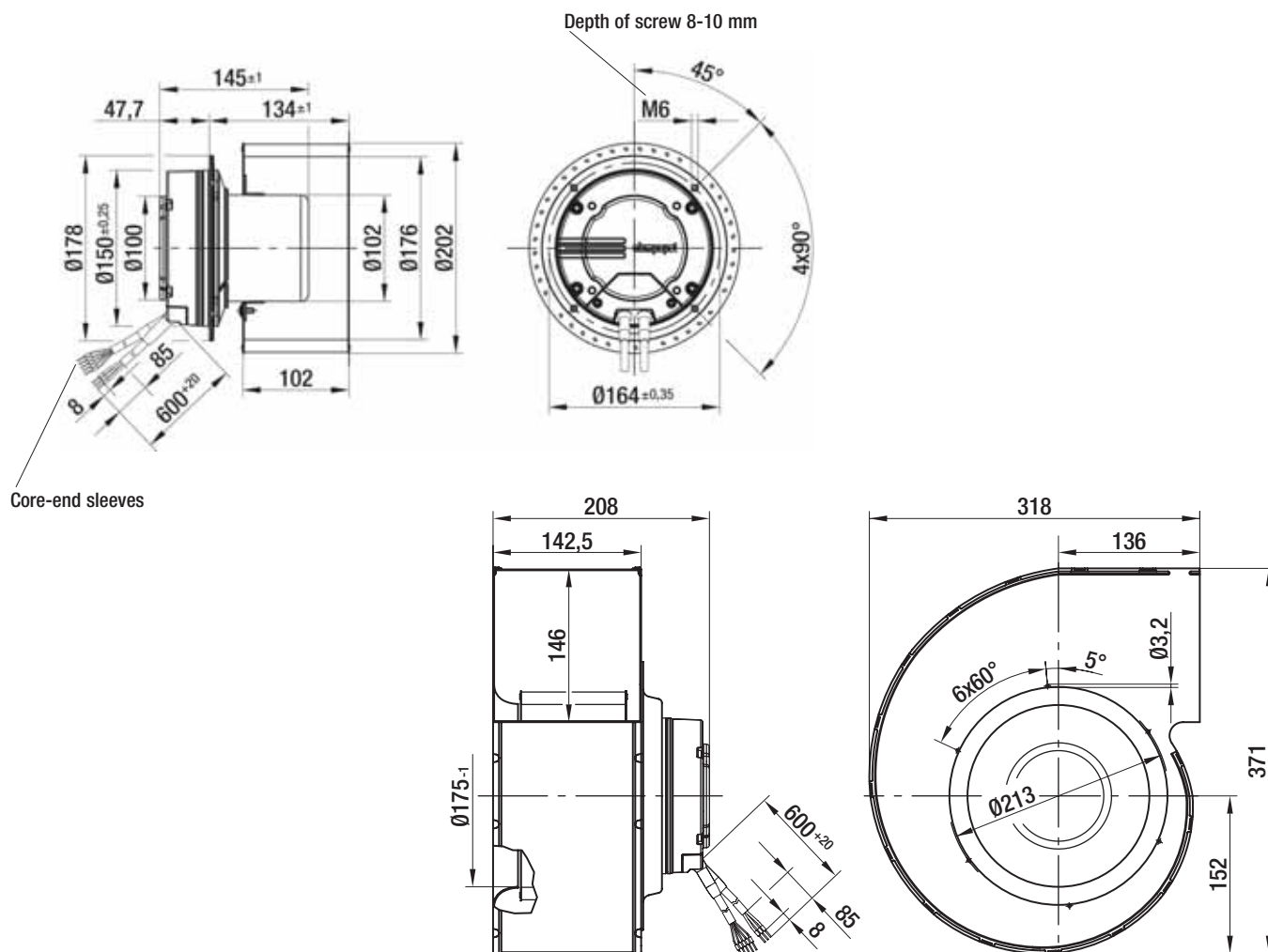
kg

R3G 200-AL36 -81

5.2

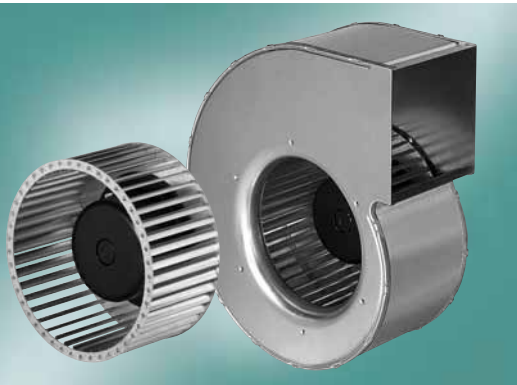
G3G 200-AL36 -81

7.4



EC centrifugal fan and blowers

single inlet, Ø 200



- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

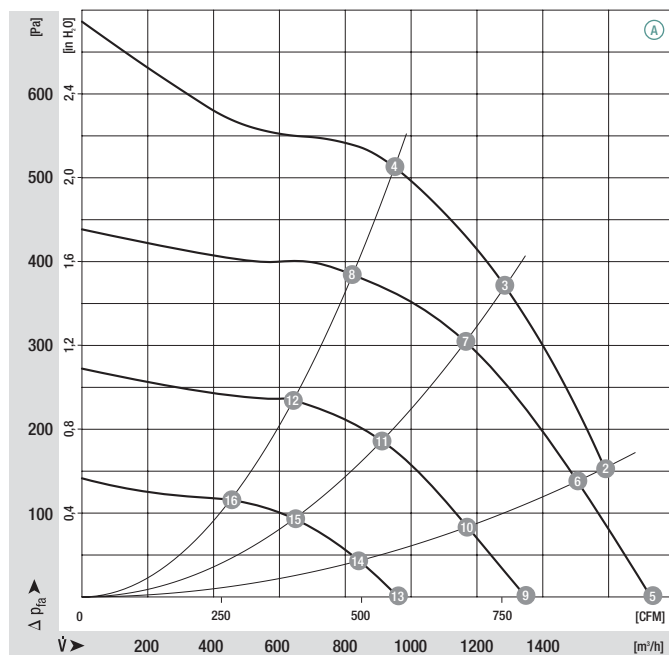
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 200	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1890	510	3.10	150	-25 to +60	K1)

subject to alterations

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

Curves

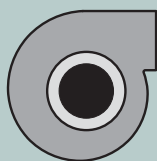


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1890	490	3.00	76	46
Ⓐ 3	1960	403	2.40	74	57
Ⓐ 4	2050	322	2.00	73	58
Ⓐ 5	1800	510	3.10	77	—
Ⓐ 6	1800	420	2.50	75	46
Ⓐ 7	1800	320	1.90	71	57
Ⓐ 8	1800	220	1.30	69	58
Ⓐ 9	1400	240	1.50	71	—
Ⓐ 10	1400	200	1.20	68	46
Ⓐ 11	1400	145	0.90	65	57
Ⓐ 12	1400	103	0.70	63	58
Ⓐ 13	1000	87	0.60	63	—
Ⓐ 14	1000	72	0.50	60	46
Ⓐ 15	1000	55	0.40	57	57
Ⓐ 16	1000	38	0.30	53	58

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



Mass of
centrifugal fan



Mass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
without flange

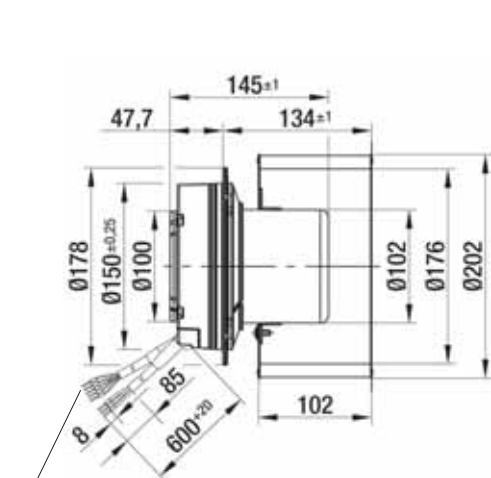
kg

R3G 200-AL29 -71

5.2

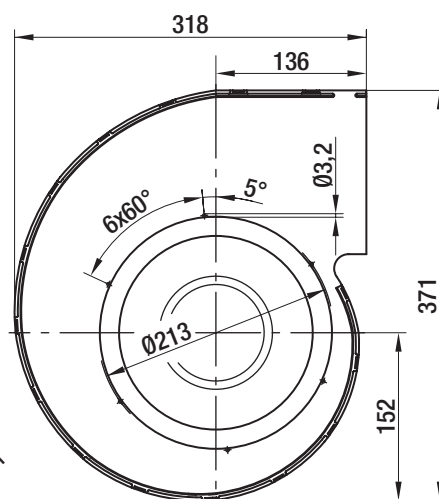
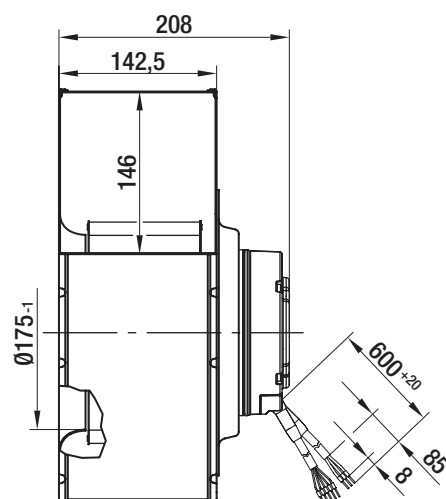
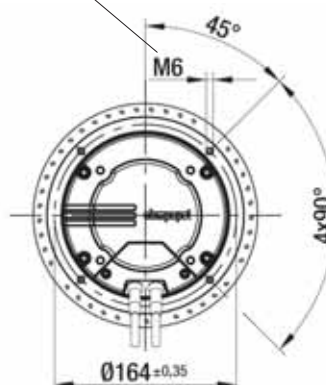
G3G 200-AL29 -71

7.4



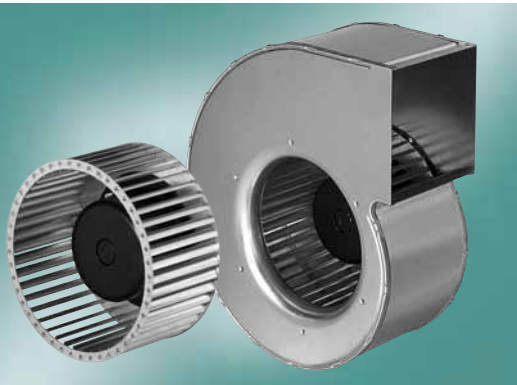
Core-end sleeves

Depth of screw 8-10 mm



EC centrifugal fan and blowers

single inlet, Ø 225



- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

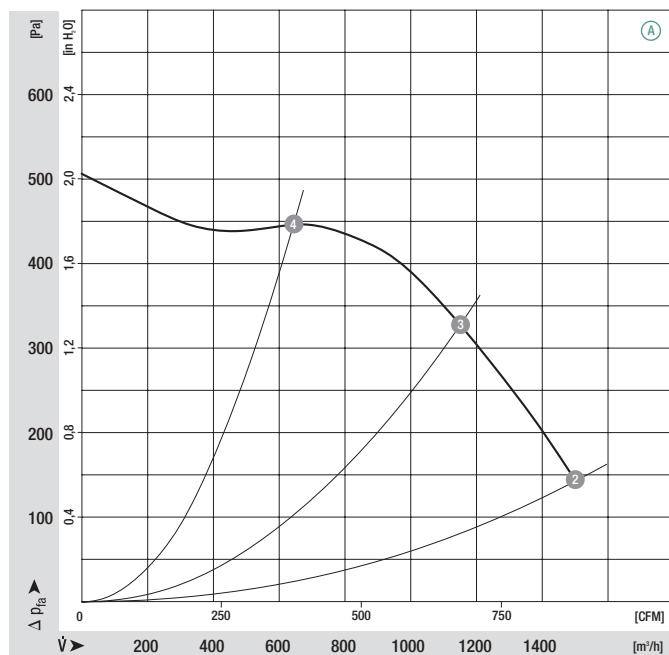
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 225	M3G 084-FA	Ⓐ	1~ 100-130	50/60	1500	350	4.30	150	-25 to +60	K1)

subject to alterations

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

Curves

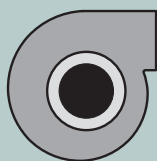


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1500	350	4.30	72	48
Ⓐ 3	1620	300	3.60	69	60
Ⓐ 4	1775	205	2.70	68	56

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

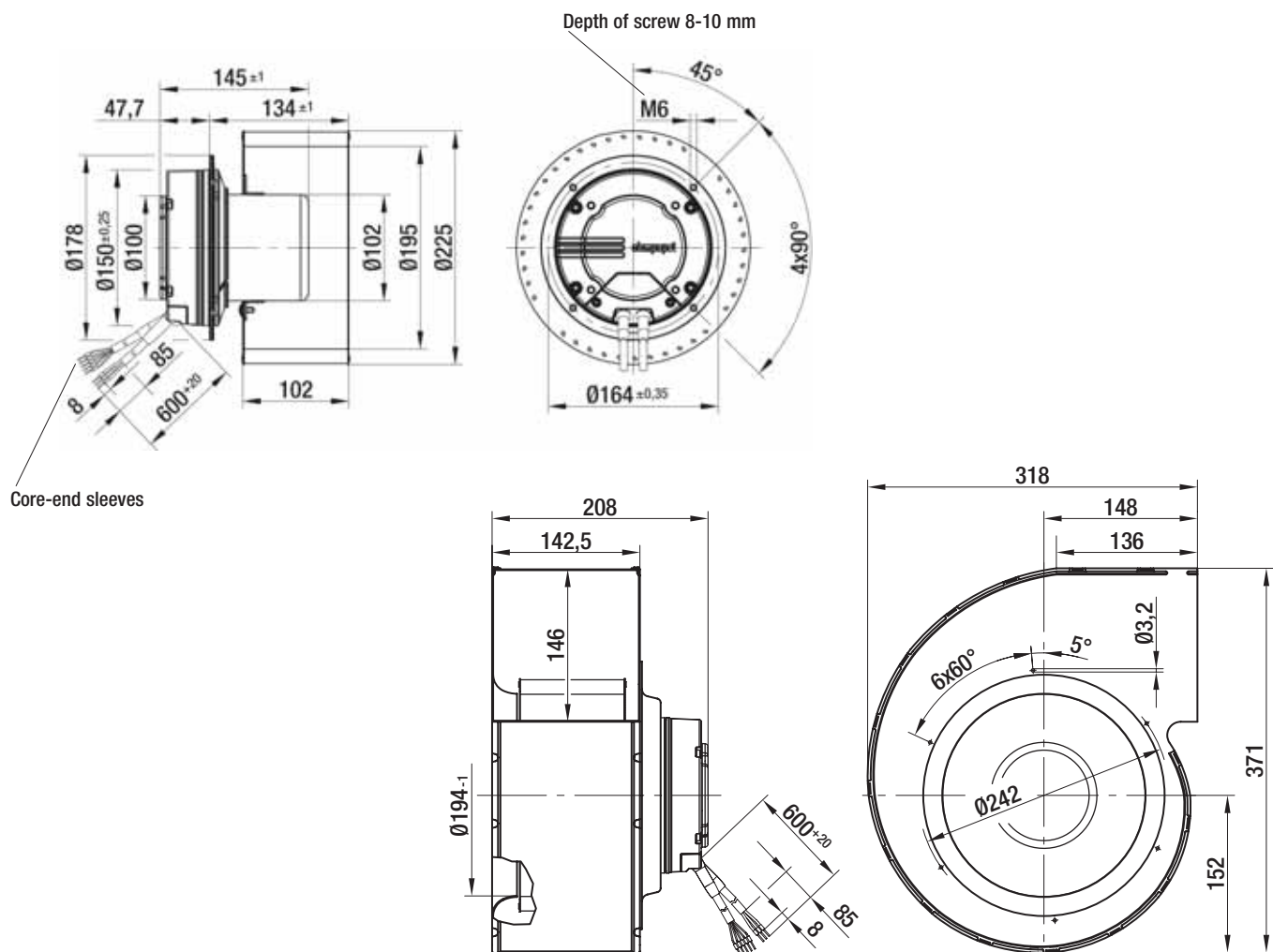


Mass of centrifugal fan



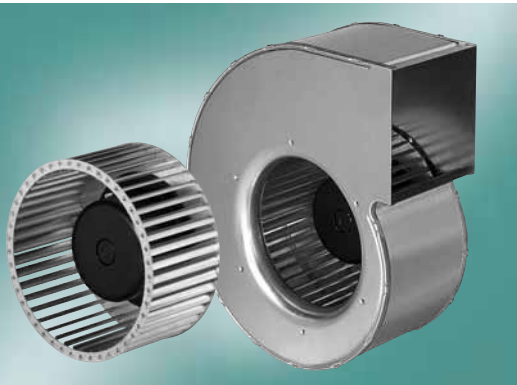
Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower without flange	kg
R3G 225-AL36 -81	5.3	G3G 225-AL36 -81	7.5



EC centrifugal fan and blowers

single inlet, Ø 225



- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

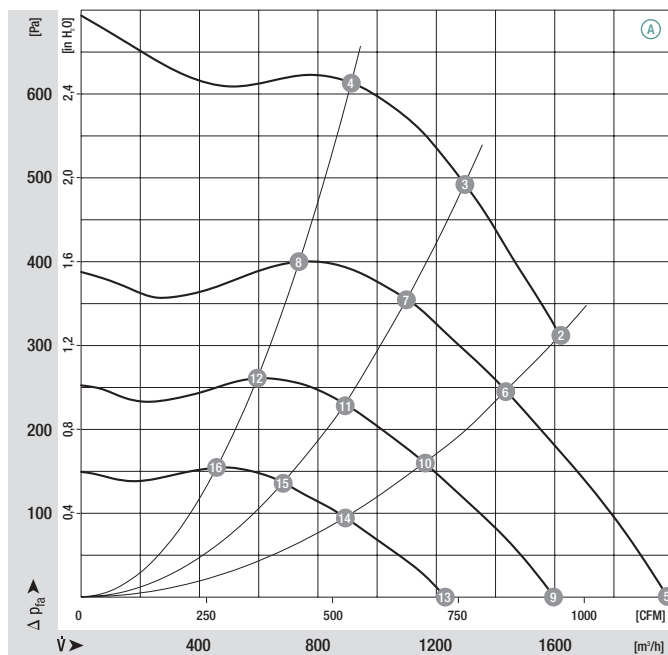
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
*3G 225	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1815	545	3.50	300	-25 to +60	K1)

subject to alterations

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

Curves

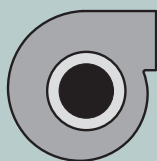


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1815	545	3.50	75	53
Ⓐ 3	1900	456	2.90	74	60
Ⓐ 4	1995	363	2.35	73	59
Ⓐ 5	1610	592	3.85	76	—
Ⓐ 6	1610	381	2.45	71	53
Ⓐ 7	1610	278	1.80	69	60
Ⓐ 8	1610	191	1.25	66	59
Ⓐ 9	1300	312	2.05	72	—
Ⓐ 10	1300	200	1.30	66	53
Ⓐ 11	1300	146	0.95	63	60
Ⓐ 12	1300	101	0.65	61	59
Ⓐ 13	1000	142	0.95	65	—
Ⓐ 14	1000	91	0.60	59	53
Ⓐ 15	1000	67	0.45	56	60
Ⓐ 16	1000	46	0.30	54	59

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

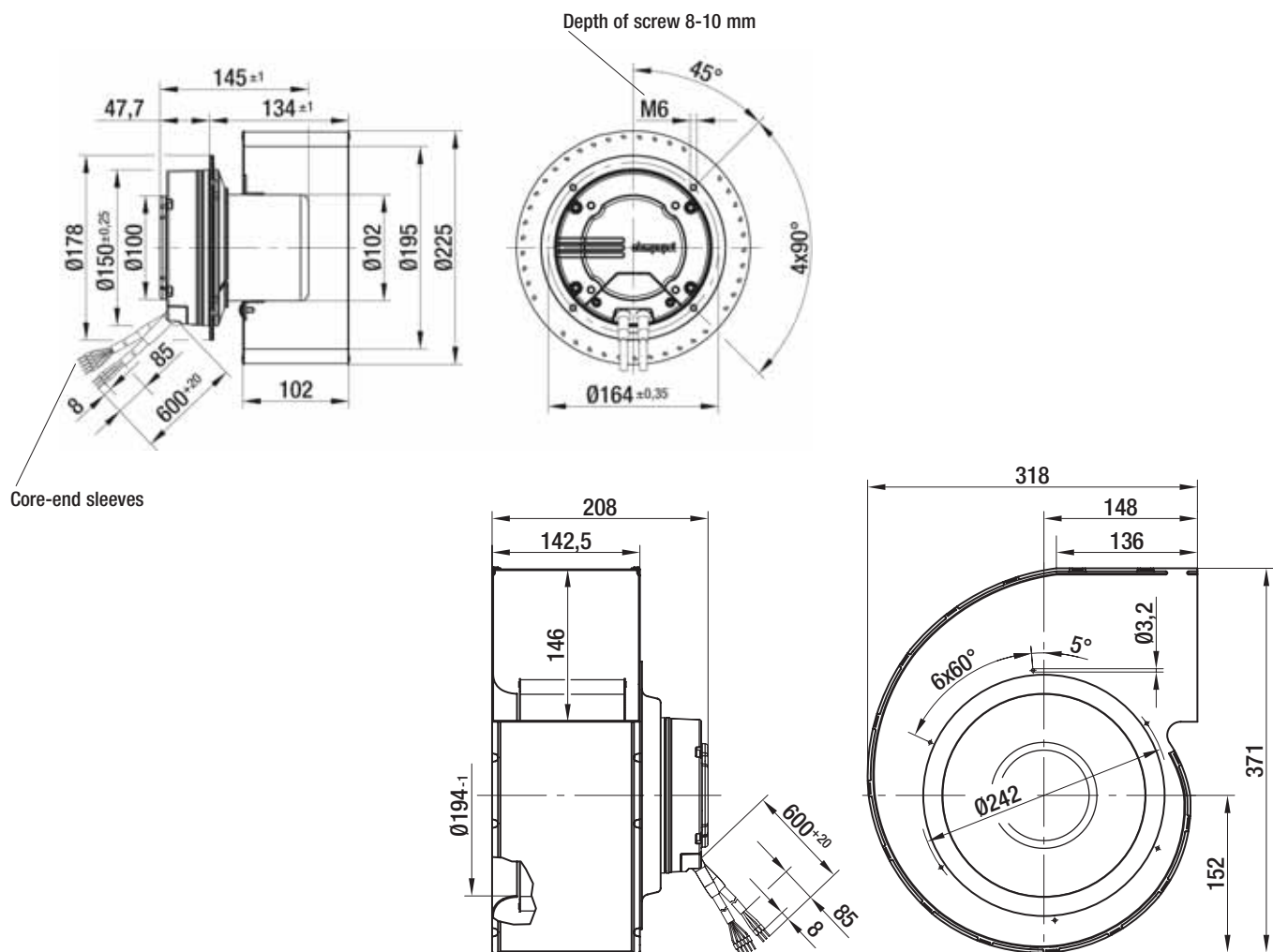


Mass of centrifugal fan



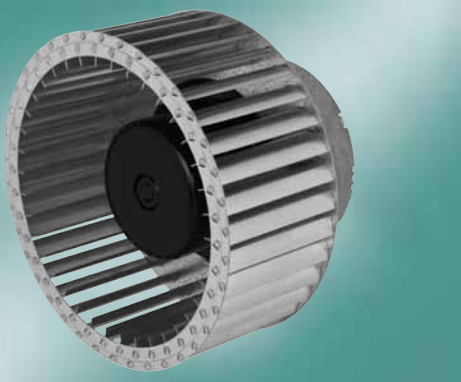
Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower without flange	kg
R3G 225-AD29 -71	5.3	G3G 225-AD29 -71	7.5



EC centrifugal fan

single inlet, Ø 250



- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

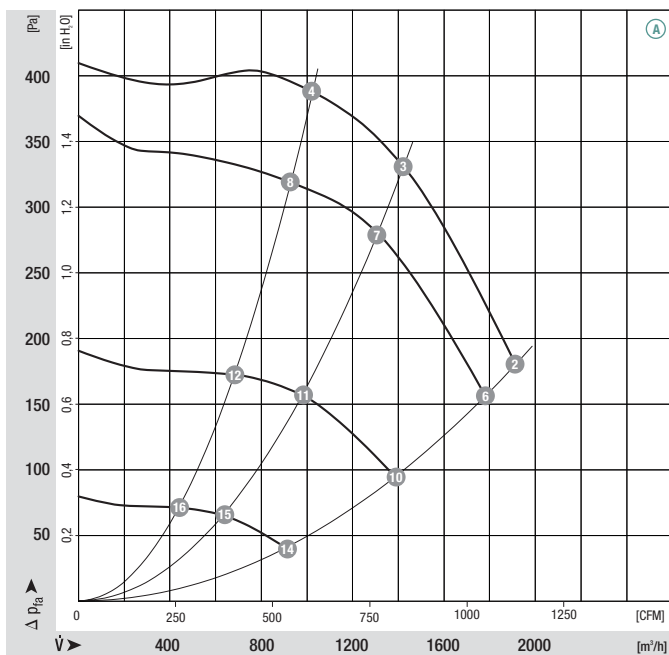
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 605
R3G 250	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1230	450	2.90	180	-25 to +45	K1)

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 _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1230	450	2.90	72	50
Ⓐ 3	1370	338	2.20	70	60
Ⓐ 4	1460	266	1.70	68	56
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1160	357	2.30	71	50
Ⓐ 7	1270	269	1.70	67	60
Ⓐ 8	1320	195	1.30	66	56
Ⓐ 9	—	—	—	—	—
Ⓐ 10	900	166	1.10	64	50
Ⓐ 11	960	118	0.80	60	60
Ⓐ 12	990	87	0.60	58	56
Ⓐ 13	—	—	—	—	—
Ⓐ 14	600	54	0.40	53	50
Ⓐ 15	630	37	0.30	48	60
Ⓐ 16	640	31	0.20	46	56

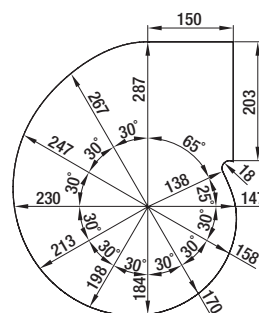
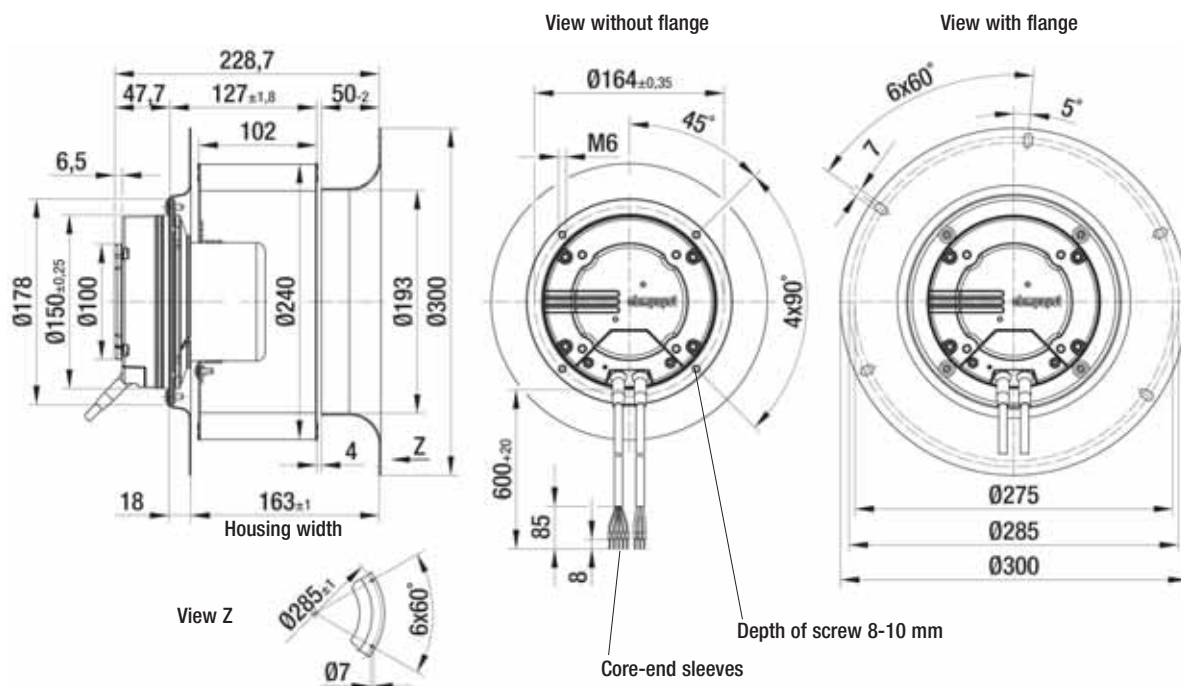
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3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



Mass of centrifugal fan

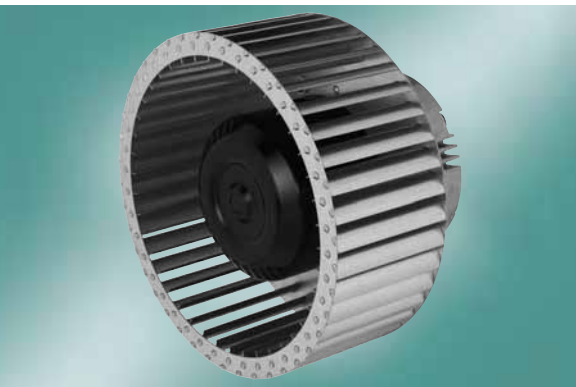


Centrifugal fan	kg	Inlet nozzle	Flange
R3G 250-AQ28 -71	5.6	25010-2-4013	10011-2-4017



EC centrifugal fan

single inlet, Ø 250



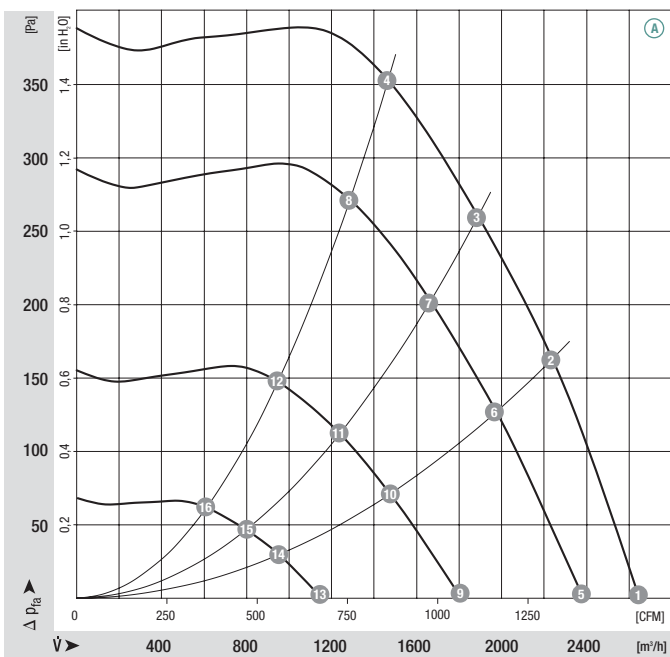
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 607
R3G 250	M3G 112-EA	Ⓐ	1~ 200-277	50/60	1320	0.76	3.30	0	-25 to +60	L1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	1320	0.76	3.30	81	—
Ⓐ 2	1380	0.61	2.70	78	46
Ⓐ 3	1410	0.51	2.30	76	50
Ⓐ 4	1450	0.39	1.70	73	53
Ⓐ 5	1190	0.55	2.40	78	—
Ⓐ 6	1220	0.43	1.90	75	46
Ⓐ 7	1250	0.36	1.60	73	50
Ⓐ 8	1280	0.28	1.20	69	53
Ⓐ 9	910	0.25	1.10	71	—
Ⓐ 10	930	0.20	0.90	67	46
Ⓐ 11	940	0.16	0.70	65	50
Ⓐ 12	950	0.13	0.60	61	53
Ⓐ 13	610	0.09	0.40	59	—
Ⓐ 14	610	0.07	0.40	55	46
Ⓐ 15	620	0.06	0.30	53	50
Ⓐ 16	630	0.05	0.30	49	53

- **Technical features:**
 - PFC (active)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 610800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST, CCC are applied for
- Line undervoltage detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

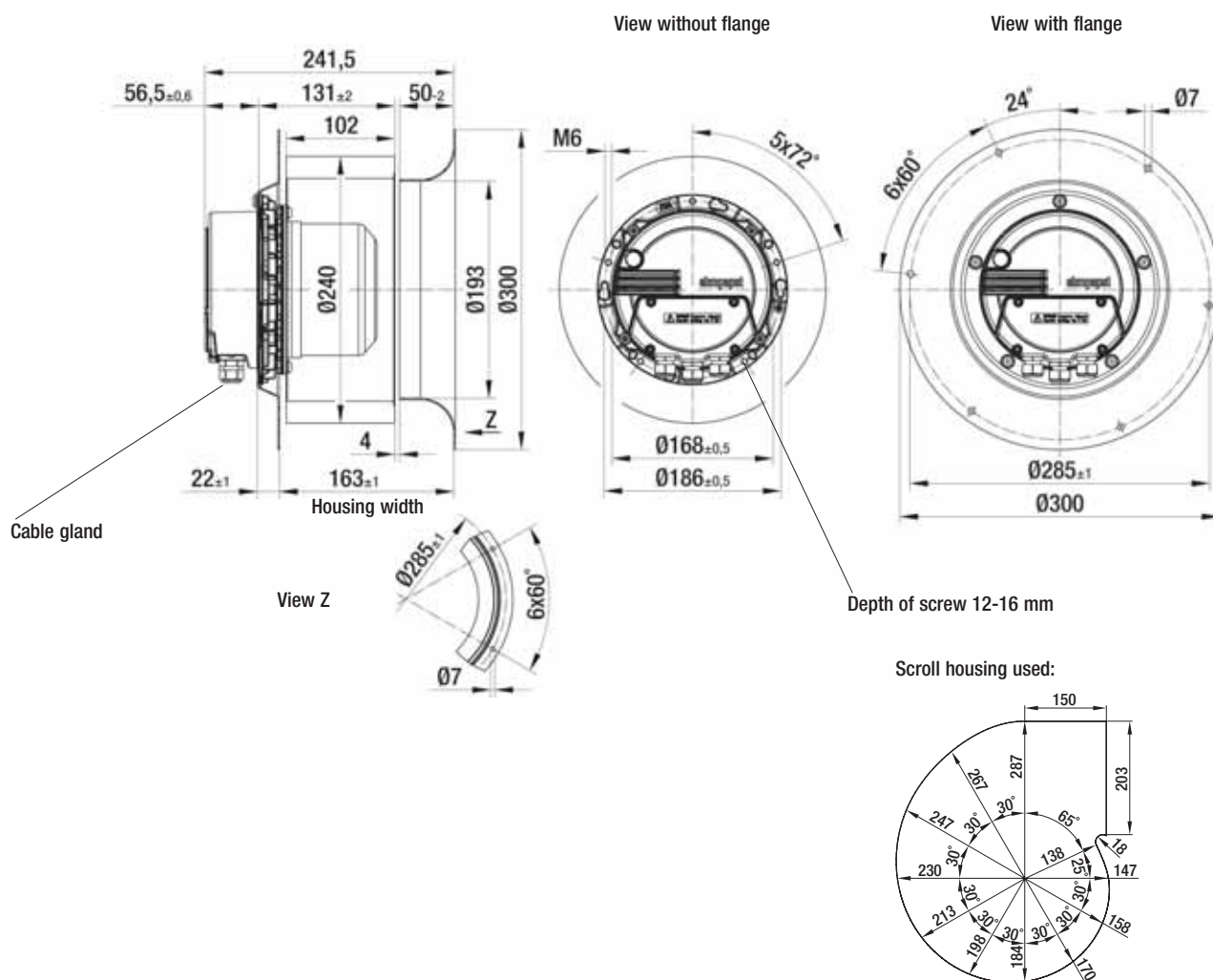
Flange

R3G 250-AS51 -11

7.6

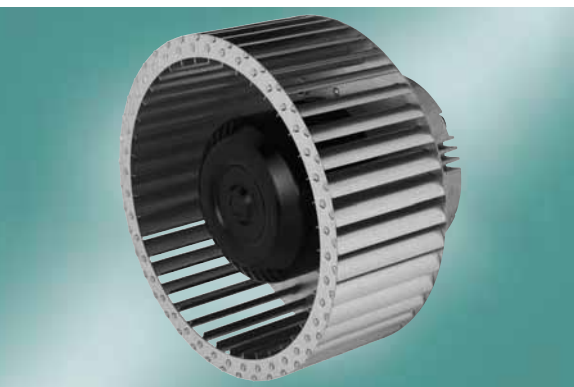
25010-2-4013

10025-2-4017



EC centrifugal fan

single inlet, Ø 280



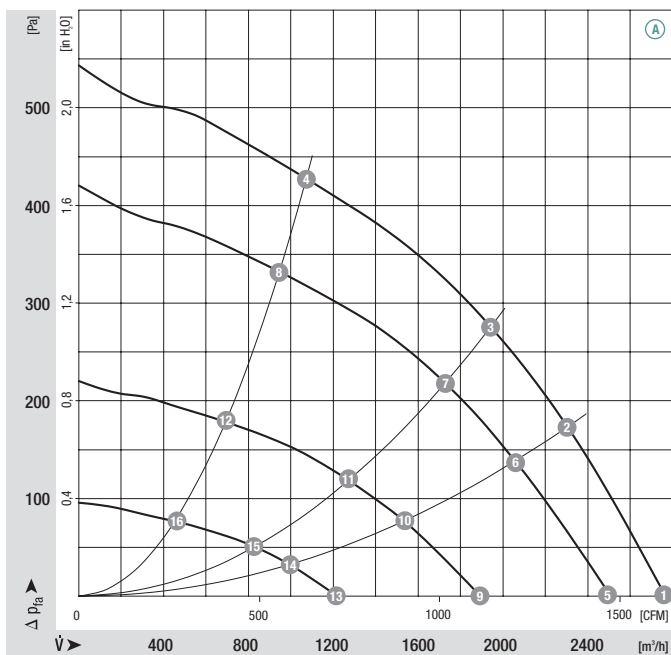
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 607
R3G 280	M3G 112-GA	Ⓐ	1~ 200-277	50/60	1130	0.75	3.30	0	-25 to +50	L1)

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	1130	0.75	3.30	78	—
Ⓐ 2	1170	0.60	2.70	75	53
Ⓐ 3	1210	0.53	2.30	73	54
Ⓐ 4	1250	0.32	1.40	69	51
Ⓐ 5	1020	0.56	2.50	76	—
Ⓐ 6	1050	0.44	2.00	72	53
Ⓐ 7	1070	0.37	1.60	70	54
Ⓐ 8	1110	0.23	1.00	65	51
Ⓐ 9	780	0.25	1.10	69	—
Ⓐ 10	790	0.20	0.90	65	53
Ⓐ 11	800	0.17	0.80	63	54
Ⓐ 12	820	0.11	0.50	58	51
Ⓐ 13	520	0.09	0.40	58	—
Ⓐ 14	530	0.08	0.40	54	53
Ⓐ 15	530	0.07	0.30	51	54
Ⓐ 16	550	0.05	0.30	46	51

- **Technical features:**
 - PFC (active)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 610800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST, CCC are applied for
- Line undervoltage detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

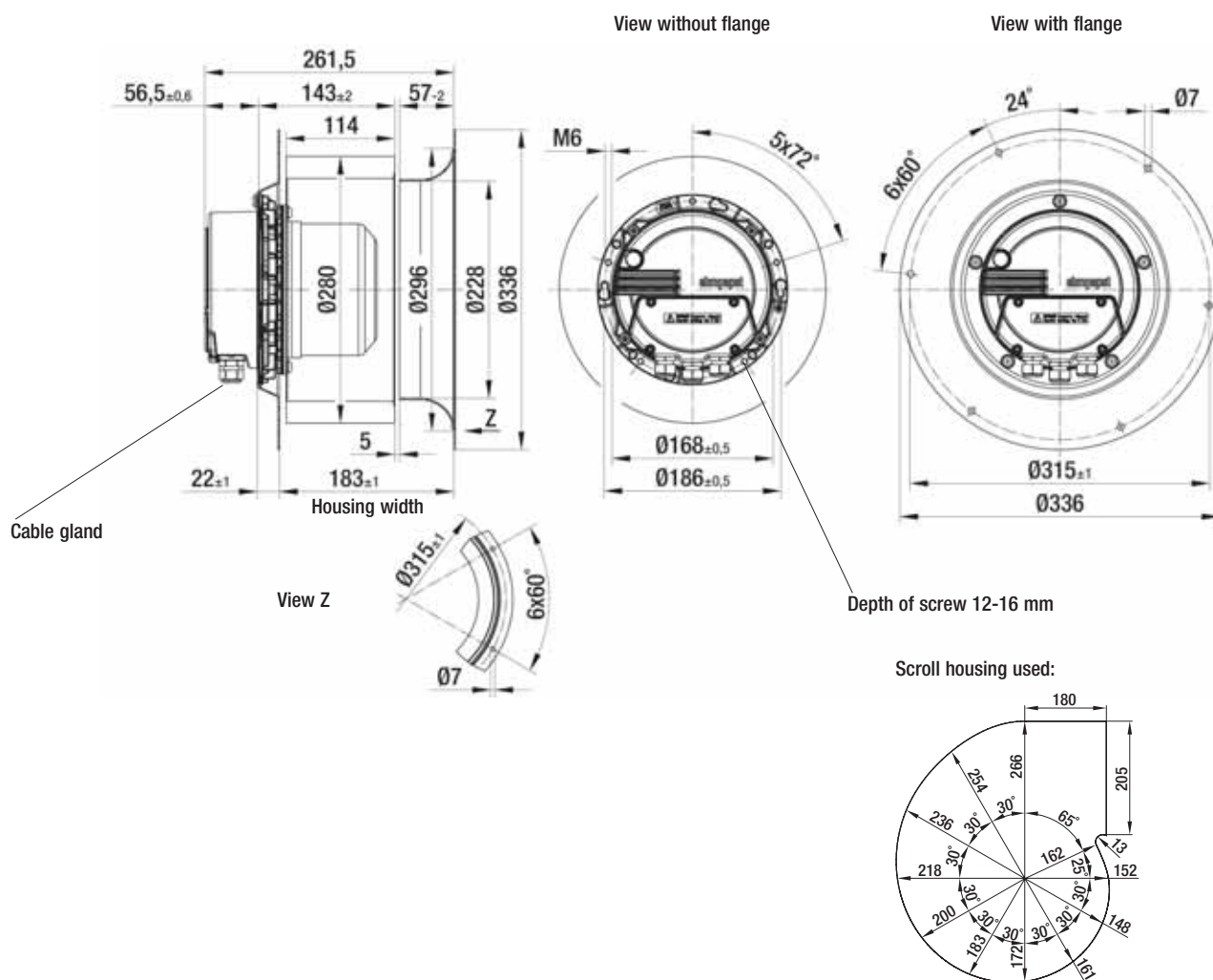
Flange

R3G 280-AN32 -11

9.4

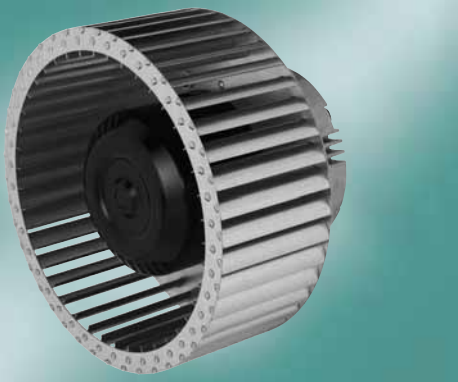
28010-2-4013

10026-2-4017



EC centrifugal fan

single inlet, Ø 280

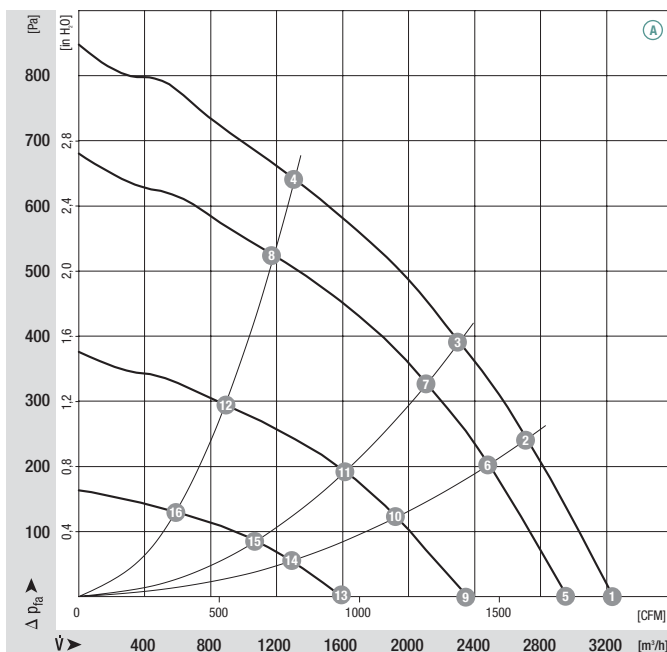


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 607
R3G 280	M3G 112-GA	Ⓐ	3~ 380-480	50/60	1300	1.10	2.00	0	-25 to +50	L2)

subject to alterations (1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	1300	1.10	2.00	82	—
Ⓐ 2	1370	0.94	1.80	79	55
Ⓐ 3	1420	0.81	1.50	77	59
Ⓐ 4	1540	0.53	1.00	73	57
Ⓐ 5	1200	0.87	1.60	79	—
Ⓐ 6	1260	0.73	1.40	76	55
Ⓐ 7	1310	0.62	1.20	75	59
Ⓐ 8	1400	0.40	0.80	71	57
Ⓐ 9	970	0.46	0.90	74	—
Ⓐ 10	990	0.36	0.80	70	55
Ⓐ 11	1010	0.30	0.60	68	59
Ⓐ 12	1050	0.19	0.50	63	57
Ⓐ 13	660	0.16	0.40	64	—
Ⓐ 14	680	0.13	0.30	60	55
Ⓐ 15	680	0.11	0.30	58	59
Ⓐ 16	710	0.08	0.20	53	57

- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 610800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST, CCC are applied for
- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

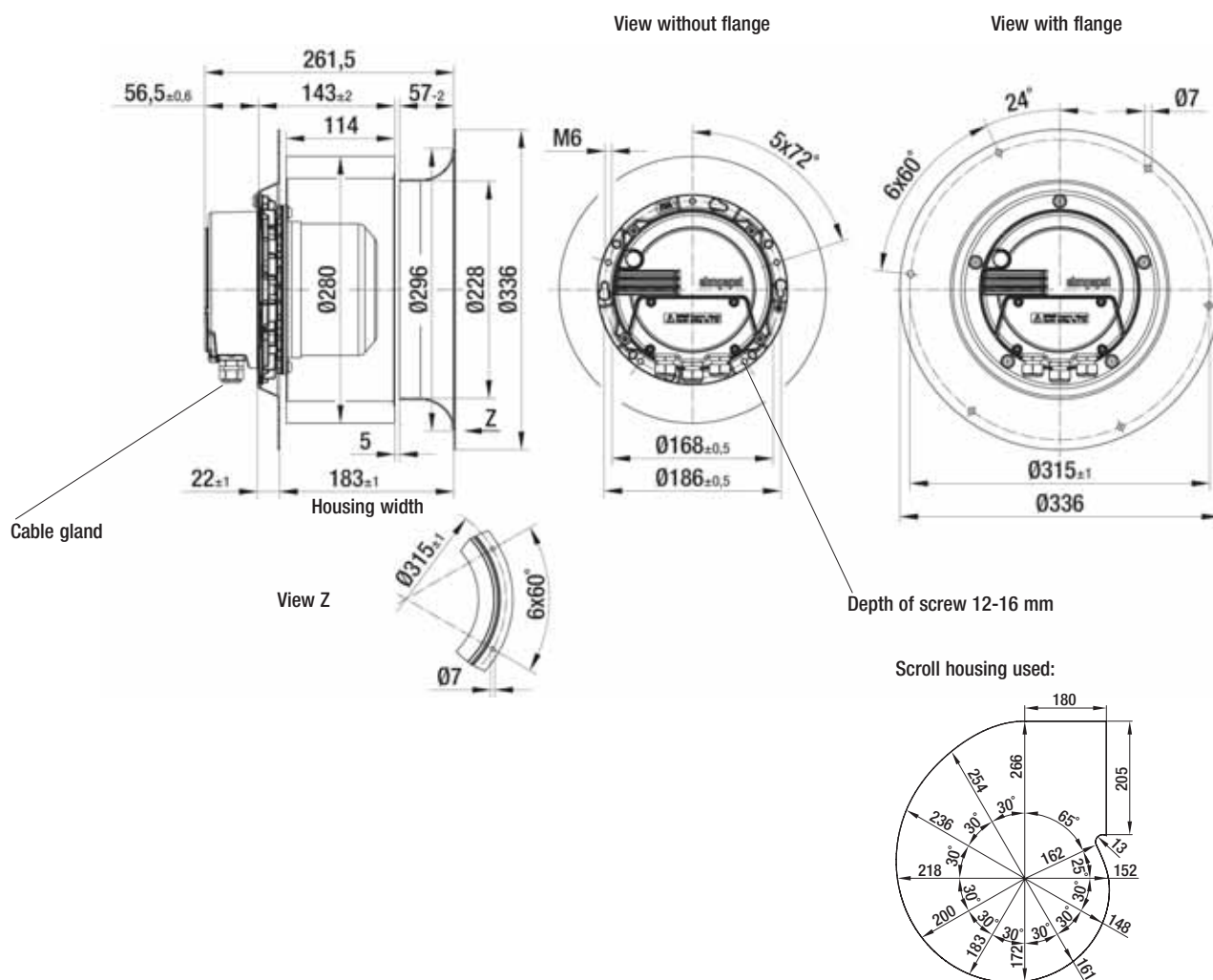
Flange

R3G 280-AN32 -01

9.4

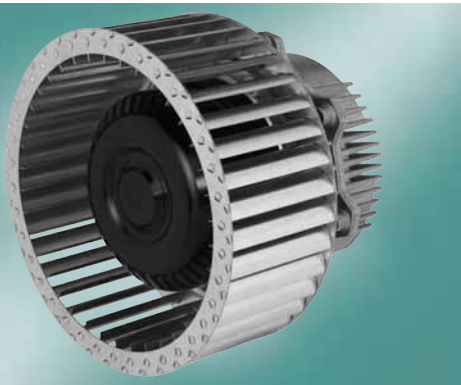
28010-2-4013

10026-2-4017



EC centrifugal fan

single inlet, Ø 310

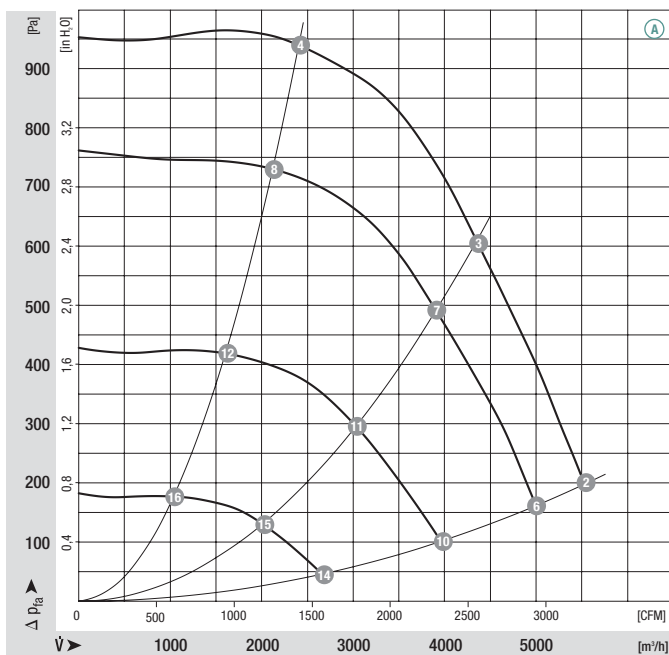


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 310	M3G 150-FF	Ⓐ	3~ 380-480	50/60	1500	2.97	4.60	200	-25 to +45	M)

subject to alterations (1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1500	2.97	4.60	88	47
Ⓐ 3	1600	2.34	3.70	85	57
Ⓐ 4	1730	1.37	2.10	82	56
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1350	2.19	3.30	85	47
Ⓐ 7	1440	1.71	2.60	82	57
Ⓐ 8	1540	0.96	1.60	79	56
Ⓐ 9	—	—	—	—	—
Ⓐ 10	1080	1.12	1.80	80	47
Ⓐ 11	1120	0.82	1.40	76	57
Ⓐ 12	1170	0.47	1.00	72	56
Ⓐ 13	—	—	—	—	—
Ⓐ 14	730	0.37	0.90	69	47
Ⓐ 15	750	0.27	0.70	65	57
Ⓐ 16	780	0.16	0.50	60	56

– **Technical features:**

- PFC (passive)
- Integrated PID controller
- Control input 0-10 VDC / PWM
- Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST

- Slave output 0-10 V max. 3 mA
- Output 20 VDC ($\pm 20\%$) max. 50 mA
- Output 10 VDC ($+10\%$) max. 10 mA
- RS485 ebmBUS
- Alarm relay

- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

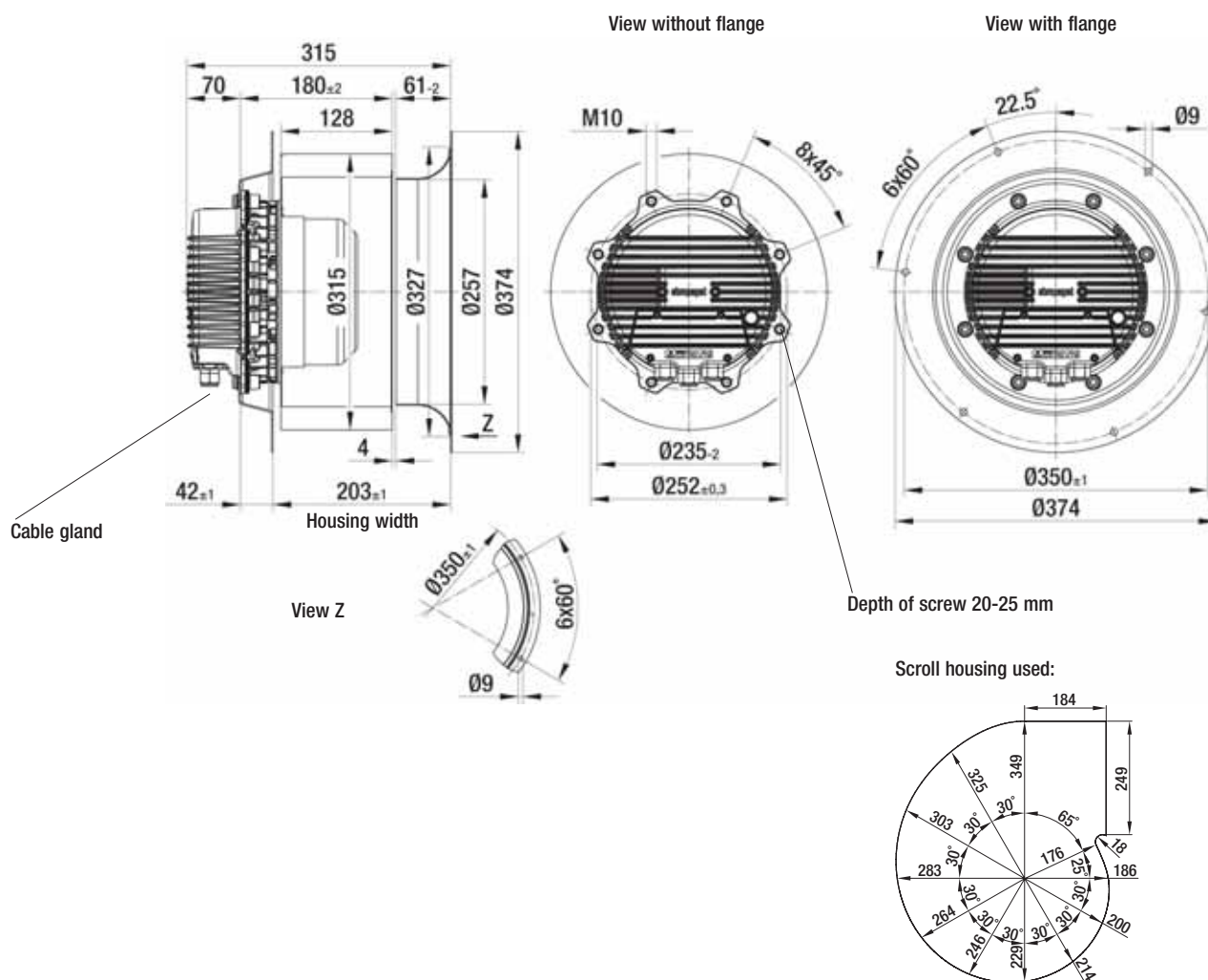
Flange

R3G 310-AU07 -03

19.4

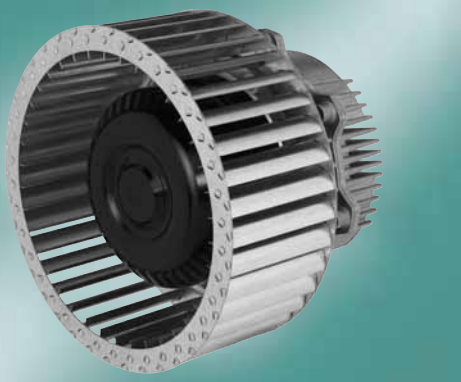
31010-2-4013

10050-2-4017



EC centrifugal fan

single inlet, Ø 355

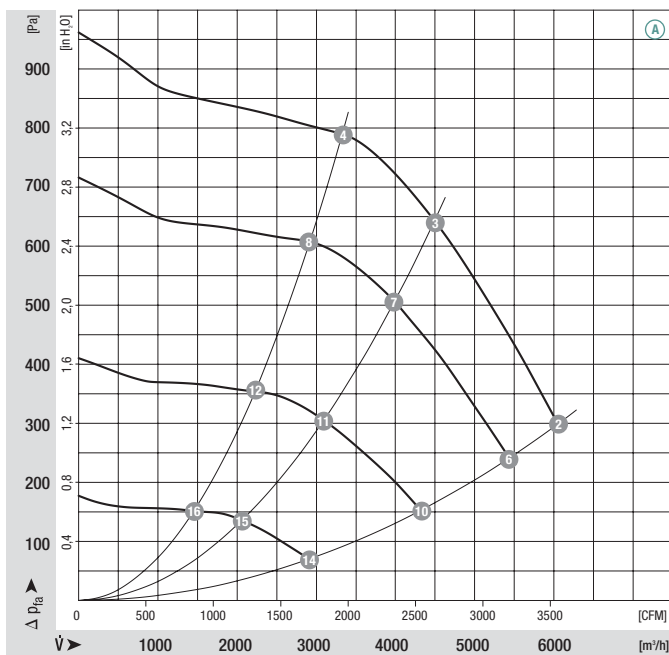


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 355	M3G 150-FF	Ⓐ	3~ 380-480	50/60	1180	2.60	4.00	300	-25 to +35	M)

subject to alterations (1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1180	2.60	4.00	84	54
Ⓐ 3	1280	1.95	3.00	80	64
Ⓐ 4	1350	1.52	2.30	79	64
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1050	1.91	2.90	82	54
Ⓐ 7	1130	1.36	2.00	77	64
Ⓐ 8	1190	1.02	1.60	75	64
Ⓐ 9	—	—	—	—	—
Ⓐ 10	840	0.97	1.70	76	54
Ⓐ 11	890	0.66	1.30	71	64
Ⓐ 12	920	0.49	1.00	68	64
Ⓐ 13	—	—	—	—	—
Ⓐ 14	580	0.31	0.70	65	54
Ⓐ 15	600	0.22	0.60	59	64
Ⓐ 16	610	0.17	0.50	56	64

– **Technical features:**

- PFC (passive)
- Integrated PID controller
- Control input 0-10 VDC / PWM
- Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST

- Slave output 0-10 V max. 3 mA
- Output 20 VDC ($\pm 20\%$) max. 50 mA
- Output 10 VDC ($+10\%$) max. 10 mA
- RS485 ebmBUS
- Alarm relay

- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

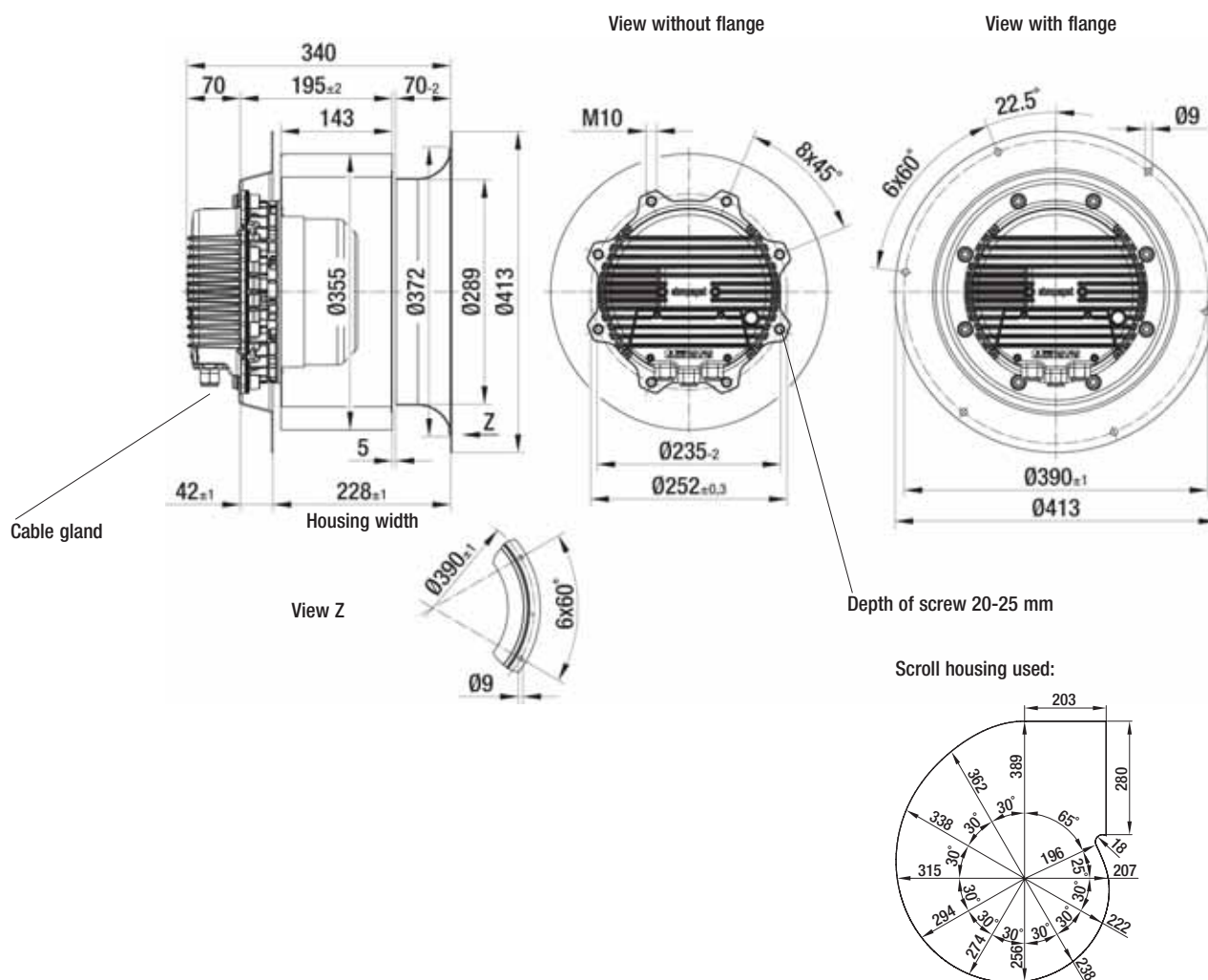
Flange

R3G 355-AR08 -03

19.9

35510-2-4013

10051-2-4017



EC centrifugal fan

single inlet, Ø 400



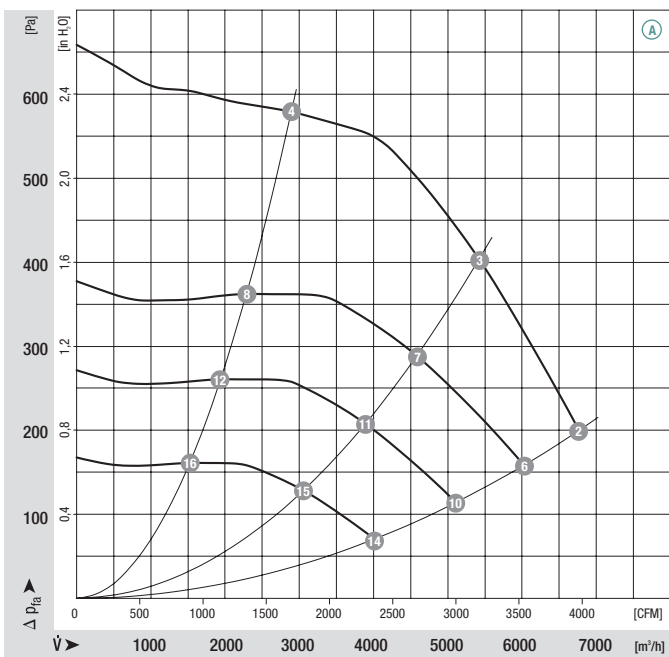
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 400	M3G 150-IF	Ⓐ	3~ 380-480	50/60	930	2.13	3.30	200	-25 to +45	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	930	2.13	3.30	83	54
Ⓐ 3	980	1.68	2.60	80	63
Ⓐ 4	1040	0.93	1.60	74	61
Ⓐ 5	—	—	—	—	—
Ⓐ 6	830	1.49	2.40	80	54
Ⓐ 7	830	1.01	1.60	75	63
Ⓐ 8	830	0.46	0.80	67	61
Ⓐ 9	—	—	—	—	—
Ⓐ 10	700	0.91	1.40	76	54
Ⓐ 11	700	0.62	1.00	71	63
Ⓐ 12	700	0.28	0.50	63	61
Ⓐ 13	—	—	—	—	—
Ⓐ 14	550	0.44	0.70	69	54
Ⓐ 15	550	0.30	0.50	65	63
Ⓐ 16	550	0.14	0.20	56	61

- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
 - **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
 - **Connection leads:** Via terminal strip
 - **Protection class:** I (acc. to EN 61800-5-1)
 - **Product conforming to standard:** CE
 - **Approvals:** VDE, UL, CSA, GOST
- Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- Line undervoltage / phase failure detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start

Mass of
centrifugal fan

Centrifugal fan

kg

Inlet nozzle

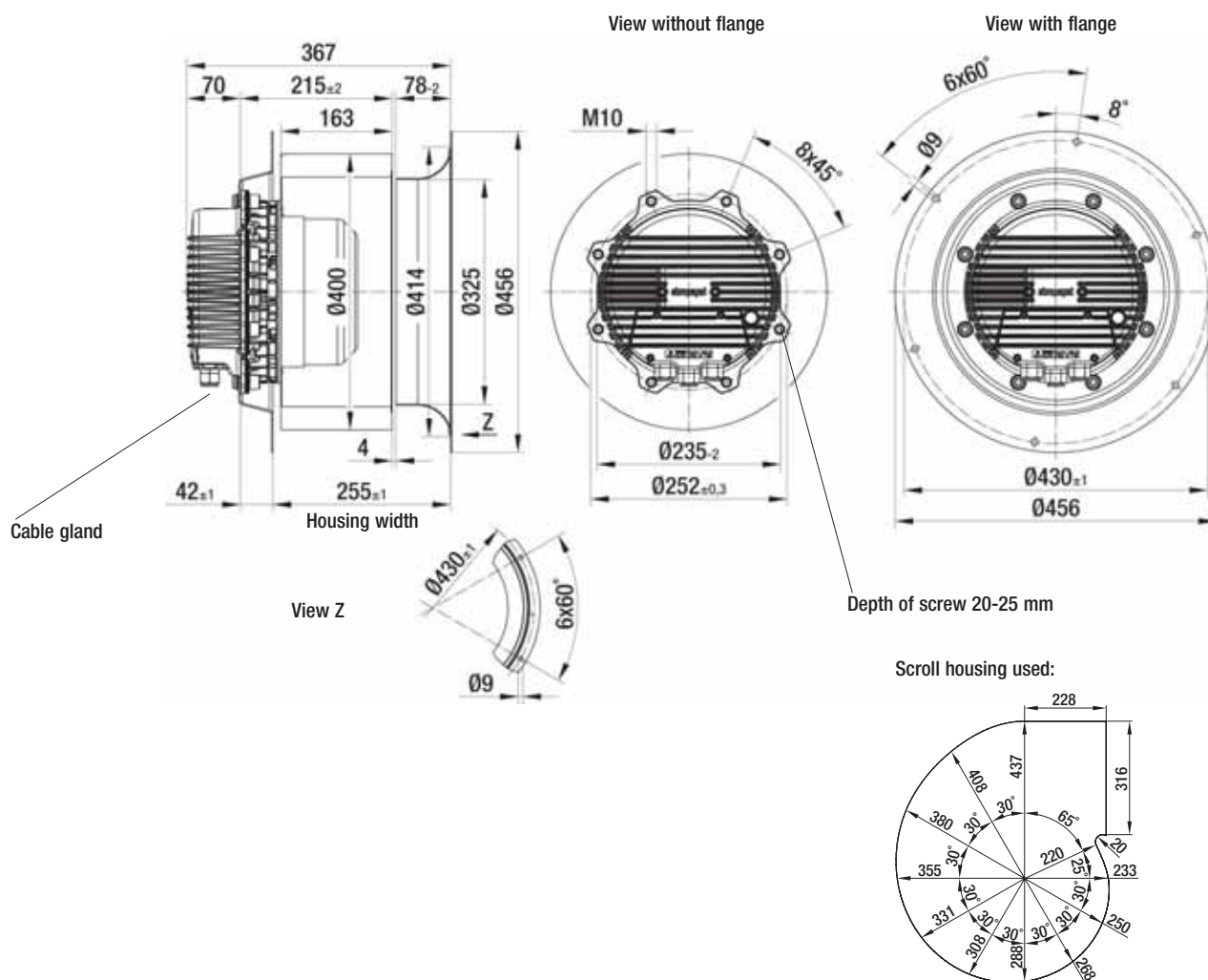
Flange

R3G 400-AR04 -03

25.5

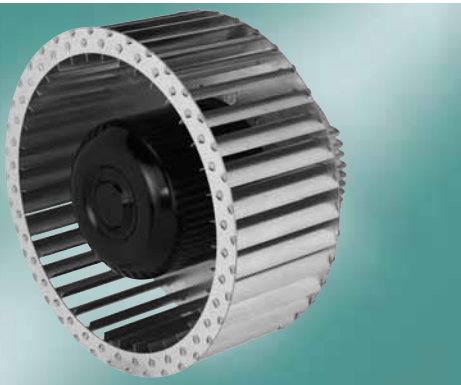
40010-2-4013

10052-2-4017



EC centrifugal fan

single inlet, Ø 400



- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

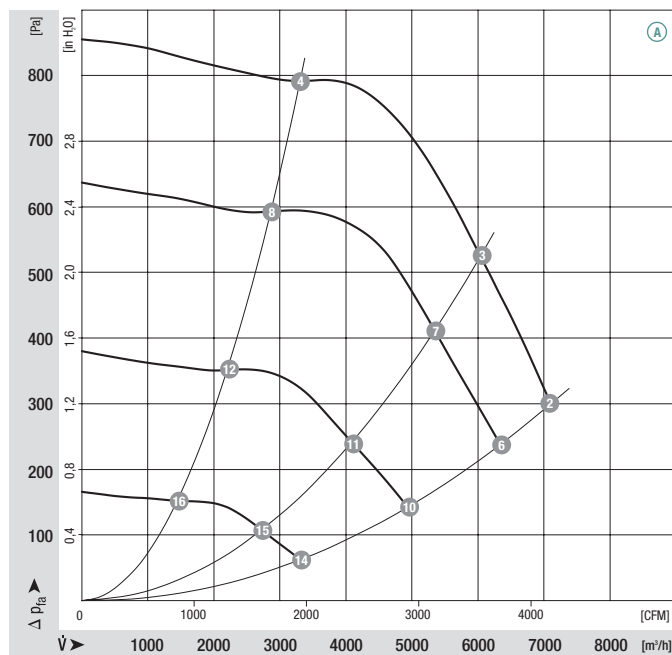
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 400	M3G 150-NA	Ⓐ	3~ 380-480	50/60	1120	3.080	4.60	300	-25 to +55	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1120	3.08	4.60	87	49
Ⓐ 3	1160	2.60	3.90	85	57
Ⓐ 4	1220	1.53	2.30	79	58
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1000	2.16	3.20	84	49
Ⓐ 7	1020	1.81	2.70	82	57
Ⓐ 8	1060	1.02	1.70	75	58
Ⓐ 9	—	—	—	—	—
Ⓐ 10	780	1.05	1.70	78	49
Ⓐ 11	790	0.87	1.50	75	57
Ⓐ 12	820	0.51	1.10	68	58
Ⓐ 13	—	—	—	—	—
Ⓐ 14	520	0.35	0.80	67	49
Ⓐ 15	530	0.31	0.70	64	57
Ⓐ 16	550	0.19	0.50	57	58

– **Technical features:**

- PFC (passive)
- Integrated PID controller
- Control input 0-10 VDC / PWM
- Input for sensor 0-10 V or 4-20 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST

- Slave output 0-10 V max. 3 mA
- Output 20 VDC ($\pm 20\%$) max. 50 mA
- Output 10 VDC ($+10\%$) max. 10 mA
- RS485 ebmBUS
- Alarm relay

- Line undervoltage / phase failure detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of
centrifugal fan



Centrifugal fan

kg

Inlet nozzle

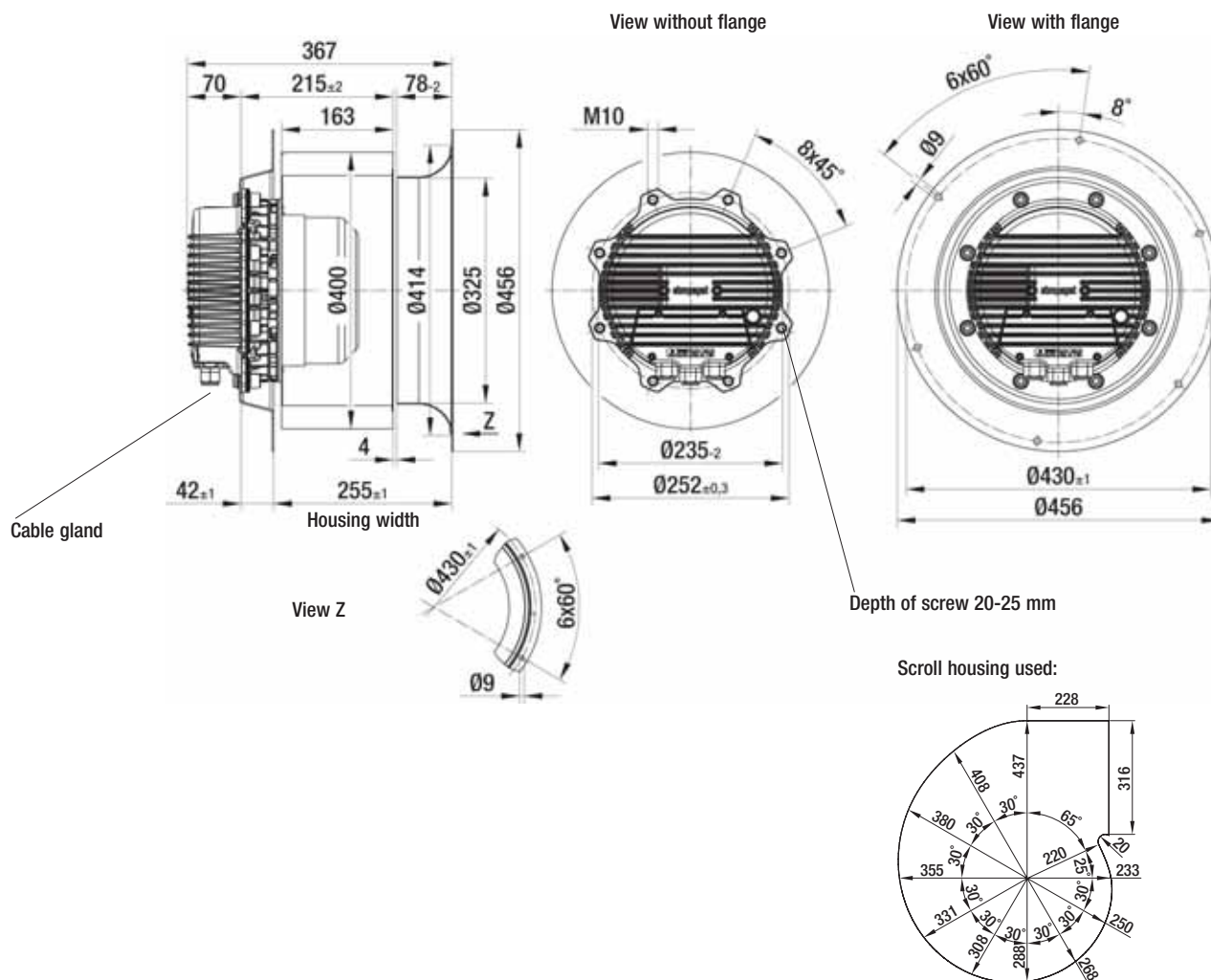
Flange

R3G 400-AT01 -03

30.0

40010-2-4013

10052-2-4017



EC centrifugal fan

single inlet, Ø 450



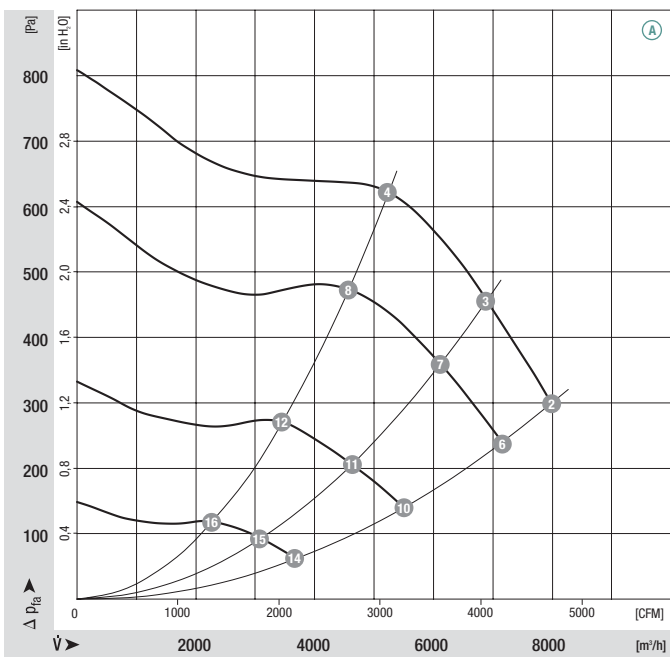
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 450	M3G 150-NA	Ⓐ	3~ 380-480	50/60	890	2.65	4.50	300	-25 to +50	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	890	2.65	4.50	82	60
Ⓐ 3	920	2.26	3.50	80	66
Ⓐ 4	970	1.80	2.80	76	70
Ⓐ 5	—	—	—	—	—
Ⓐ 6	790	1.82	3.20	79	60
Ⓐ 7	810	1.58	2.80	76	66
Ⓐ 8	840	1.17	2.20	74	70
Ⓐ 9	—	—	—	—	—
Ⓐ 10	610	0.83	1.60	71	60
Ⓐ 11	620	0.73	1.50	68	66
Ⓐ 12	630	0.54	1.10	66	70
Ⓐ 13	—	—	—	—	—
Ⓐ 14	410	0.27	0.70	60	60
Ⓐ 15	420	0.23	0.60	57	66
Ⓐ 16	420	0.18	0.50	54	70

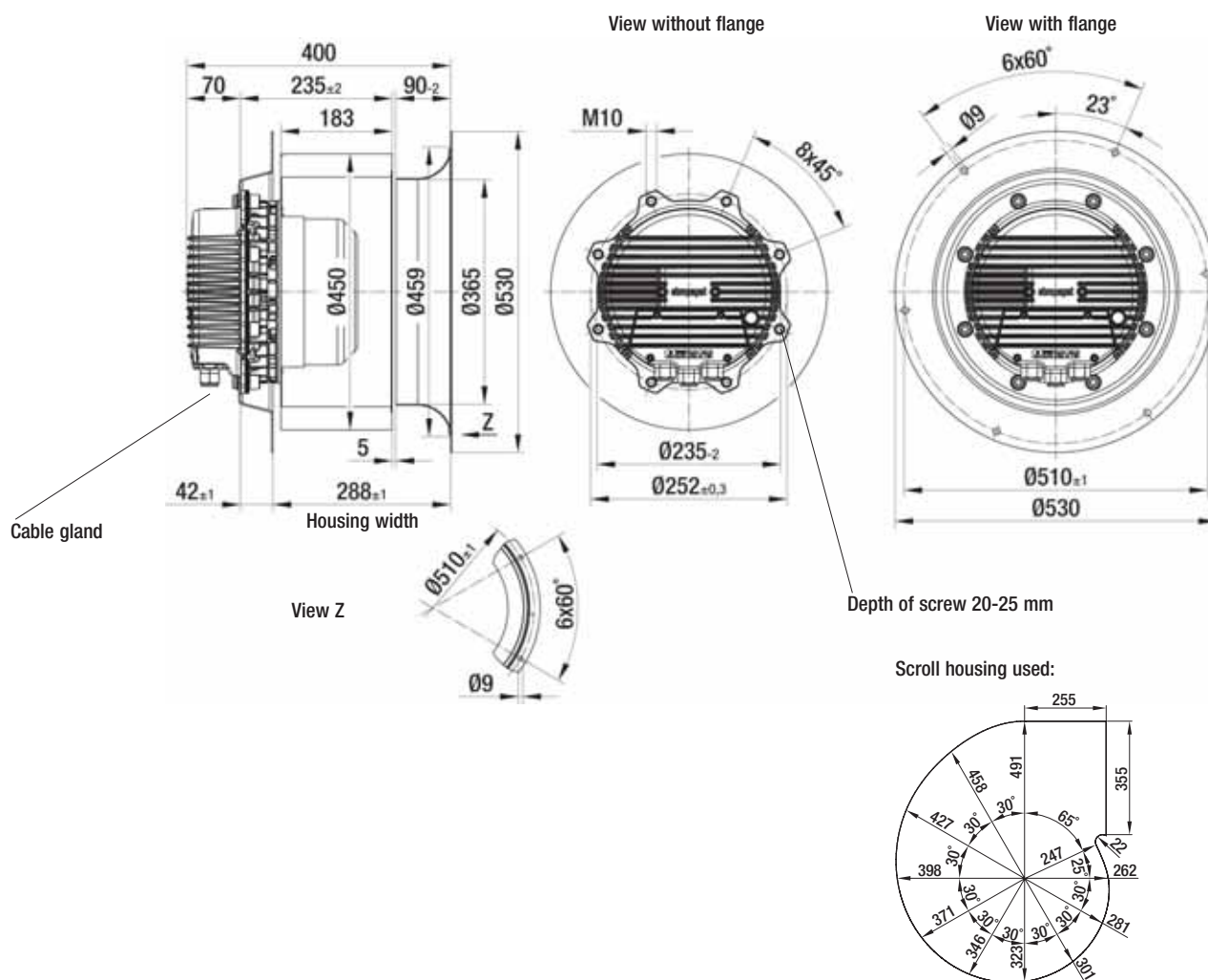
- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
 - **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
 - **Connection leads:** Via terminal strip
 - **Protection class:** I (acc. to EN 61800-5-1)
 - **Product conforming to standard:** CE
 - **Approvals:** VDE, UL, CSA, GOST
- Slave output 0-10 V max. 3 mA
 - Output 20 VDC (± 20 %) max. 50 mA
 - Output 10 VDC ($+10$ %) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- Line undervoltage / phase failure detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle	Flange
R3G 450-AR03 -03	31.5	45010-2-4013	10053-2-4017



EC centrifugal blowers

dual inlet, Ø 133

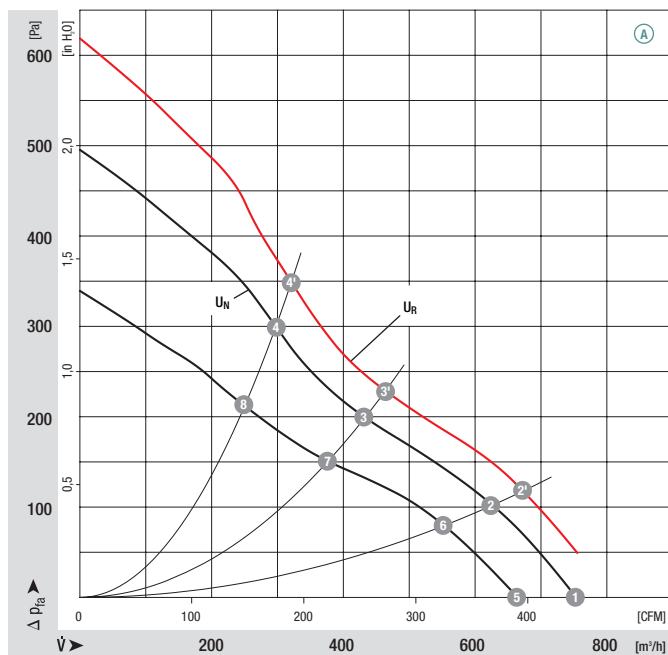


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Design:** Standard external-rotor motor anti-vibration mounted on both sides
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
D1G 133	M1G 074-BF	(A)	24	16-28	700	1780	105	5.60	62	50	-25 to +60	G)
D1G 133	M1G 074-BF	(A)	48	36-57	700	1780	105	2.80	62	50	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	—	—	—	—
(A) 2'	2050	121	63	49
(A) 3'	2490	106	62	41
(A) 4'	2820	100	62	37
(A) 1	1780	105	62	—
(A) 2	1900	97	61	49
(A) 3	2310	86	59	41
(A) 4	2630	80	60	37
(A) 5	1500	73	59	—
(A) 6	1720	67	57	49
(A) 7	2020	58	56	41
(A) 8	2230	49	56	37

- **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 blower

Centrifugal blower without flange

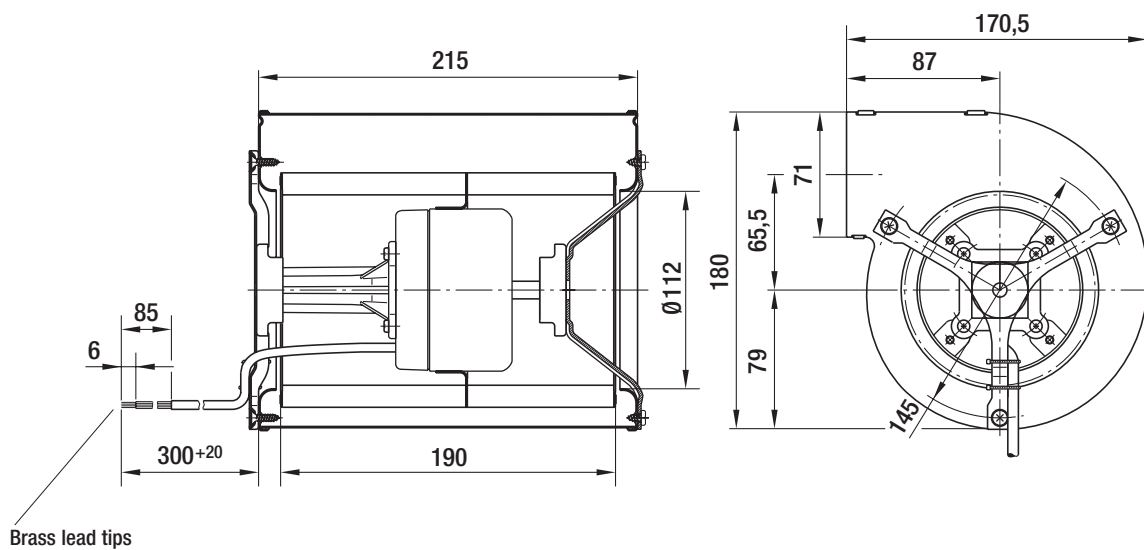
kg

D1G 133-AB29 -52

3.3

D1G 133-AB39 -52

3.3



EC centrifugal blowers

dual inlet, Ø 133

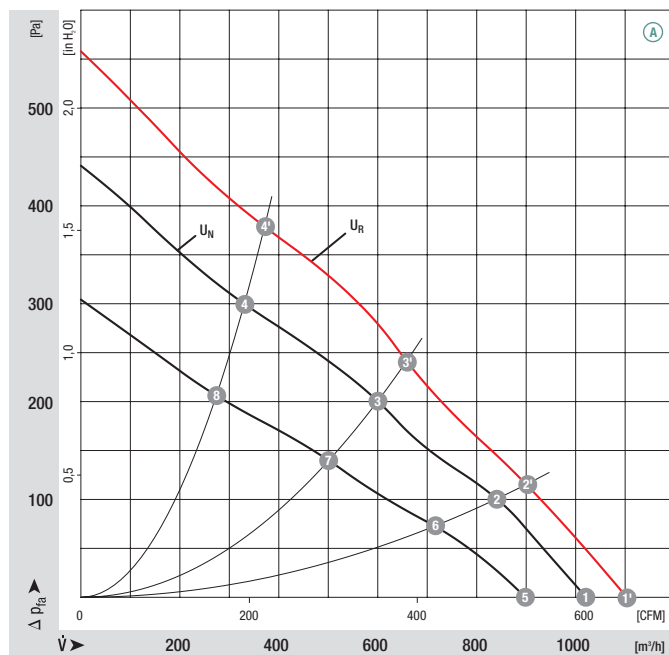


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Design:** Standard external-rotor motor anti-vibration mounted on both sides
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
D1G 133	M1G 074-CF	(A)	24	16-28	1020	1580	118	6.00	64	0	-25 to +60	G)
D1G 133	M1G 074-CF	(A)	48	36-57	1020	1580	118	3.00	64	0	-25 to +60	G)

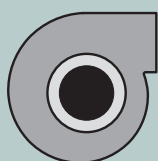
subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	1700	145	65	—
(A) 2'	1930	133	62	38
(A) 3'	2290	122	59	41
(A) 4'	2700	99	61	32
(A) 1	1580	118	64	—
(A) 2	1790	107	61	38
(A) 3	2100	95	57	41
(A) 4	2410	73	58	32
(A) 5	1400	78	60	—
(A) 6	1580	70	56	38
(A) 7	1760	56	53	41
(A) 8	2000	44	53	32

- **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



Mass of centrifugal blower

Centrifugal blower without flange

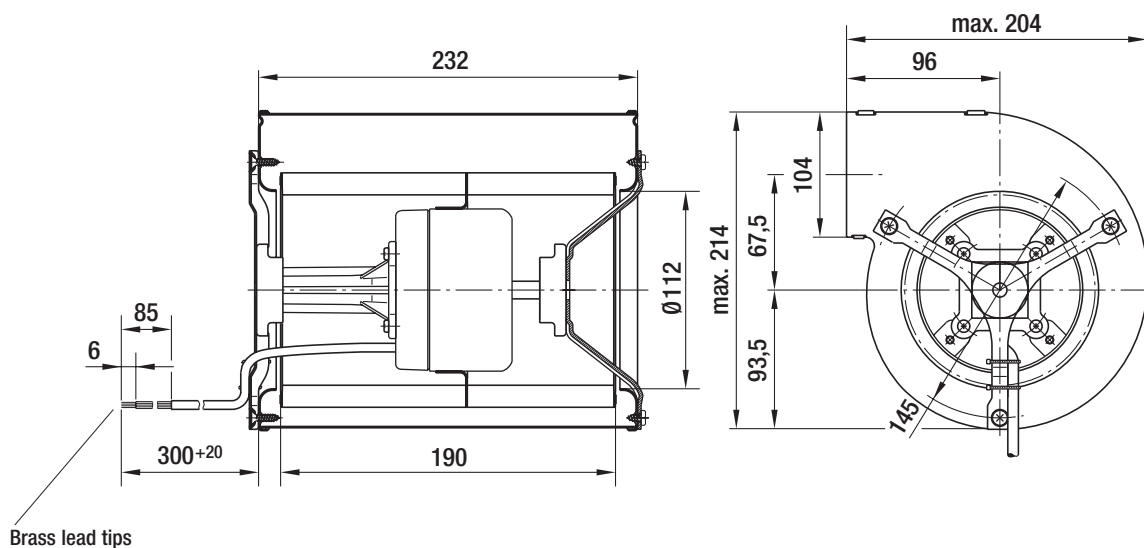
kg

D1G 133-DC13 -52

3.4

D1G 133-DC17 -52

3.4



EC centrifugal blowers

dual inlet, Ø 146

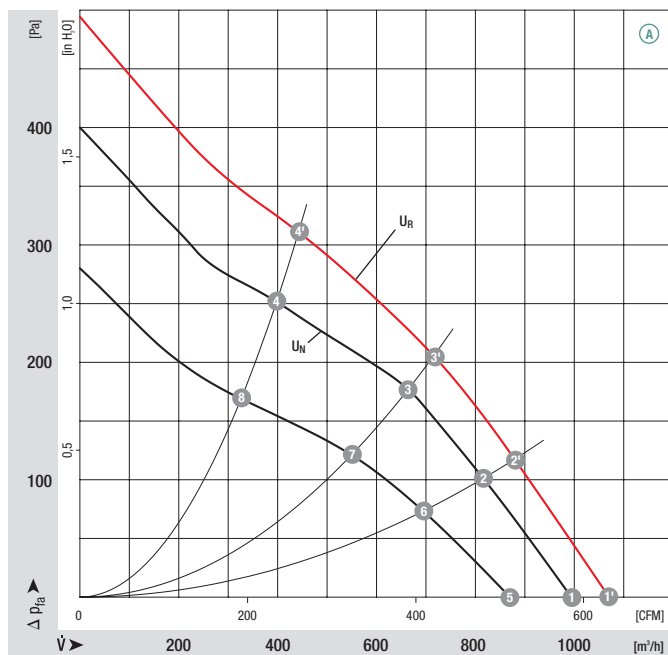


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Design:** Standard external-rotor motor anti-vibration mounted on both sides
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
D1G 146	M1G 074-CF	Ⓐ	24	16-28	1000	1350	105	5.10	61	0	-25 to +60	G)
D1G 146	M1G 074-CF	Ⓐ	48	36-57	1000	1350	105	2.60	61	0	-25 to +60	G)

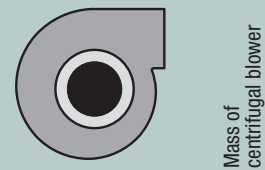
subject to alterations

Curves

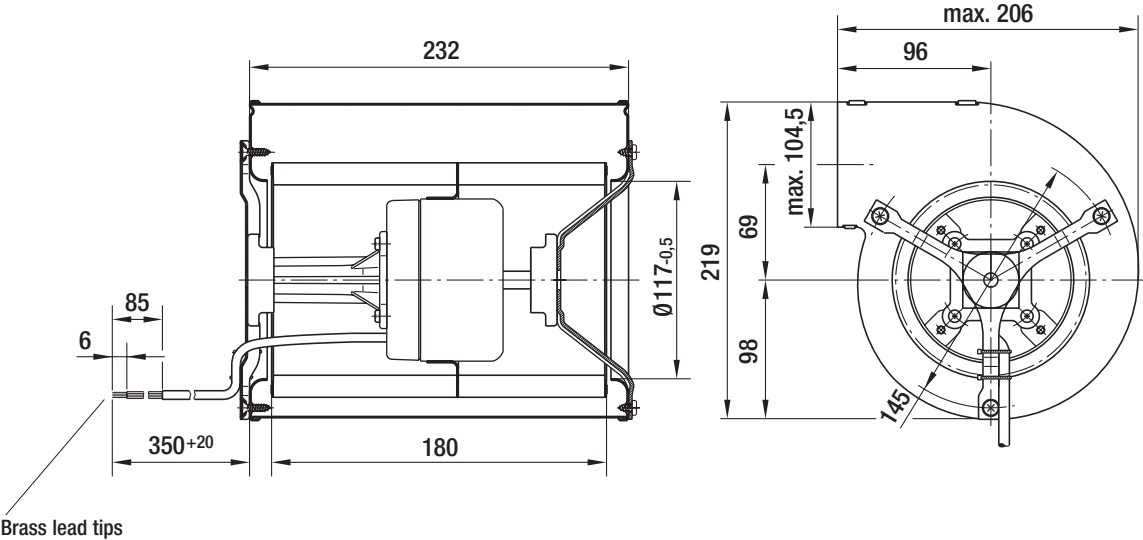


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1'	1460	129	63	—
Ⓐ 2'	1680	119	60	53
Ⓐ 3'	1890	111	58	61
Ⓐ 4'	2240	95	59	55
Ⓐ 1	1350	105	61	—
Ⓐ 2	1570	95	58	53
Ⓐ 3	1750	88	56	61
Ⓐ 4	2010	70	57	55
Ⓐ 5	1210	70	56	—
Ⓐ 6	1360	60	54	53
Ⓐ 7	1460	53	52	61
Ⓐ 8	1670	42	51	55

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



Centrifugal blower without flange	kg
D1G 146-AA19 -52	3.5
D1G 146-AA33 -52	3.5



EC centrifugal blowers

dual inlet, Ø 160

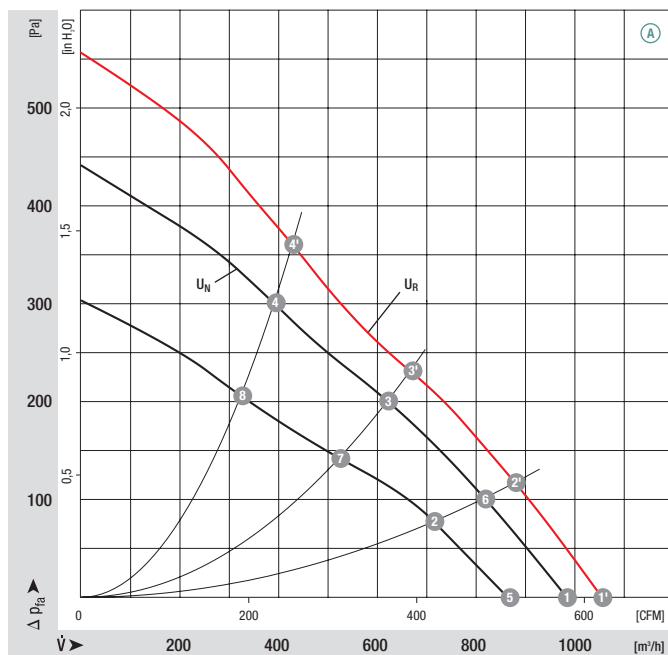


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Design:** Standard external-rotor motor anti-vibration mounted on both sides
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Voltage range	Air flow	Speed/rpm	Power input	Current draw	Sound pressure level	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VDC	VDC	m³/h	rpm	W	A	dB(A)	Pa	°C	p. 600
D1G 160	M1G 074-CF	(A)	24	16-28	980	1250	112	5.60	60	0	-25 to +60	G)
D1G 160	M1G 074-CF	(A)	48	36-57	980	1250	112	2.90	60	0	-25 to +60	G)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	1330	142	63	—
(A) 2'	1520	128	61	64
(A) 3'	1790	115	59	66
(A) 4'	2090	105	60	60
(A) 1	1250	112	60	—
(A) 2	1420	102	59	64
(A) 3	1660	92	58	66
(A) 4	1900	80	58	60
(A) 5	1100	75	58	—
(A) 6	1250	69	56	64
(A) 7	1420	58	54	66
(A) 8	1580	47	53	60

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

Mass of
centrifugal blowerCentrifugal blower
without flange

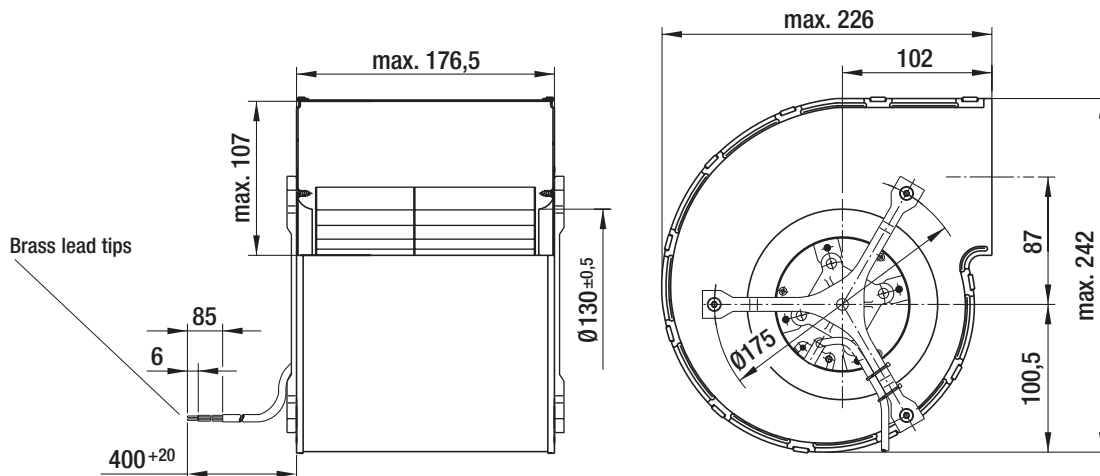
kg

D1G 160-DA19 -52

3.6

D1G 160-DA33 -52

3.6



EC centrifugal blowers

dual inlet, Ø 146



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

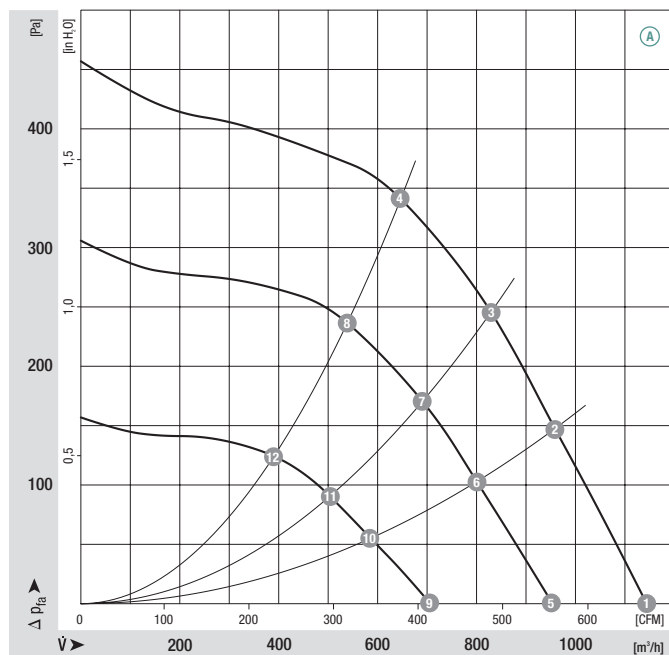
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
D3G 146	M3G 074-CF	Ⓐ	1~ 200-277	50/60	1740	171	1.30	0	-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	1740	171	1.30	67	—
Ⓐ 2	1960	169	1.20	65	49
Ⓐ 3	2150	165	1.20	65	56
Ⓐ 4	2410	166	1.20	66	55
Ⓐ 5	1460	103	0.70	62	—
Ⓐ 6	1650	102	0.80	60	46
Ⓐ 7	1820	104	0.80	60	53
Ⓐ 8	2020	102	0.70	61	52
Ⓐ 9	1090	47	0.40	55	—
Ⓐ 10	1220	46	0.40	56	41
Ⓐ 11	1330	46	0.40	52	47
Ⓐ 12	1480	46	0.40	53	44

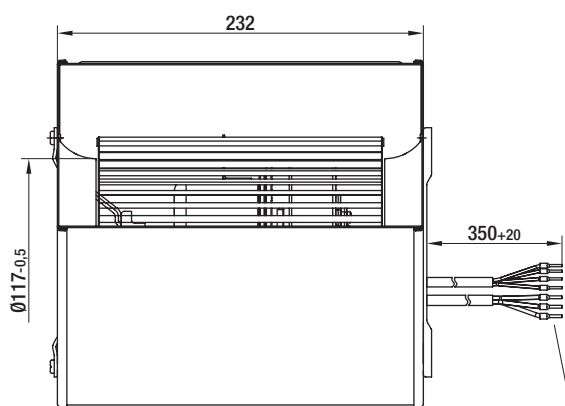
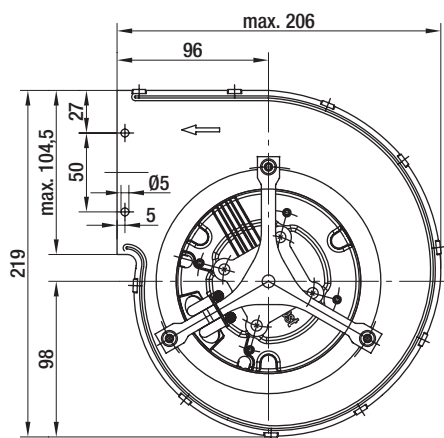
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection 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 blowerCentrifugal blower
without flange

kg

D3G 146-AH50 -01

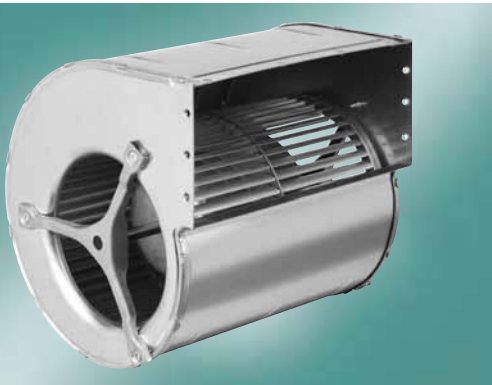
4.0



Core-end sleeves

EC centrifugal blowers

dual inlet, Ø 160

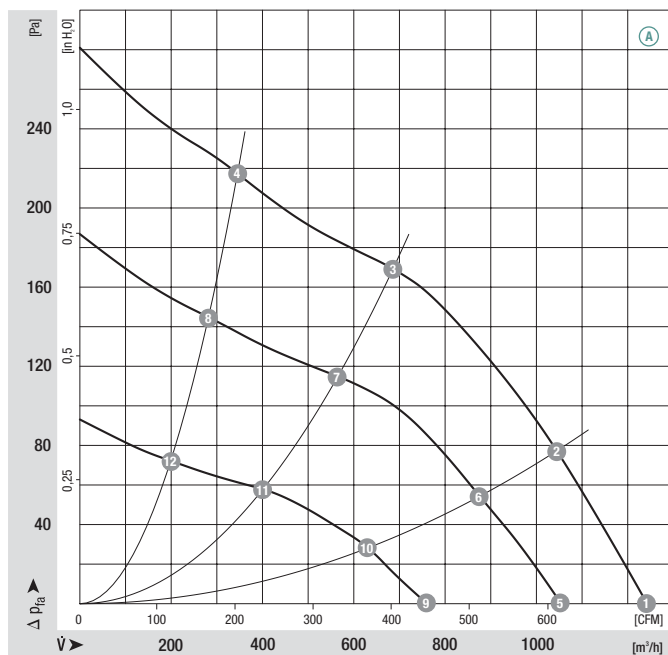


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal; rotor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

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	Pa	°C	p. 603
D3G 160	M3G 074-CF	Ⓐ	1~ 200-277	50/60	1390	154	1.20	0	-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	1390	154	1.20	64	—
Ⓐ 2	1440	129	1.00	61	53
Ⓐ 3	1540	93	0.70	57	60
Ⓐ 4	1590	63	0.50	56	47
Ⓐ 5	1180	96	0.70	59	—
Ⓐ 6	1220	79	0.60	56	52
Ⓐ 7	1270	54	0.40	52	57
Ⓐ 8	1310	37	0.30	51	44
Ⓐ 9	860	40	0.30	51	—
Ⓐ 10	890	34	0.30	47	45
Ⓐ 11	910	24	0.20	43	45
Ⓐ 12	930	18	0.20	42	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



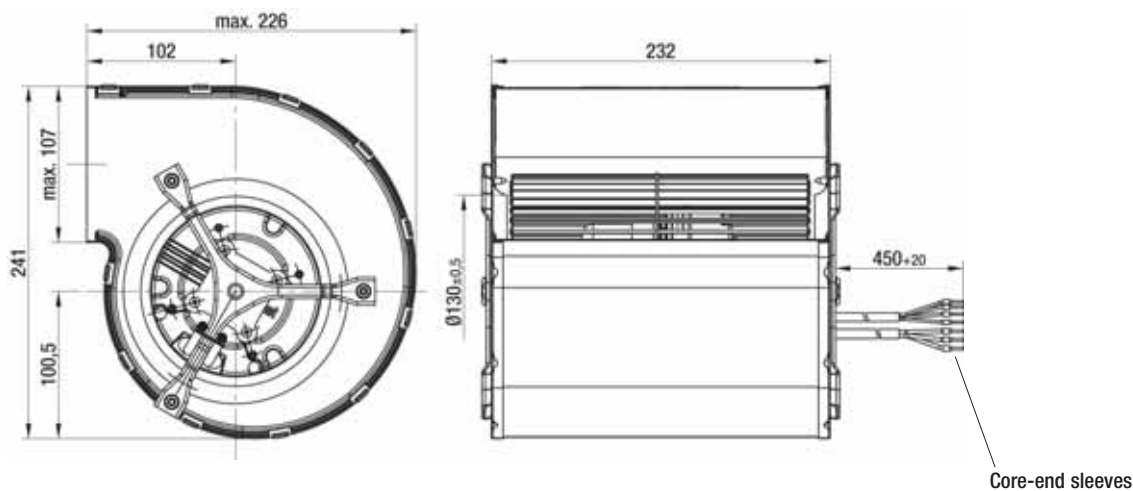
Mass of centrifugal blower

Centrifugal blower without flange

kg

D3G 160-BF60 -01

4.9



EC centrifugal blowers

dual inlet, Ø 180



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

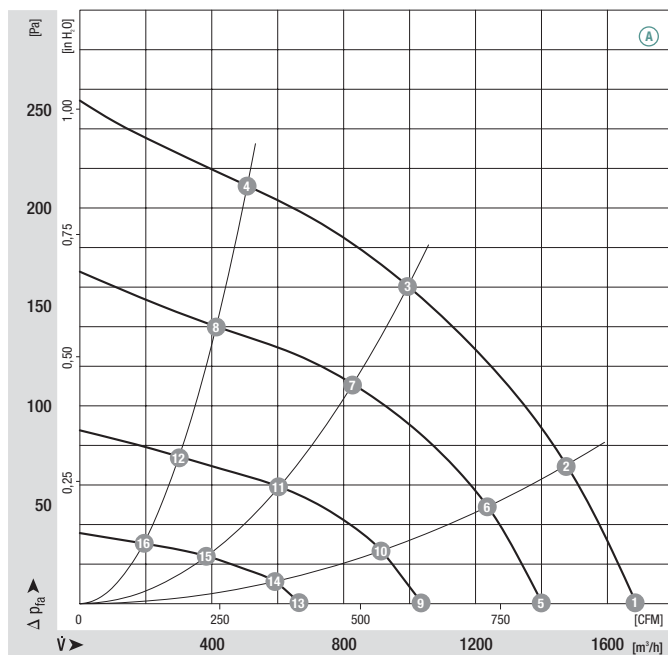
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Min. back pressure	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	Pa	°C	p. 603
D3G 180	M3G 074-CF	Ⓐ	1~ 200-277	50/60	1090	165	1.22	0	-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	1090	165	1.22	64	—
Ⓐ 2	1200	155	1.15	62	54
Ⓐ 3	1310	113	0.85	59	62
Ⓐ 4	1400	74	0.55	56	53
Ⓐ 5	925	101	0.75	60	—
Ⓐ 6	1015	95	0.70	58	51
Ⓐ 7	1090	67	0.50	54	61
Ⓐ 8	1145	45	0.35	51	48
Ⓐ 9	690	43	0.35	52	—
Ⓐ 10	760	42	0.30	50	47
Ⓐ 11	805	31	0.25	46	51
Ⓐ 12	840	21	0.20	43	39
Ⓐ 13	455	15	0.15	40	—
Ⓐ 14	500	15	0.15	38	36
Ⓐ 15	525	12	0.10	34	35
Ⓐ 16	545	9	0.10	32	23

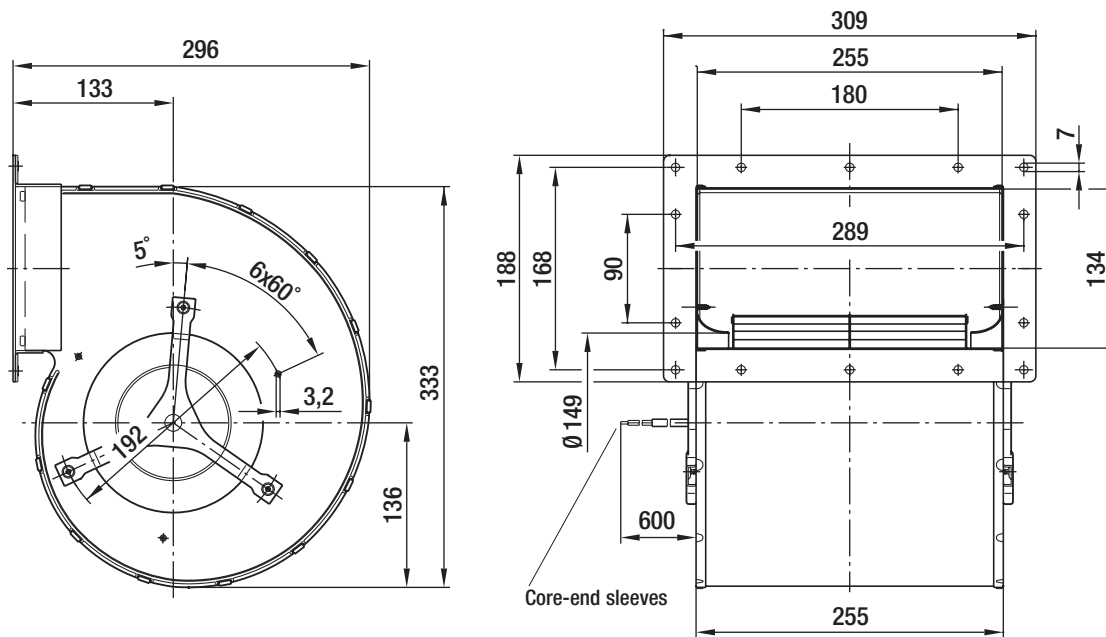
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection 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 blowerCentrifugal blower
without flange

kg

D3G 180-AB62 -01

7.0





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