

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

Type

Motor

Curve

Nominal voltage

Frequency

Speed/rpm

Max. power input (1)

Max. current draw (1)

Min. back pressure

Perm. amb. temp.

Electr. connection

*3G 140

M3G 055-CF

Ⓐ

1~ 115

50/60

1790

70

1.00

0

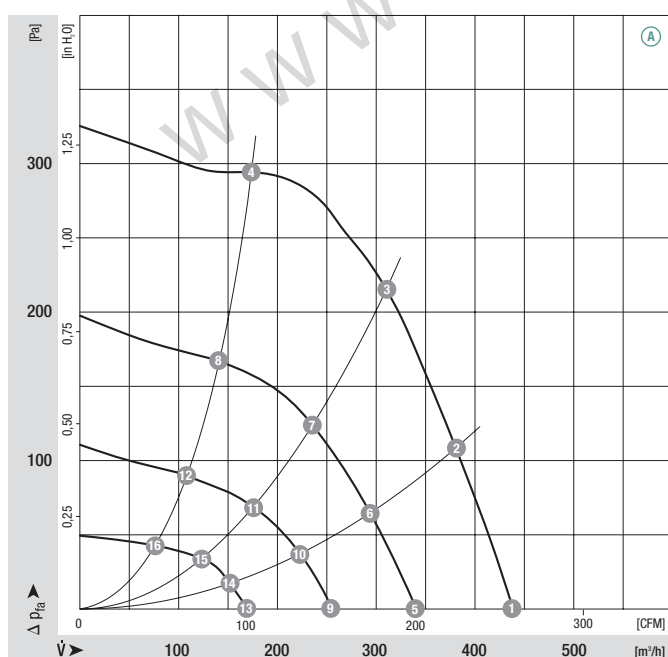
-25 to +60

H1)

subject to alterations

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

Curves

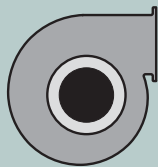


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1790	70	1.00	63	—
Ⓐ 2	1900	63	1.00	61	46
Ⓐ 3	2040	53	0.80	60	61
Ⓐ 4	2250	36	0.50	58	55
Ⓐ 5	1410	33	0.60	58	—
Ⓐ 6	1500	30	0.55	56	46
Ⓐ 7	1600	25	0.45	54	56
Ⓐ 8	1790	18	0.30	53	48
Ⓐ 9	1060	14	0.35	51	—
Ⓐ 10	1105	13	0.30	50	46
Ⓐ 11	1210	11	0.25	47	56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

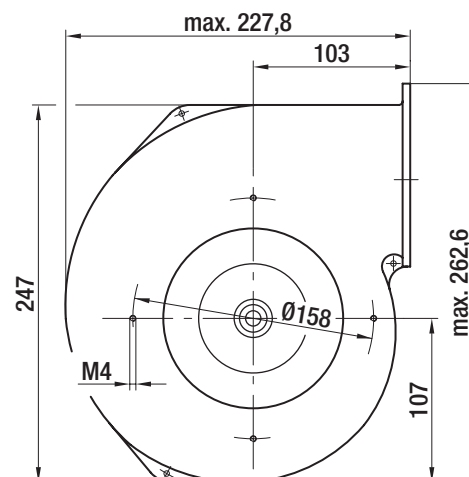
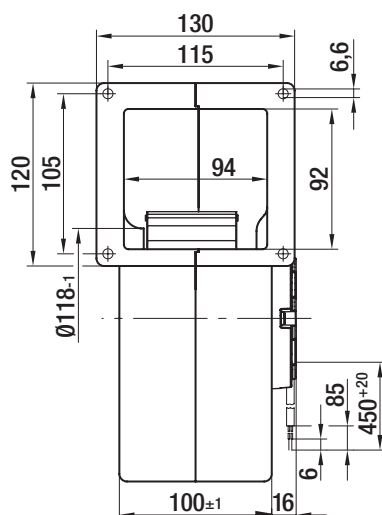
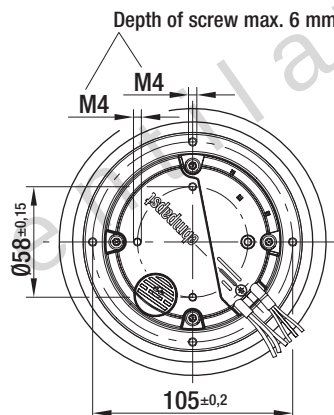
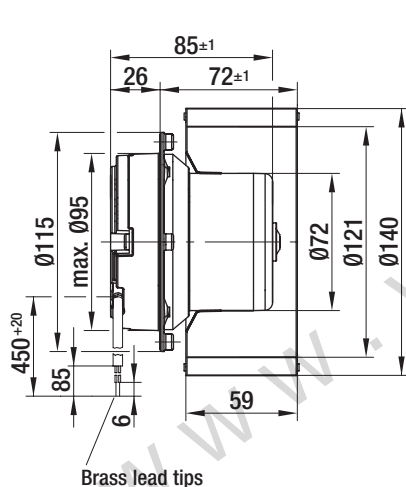
kg

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

Type

Motor

Curve

Nominal voltage

Frequency

Speed/rpm

Max. power input ⁽¹⁾

Max. current draw ⁽¹⁾

Min. back pressure

Perm. amb. temp.

Electr. connection

*3G 140

M3G 055-CF

Ⓐ

1~ 230

50/60

1800

66

0.50

0

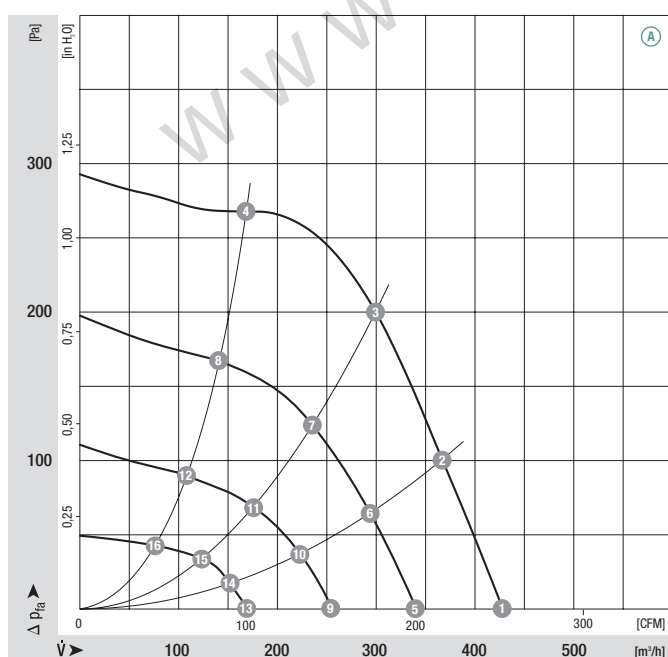
-25 to +60

H1)

subject to alterations

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

Curves

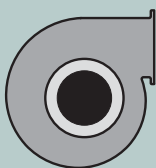


	n	P ₁	I	L _{pA}	η _{IL}
	[rpm]	[W]	[A]	[dB(A)]	[%]
Ⓐ 1	1800	66	0.50	63	—
Ⓐ 2	1860	58	0.40	62	46
Ⓐ 3	1970	49	0.35	60	56
Ⓐ 4	2170	33	0.25	58	48
Ⓐ 5	1410	33	0.30	58	—
Ⓐ 6	1500	30	0.25	56	46
Ⓐ 7	1600	25	0.25	54	56
Ⓐ 8	1790	18	0.15	53	48
Ⓐ 9	1060	14	0.15	51	—
Ⓐ 10	1105	13	0.15	50	46
Ⓐ 11	1210	11	0.15	47	56
Ⓐ 12	1355	8	0.10	47	48
Ⓐ 13	705	4	0.10	40	—
Ⓐ 14	750	4	0.10	39	46
Ⓐ 15	800	3	0.10	38	56
Ⓐ 16	895	3	0.10	37	48

- **Technical features:**
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST; VDE, UL, CSA, CCC are applied for
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

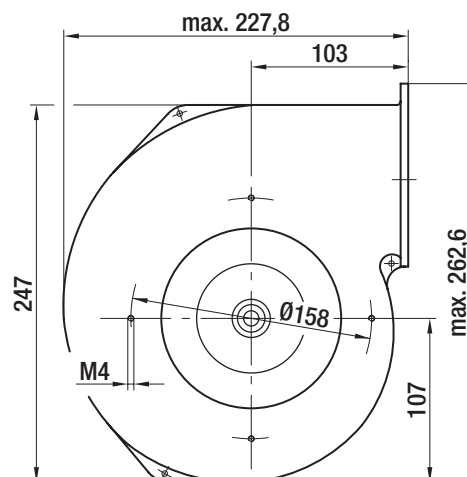
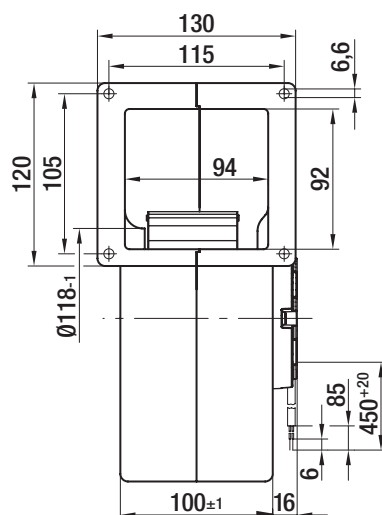
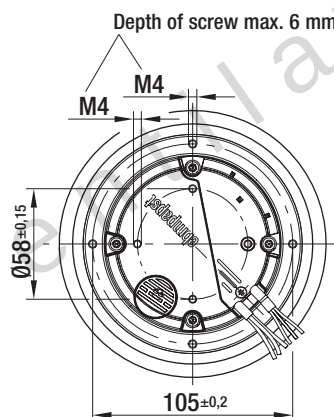
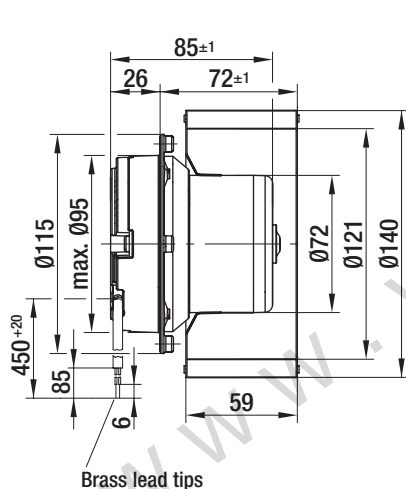
kg

R3G 140-AV03 -02

1.3

G3G 140-AV03 -02

2.6



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 140



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

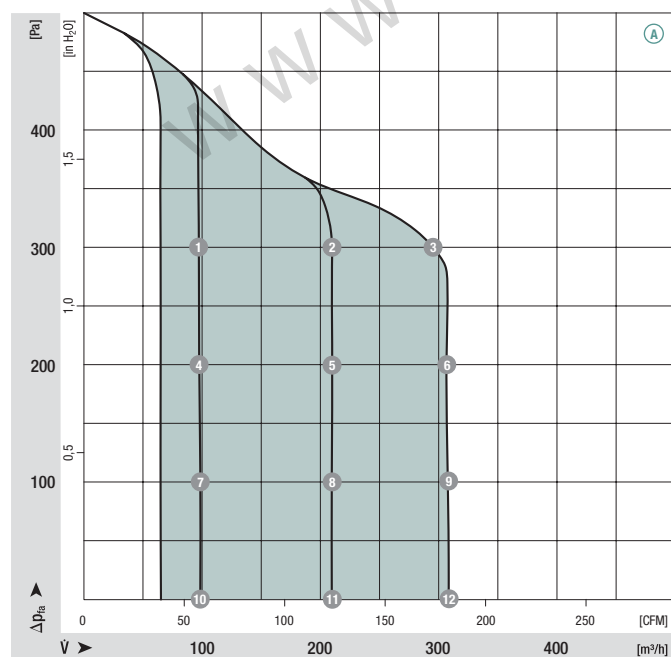
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm rpm	Max. power input (1) W	Max. current draw (1) A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection 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

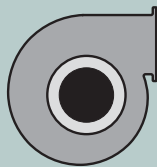


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2390	29	0.40	59	37
Ⓐ 2	2450	55	0.80	60	50
Ⓐ 3	2460	67	1.00	60	57
Ⓐ 4	1920	17	0.30	54	38
Ⓐ 5	1960	30	0.70	55	54
Ⓐ 6	2130	55	0.80	60	55
Ⓐ 7	1300	9	0.20	46	36
Ⓐ 8	1550	22	0.30	51	48
Ⓐ 9	1760	40	0.60	58	48
Ⓐ 10	440	3	0.10	33	—
Ⓐ 11	880	9	0.15	45	—
Ⓐ 12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

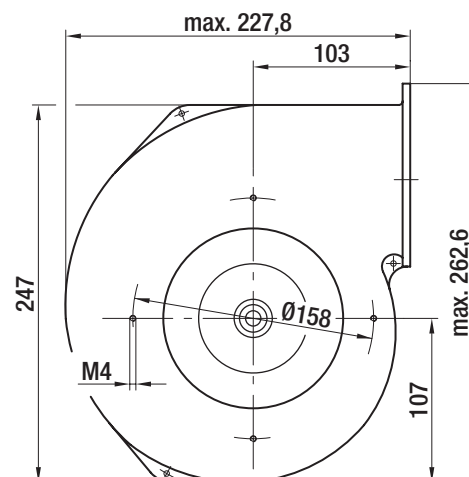
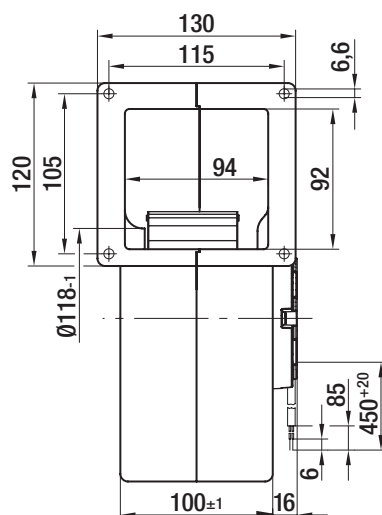
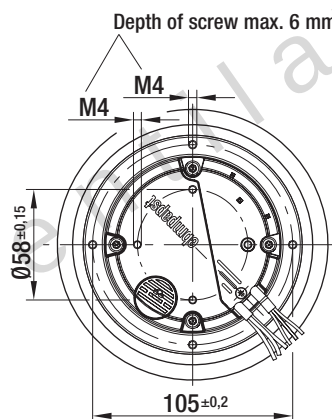
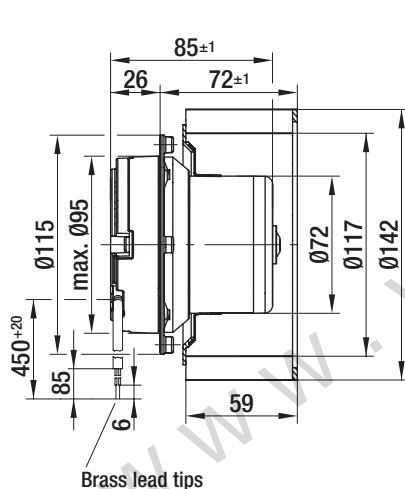
kg

R3G 140-AW21 -12

1.3

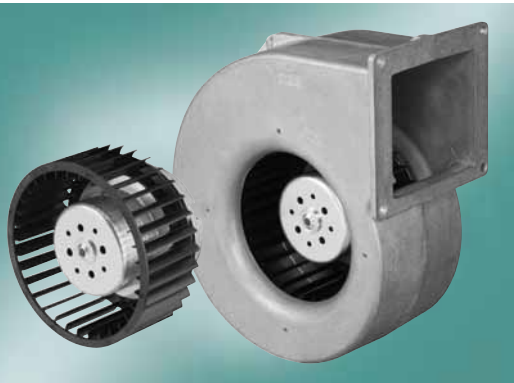
G3G 140-AW21 -12

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

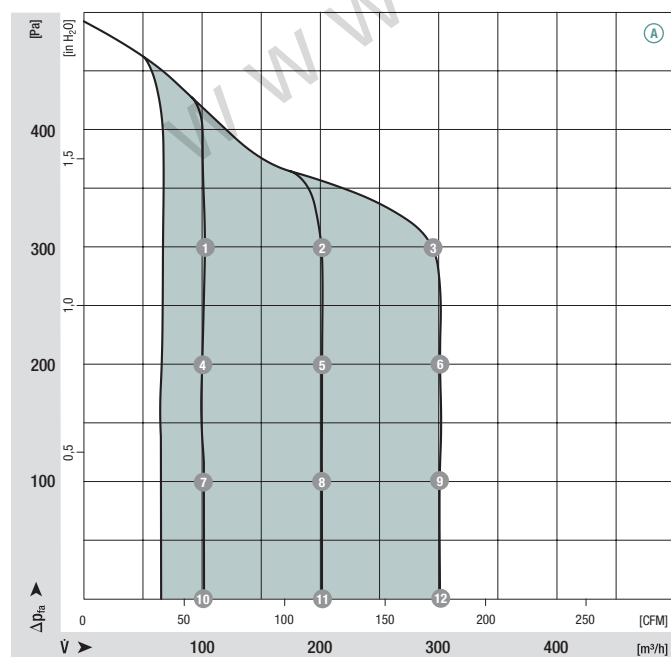
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm rpm	Max. power input (1) W	Max. current draw (1) A	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection 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

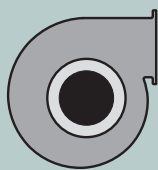


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2380	33	0.25	59	37
Ⓐ 2	2495	51	0.45	60	50
Ⓐ 3	2400	67	0.55	60	57
Ⓐ 4	2030	22	0.20	54	38
Ⓐ 5	2000	34	0.30	55	54
Ⓐ 6	2110	61	0.50	60	55
Ⓐ 7	1325	12	0.10	46	36
Ⓐ 8	1460	21	0.20	51	48
Ⓐ 9	1755	43	0.35	58	48
Ⓐ 10	480	3	0.05	33	—
Ⓐ 11	890	11	0.10	45	—
Ⓐ 12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

- **Technical features:**
 - Input for set value Lin 0-10 VDC / PWM (1.7 V Δ 50 m³/h, 10 V Δ 300 m³/h)
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
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- Output 10 VDC max. 1.1 mA
- Tach output
- Locked-rotor protection



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

kg

R3G 140-AW05-12

1.3

G3G 140-AW05-12

2.6

