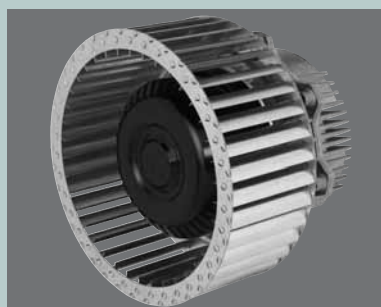




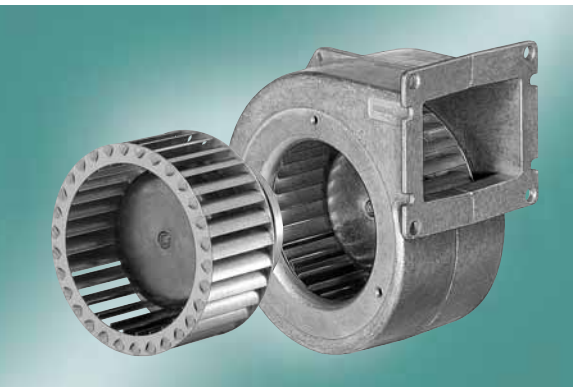
EC centrifugal fans and blowers forward curved

	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

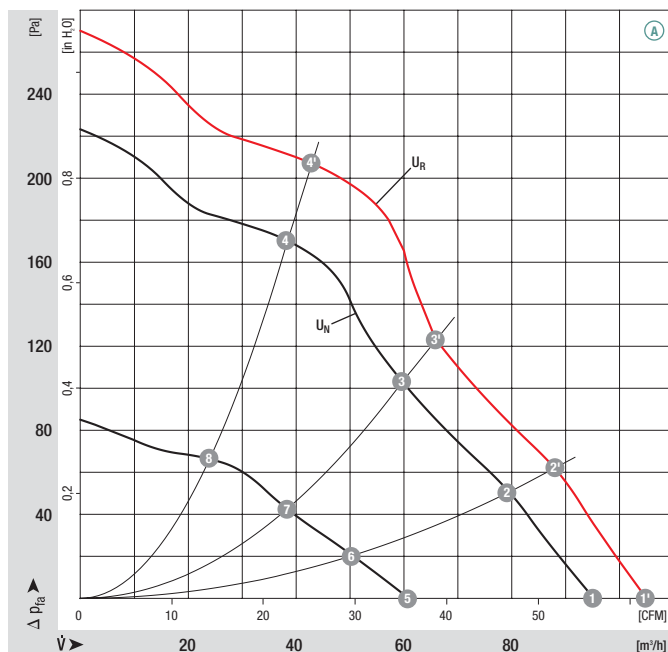


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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)

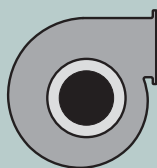
subject to alterations

Curves

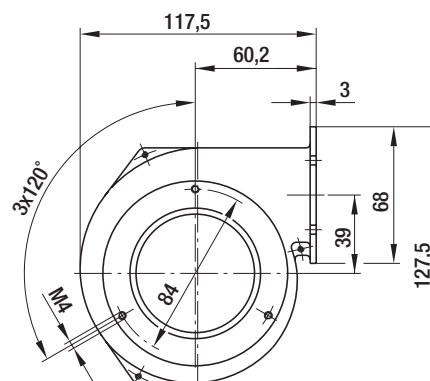
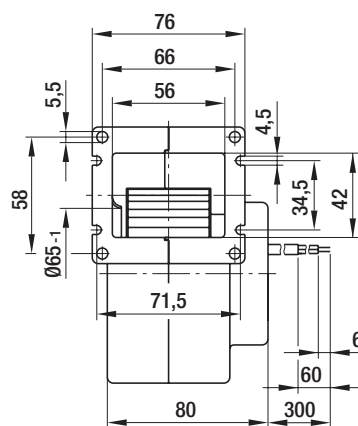
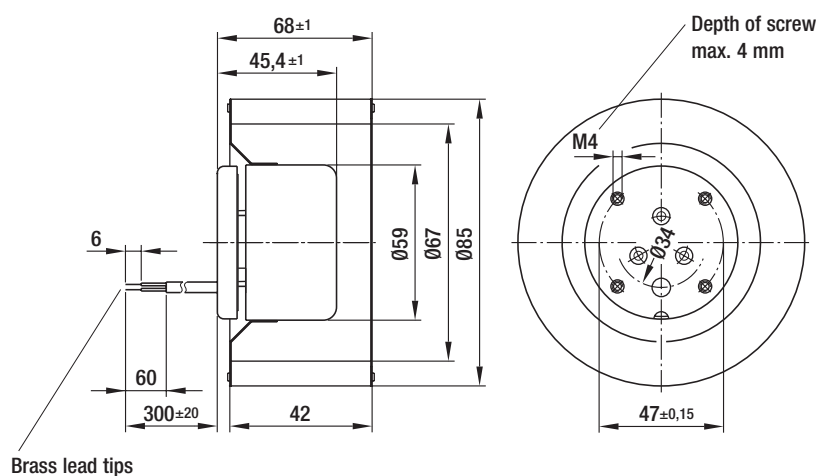


	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1'	3180	19	59	—
(A) 2'	3300	16	57	28
(A) 3'	3500	15	57	32
(A) 4'	3800	12	57	37
(A) 1	2850	14	57	—
(A) 2	3000	12	55	28
(A) 3	3180	11	55	32
(A) 4	3400	9	54	37
(A) 5	1890	5	46	—
(A) 6	1970	4	44	25
(A) 7	2070	4	44	30
(A) 8	2170	3	42	33

- **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

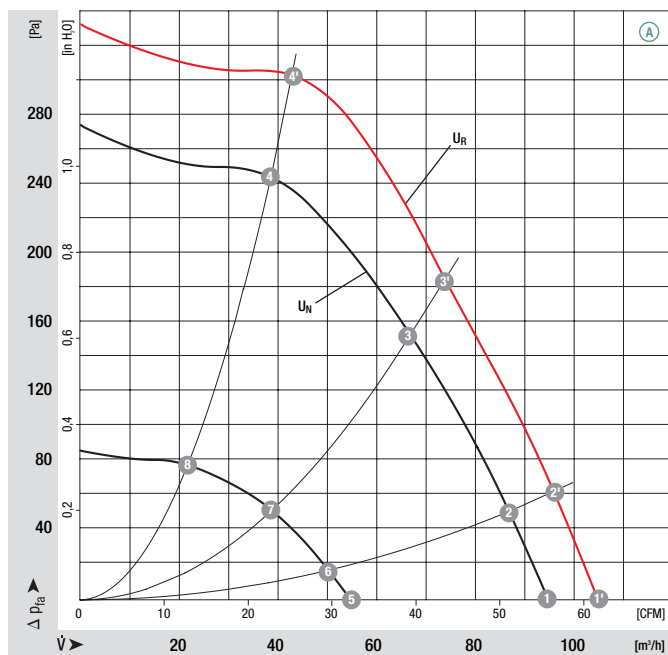


- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode 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)

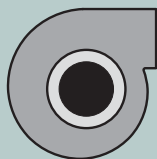
subject to alterations

Curves

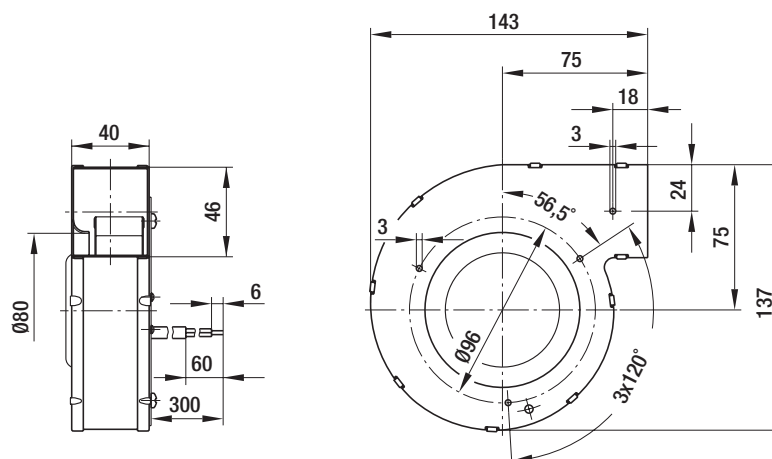
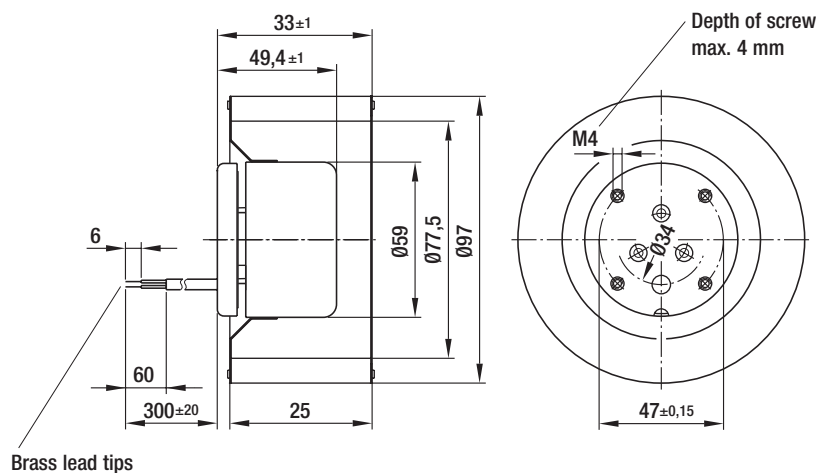


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2920	22	62	—
(A) 2'	3030	21	61	41
(A) 3'	3300	17	59	48
(A) 4'	3700	13	58	48
(A) 1	2650	16	59	—
(A) 2	2730	15	58	41
(A) 3	2960	13	56	48
(A) 4	3290	10	55	48
(A) 5	1615	4	45	—
(A) 6	1650	4	45	38
(A) 7	1745	4	43	46
(A) 8	1880	3	42	47

- **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

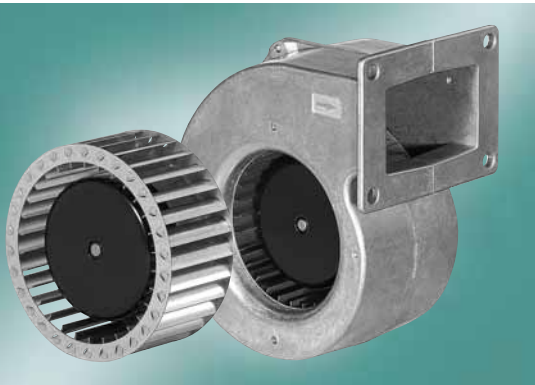
Mass of
centrifugal fanMass of
centrifugal blower

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

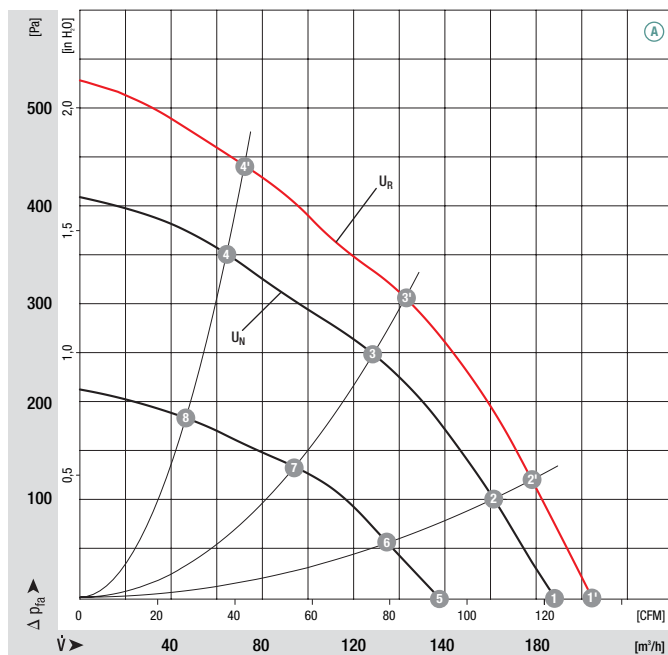


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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)

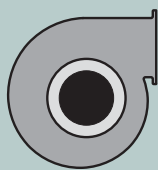
subject to alterations

Curves

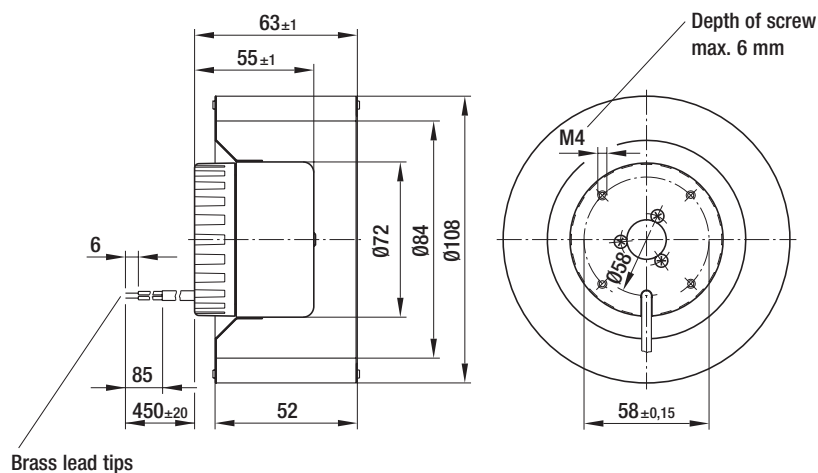


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	3230	55	67	—
(A) 2'	3410	52	66	33
(A) 3'	3800	43	65	41
(A) 4'	4100	35	64	33
(A) 1	3000	42	65	—
(A) 2	3140	40	64	33
(A) 3	3420	32	63	41
(A) 4	3690	26	63	33
(A) 5	2300	20	61	—
(A) 6	2380	17	58	33
(A) 7	2550	14	55	41
(A) 8	2720	11	55	33

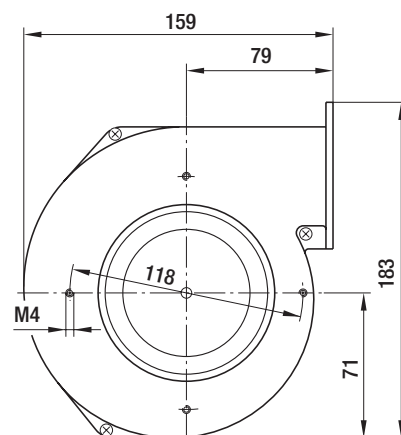
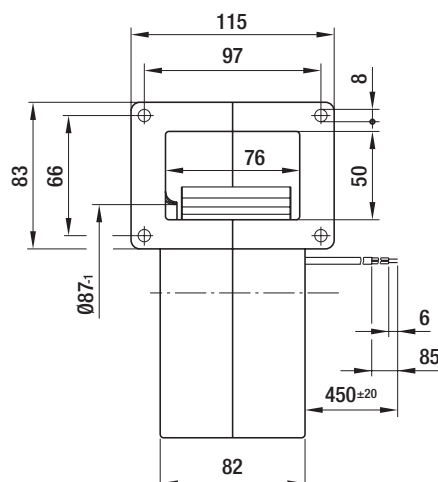
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (24 VDC) UL, CSA,  (48 VDC) CCC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

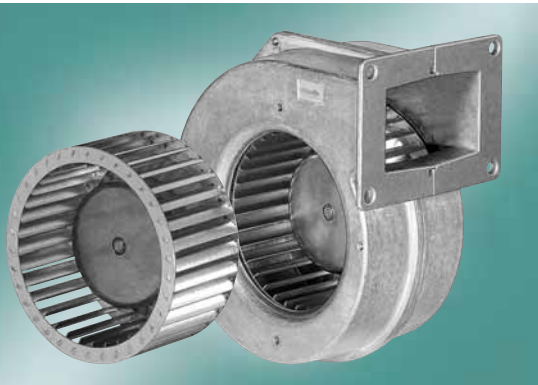


Brass lead tips



EC centrifugal fans and blowers

single inlet, Ø 120

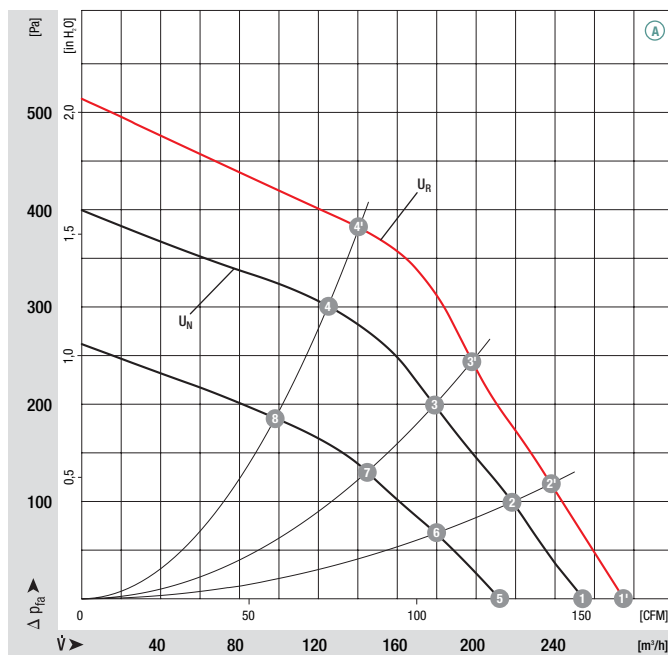


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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

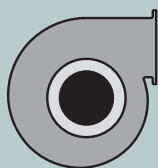


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	2410	50	63	—
(A) 2'	2620	47	62	58
(A) 3'	2870	44	61	60
(A) 4'	3200	36	62	55
(A) 1	2200	40	62	—
(A) 2	2410	36	60	59
(A) 3	2600	32	58	62
(A) 4	2880	25	58	55
(A) 5	1870	24	55	—
(A) 6	1990	21	54	58
(A) 7	2100	18	53	61
(A) 8	2310	14	54	54

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - 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:**  (24 VDC) UL, CSA,  (48 VDC) CCC

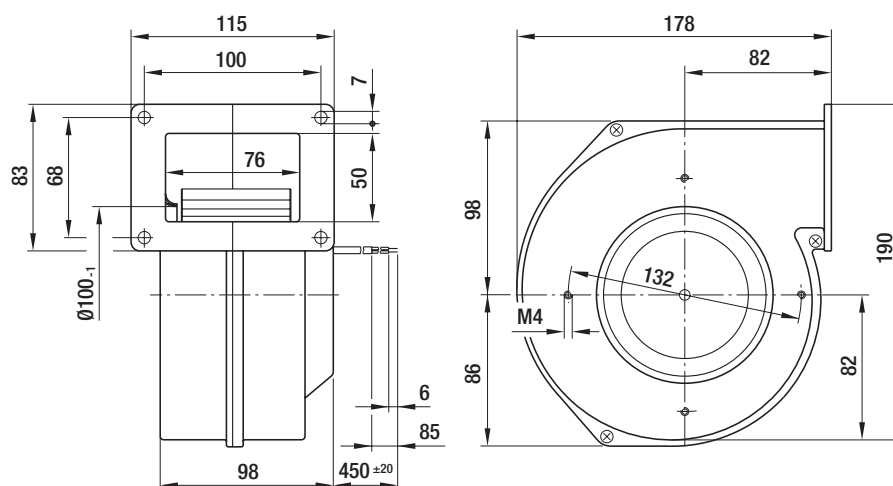
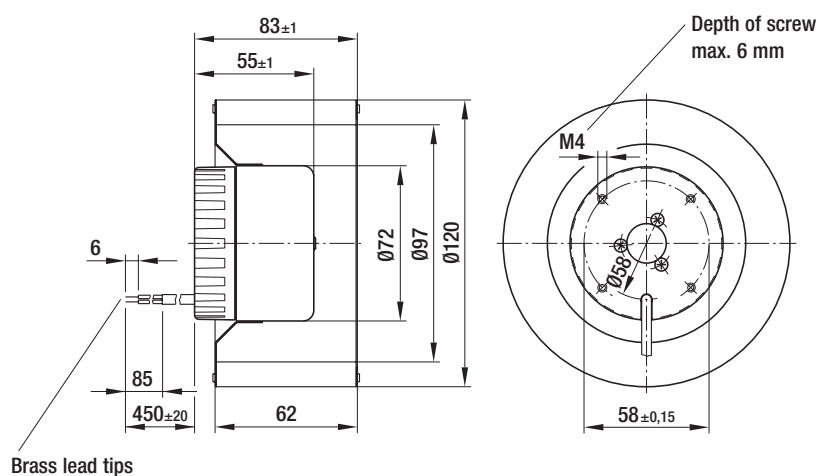


Mass of centrifugal fan



Mass 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

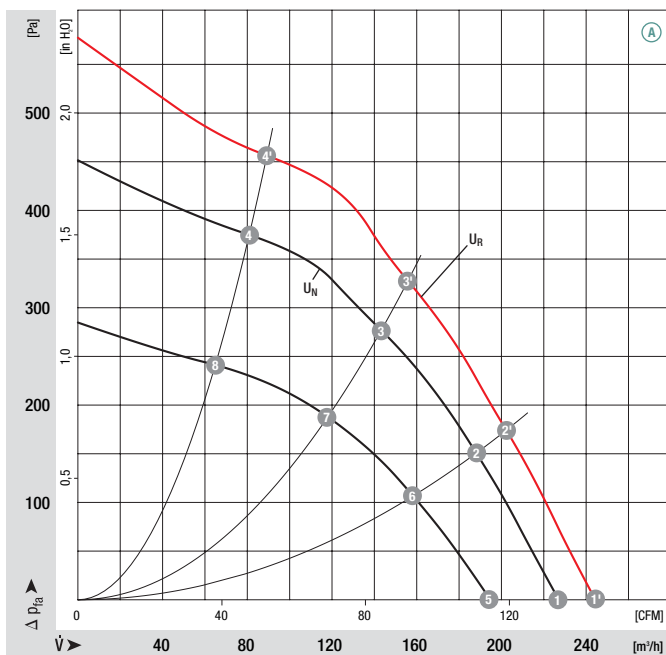


- **Material:** Housing: Hot-dip galvanised sheet steel
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode 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)

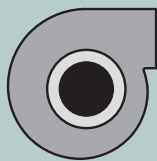
subject to alterations

Curves

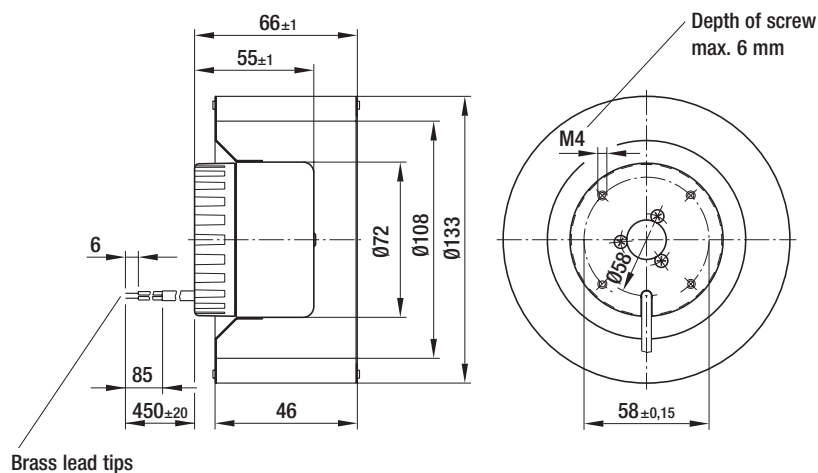


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2170	57	66	—
(A) 2'	2410	51	66	47
(A) 3'	2750	44	64	49
(A) 4'	3200	36	66	32
(A) 1	2000	45	64	—
(A) 2	2230	40	64	49
(A) 3	2540	35	62	51
(A) 4	2920	27	63	33
(A) 5	1750	28	60	—
(A) 6	1910	24	59	50
(A) 7	2120	20	58	53
(A) 8	2370	15	59	35

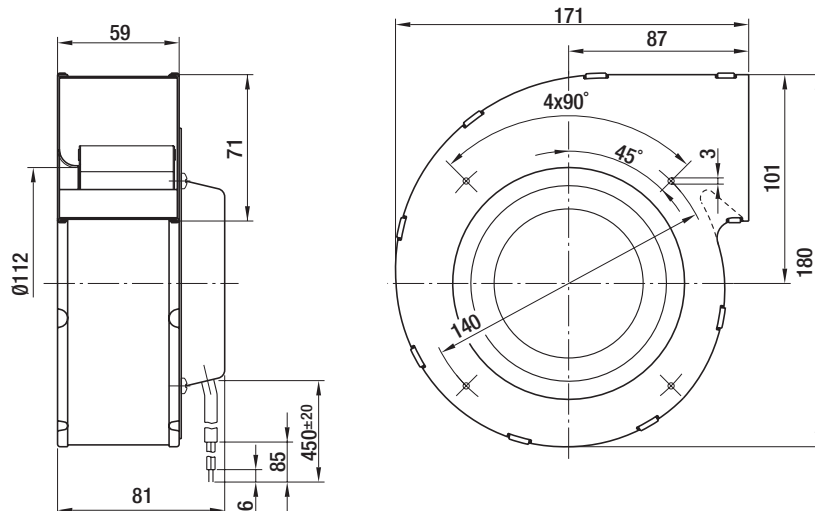
- **Technical features:**
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
- **Cable exit:** Lateral
- **Protection class:** I
- **Product conforming to standard:** EN 60950-1
- **Approvals:**  (24 VDC) UL, CSA,  (48 VDC)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

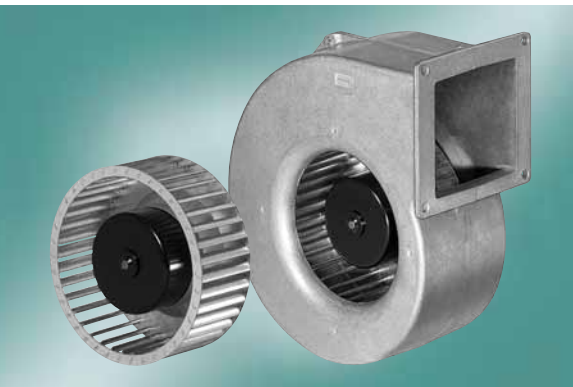


Brass lead tips



EC centrifugal fans and blowers

single inlet, Ø 140

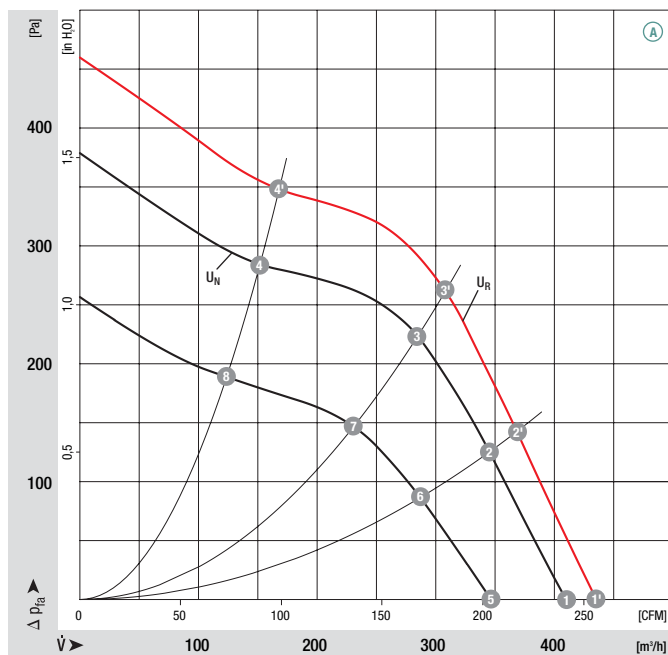


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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)

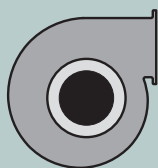
subject to alterations

Curves

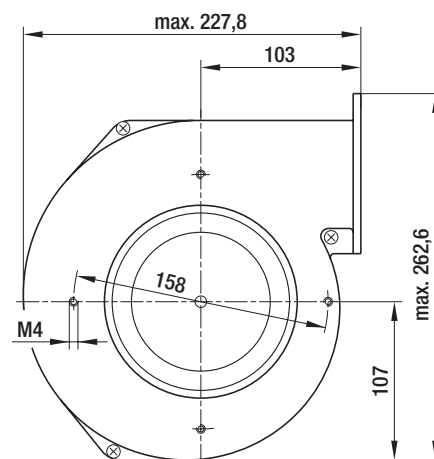
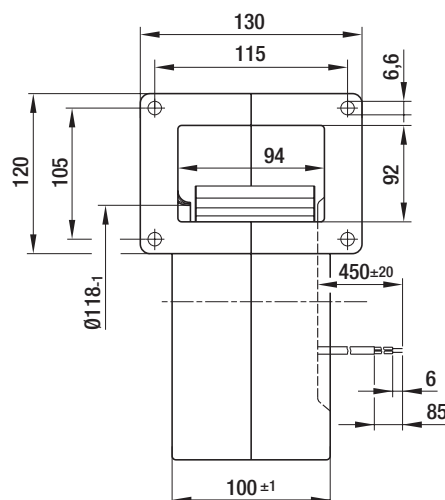
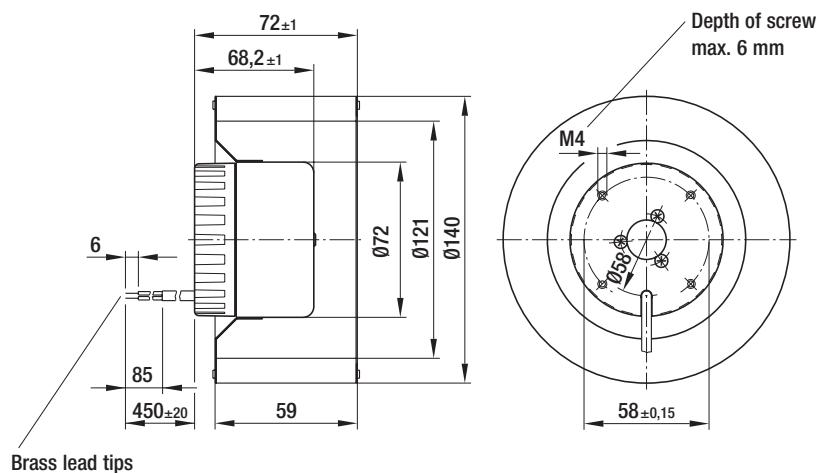


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	1850	65	64	—
(A) 2'	2020	61	61	50
(A) 3'	2200	57	59	54
(A) 4'	2550	43	60	40
(A) 1	1750	54	63	—
(A) 2	1900	50	59	51
(A) 3	2030	45	58	54
(A) 4	2310	32	58	40
(A) 5	1500	34	60	—
(A) 6	1580	29	56	50
(A) 7	1670	25	54	53
(A) 8	1880	19	53	41

- **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

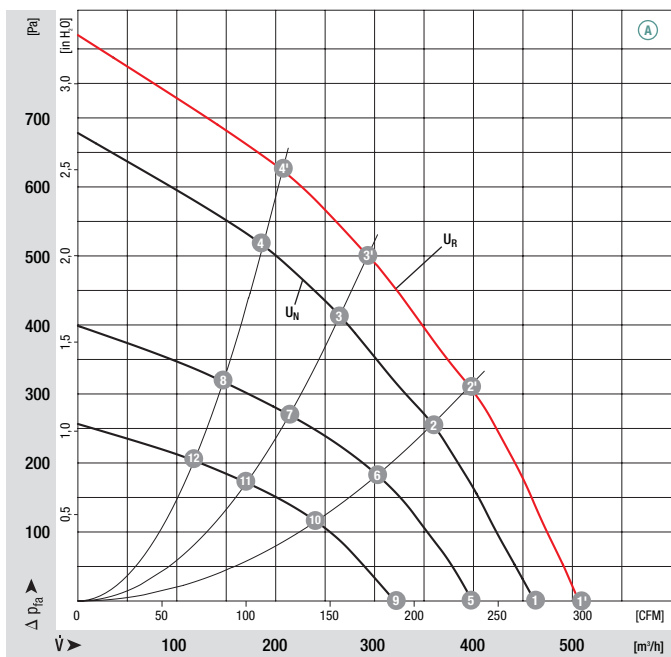


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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)

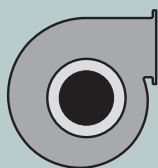


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{tL} [%]
(A) 1'	2400	140	70	—
(A) 2'	2650	130	67	45
(A) 3'	3000	110	66	49
(A) 4'	3300	100	67	45
(A) 1	2200	100	68	—
(A) 2	2445	90	65	46
(A) 3	2750	84	64	49
(A) 4	3025	77	65	45
(A) 5	1890	68	63	—
(A) 6	2075	57	60	46
(A) 7	2250	48	61	49
(A) 8	2335	41	61	45
(A) 9	1520	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
 - **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)
- Tach output
 - Reverse polarity and locked-rotor protection

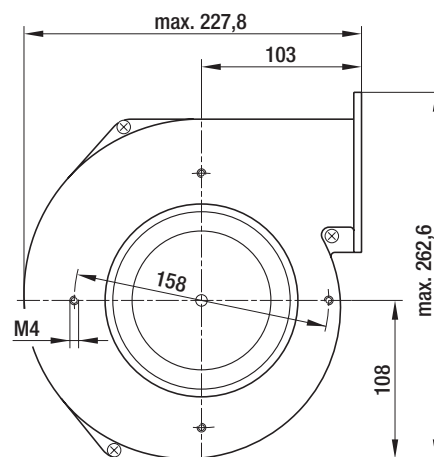
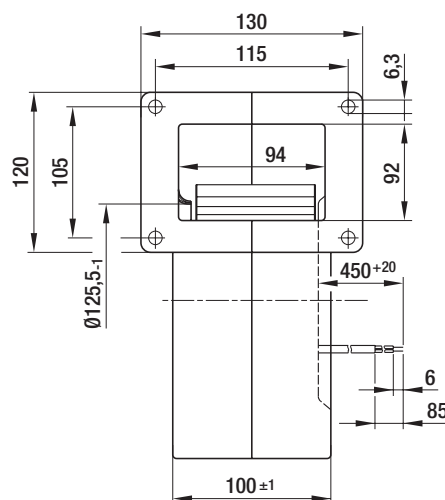
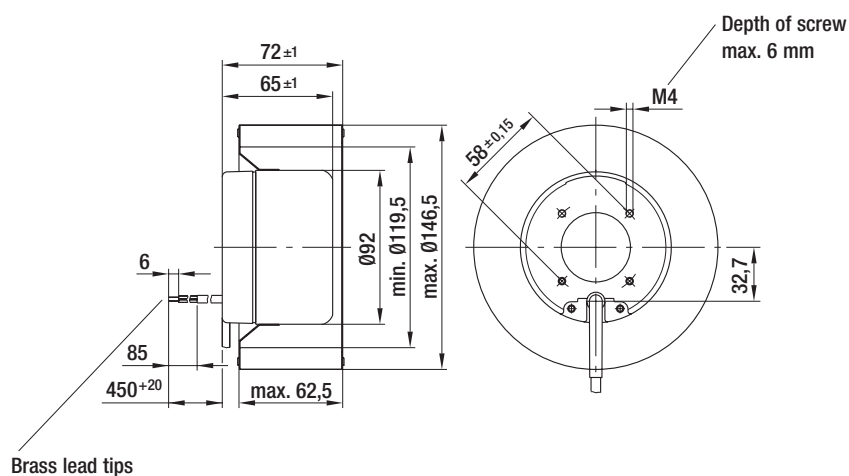


Mass of centrifugal fan



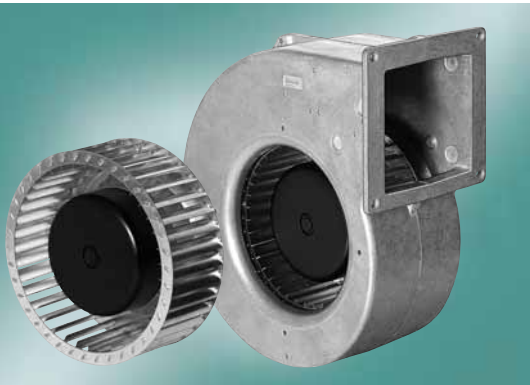
Mass of centrifugal blower

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

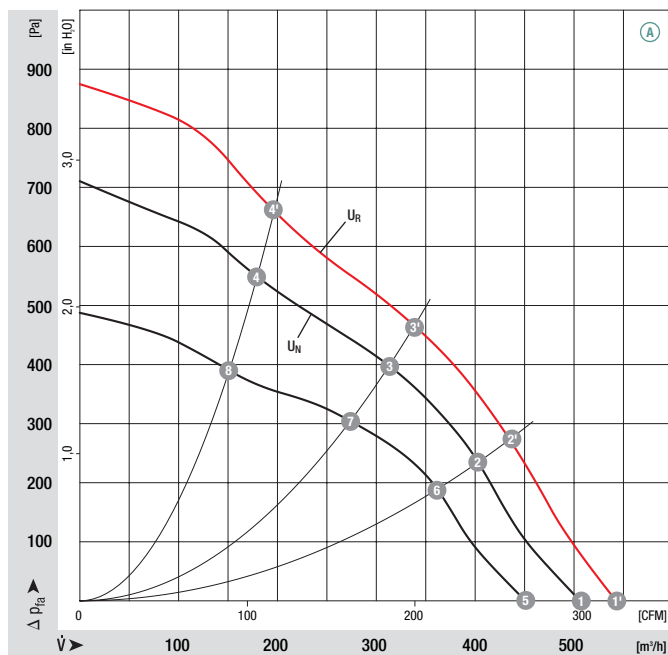


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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)

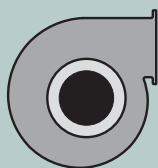
subject to alterations

Curves

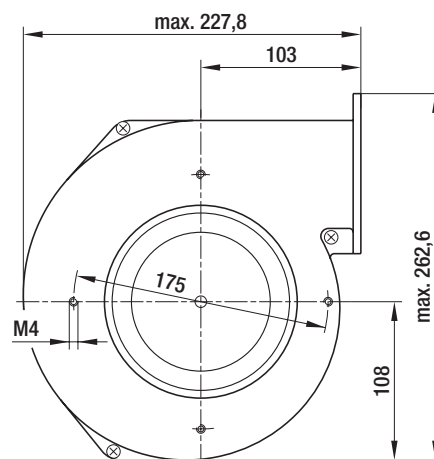
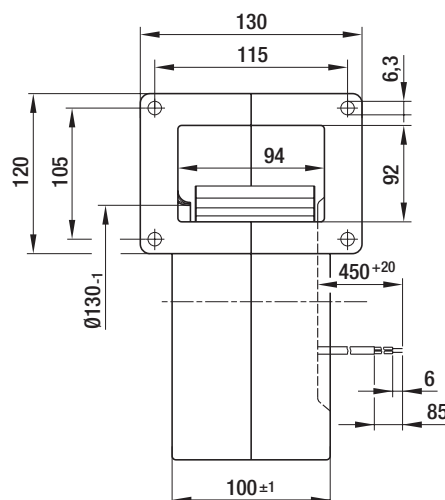
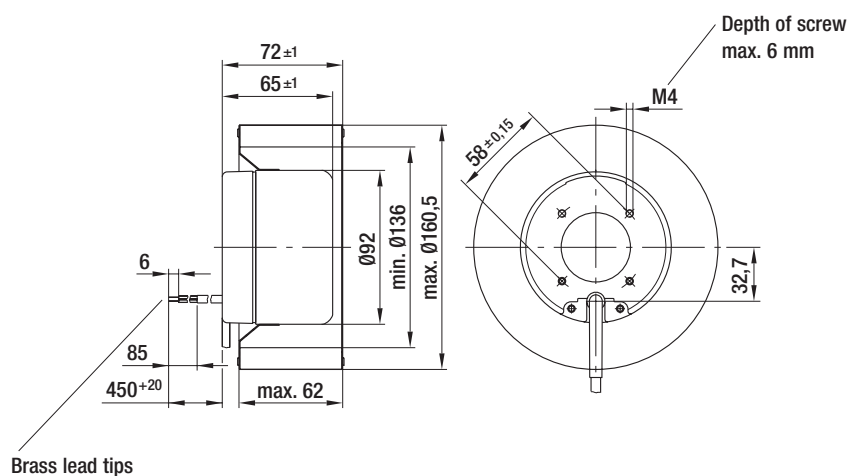


	n [rpm]	P ₁ [W]	Lp _A [dB(A)]	η _{HL} [%]
(A) 1'	1890	134	68	—
(A) 2'	2200	118	67	52
(A) 3'	2500	110	67	57
(A) 4'	2900	102	69	52
(A) 1	1750	105	67	—
(A) 2	2030	95	66	52
(A) 3	2270	90	65	57
(A) 4	2550	81	67	44
(A) 5	1580	72	62	—
(A) 6	1810	66	62	52
(A) 7	2000	58	62	57
(A) 8	2200	48	63	54

- **Technical features:**
 - Control input 0-10 VDC / PWM
- **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
- Tach output
- Reverse polarity and locked-rotor protection

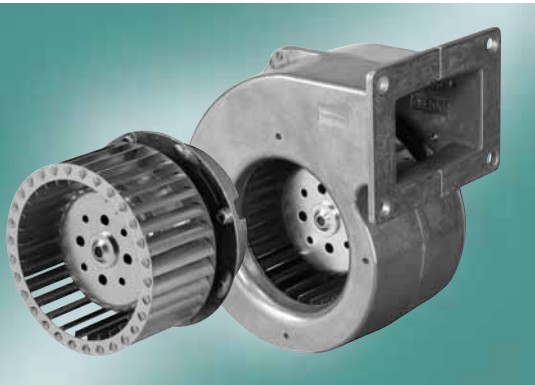
Mass of
centrifugal fanMass of
centrifugal blower

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

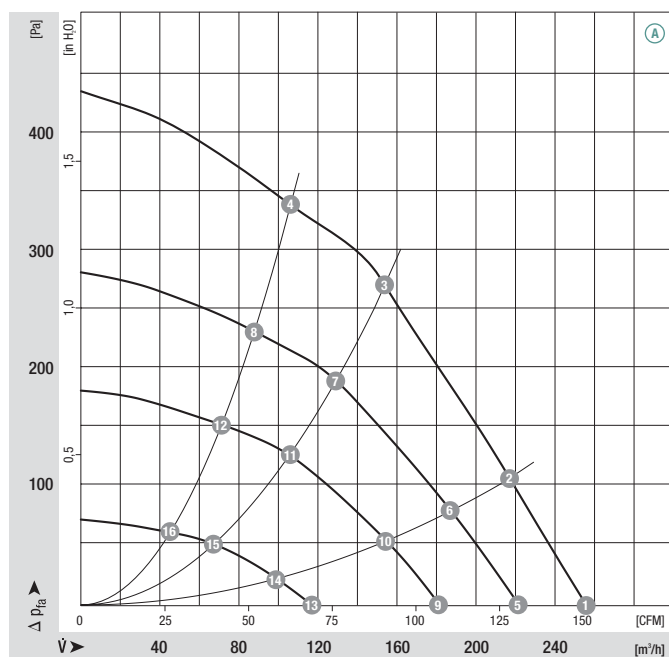
Nominal data

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

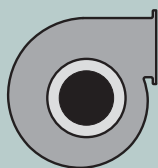


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2960	60	0.90	64	—
Ⓐ 2	3100	53	0.80	62	42
Ⓐ 3	3370	42	0.60	60	44
Ⓐ 4	3560	34	0.50	59	32
Ⓐ 5	2570	38	0.55	61	—
Ⓐ 6	2660	34	0.50	60	42
Ⓐ 7	2820	25	0.40	57	44
Ⓐ 8	2920	19	0.30	55	32
Ⓐ 9	2150	23	0.35	56	—
Ⓐ 10	2200	20	0.30	55	42
Ⓐ 11	2320	16	0.25	52	44
Ⓐ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

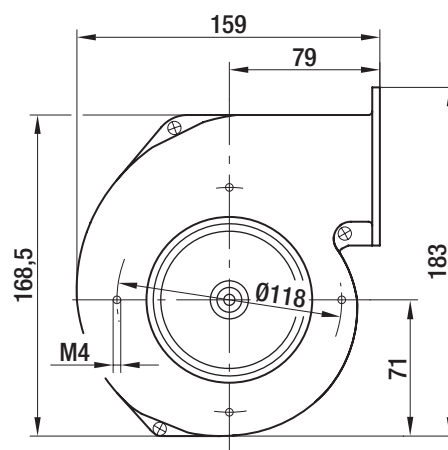
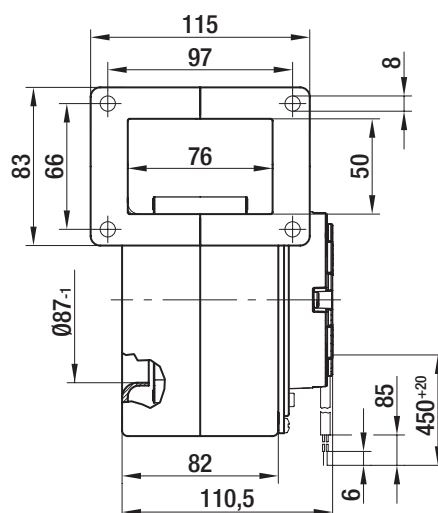
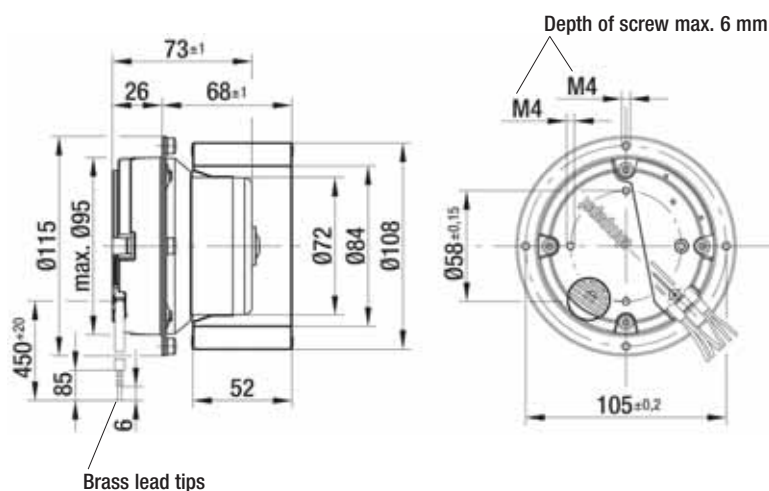
kg

R3G 108-AB15 -02

1.0

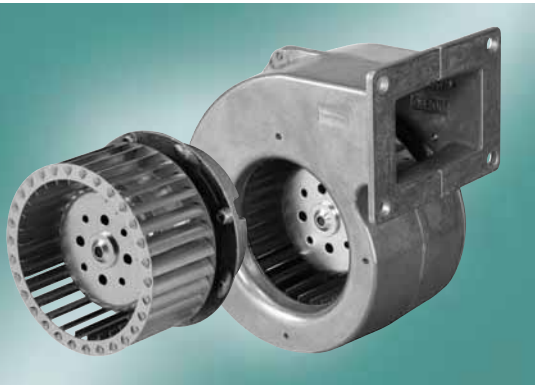
G3G 108-BB15 -02

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

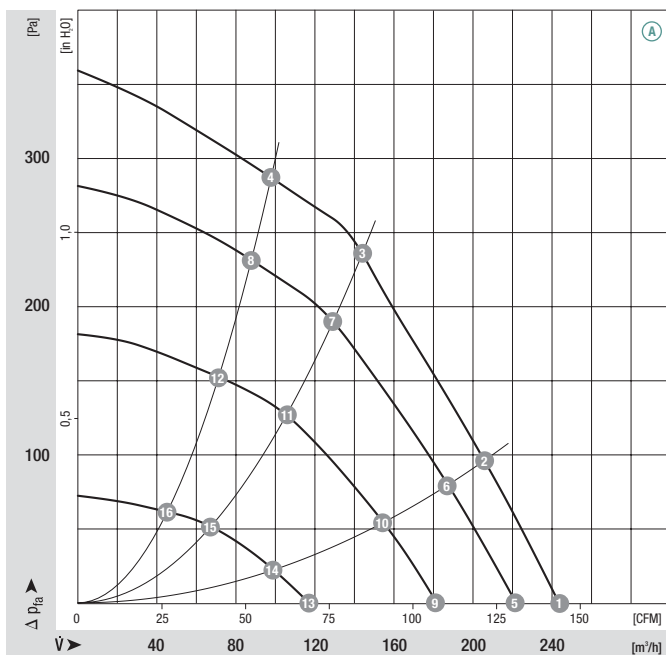
Nominal data

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

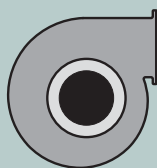


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2800	50	0.38	64	—
Ⓐ 2	2950	44	0.35	62	42
Ⓐ 3	3120	33	0.25	60	44
Ⓐ 4	3260	25	0.20	59	32
Ⓐ 5	2570	38	0.30	61	—
Ⓐ 6	2660	34	0.25	60	42
Ⓐ 7	2820	25	0.20	57	44
Ⓐ 8	2920	19	0.15	55	32
Ⓐ 9	2150	23	0.20	56	—
Ⓐ 10	2200	20	0.15	55	42
Ⓐ 11	2320	16	0.15	52	44
Ⓐ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

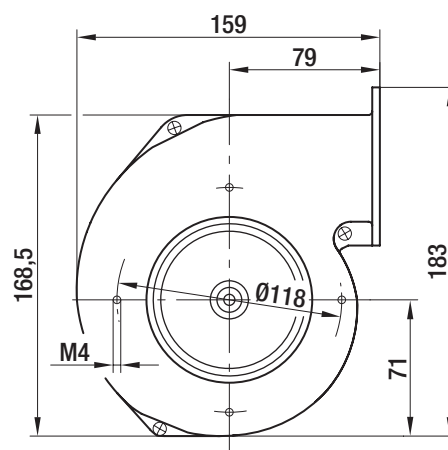
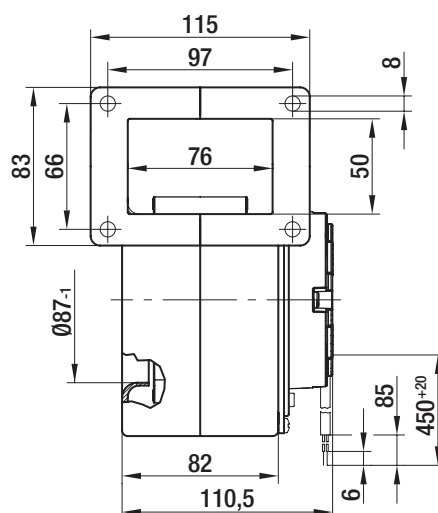
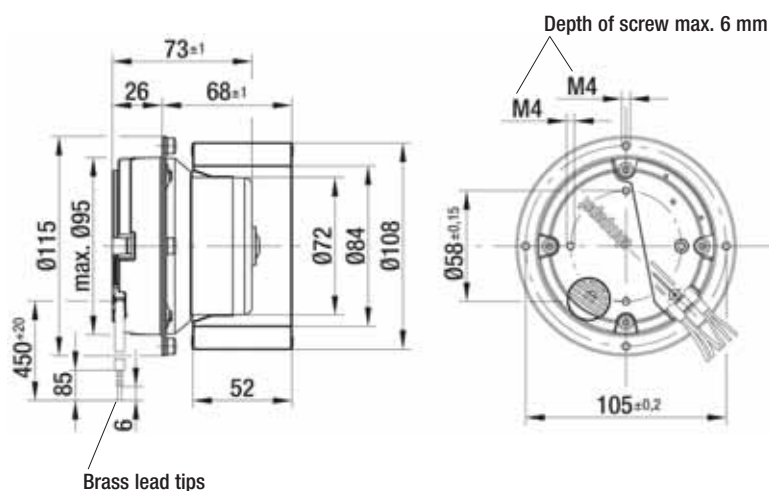
kg

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

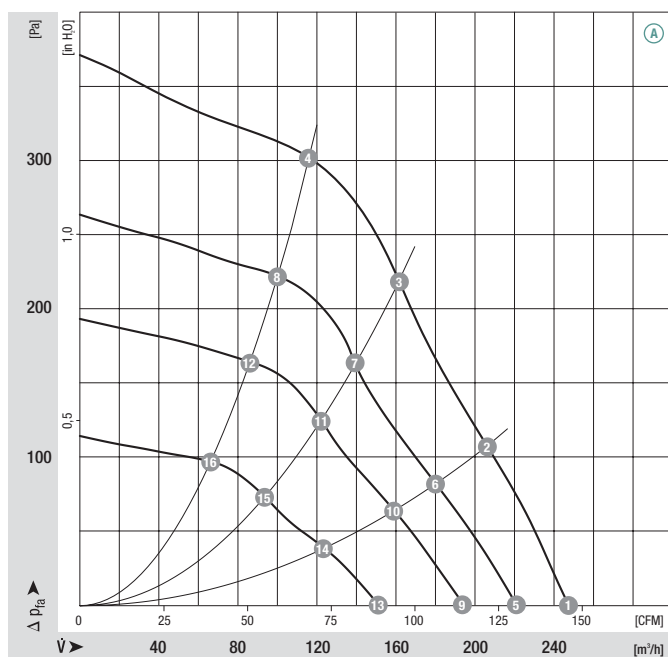
Nominal data

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

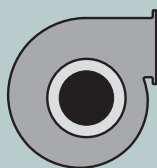


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2320	46	0.70	61	—
Ⓐ 2	2490	40	0.60	59	52
Ⓐ 3	2640	33	0.50	58	58
Ⓐ 4	2880	24	0.40	57	51
Ⓐ 5	2060	34	0.50	59	—
Ⓐ 6	2190	29	0.45	57	50
Ⓐ 7	2295	24	0.40	55	54
Ⓐ 8	2445	18	0.30	54	52
Ⓐ 9	1830	24	0.40	54	—
Ⓐ 10	1920	20	0.30	52	50
Ⓐ 11	2010	17	0.30	51	54
Ⓐ 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
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

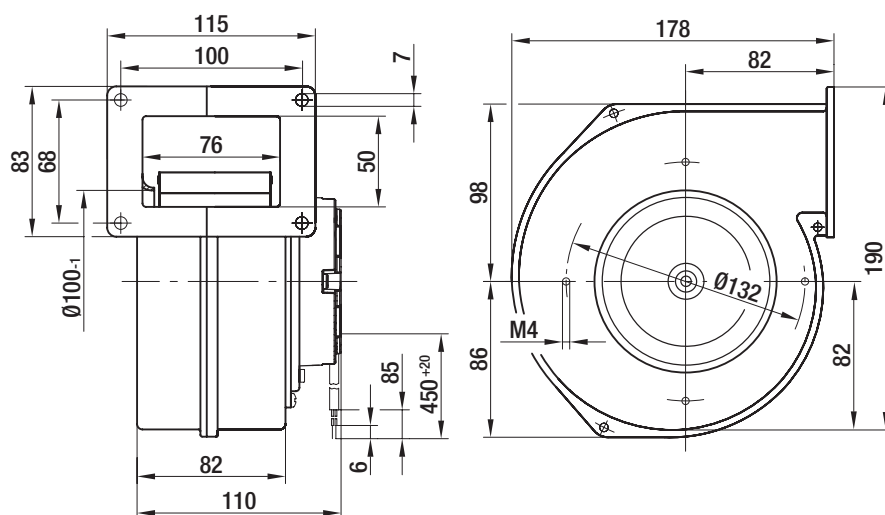
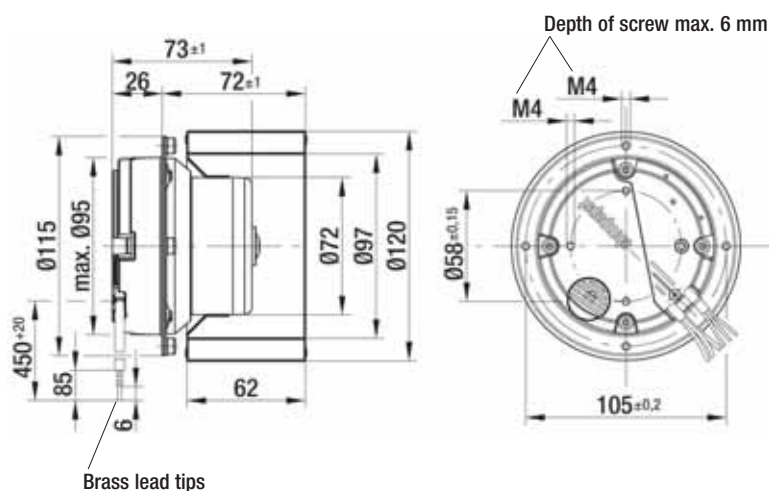
kg

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

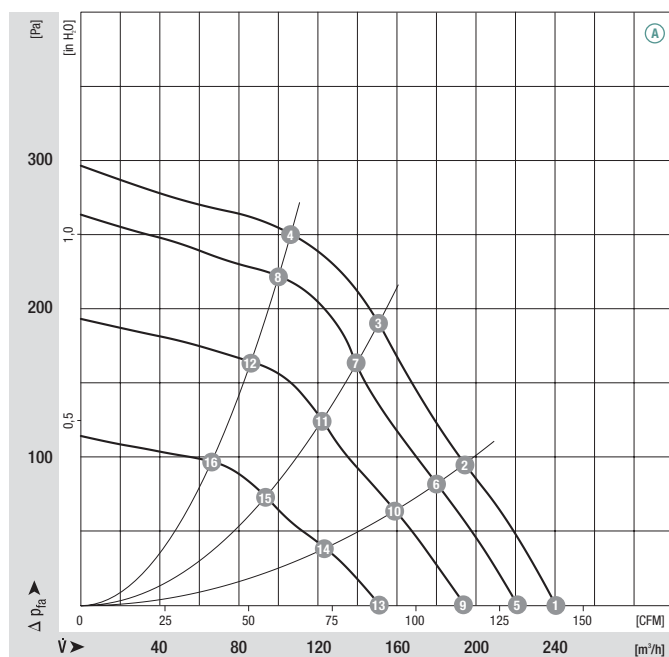
Nominal data

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

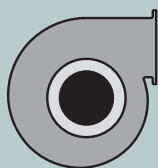


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	2200	41	0.30	62	—
Ⓐ 2	2320	34	0.25	59	51
Ⓐ 3	2440	28	0.20	57	55
Ⓐ 4	2600	20	0.15	57	49
Ⓐ 5	2060	34	0.25	59	—
Ⓐ 6	2190	29	0.20	57	50
Ⓐ 7	2295	24	0.20	55	54
Ⓐ 8	2445	18	0.15	54	52
Ⓐ 9	1830	24	0.20	54	—
Ⓐ 10	1920	20	0.15	52	50
Ⓐ 11	2010	17	0.15	51	54
Ⓐ 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

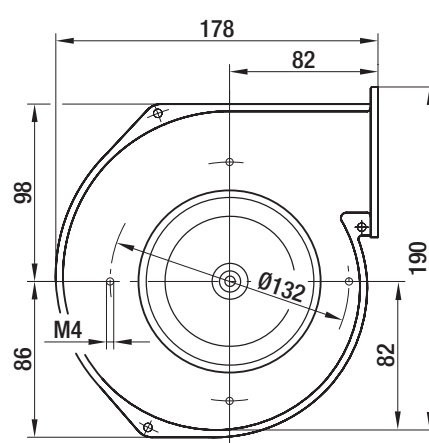
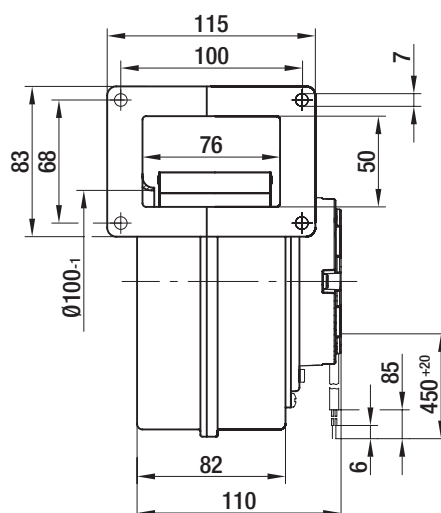
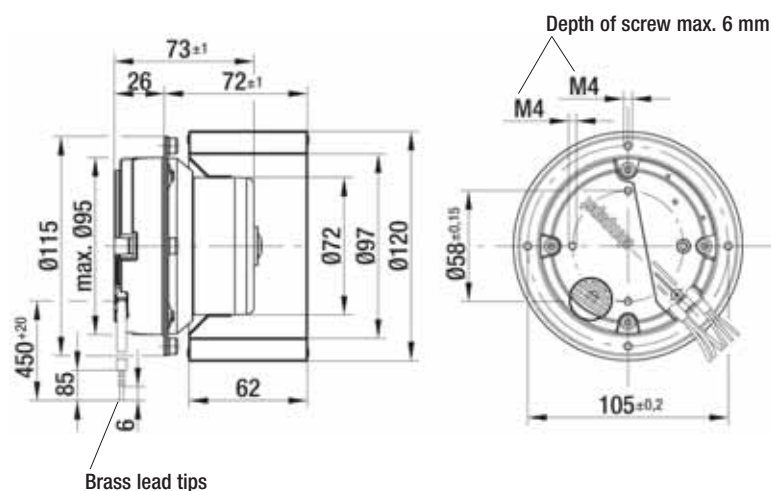
kg

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

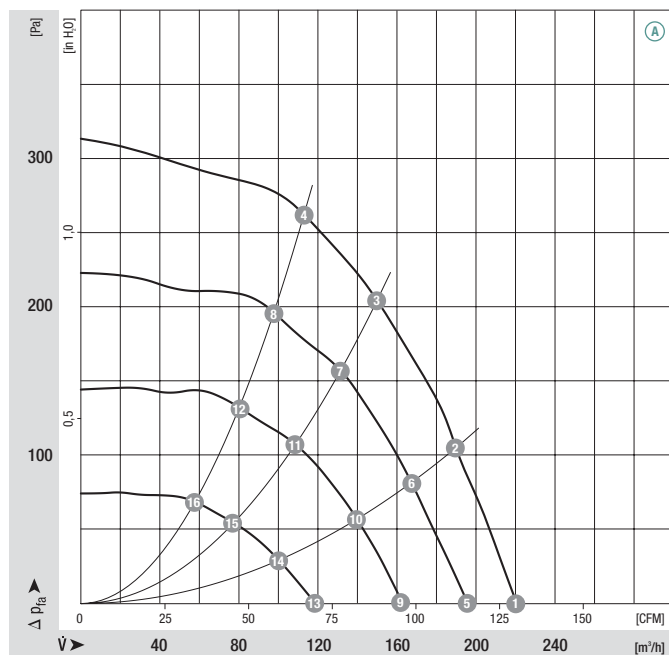
Nominal data

Type	Motor	Curve	Nominal voltage	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 133	M3G 055-BD	Ⓐ	1~ 115	50/60	2000	42	0.60	0	-25 to +60	H1)

subject to alterations

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

Curves

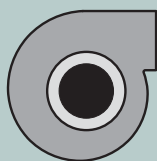


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2000	42	0.60	64	—
Ⓐ 2	2140	37	0.55	62	42
Ⓐ 3	2310	30	0.45	60	52
Ⓐ 4	2460	23	0.35	58	51
Ⓐ 5	1780	30	0.45	60	—
Ⓐ 6	1870	26	0.40	59	45
Ⓐ 7	1995	21	0.30	56	53
Ⓐ 8	2120	17	0.25	56	51
Ⓐ 9	1495	18	0.30	55	—
Ⓐ 10	1570	16	0.25	54	45
Ⓐ 11	1640	13	0.20	51	53
Ⓐ 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 without flange

Centrifugal fan

kg

Centrifugal blower without flange

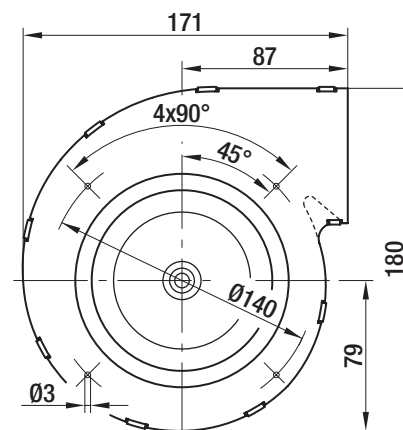
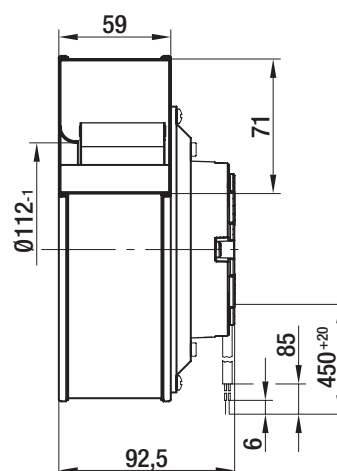
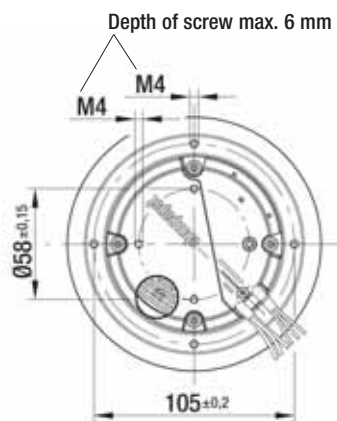
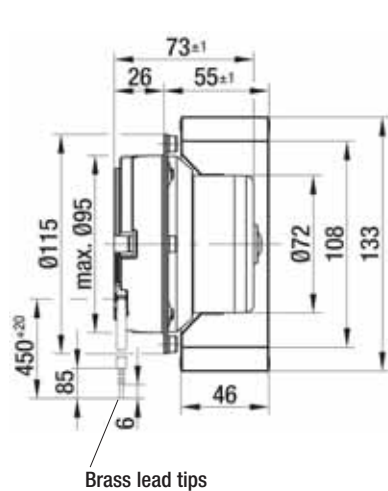
kg

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

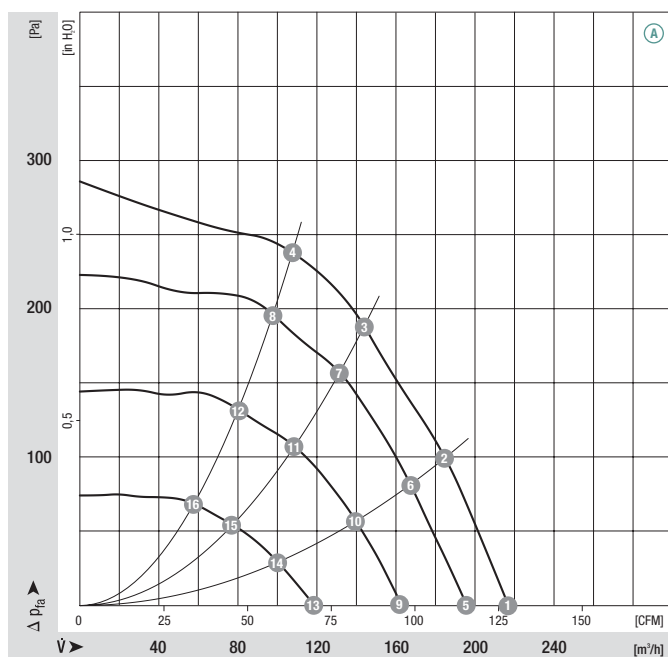
Nominal data

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

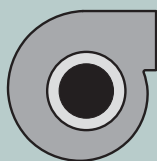


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1925	38	0.30	63	—
Ⓐ 2	2070	34	0.25	62	45
Ⓐ 3	2210	27	0.20	60	53
Ⓐ 4	2330	21	0.15	59	51
Ⓐ 5	1780	30	0.25	60	—
Ⓐ 6	1870	26	0.20	59	45
Ⓐ 7	1995	21	0.15	56	53
Ⓐ 8	2120	17	0.15	56	51
Ⓐ 9	1495	18	0.15	55	—
Ⓐ 10	1570	16	0.15	54	45
Ⓐ 11	1640	13	0.10	51	53
Ⓐ 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 fan



Mass of centrifugal blower without flange

Centrifugal fan

kg

Centrifugal blower without flange

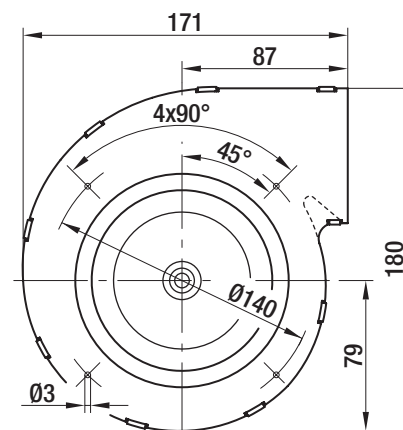
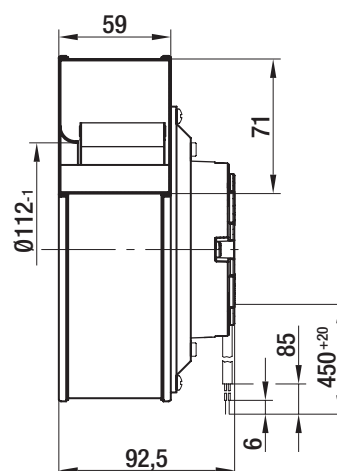
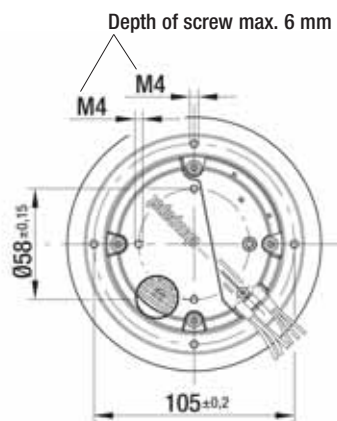
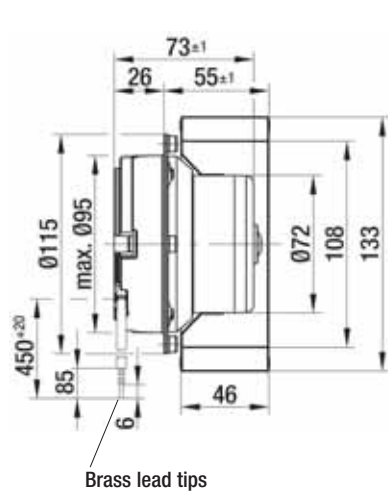
kg

R3G 133-AD05 -02

1.0

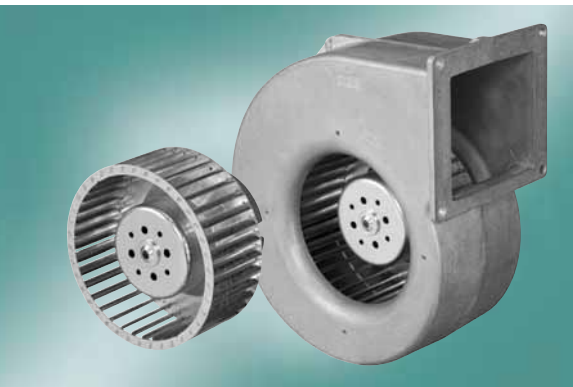
G3G 133-DD05 -02

1.5



EC centrifugal fan and blowers

single inlet, Ø 140

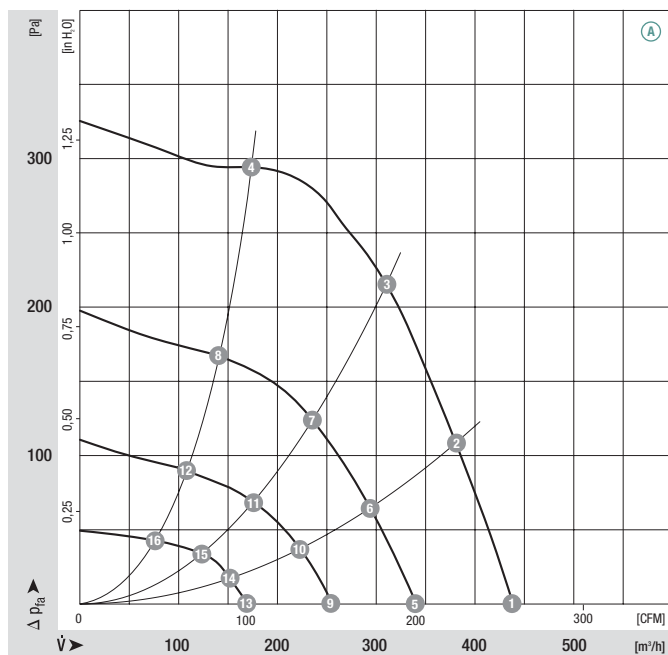


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate 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

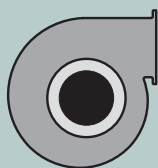


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	1790	70	1.00	63	—
Ⓐ 2	1900	63	1.00	61	46
Ⓐ 3	2040	53	0.80	60	61
Ⓐ 4	2250	36	0.50	58	55
Ⓐ 5	1410	33	0.60	58	—
Ⓐ 6	1500	30	0.55	56	46
Ⓐ 7	1600	25	0.45	54	56
Ⓐ 8	1790	18	0.30	53	48
Ⓐ 9	1060	14	0.35	51	—
Ⓐ 10	1105	13	0.30	50	46
Ⓐ 11	1210	11	0.25	47	56
Ⓐ 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

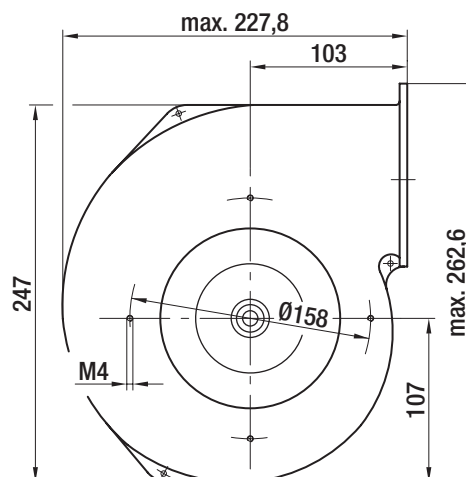
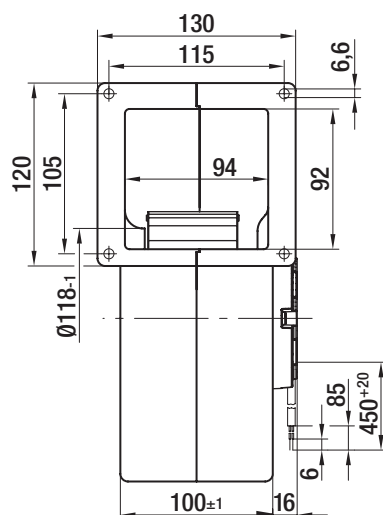
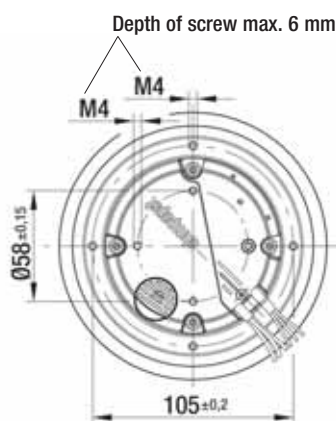
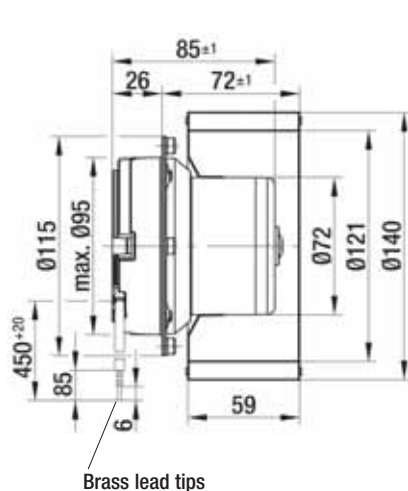
kg

R3G 140-AV19 -02

1.3

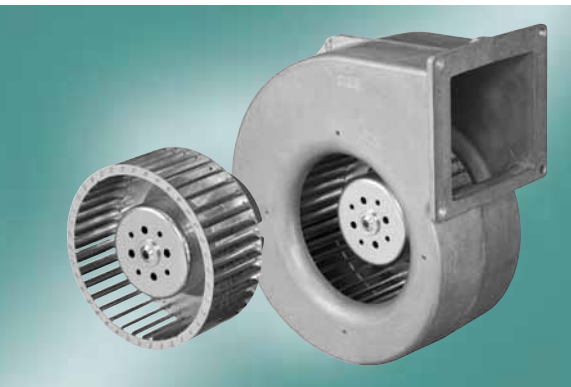
G3G 140-AV19 -02

2.6



EC centrifugal fan and blowers

single inlet, Ø 140

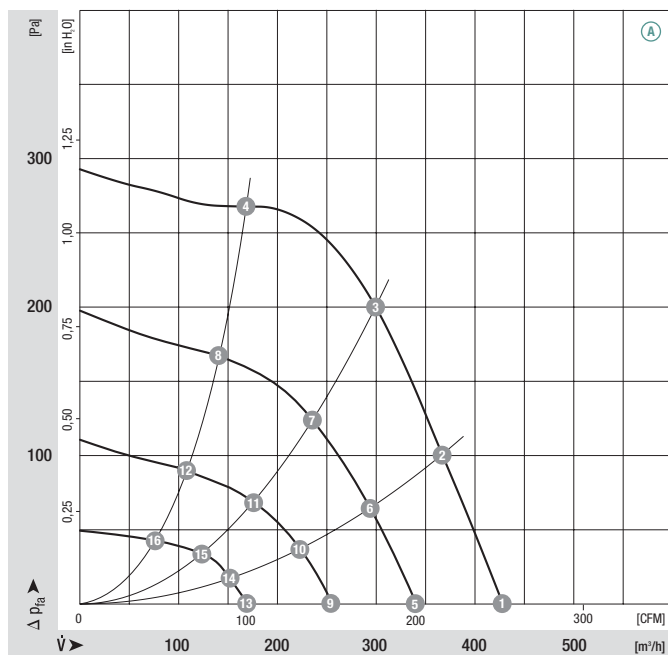


- **Material:** Housing: Die-cast aluminium
Impeller: Hot-dip galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate 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)

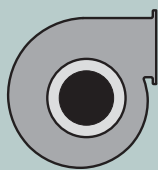
subject to alterations (1) Nominal data in operating point with maximum load and 230 VAC

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 fanMass of
centrifugal blower

Centrifugal fan

kg

Centrifugal blower
with flange

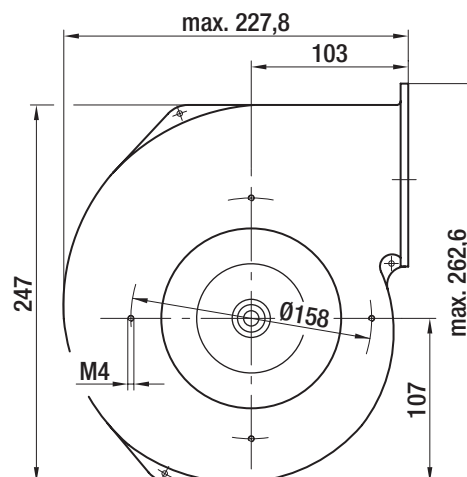
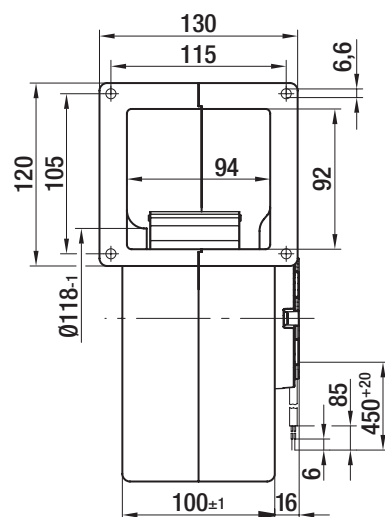
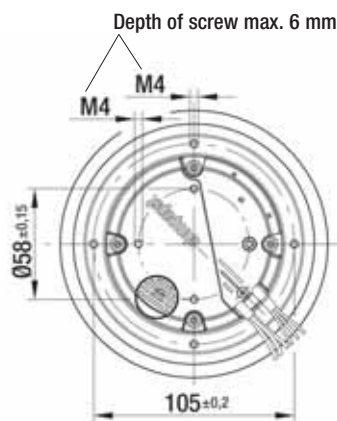
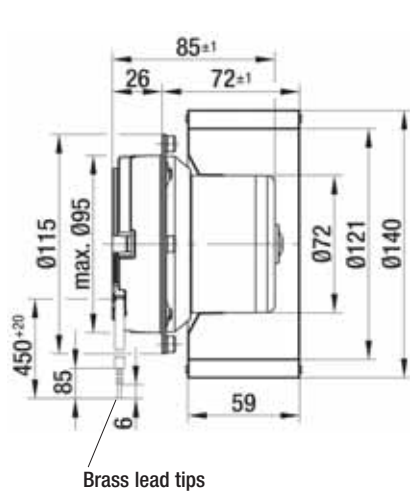
kg

R3G 140-AV03 -02

1.3

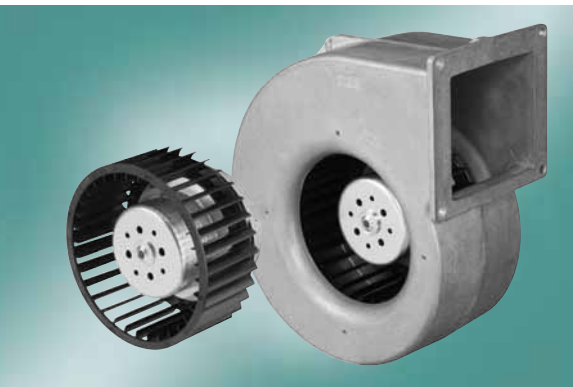
G3G 140-AV03 -02

2.6



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 140

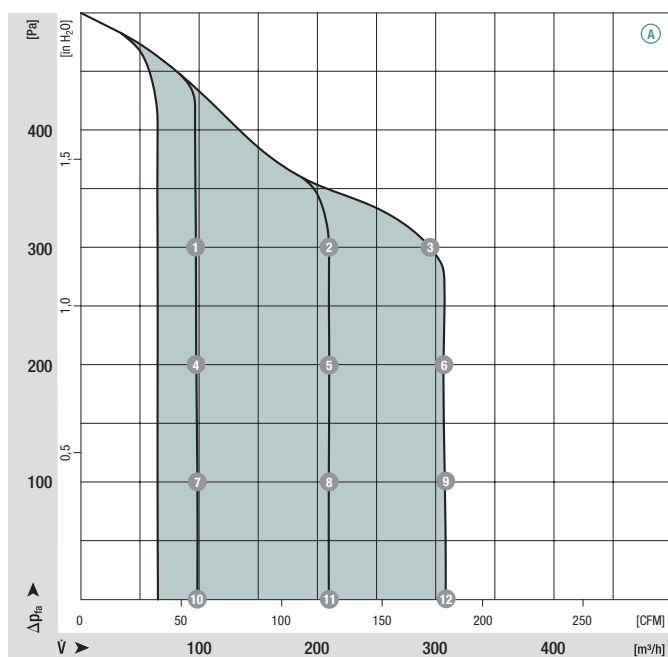


- **Material:** Housing: Die-cast aluminium
Impeller: PP plastic
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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

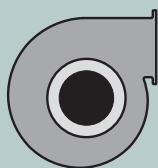


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2390	29	0.40	59	37
Ⓐ 2	2450	55	0.80	60	50
Ⓐ 3	2460	67	1.00	60	57
Ⓐ 4	1920	17	0.30	54	38
Ⓐ 5	1960	30	0.70	55	54
Ⓐ 6	2130	55	0.80	60	55
Ⓐ 7	1300	9	0.20	46	36
Ⓐ 8	1550	22	0.30	51	48
Ⓐ 9	1760	40	0.60	58	48
Ⓐ 10	440	3	0.10	33	—
Ⓐ 11	880	9	0.15	45	—
Ⓐ 12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

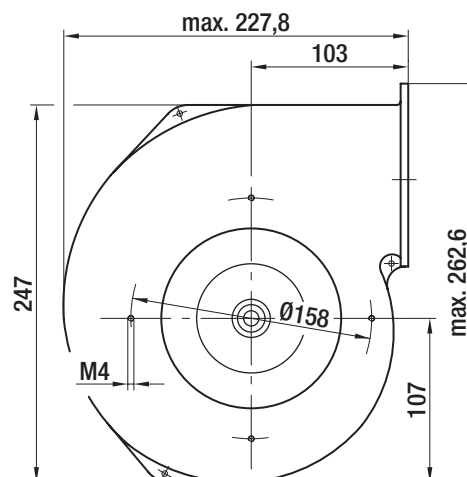
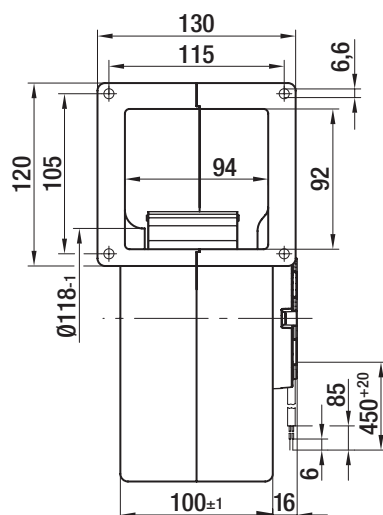
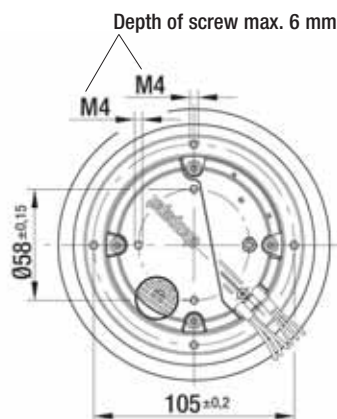
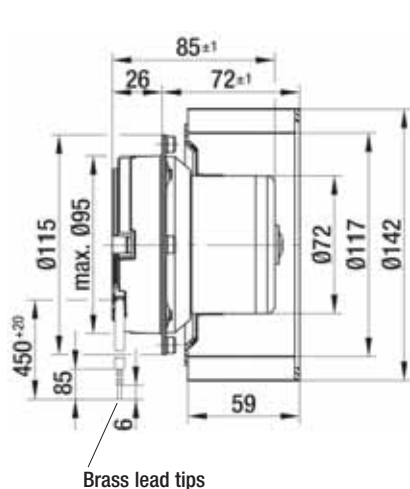
kg

R3G 140-AW21-12

1.3

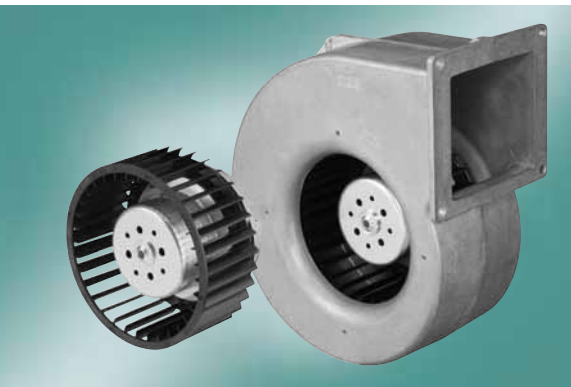
G3G 140-AW21-12

2.6



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 140

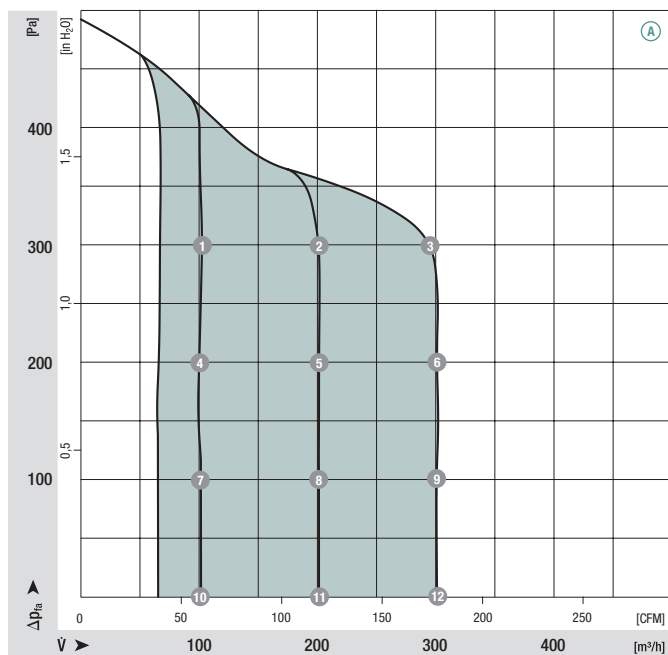


- **Material:** Housing: Die-cast aluminium
Impeller: PP plastic
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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

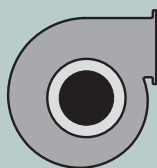


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2380	33	0.25	59	37
Ⓐ 2	2495	51	0.45	60	50
Ⓐ 3	2400	67	0.55	60	57
Ⓐ 4	2030	22	0.20	54	38
Ⓐ 5	2000	34	0.30	55	54
Ⓐ 6	2110	61	0.50	60	55
Ⓐ 7	1325	12	0.10	46	36
Ⓐ 8	1460	21	0.20	51	48
Ⓐ 9	1755	43	0.35	58	48
Ⓐ 10	480	3	0.05	33	—
Ⓐ 11	890	11	0.10	45	—
Ⓐ 12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

- **Technical features:**
 - Input for set value Lin 0-10 VDC / PWM
(1.7 V $\triangle$ 50 m³/h, 10 V $\triangle$ 300 m³/h)
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Locked-rotor protection
- **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)

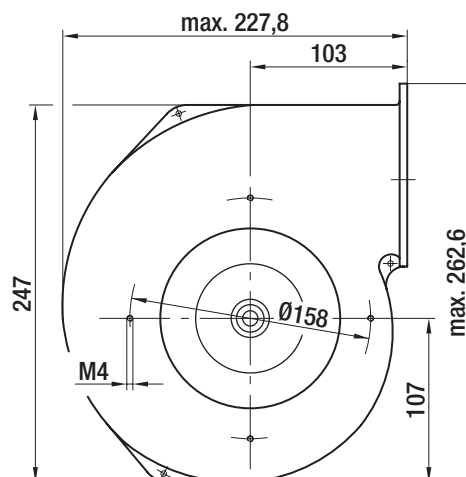
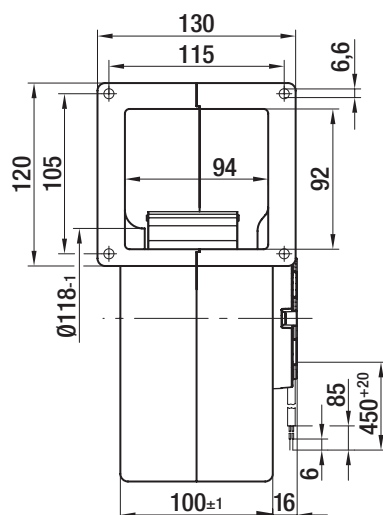
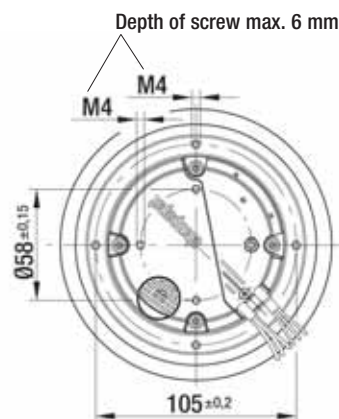
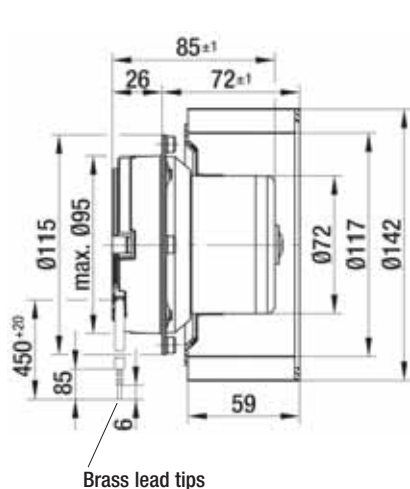


Mass of centrifugal fan



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

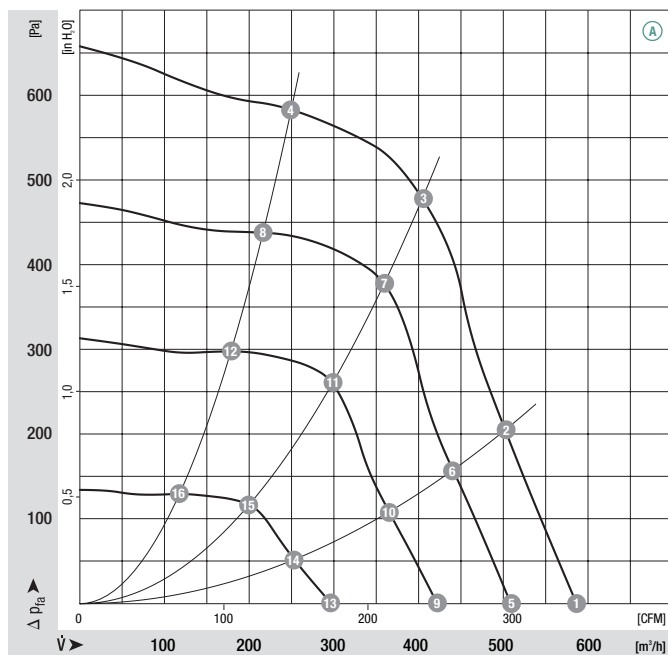


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor 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



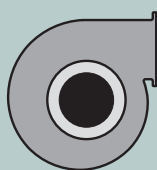
	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2430	168	2.10	71	—
Ⓐ 2	2720	167	2.10	70	40
Ⓐ 3	3040	159	2.00	68	55
Ⓐ 4	3230	119	1.50	67	50
Ⓐ 5	2120	110	1.40	67	—
Ⓐ 6	2390	109	1.40	66	40
Ⓐ 7	2700	109	1.40	65	56
Ⓐ 8	2800	77	1.00	63	49
Ⓐ 9	1770	66	0.90	63	—
Ⓐ 10	1980	66	0.90	62	39
Ⓐ 11	2230	65	0.90	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



Centrifugal fan

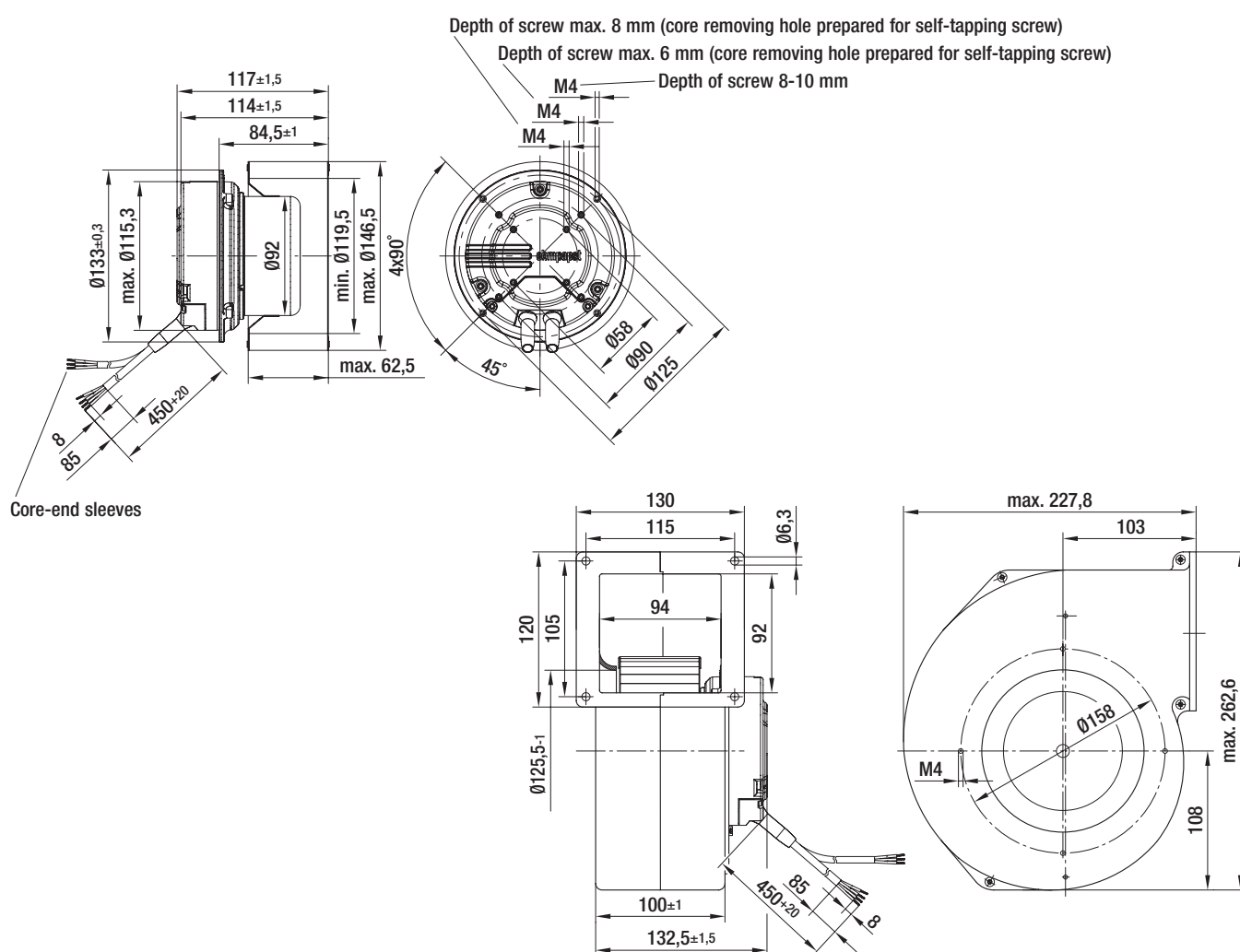
Mass of centrifugal fan



Centrifugal blower with flange

Mass of centrifugal blower

R3G 146-AB72 -01	2.0	G3G 146-AB72 -01	3.5
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EC centrifugal fan and blowers

single inlet, Ø 146



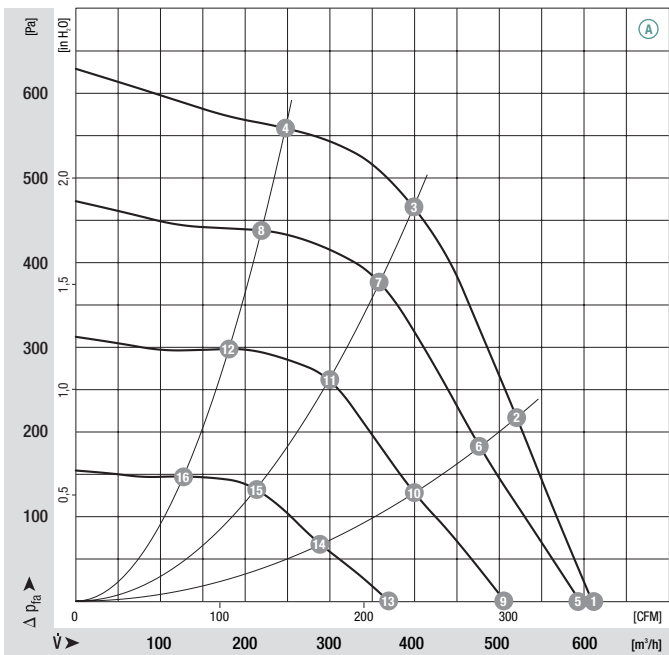
- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor 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

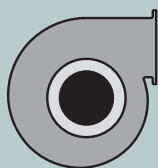


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2520	175	1.30	71	—
Ⓐ 2	2840	172	1.20	70	43
Ⓐ 3	3030	144	1.10	68	60
Ⓐ 4	3210	105	0.80	67	51
Ⓐ 5	2430	172	1.30	71	—
Ⓐ 6	2545	138	1.10	68	42
Ⓐ 7	2655	105	0.80	65	60
Ⓐ 8	2770	78	0.60	63	50
Ⓐ 9	2080	108	0.80	67	—
Ⓐ 10	2160	84	0.70	64	41
Ⓐ 11	2240	70	0.60	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

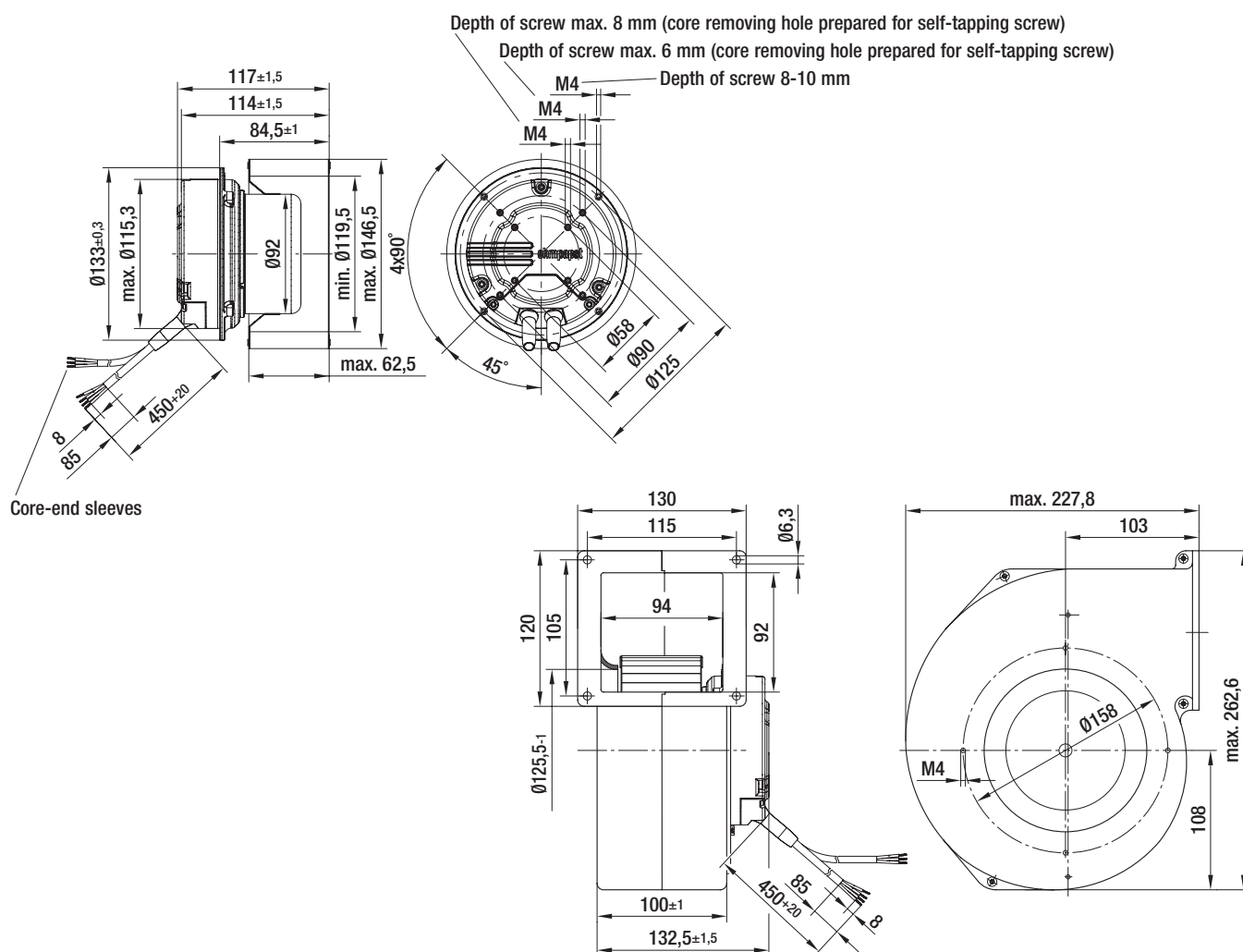
kg

R3G 146-AB54 -01

2.0

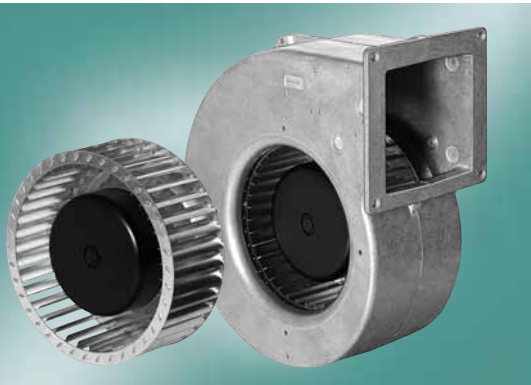
G3G 146-AB54 -01

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

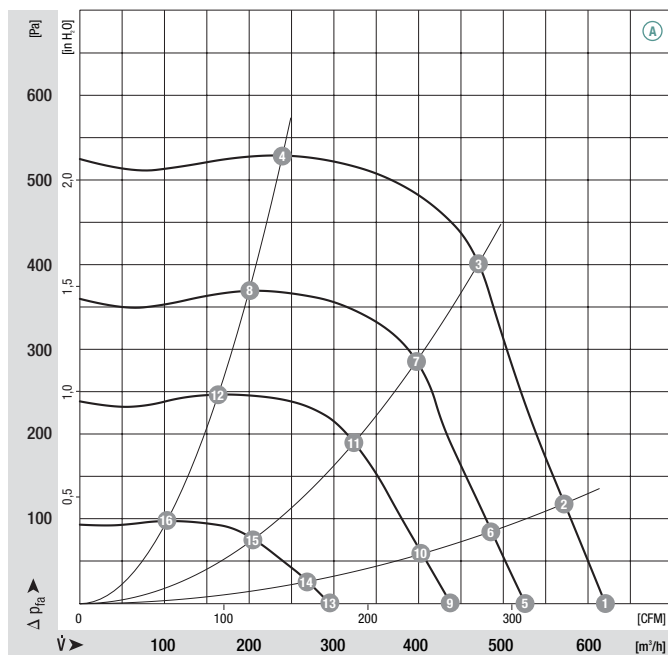
Nominal data

Type	Motor	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

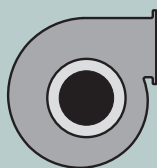


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2100	166	2.10	69	—
Ⓐ 2	2230	167	2.10	68	41
Ⓐ 3	2550	164	2.10	69	58
Ⓐ 4	2640	104	1.40	67	49
Ⓐ 5	1810	106	1.40	64	—
Ⓐ 6	1930	105	1.40	64	38
Ⓐ 7	2160	102	1.30	65	55
Ⓐ 8	2230	62	0.90	62	43
Ⓐ 9	1510	64	0.90	60	—
Ⓐ 10	1600	64	0.90	60	36
Ⓐ 11	1780	61	0.90	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

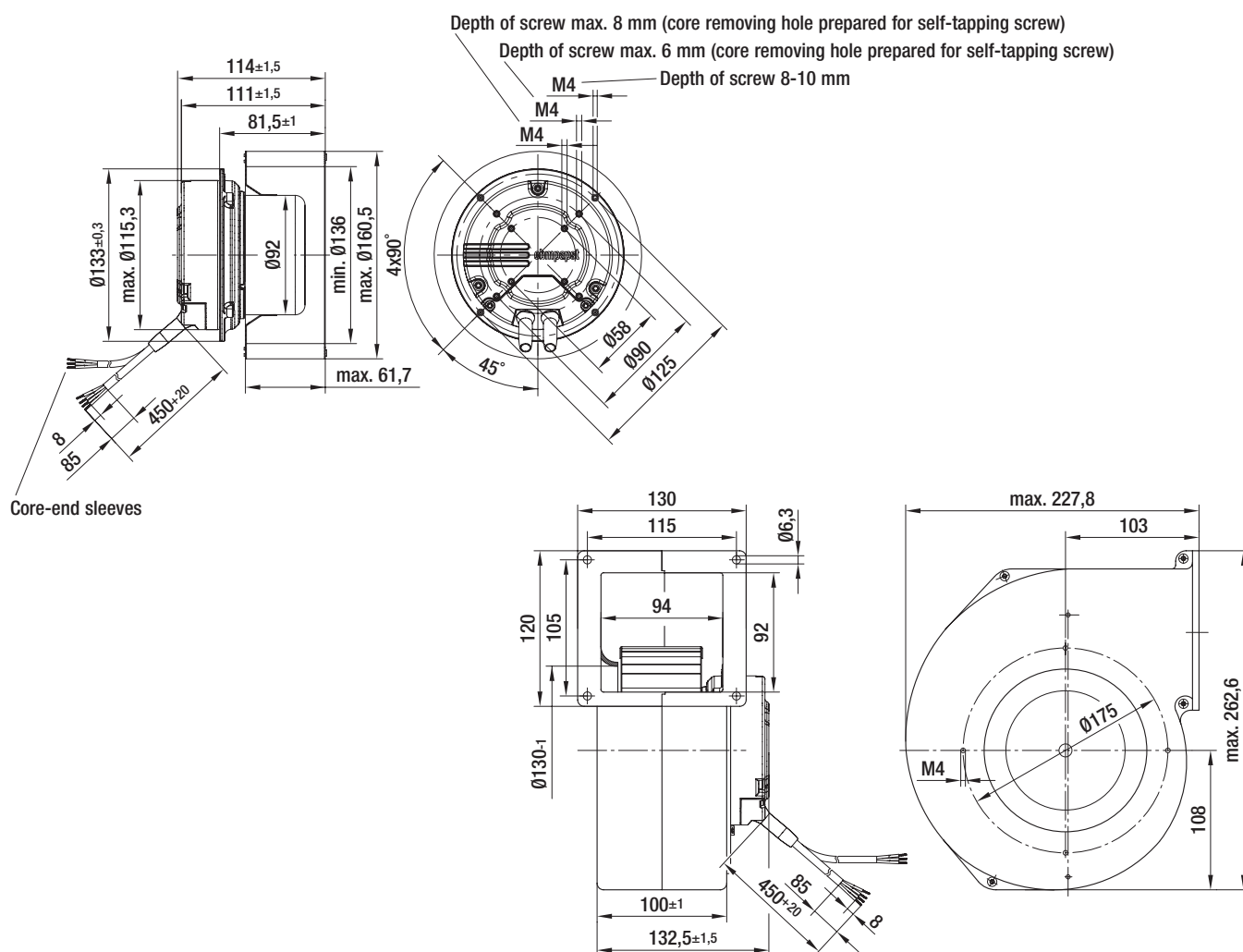
kg

R3G 160-AC70 -01

2.0

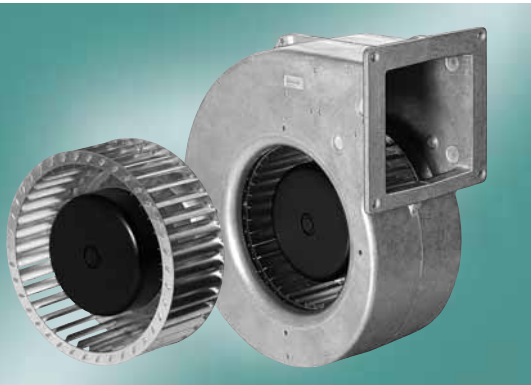
G3G 160-AC70 -01

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

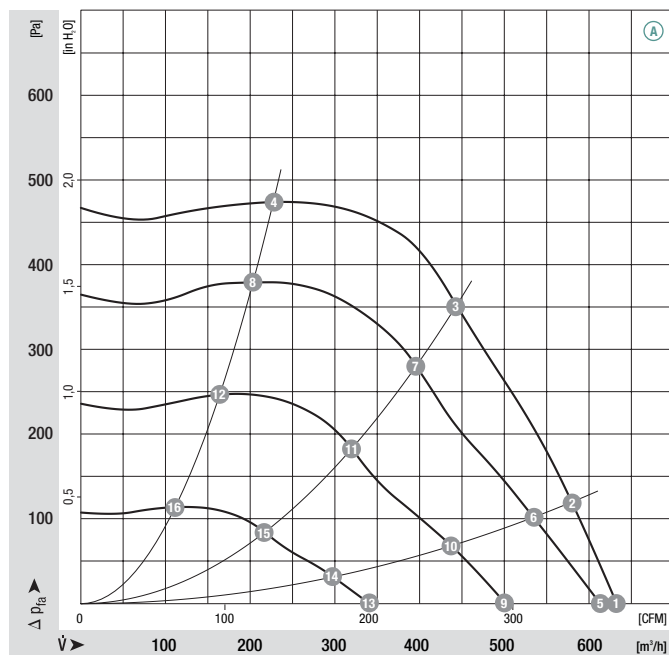
Nominal data

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

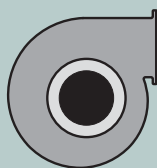


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	2150	170	1.25	70	—
Ⓐ 2	2320	172	1.30	70	39
Ⓐ 3	2450	139	1.10	68	41
Ⓐ 4	2540	91	0.70	67	46
Ⓐ 5	2070	153	1.10	69	—
Ⓐ 6	2090	138	1.00	67	40
Ⓐ 7	2150	101	0.80	65	56
Ⓐ 8	2205	68	0.60	63	45
Ⓐ 9	1700	91	0.70	63	—
Ⓐ 10	1730	80	0.60	62	37
Ⓐ 11	1760	60	0.50	59	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

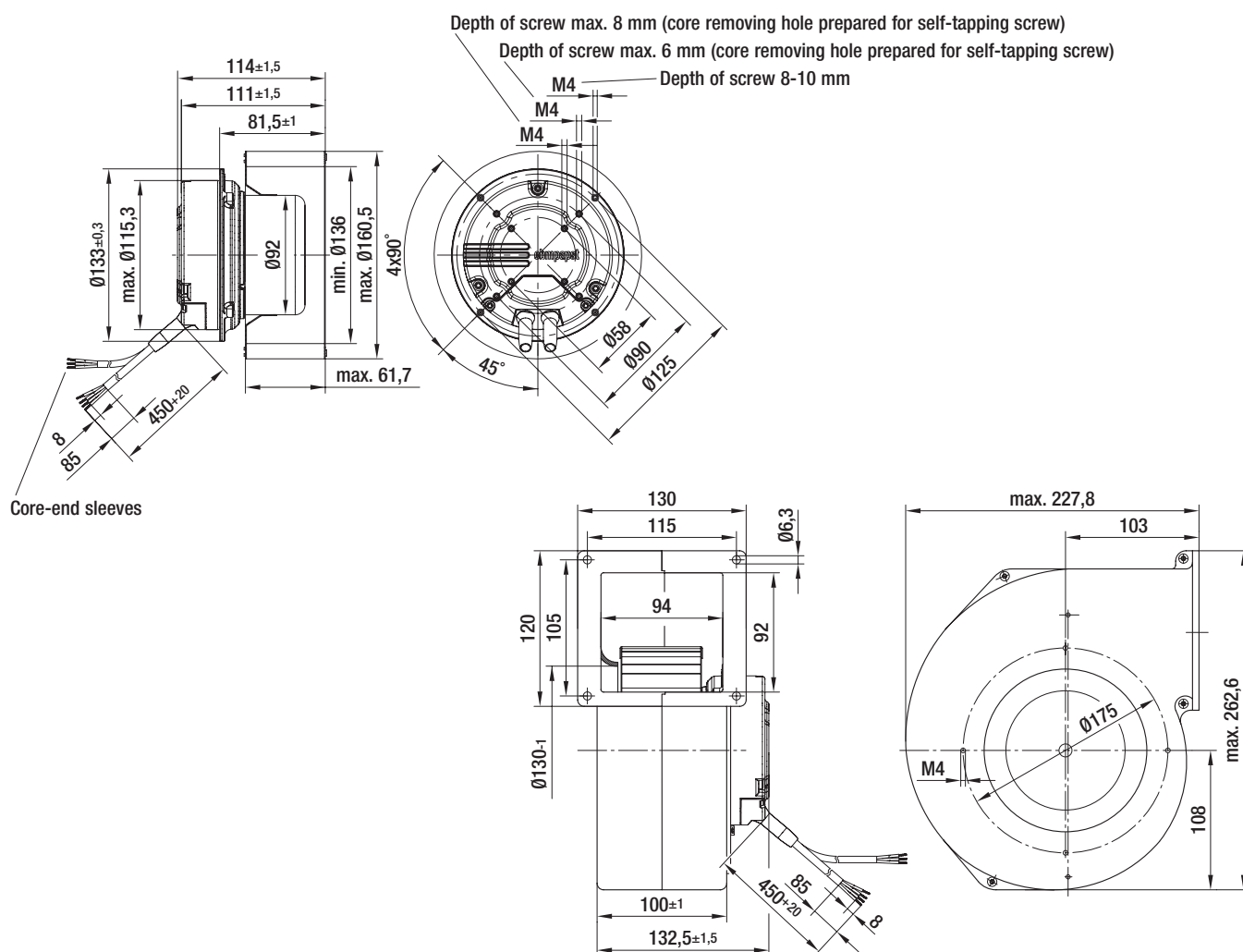
kg

R3G 160-AC50 -01

2.0

G3G 160-AC50 -01

3.5



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 160

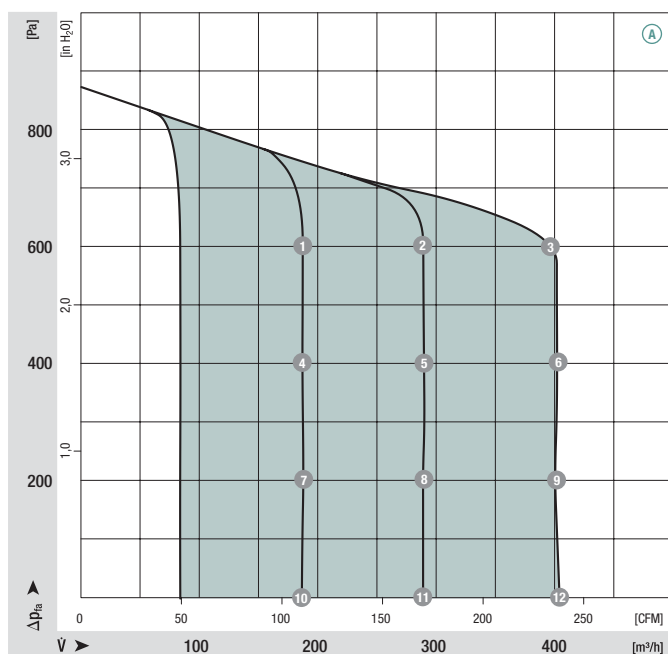


- **Material:** Housing: Die-cast aluminium
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor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

Nominal data		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. 604
*3G 160	M3G 074-BF	Ⓐ	1~ 230	50/60	1340	175	1.30	0	-25 to +60	J2)

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

Curves

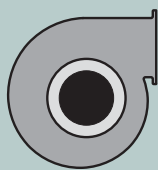


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2910	110	0.90	68	44
Ⓐ 2	2930	142	1.10	69	52
Ⓐ 3	2780	175	1.30	71	63
Ⓐ 4	2380	68	0.60	63	47
Ⓐ 5	2360	88	0.70	65	58
Ⓐ 6	2450	132	0.95	67	62
Ⓐ 7	1690	35	0.30	57	49
Ⓐ 8	1760	51	0.40	60	56
Ⓐ 9	2020	94	0.70	63	50
Ⓐ 10	610	9	0.10	40	—
Ⓐ 11	950	22	0.25	51	—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



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

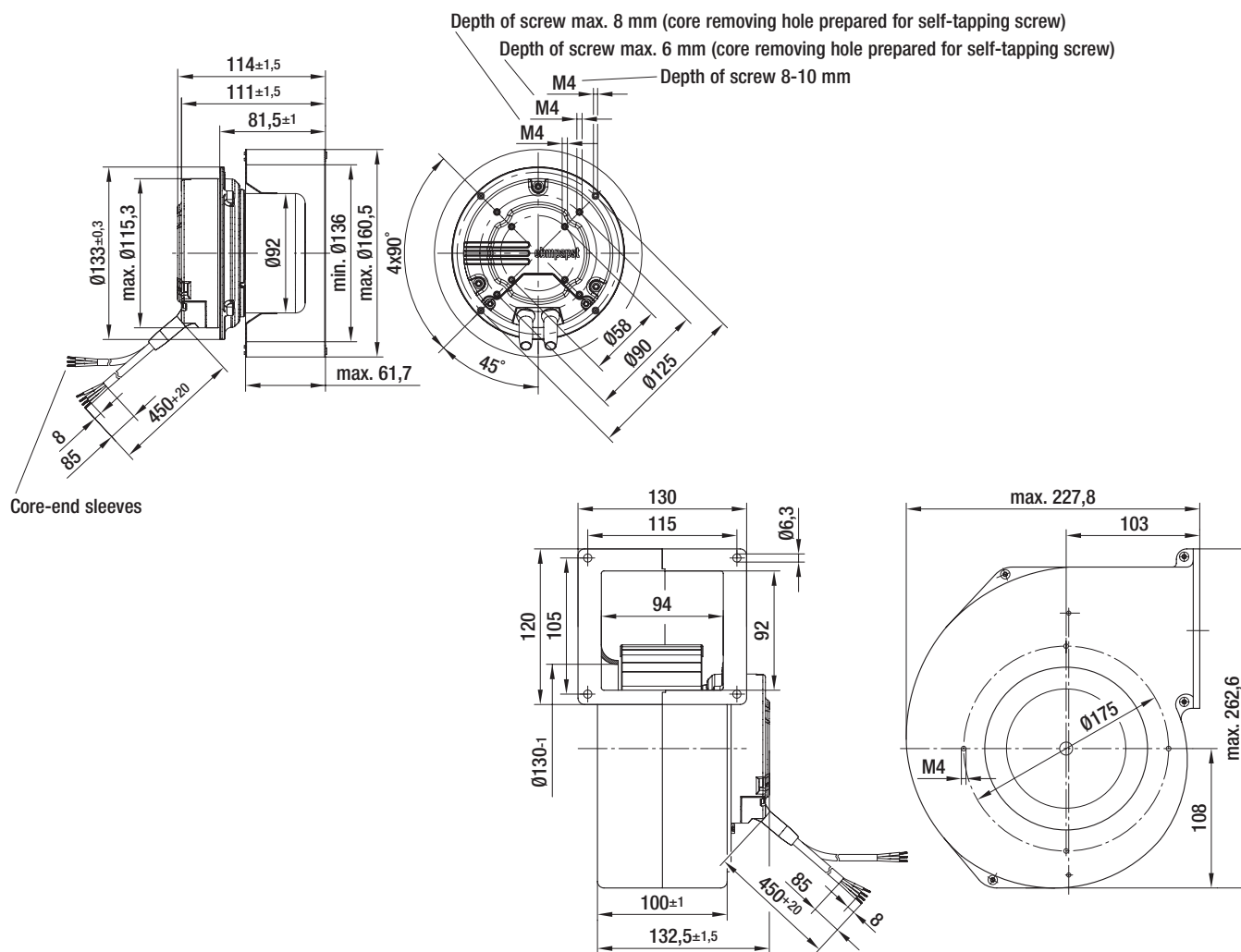
kg

R3G 160-AD52 -01

2.0

G3G 160-AD52 -01

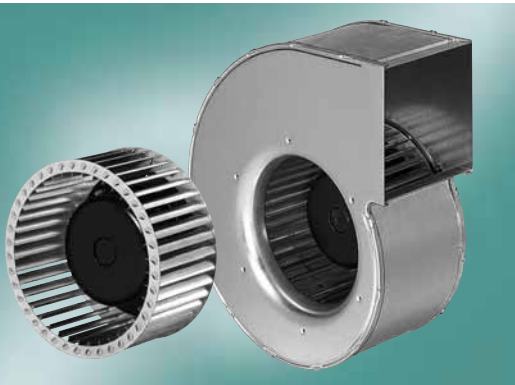
3.5



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



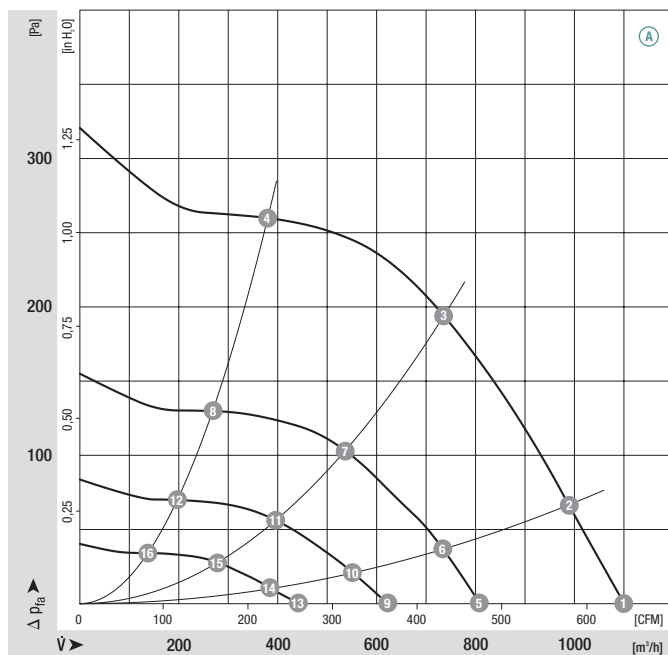
Nominal data

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

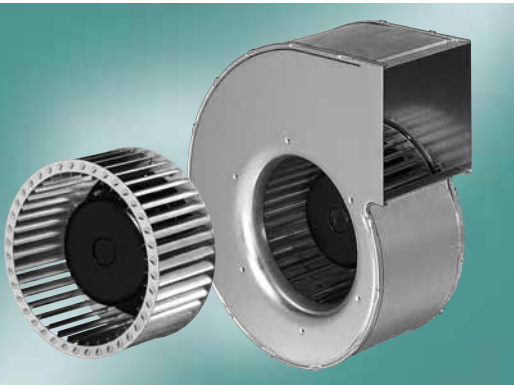
Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 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

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

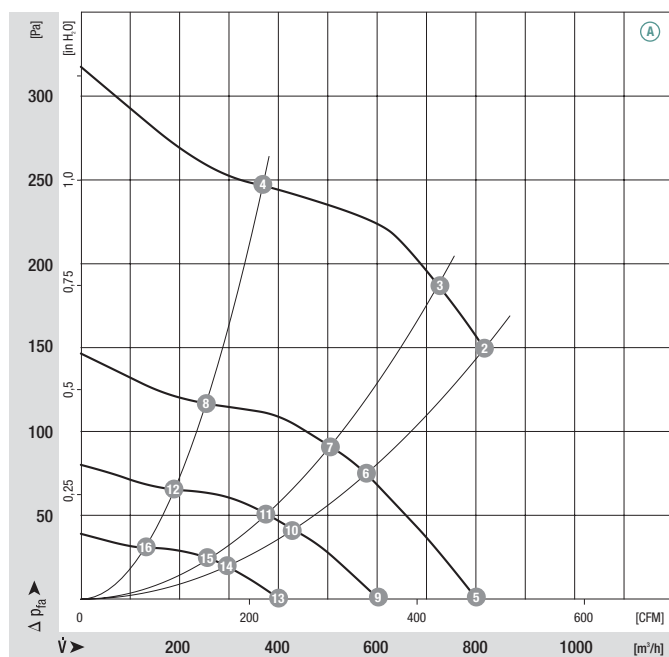
Nominal data

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

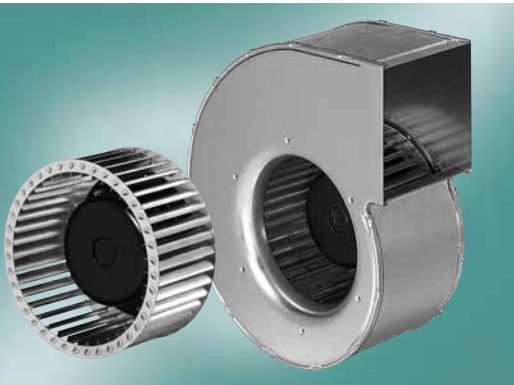


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1420	118	1.90	62	59
Ⓐ 3	1445	106	1.50	61	69
Ⓐ 4	1530	65	1.00	59	56
Ⓐ 5	975	65	1.00	58	—
Ⓐ 6	995	56	0.90	56	54
Ⓐ 7	1025	42	0.70	53	60
Ⓐ 8	1065	26	0.45	49	45
Ⓐ 9	745	31	0.50	52	—
Ⓐ 10	755	28	0.45	49	47
Ⓐ 11	775	21	0.35	45	49
Ⓐ 12	805	15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



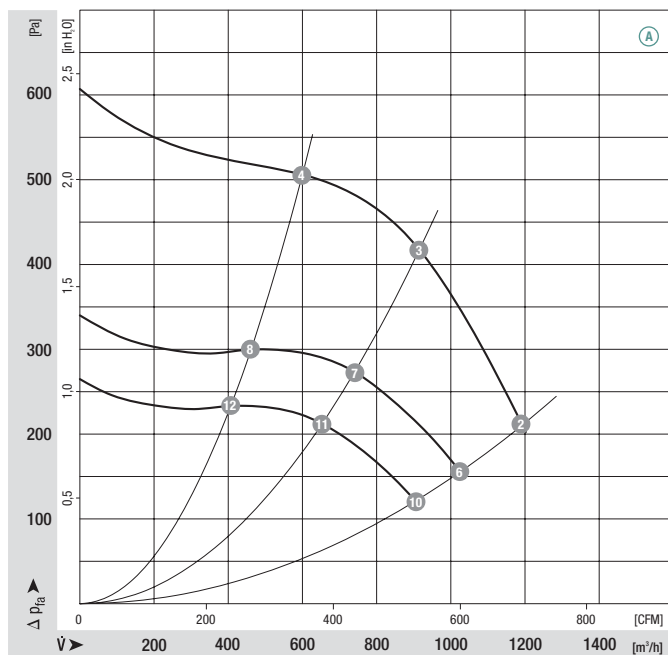
Nominal data

Type	Motor	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-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

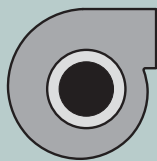


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1970	335	3.90	76	52
Ⓐ 3	2100	265	3.15	72	62
Ⓐ 4	2205	195	2.35	70	56
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1700	213	2.45	71	52
Ⓐ 7	1700	140	1.65	65	62
Ⓐ 8	1700	90	1.10	63	56
Ⓐ 9	—	—	—	—	—
Ⓐ 10	1500	147	1.70	68	52
Ⓐ 11	1500	96	1.15	62	62
Ⓐ 12	1500	61	0.75	59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



Mass of centrifugal blower without flange

Centrifugal fan

kg

Centrifugal blower without flange

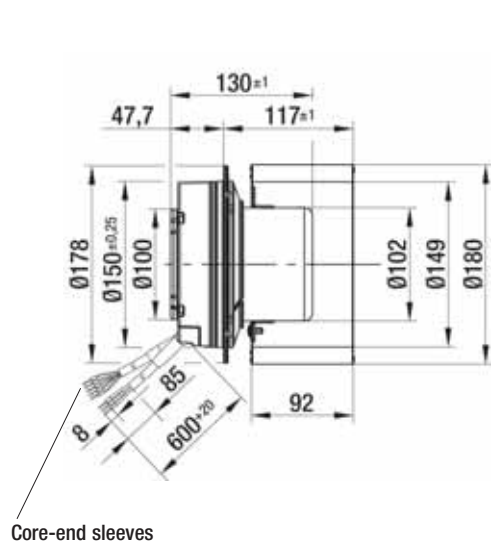
kg

R3G 180-AA01 -81

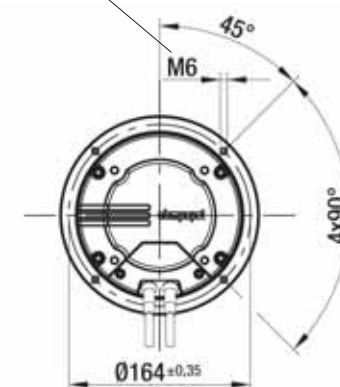
3.9

G3G 180-AA01 -81

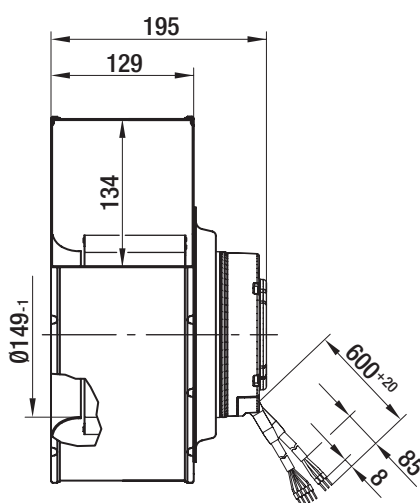
6.0



Depth of screw 8-10 mm



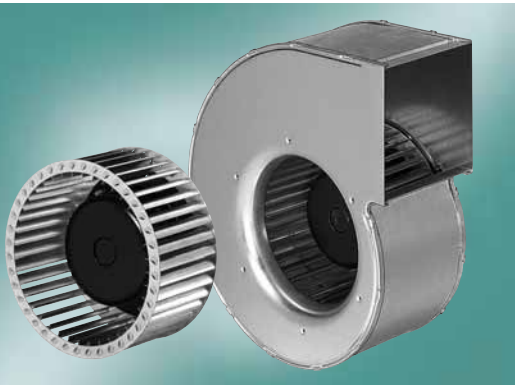
Core-end sleeves



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



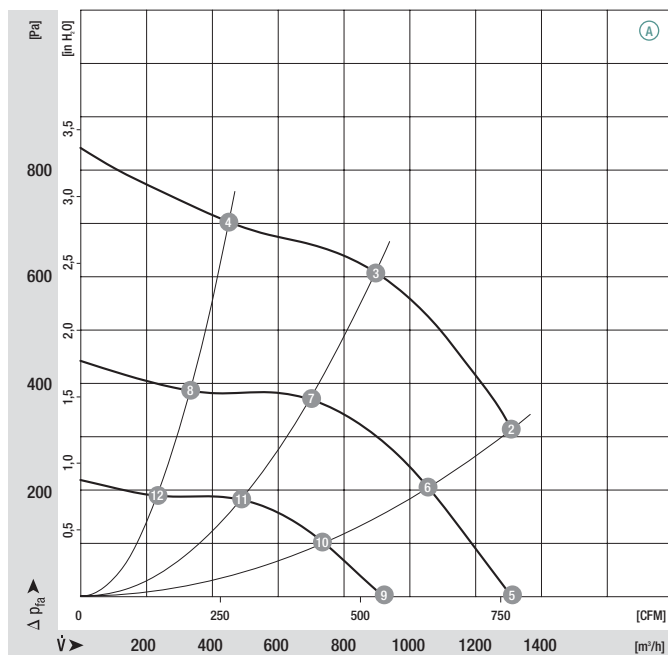
Nominal data

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

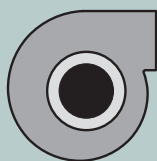


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	2450	510	3.15	79	47
Ⓐ 3	2570	361	2.25	75	58
Ⓐ 4	2690	223	1.45	73	45
Ⓐ 5	2000	395	2.50	77	—
Ⓐ 6	2000	295	1.90	73	47
Ⓐ 7	2000	185	1.20	68	58
Ⓐ 8	2000	100	0.60	64	45
Ⓐ 9	1400	135	0.90	67	—
Ⓐ 10	1400	100	0.60	64	47
Ⓐ 11	1400	65	0.40	59	58
Ⓐ 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

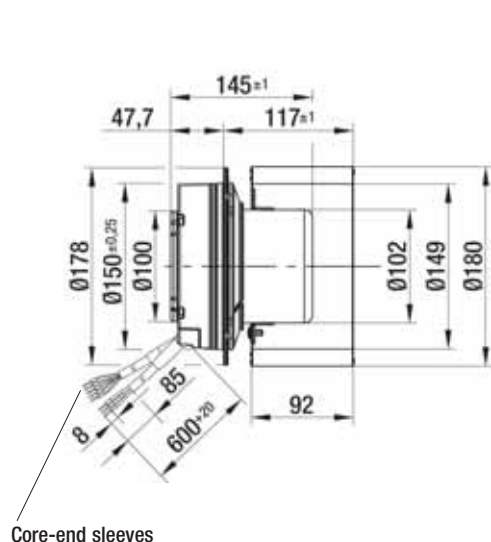
kg

R3G 180-AD43 -71

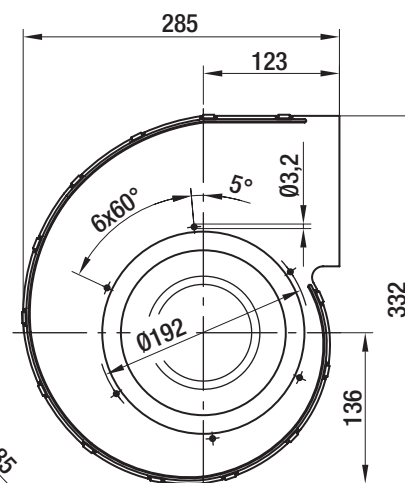
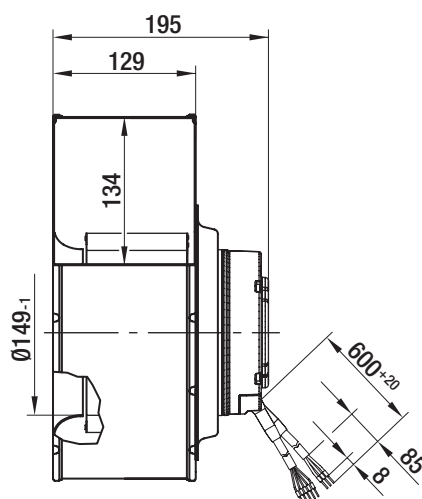
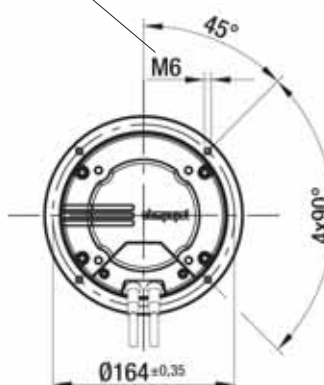
4.7

G3G 180-AD43 -71

6.8

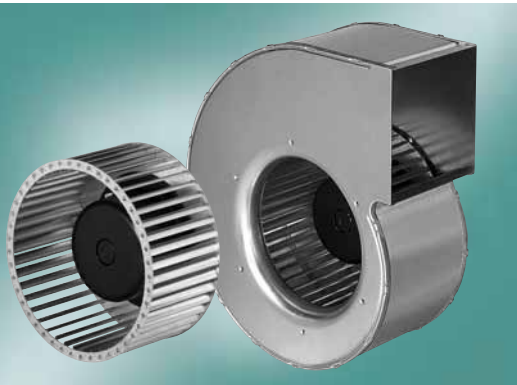


Depth of screw 8-10 mm



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

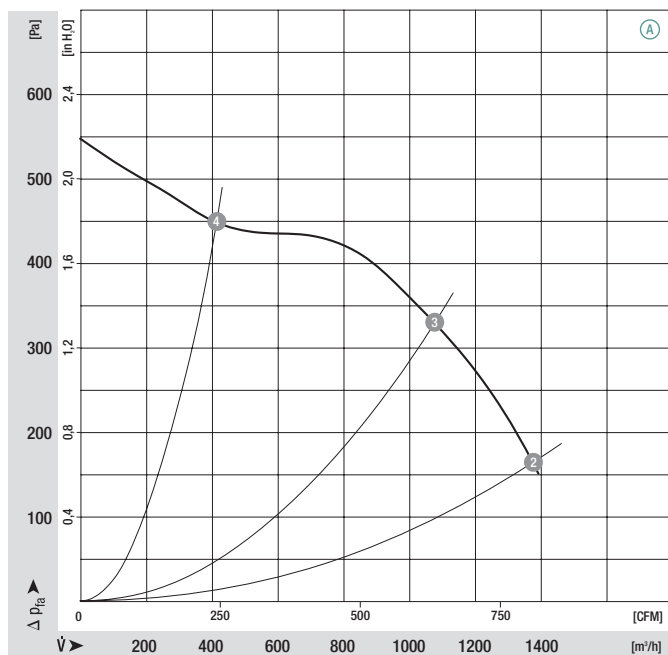
Nominal data

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

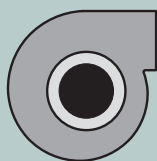


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1720	350	4.10	73	49
Ⓐ 3	1780	277	3.40	71	58
Ⓐ 4	1945	152	2.10	69	50

- **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

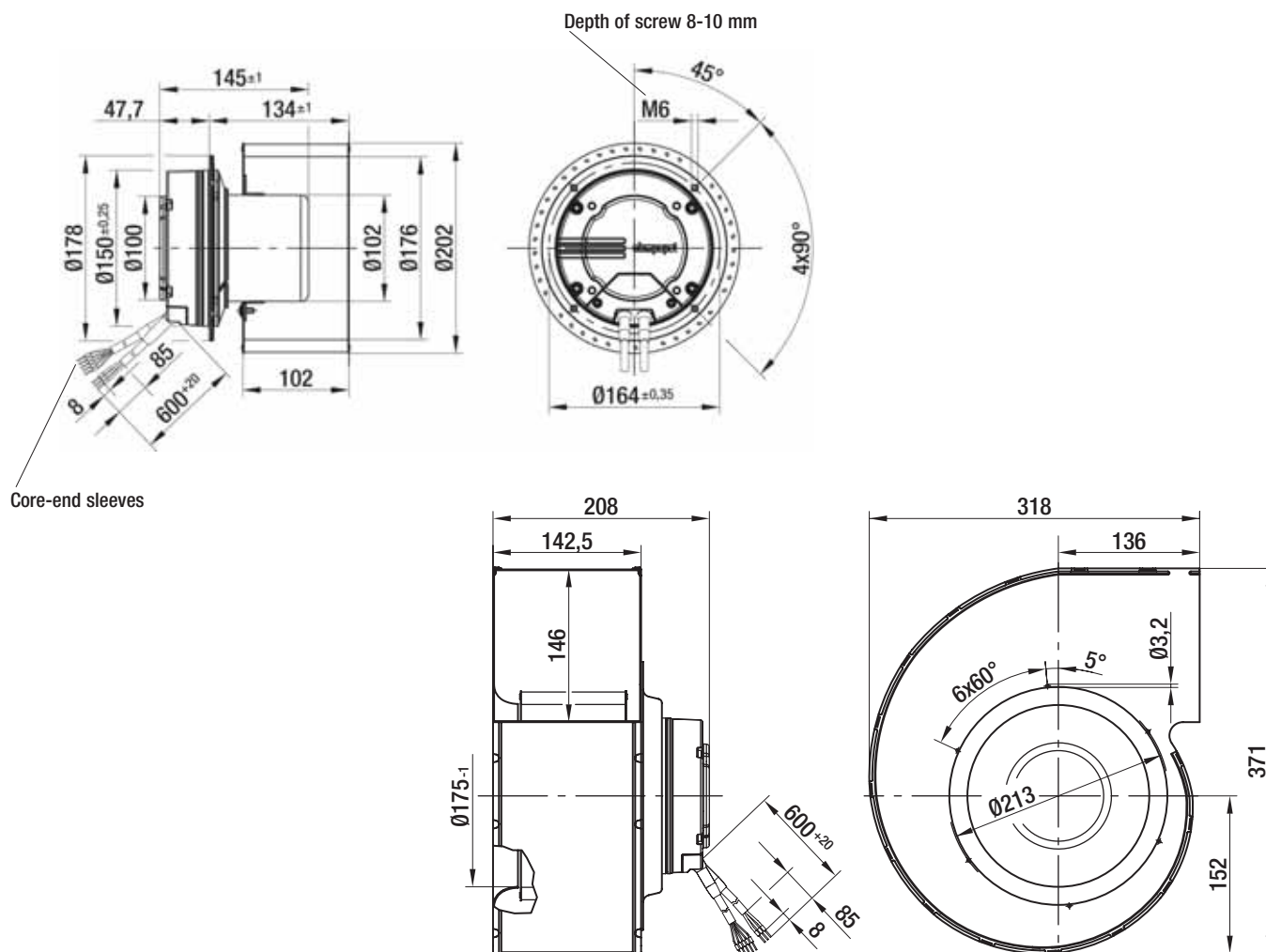
kg

R3G 200-AL36 -81

5.2

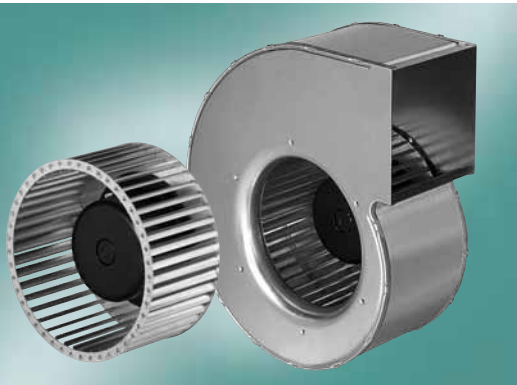
G3G 200-AL36 -81

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

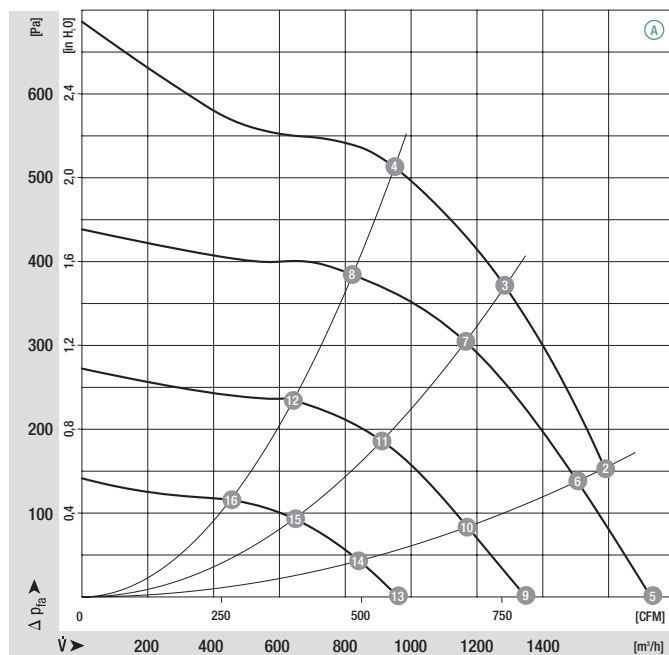
Nominal data

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

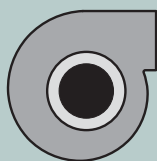


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1890	490	3.00	76	46
Ⓐ 3	1960	403	2.40	74	57
Ⓐ 4	2050	322	2.00	73	58
Ⓐ 5	1800	510	3.10	77	—
Ⓐ 6	1800	420	2.50	75	46
Ⓐ 7	1800	320	1.90	71	57
Ⓐ 8	1800	220	1.30	69	58
Ⓐ 9	1400	240	1.50	71	—
Ⓐ 10	1400	200	1.20	68	46
Ⓐ 11	1400	145	0.90	65	57
Ⓐ 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

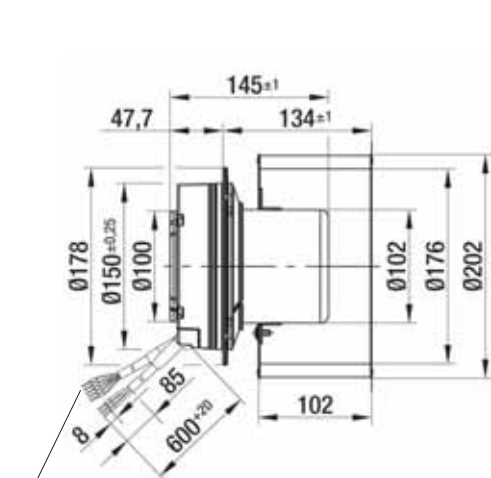
kg

R3G 200-AL29 -71

5.2

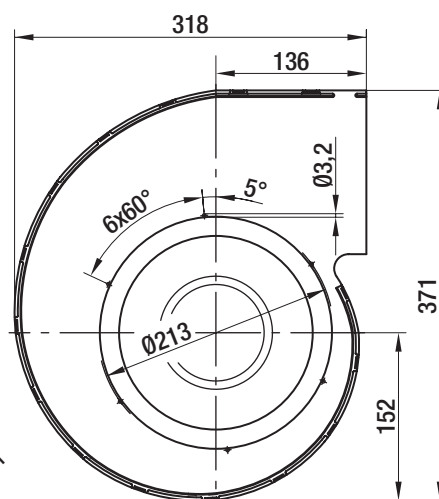
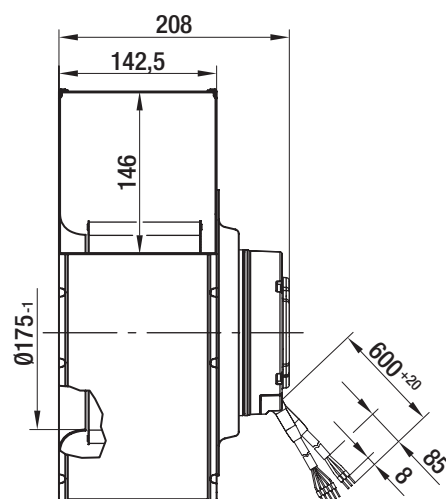
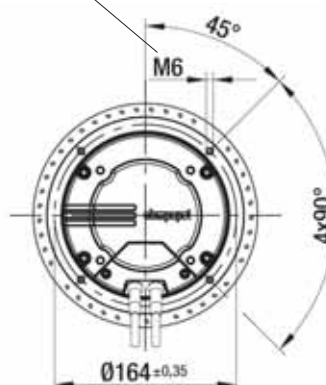
G3G 200-AL29 -71

7.4



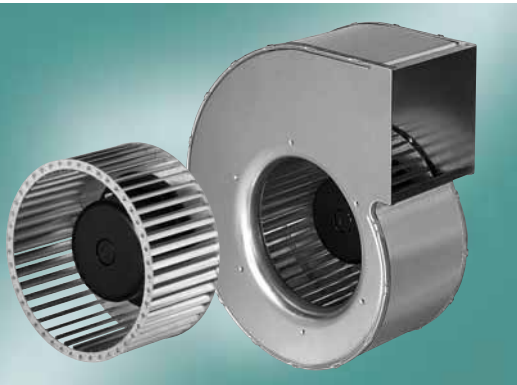
Core-end sleeves

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

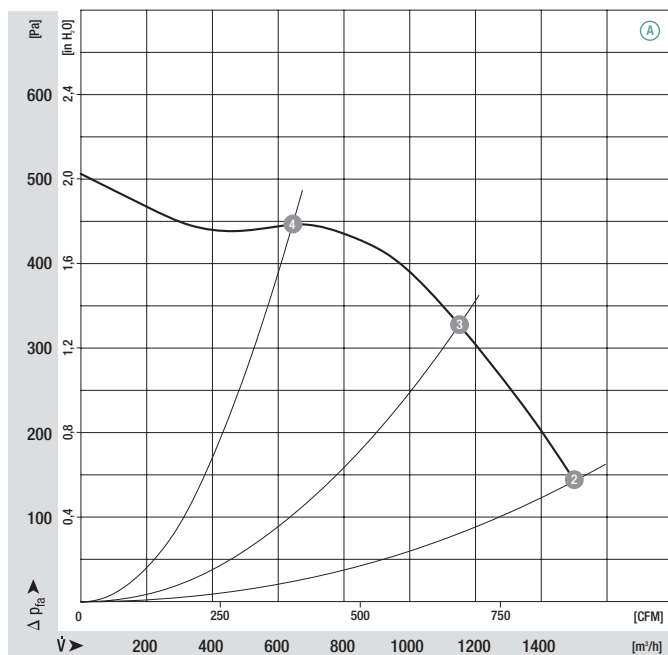
Nominal data

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

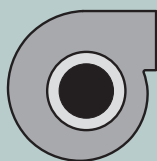


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1500	350	4.30	72	48
Ⓐ 3	1620	300	3.60	69	60
Ⓐ 4	1775	205	2.70	68	56

- **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

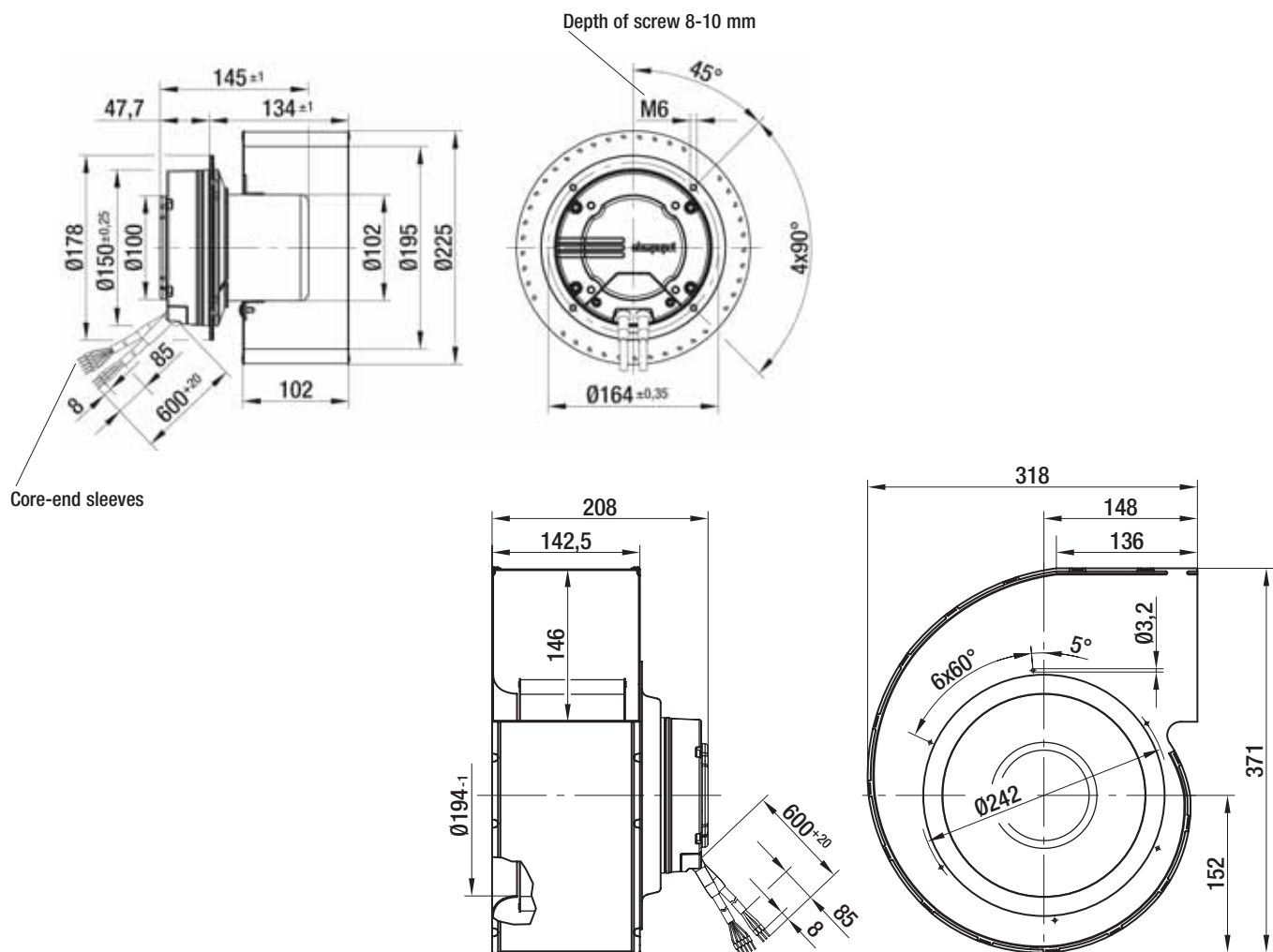


Mass of centrifugal fan



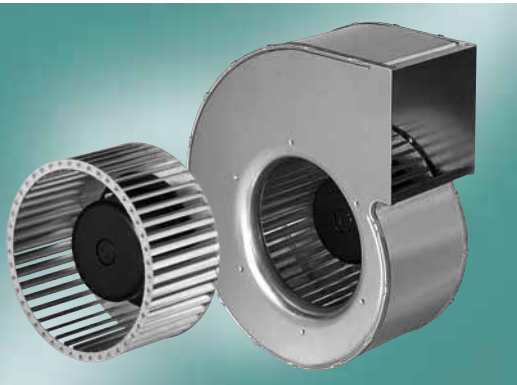
Mass of centrifugal blower

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

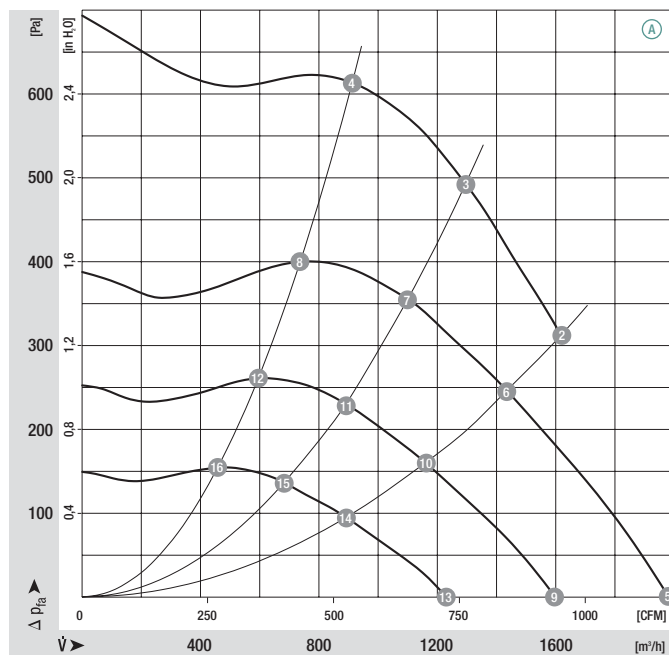
Nominal data

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

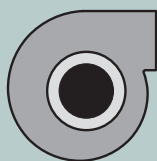


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1815	545	3.50	75	53
Ⓐ 3	1900	456	2.90	74	60
Ⓐ 4	1995	363	2.35	73	59
Ⓐ 5	1610	592	3.85	76	—
Ⓐ 6	1610	381	2.45	71	53
Ⓐ 7	1610	278	1.80	69	60
Ⓐ 8	1610	191	1.25	66	59
Ⓐ 9	1300	312	2.05	72	—
Ⓐ 10	1300	200	1.30	66	53
Ⓐ 11	1300	146	0.95	63	60
Ⓐ 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

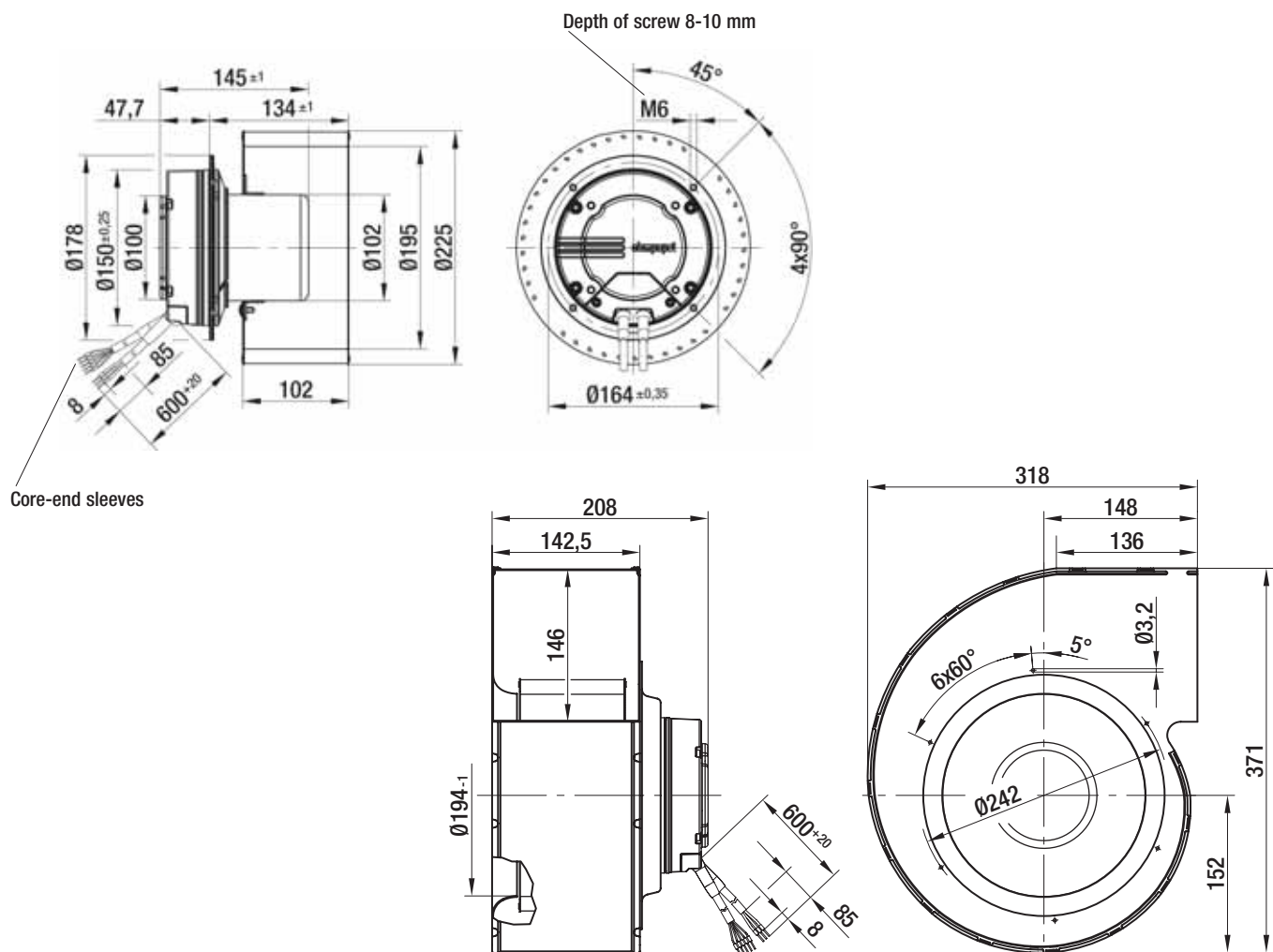


Mass of centrifugal fan



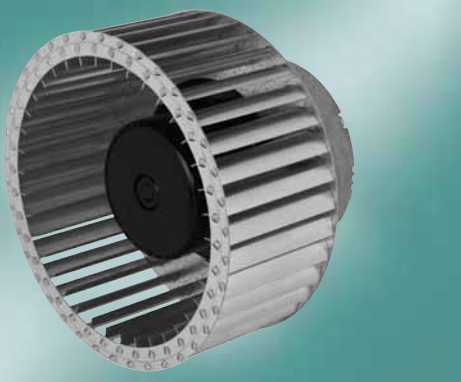
Mass of centrifugal blower

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

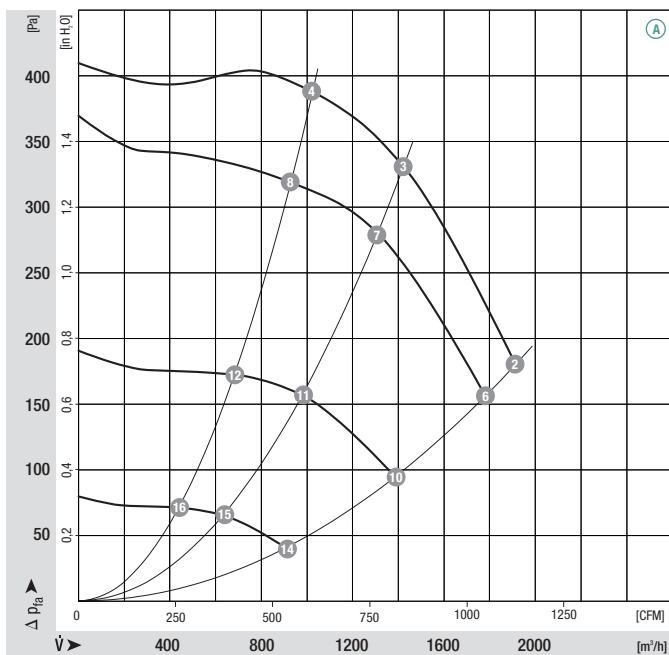


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		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. 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

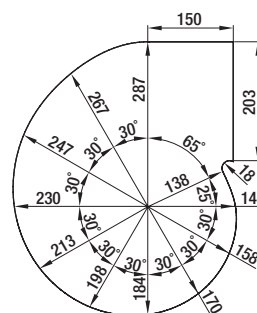
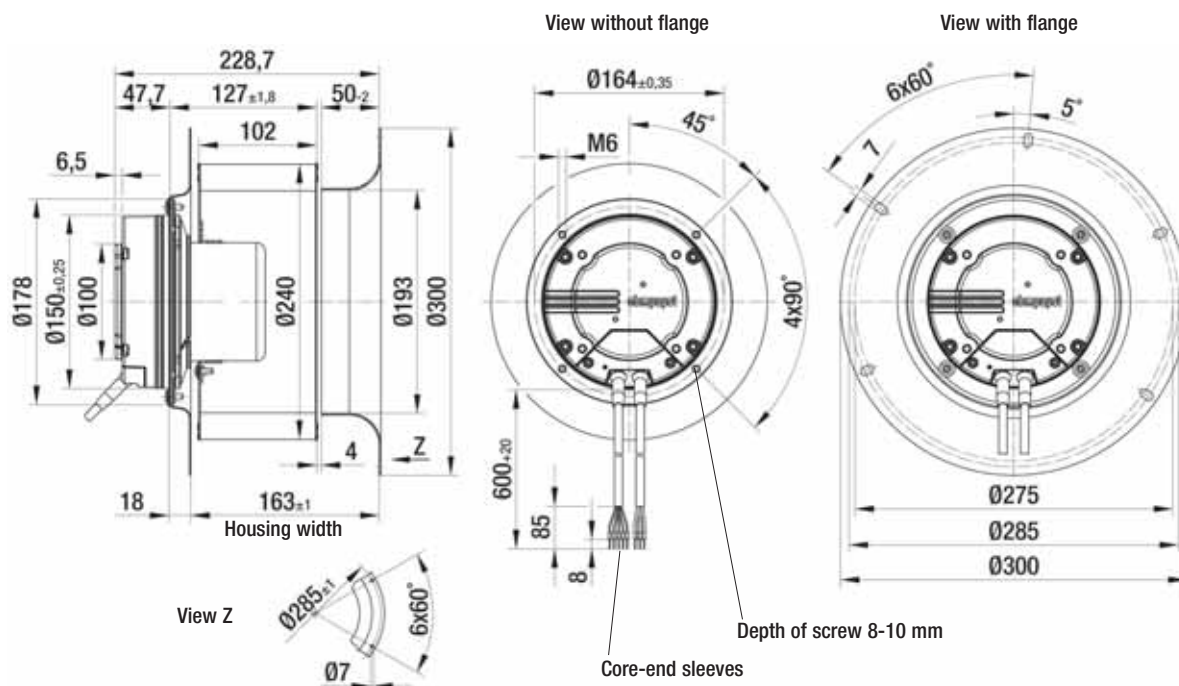
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **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

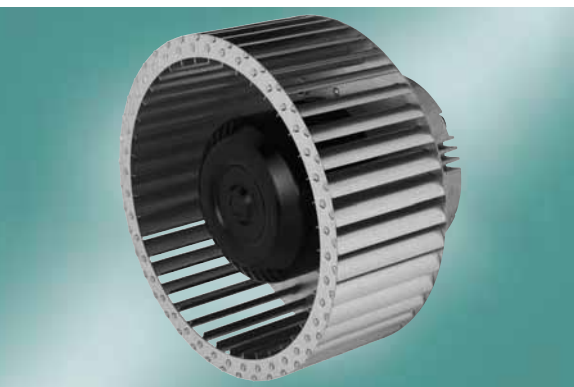


Centrifugal fan	kg	Inlet nozzle	Flange
R3G 250-AQ28 -71	5.6	25010-2-4013	10011-2-4017



EC centrifugal fan

single inlet, Ø 250



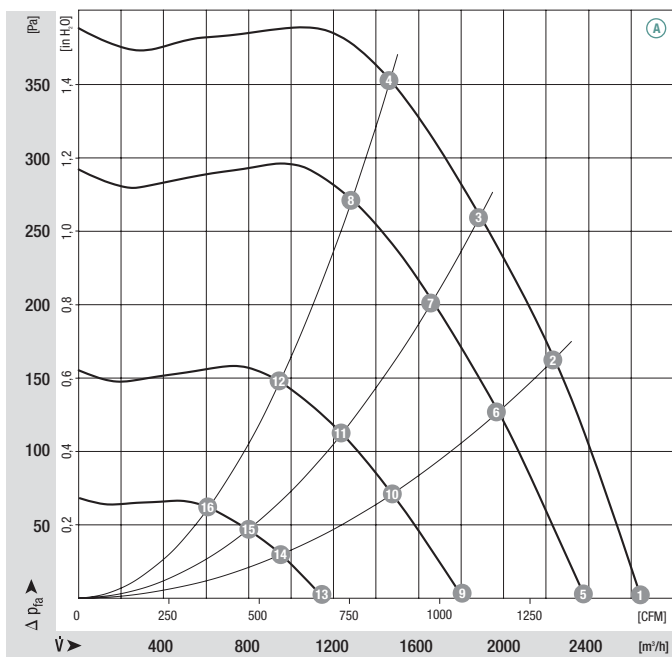
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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 _{IL} [%]
Ⓐ 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

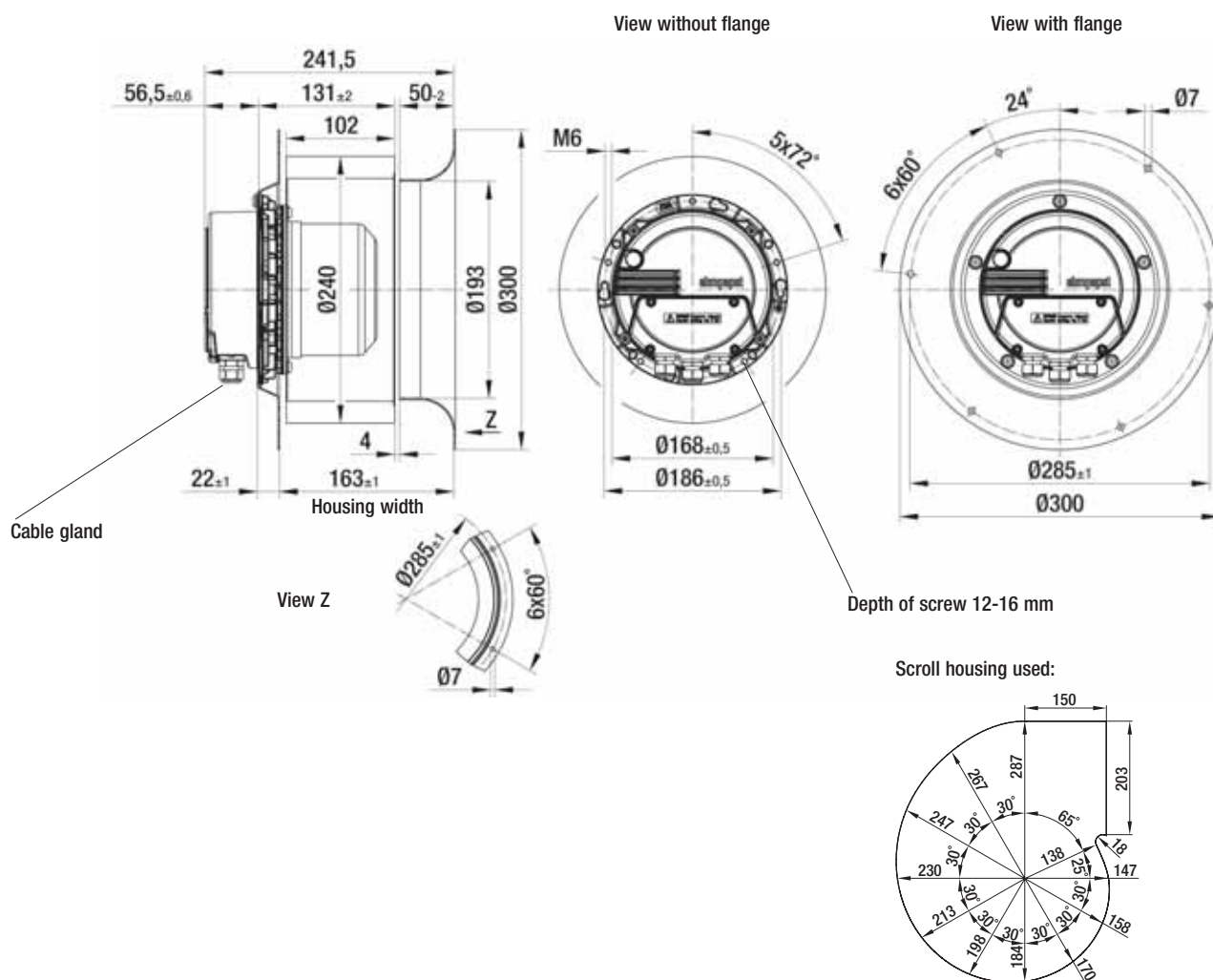
Flange

R3G 250-AS51 -11

7.6

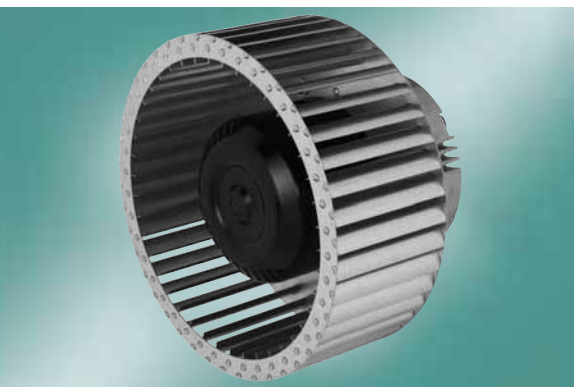
25010-2-4013

10025-2-4017



EC centrifugal fan

single inlet, Ø 280



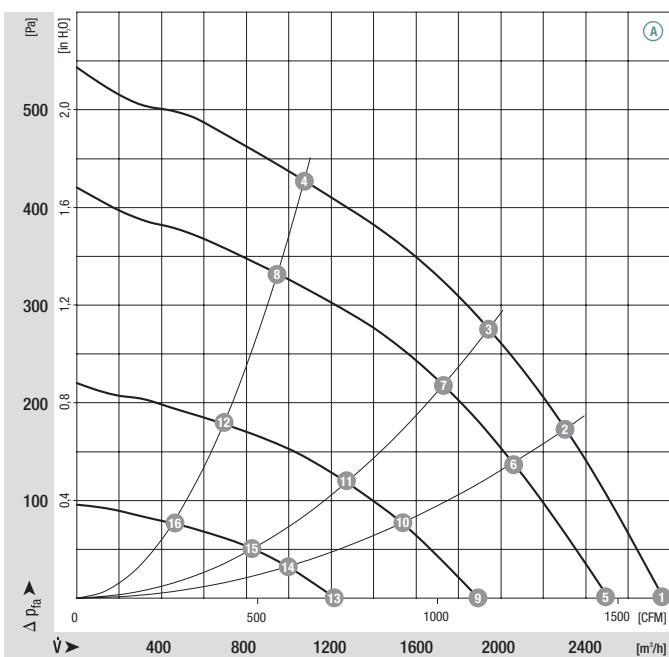
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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

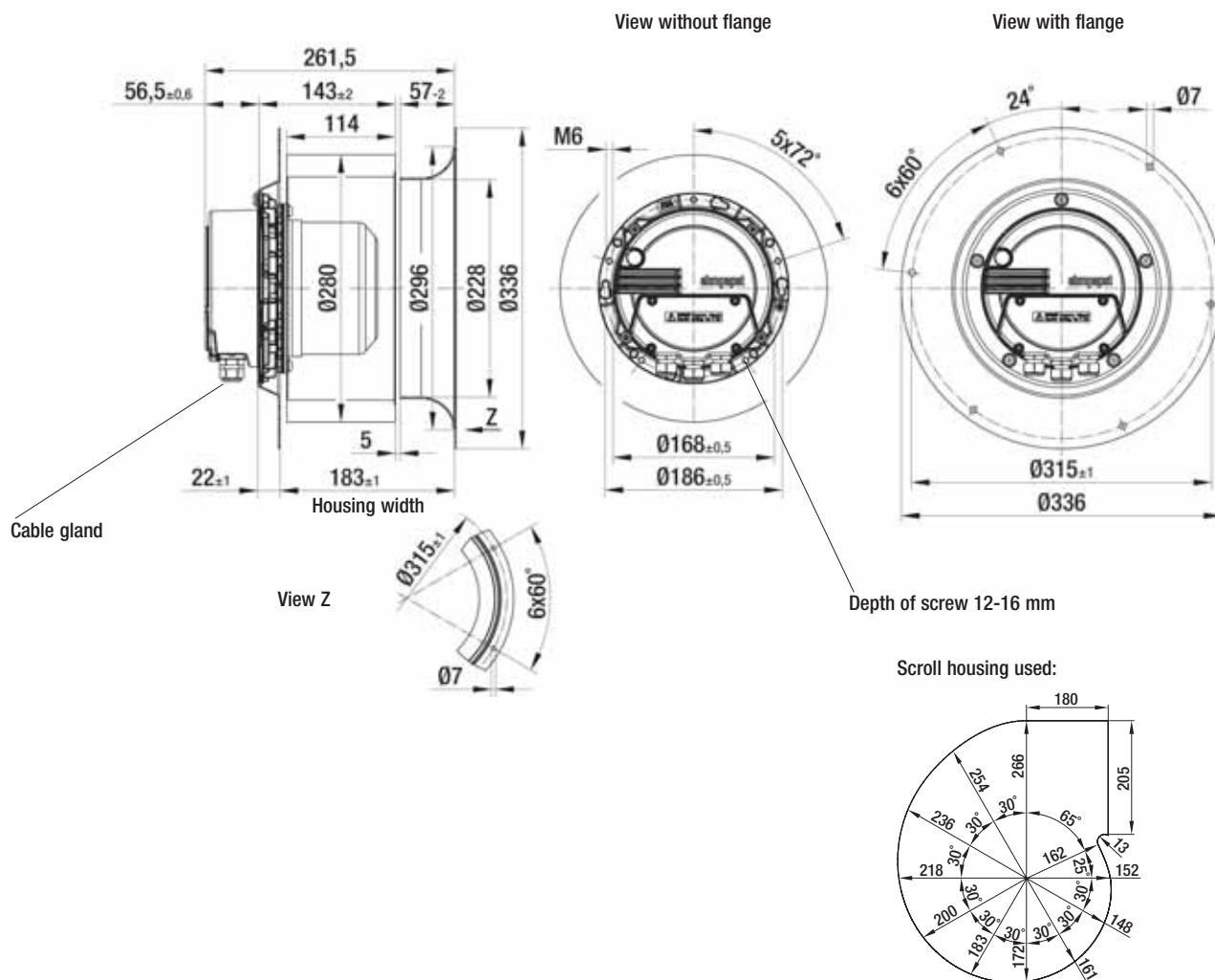
- **Technical features:**
 - PFC (active)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- **EMC:** Interference 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

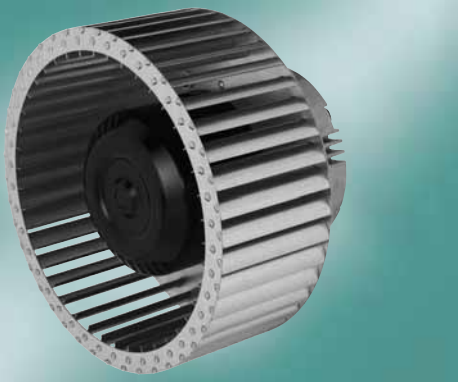


Centrifugal fan	kg	Inlet nozzle	Flange
R3G 280-AN32 -11	9.4	28010-2-4013	10026-2-4017



EC centrifugal fan

single inlet, Ø 280

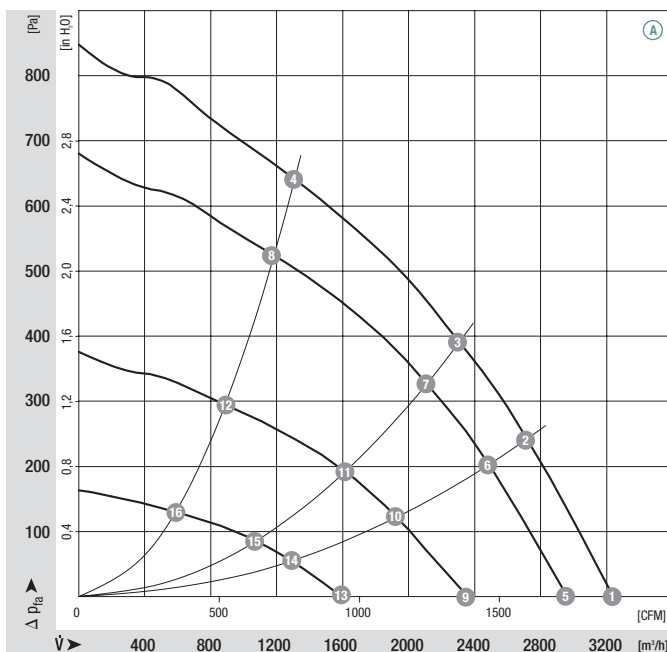


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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

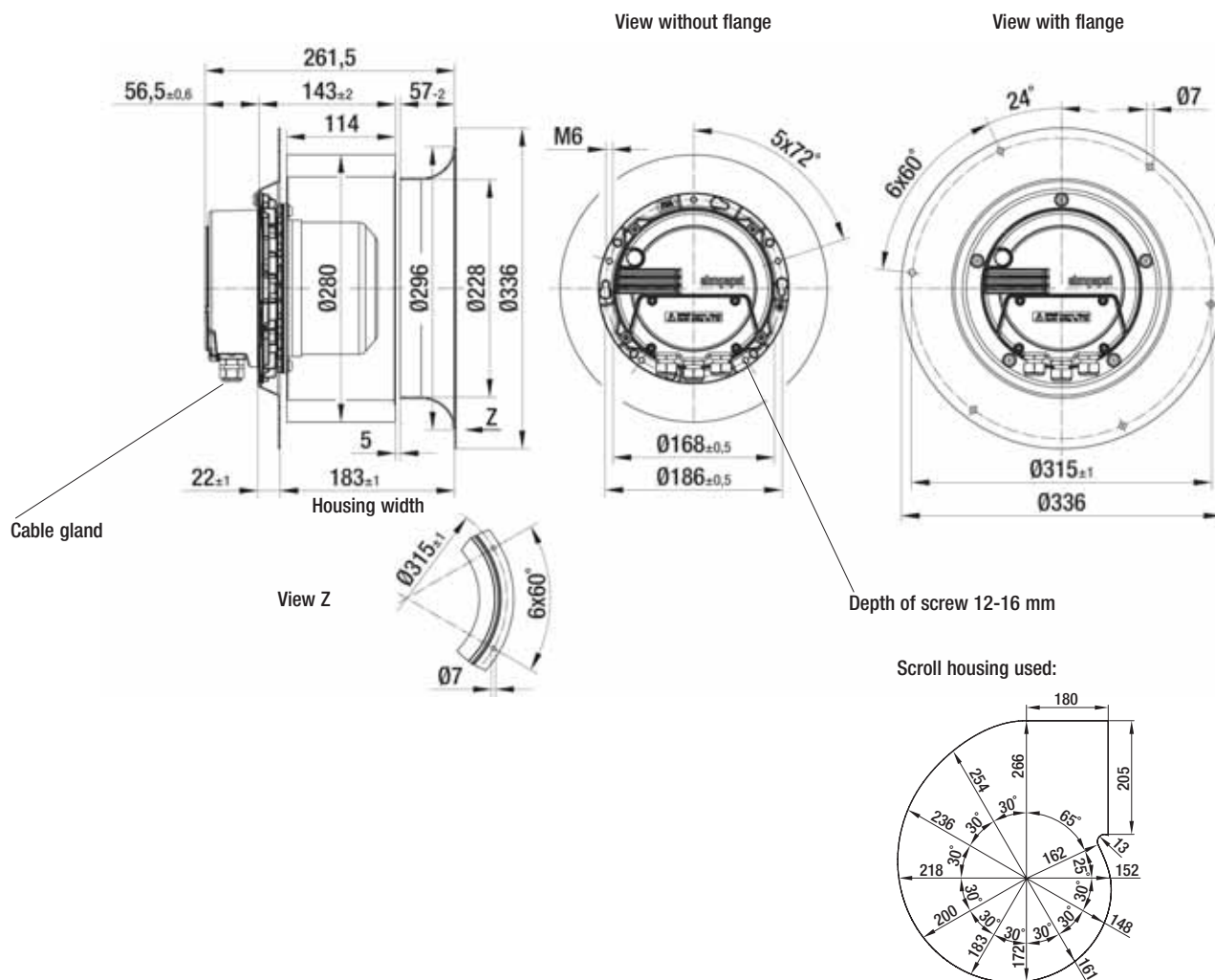
Flange

R3G 280-AN32 -01

9.4

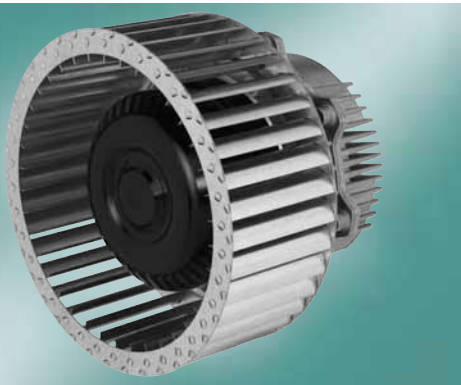
28010-2-4013

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

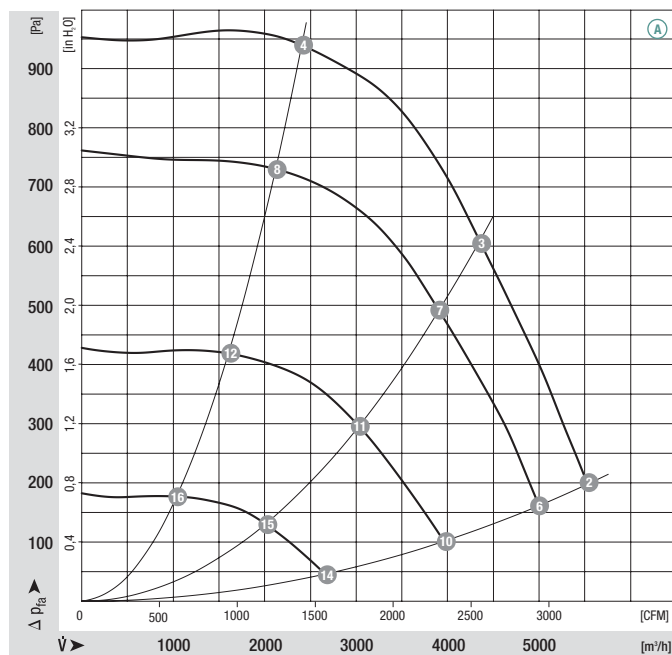
Nominal data

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 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

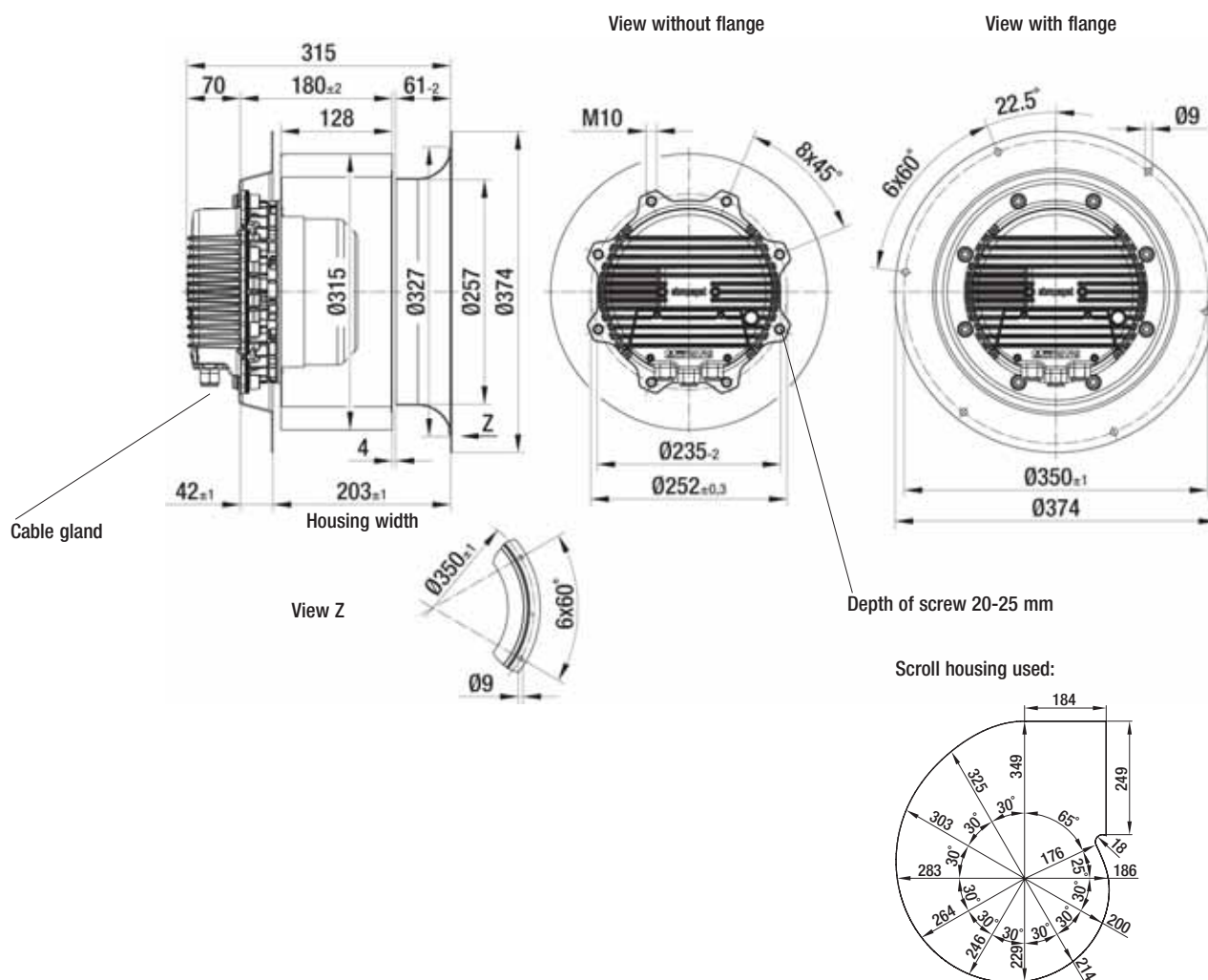
Flange

R3G 310-AU07 -03

19.4

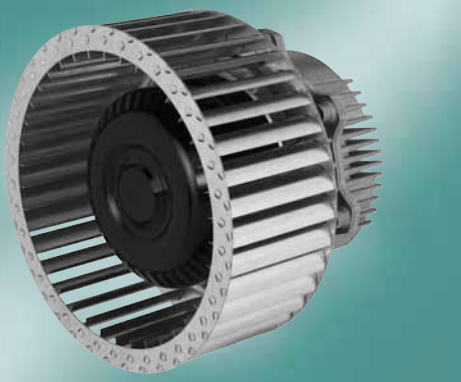
31010-2-4013

10050-2-4017



EC centrifugal fan

single inlet, Ø 355

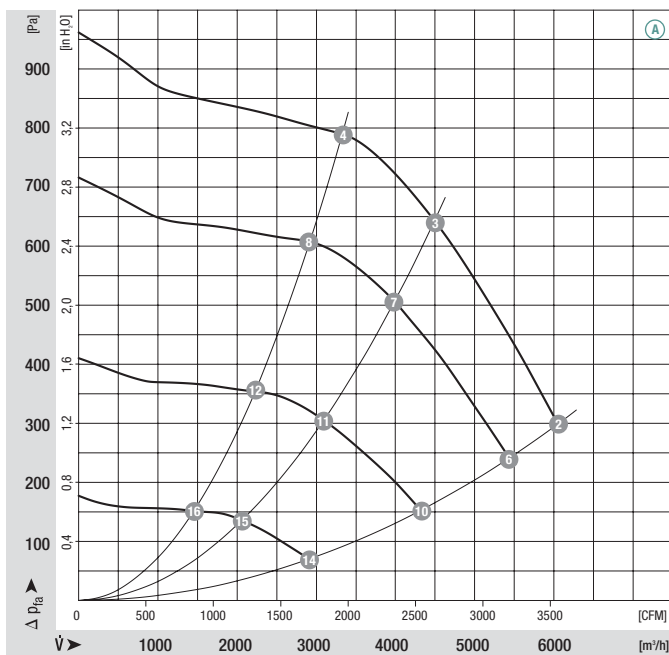


- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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

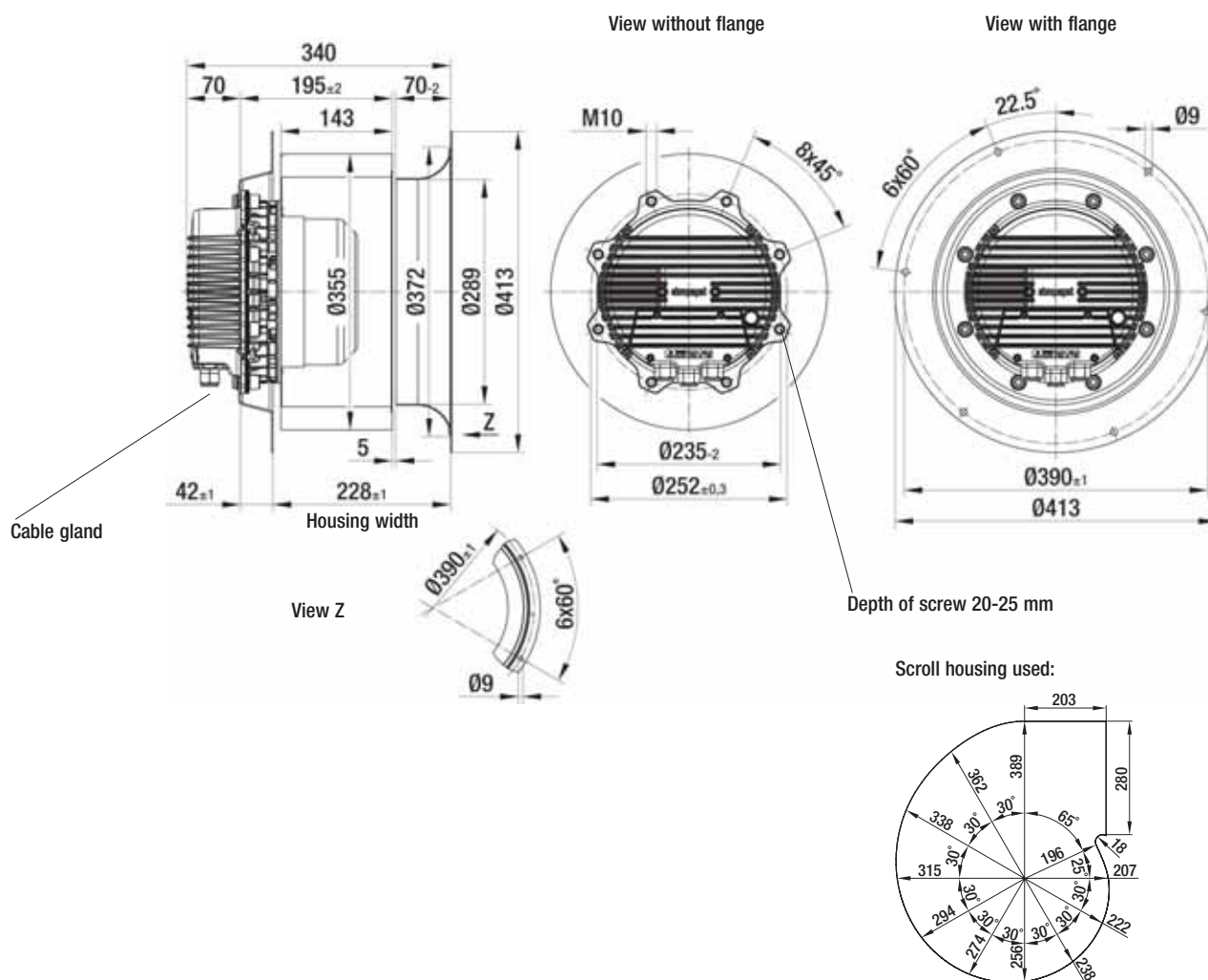
Flange

R3G 355-AR08 -03

19.9

35510-2-4013

10051-2-4017



EC centrifugal fan

single inlet, Ø 400



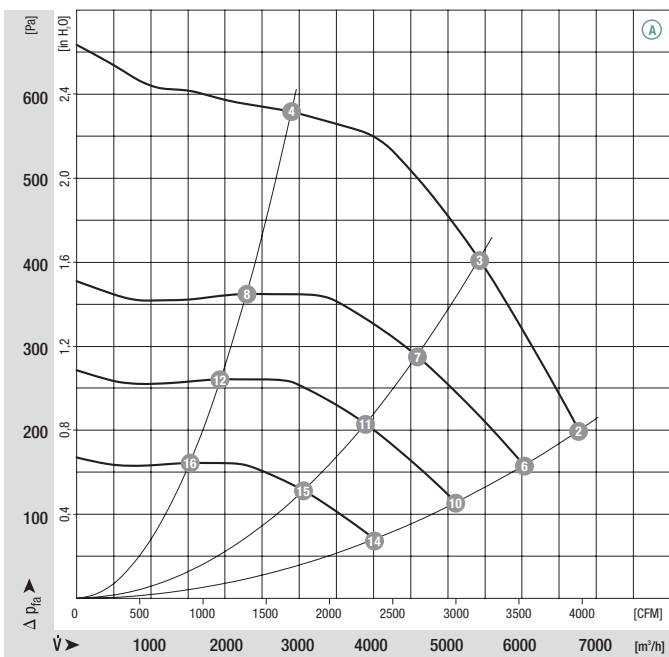
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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

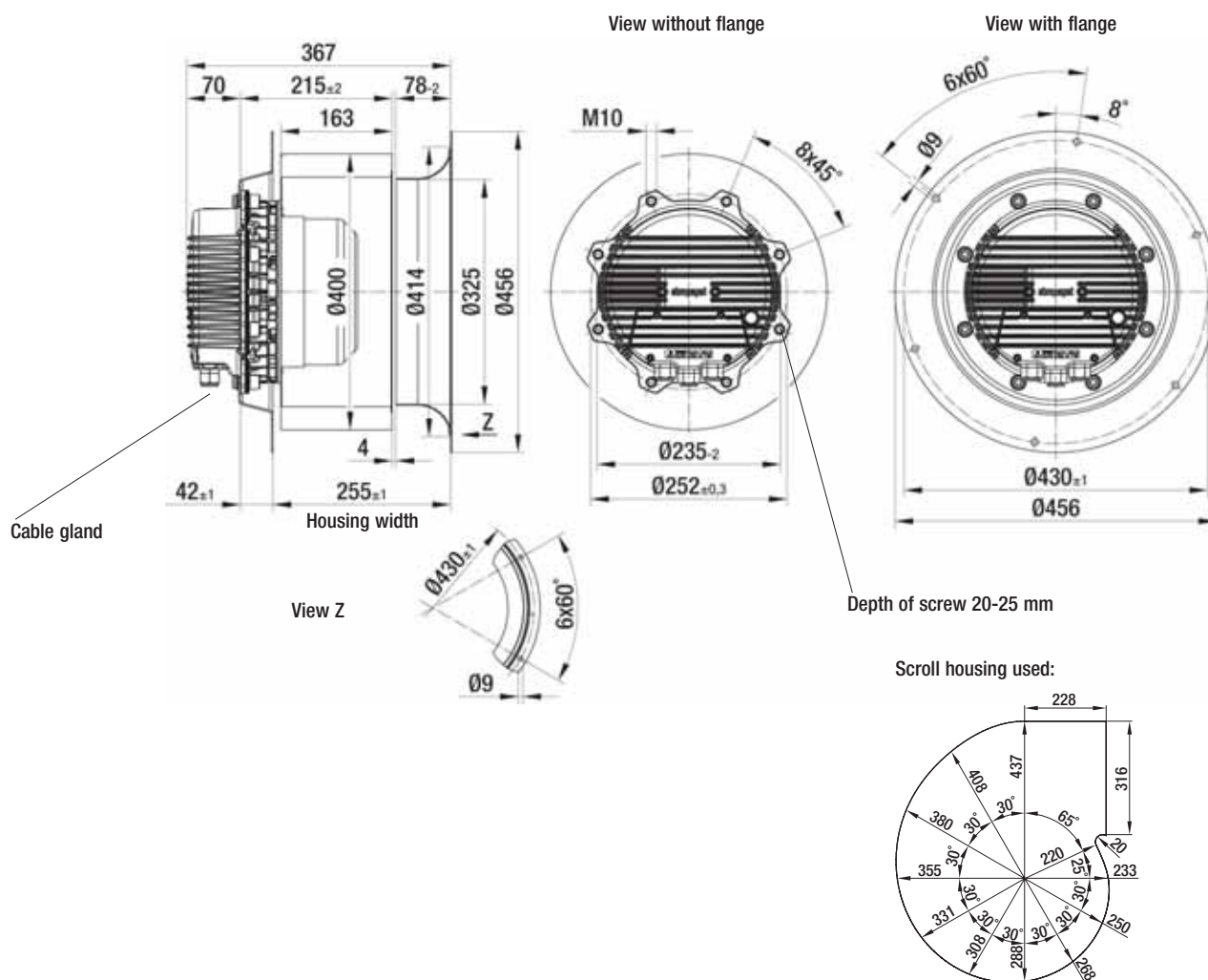
Flange

R3G 400-AR04 -03

25.5

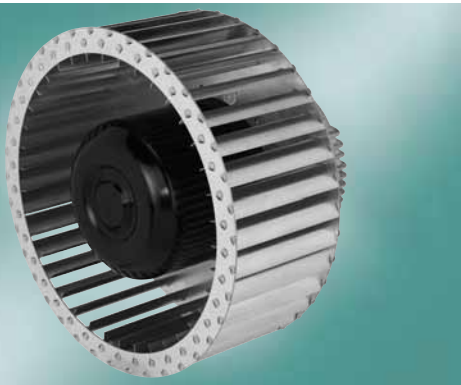
40010-2-4013

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

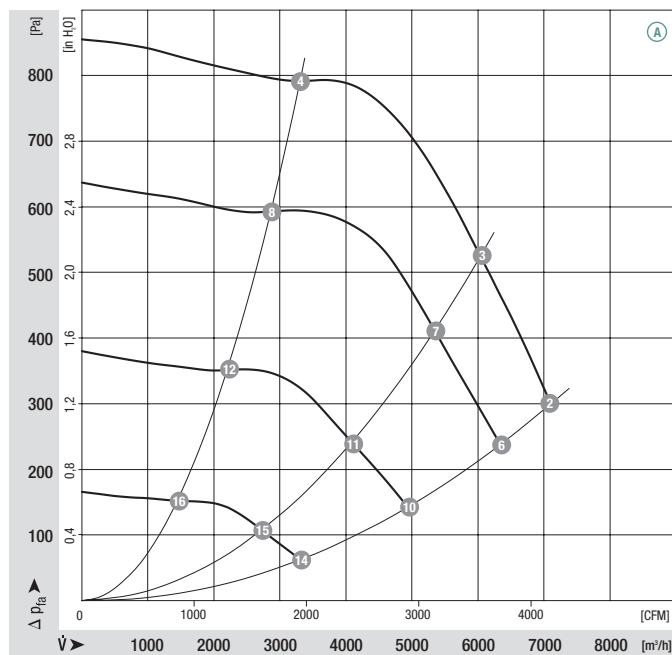
Nominal data

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

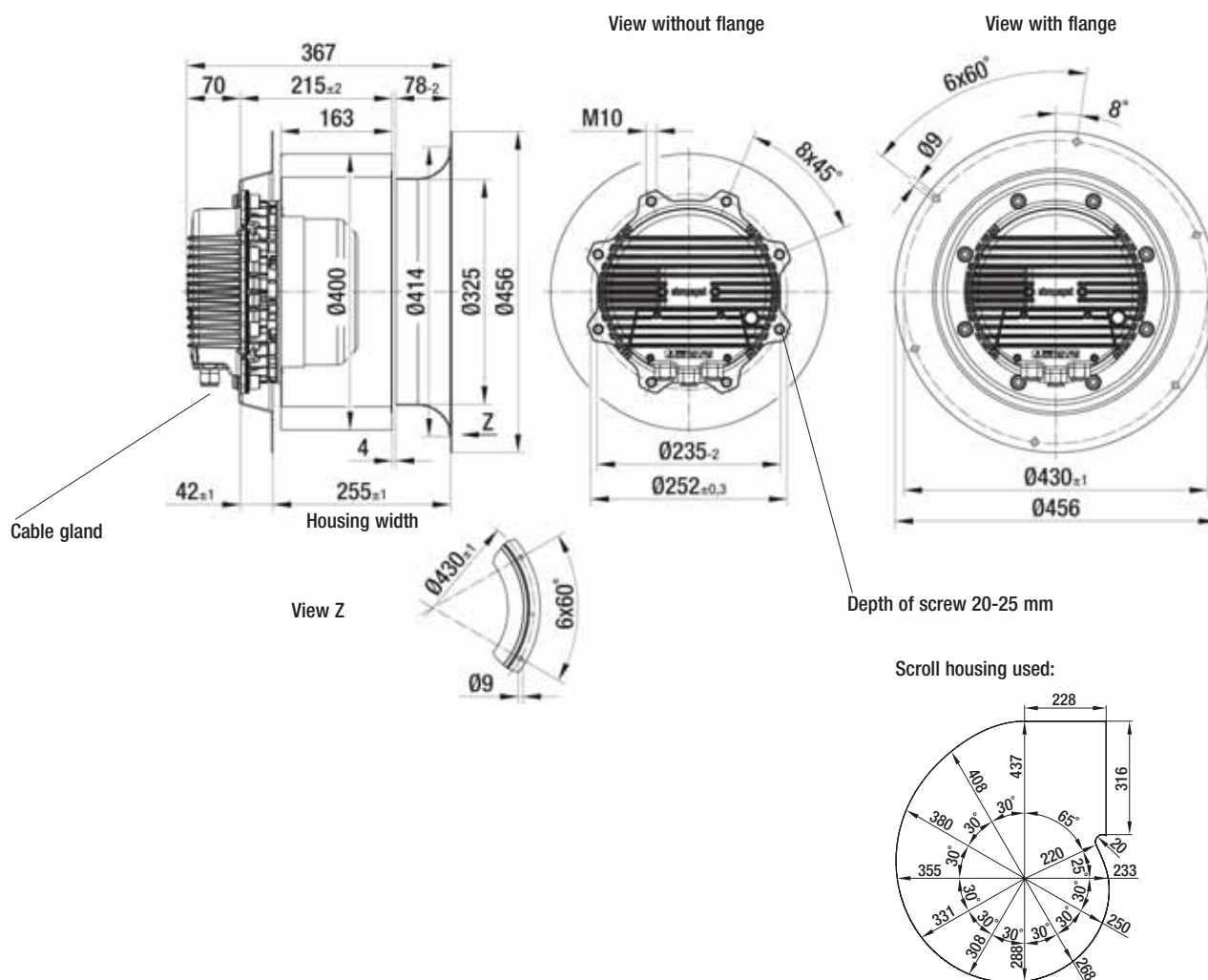
Flange

R3G 400-AT01 -03

30.0

40010-2-4013

10052-2-4017



EC centrifugal fan

single inlet, Ø 450



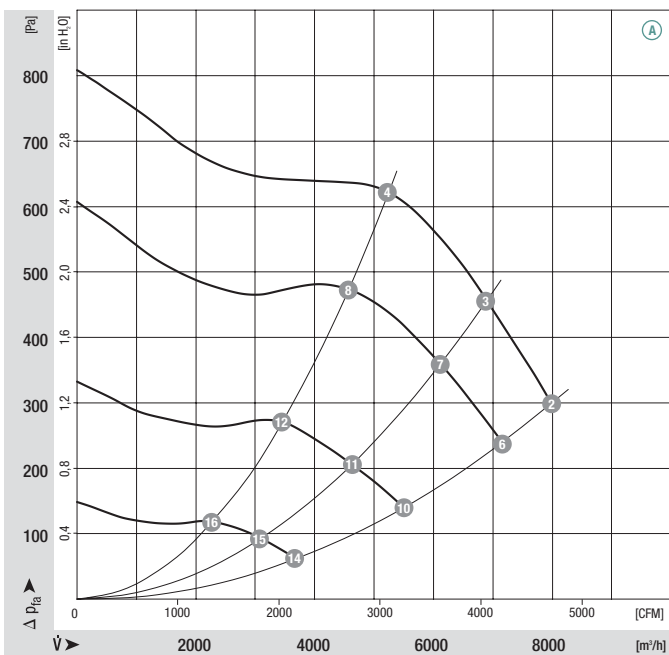
- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on 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 ($\pm 20\%$) 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

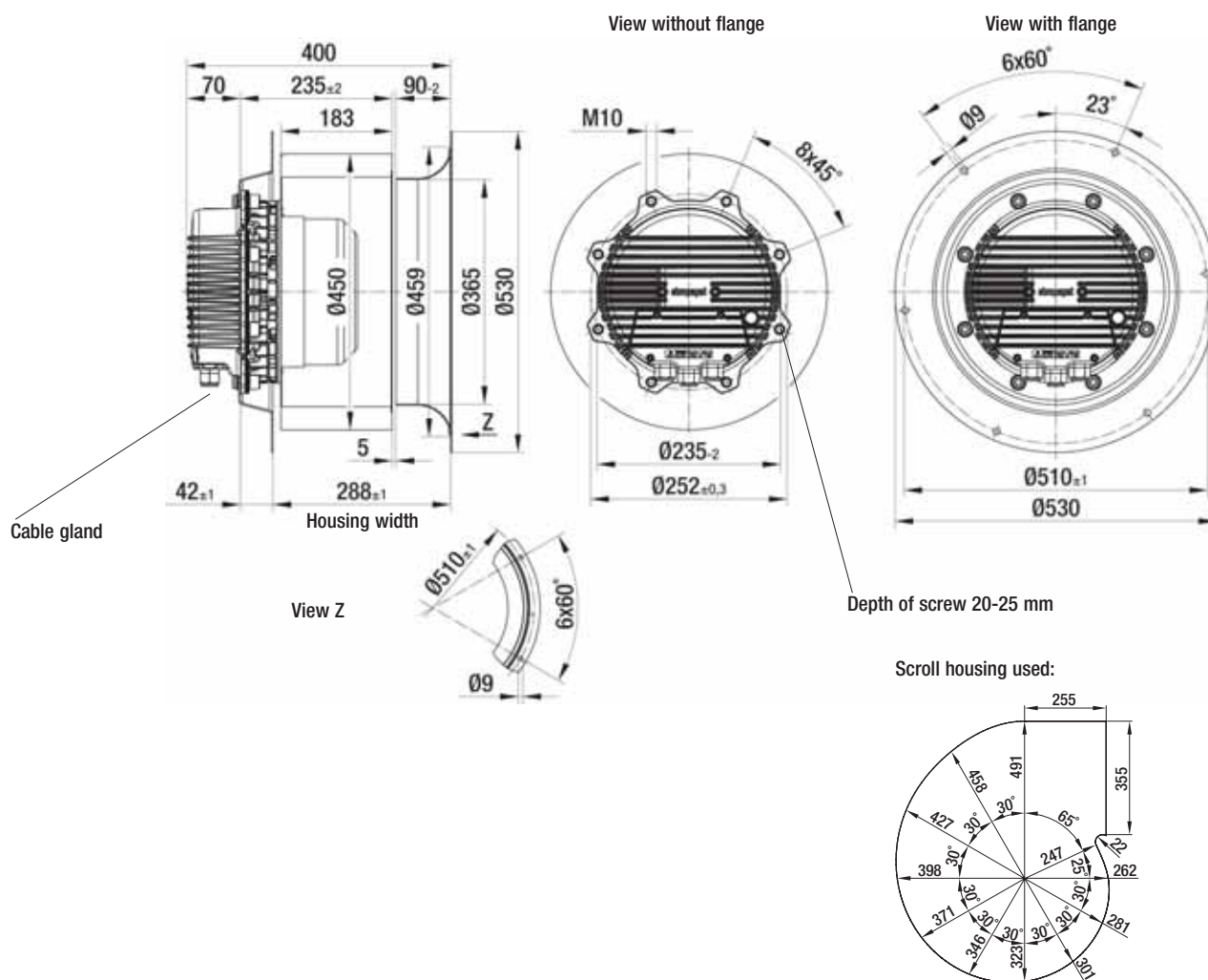
Flange

R3G 450-AR03 -03

31.5

45010-2-4013

10053-2-4017



EC centrifugal blowers

dual inlet, Ø 133

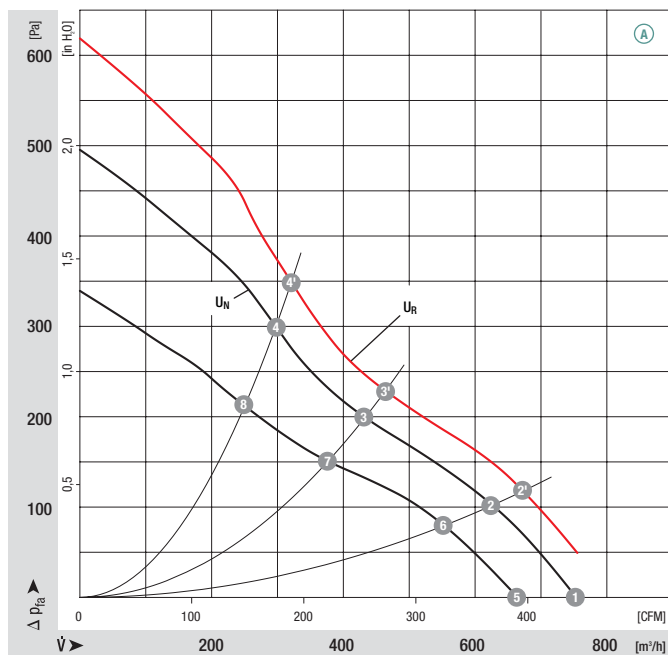


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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

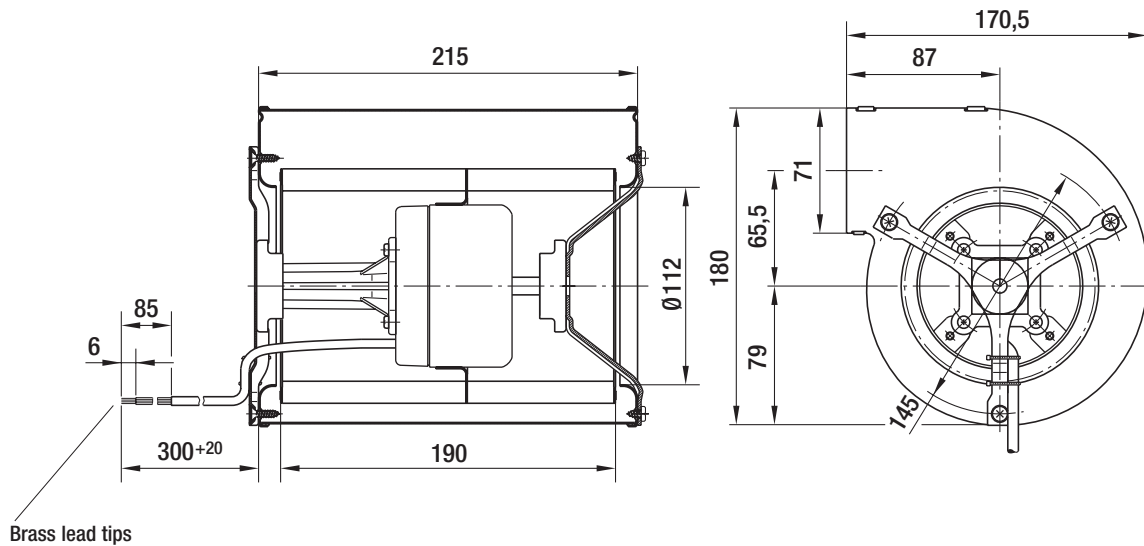
kg

D1G 133-AB29 -52

3.3

D1G 133-AB39 -52

3.3



EC centrifugal blowers

dual inlet, Ø 133

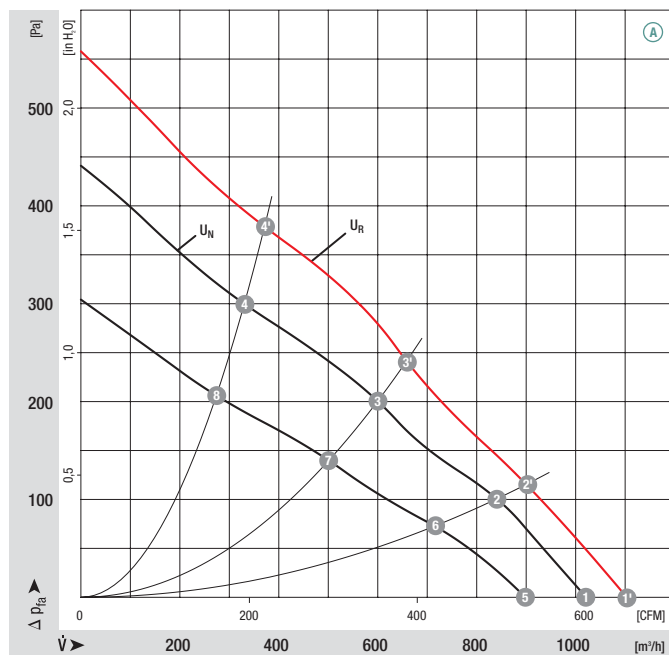


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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
 - 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
- Reverse polarity and locked-rotor protection



Mass of centrifugal blower

Centrifugal blower without flange

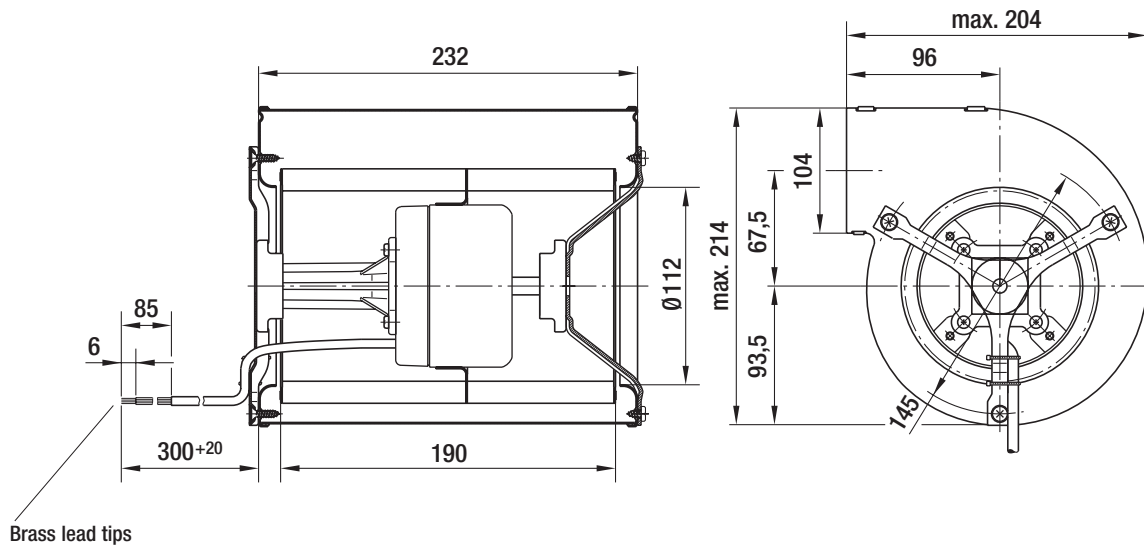
kg

D1G 133-DC13 -52

3.4

D1G 133-DC17 -52

3.4



EC centrifugal blowers

dual inlet, Ø 146

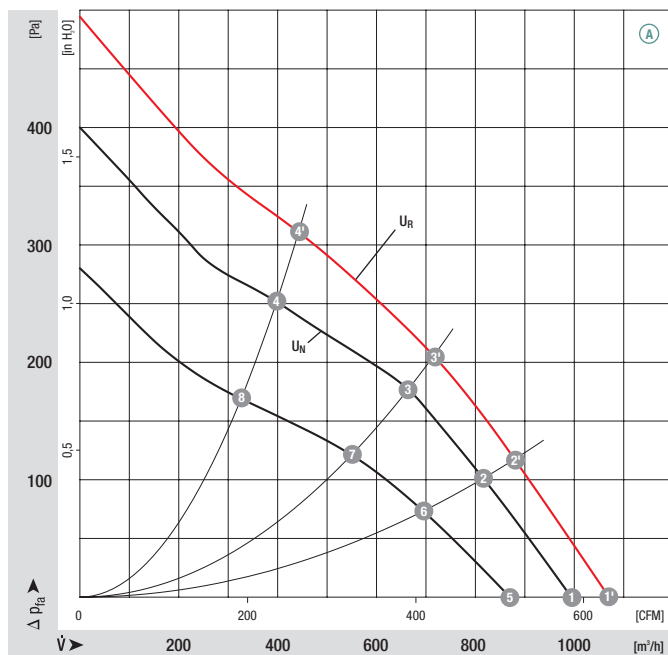


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** 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	(A)	24	16-28	1000	1350	105	5.10	61	0	-25 to +60	G)
D1G 146	M1G 074-CF	(A)	48	36-57	1000	1350	105	2.60	61	0	-25 to +60	G)

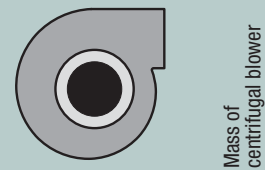
subject to alterations

Curves

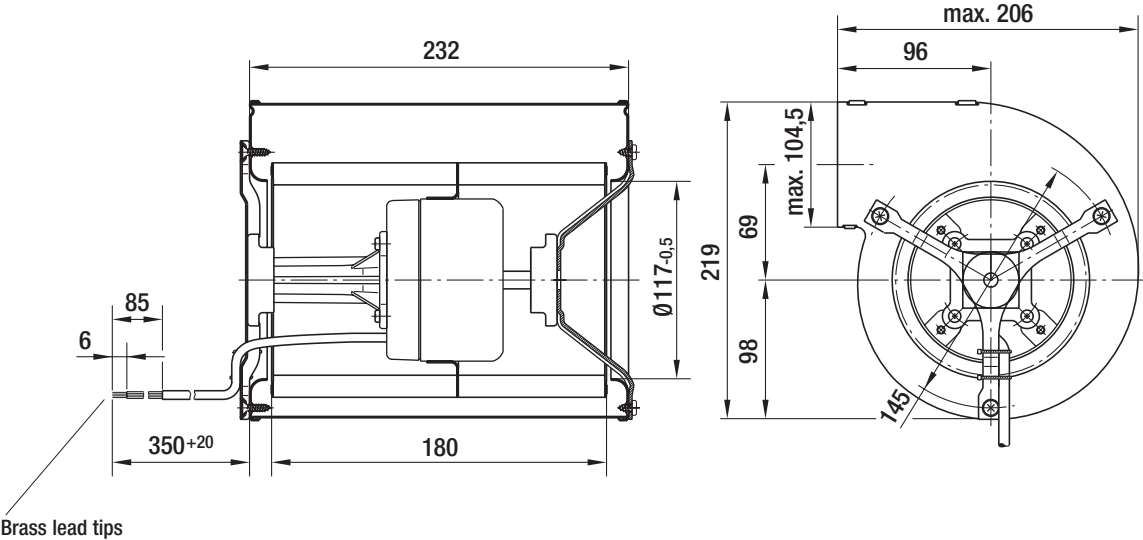


	n [rpm]	P ₁ [W]	L _{pA} [dB(A)]	η _{HL} [%]
(A) 1'	1460	129	63	—
(A) 2'	1680	119	60	53
(A) 3'	1890	111	58	61
(A) 4'	2240	95	59	55
(A) 1	1350	105	61	—
(A) 2	1570	95	58	53
(A) 3	1750	88	56	61
(A) 4	2010	70	57	55
(A) 5	1210	70	56	—
(A) 6	1360	60	54	53
(A) 7	1460	53	52	61
(A) 8	1670	42	51	55

- **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

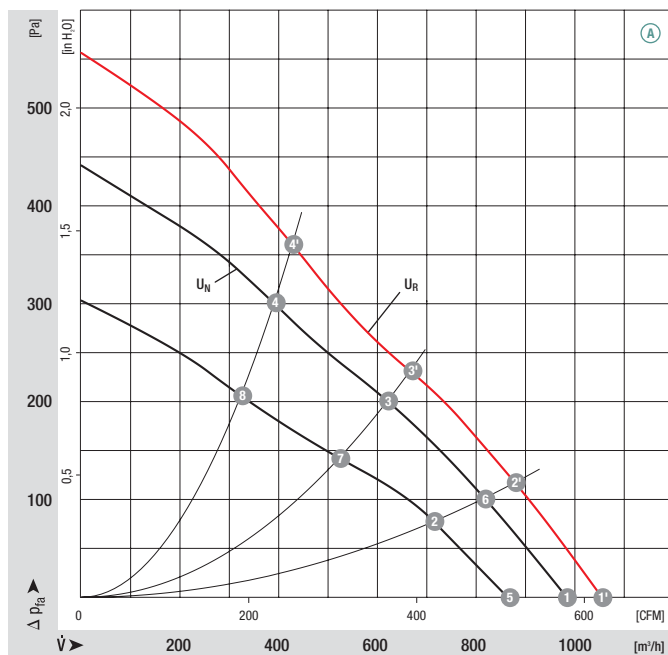


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Counter-clockwise, seen on rotor
- **Type of protection:** IP 42
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of 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 _{tL} [%]
(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

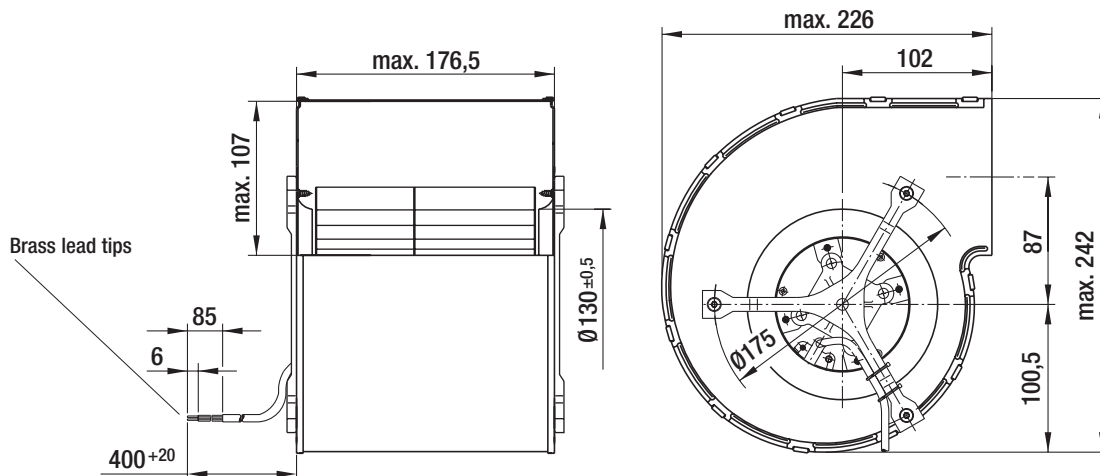
kg

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

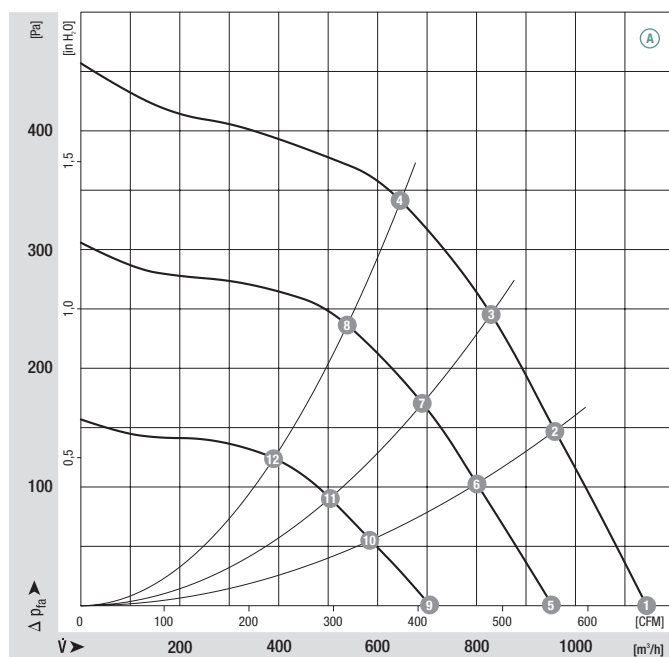
Nominal data

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	P ₁	I	Lp _A	η _{HL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
Ⓐ 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

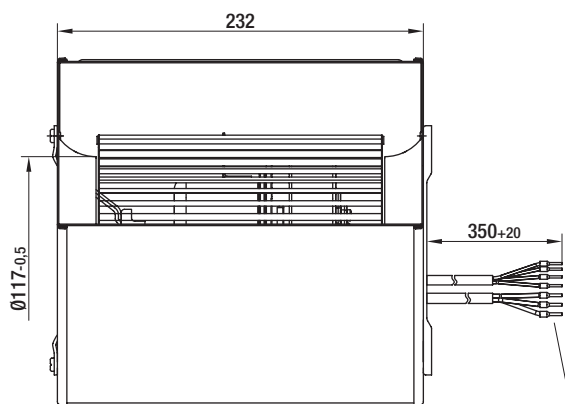
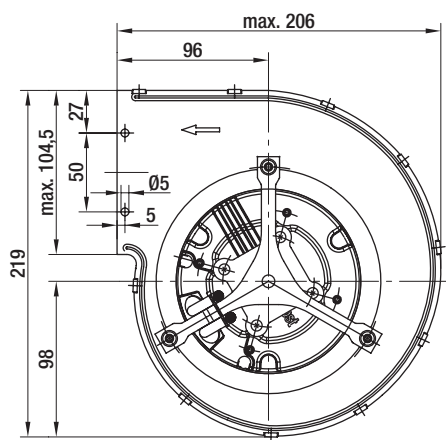
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection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

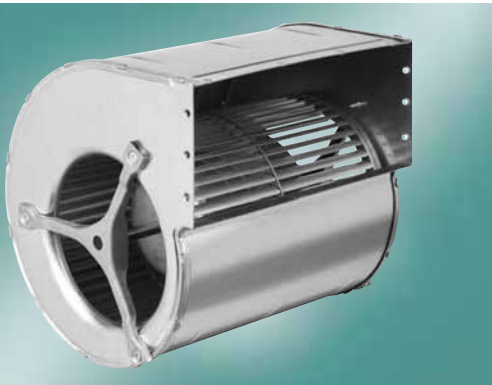
4.0



Core-end sleeves

EC centrifugal blowers

dual inlet, Ø 160

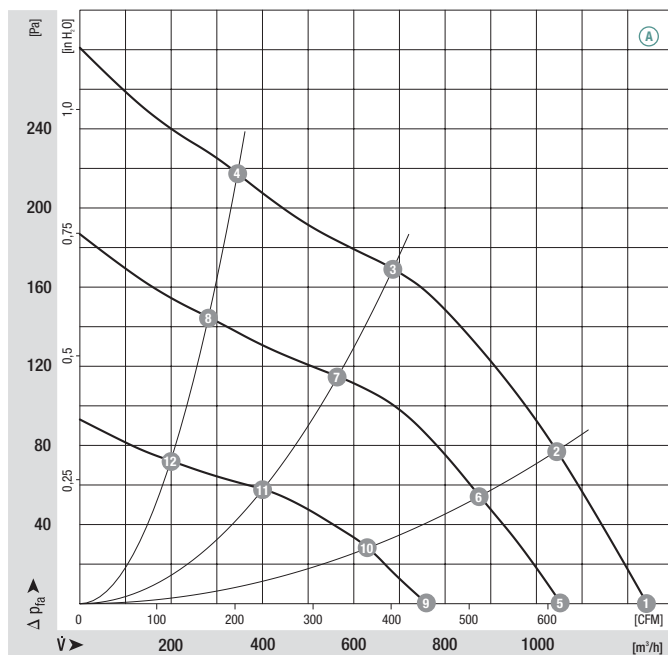


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal; rotor 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



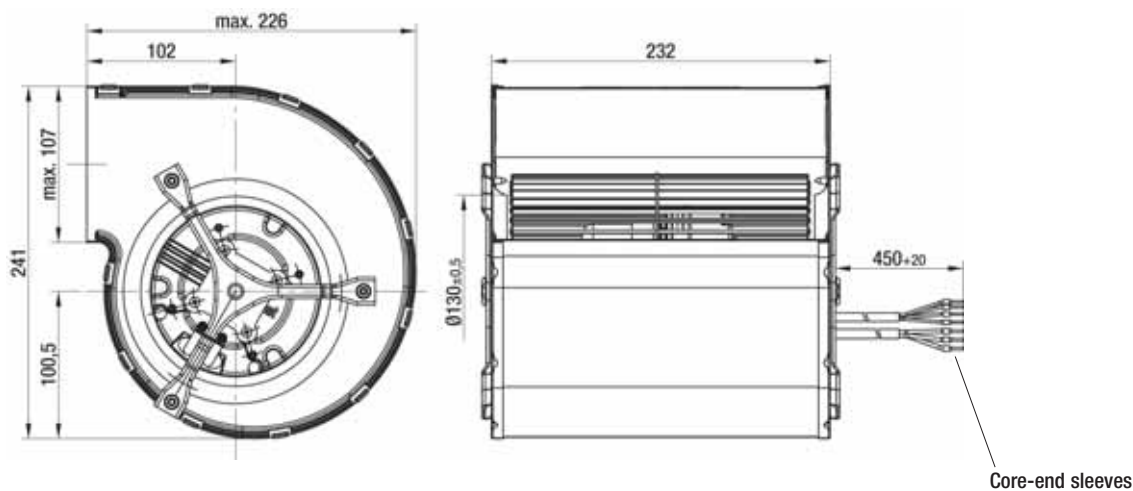
Mass of
centrifugal blower

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

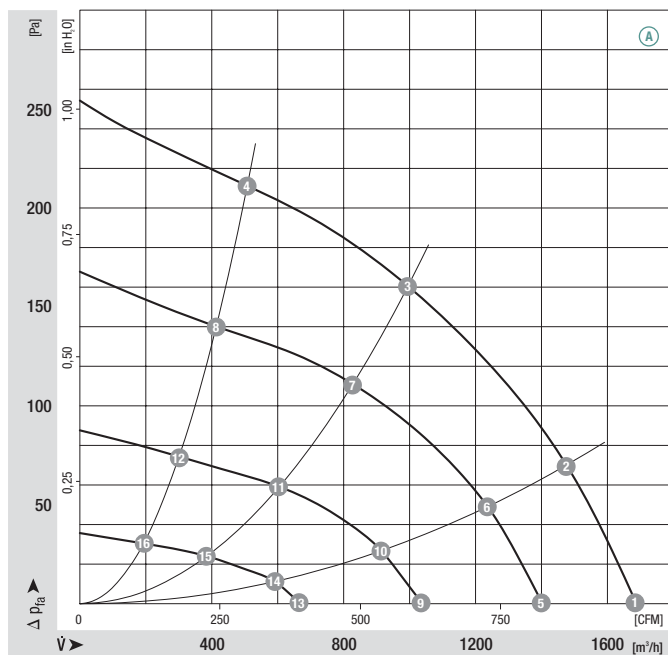
Nominal data

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

