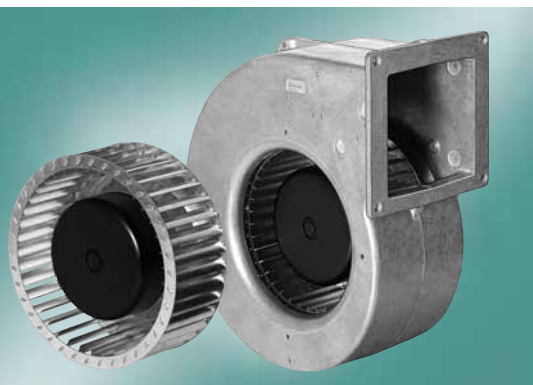


EC centrifugal fan and blowers

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

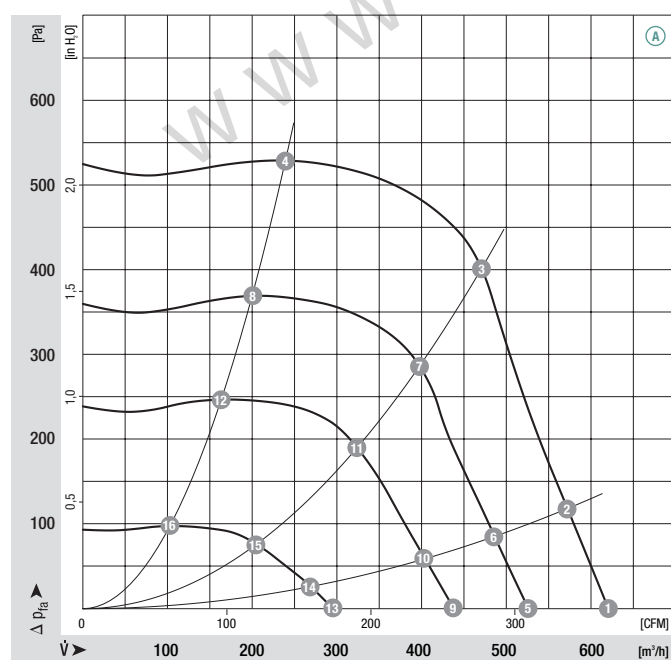
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	Pa	°C	p. 60
*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

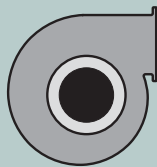


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2100	166	2.10	69	—
Ⓐ 2	2230	167	2.10	68	41
Ⓐ 3	2550	164	2.10	69	58
Ⓐ 4	2640	104	1.40	67	49
Ⓐ 5	1810	106	1.40	64	—
Ⓐ 6	1930	105	1.40	64	38
Ⓐ 7	2160	102	1.30	65	55
Ⓐ 8	2230	62	0.90	62	43
Ⓐ 9	1510	64	0.90	60	—
Ⓐ 10	1600	64	0.90	60	36
Ⓐ 11	1780	61	0.90	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
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

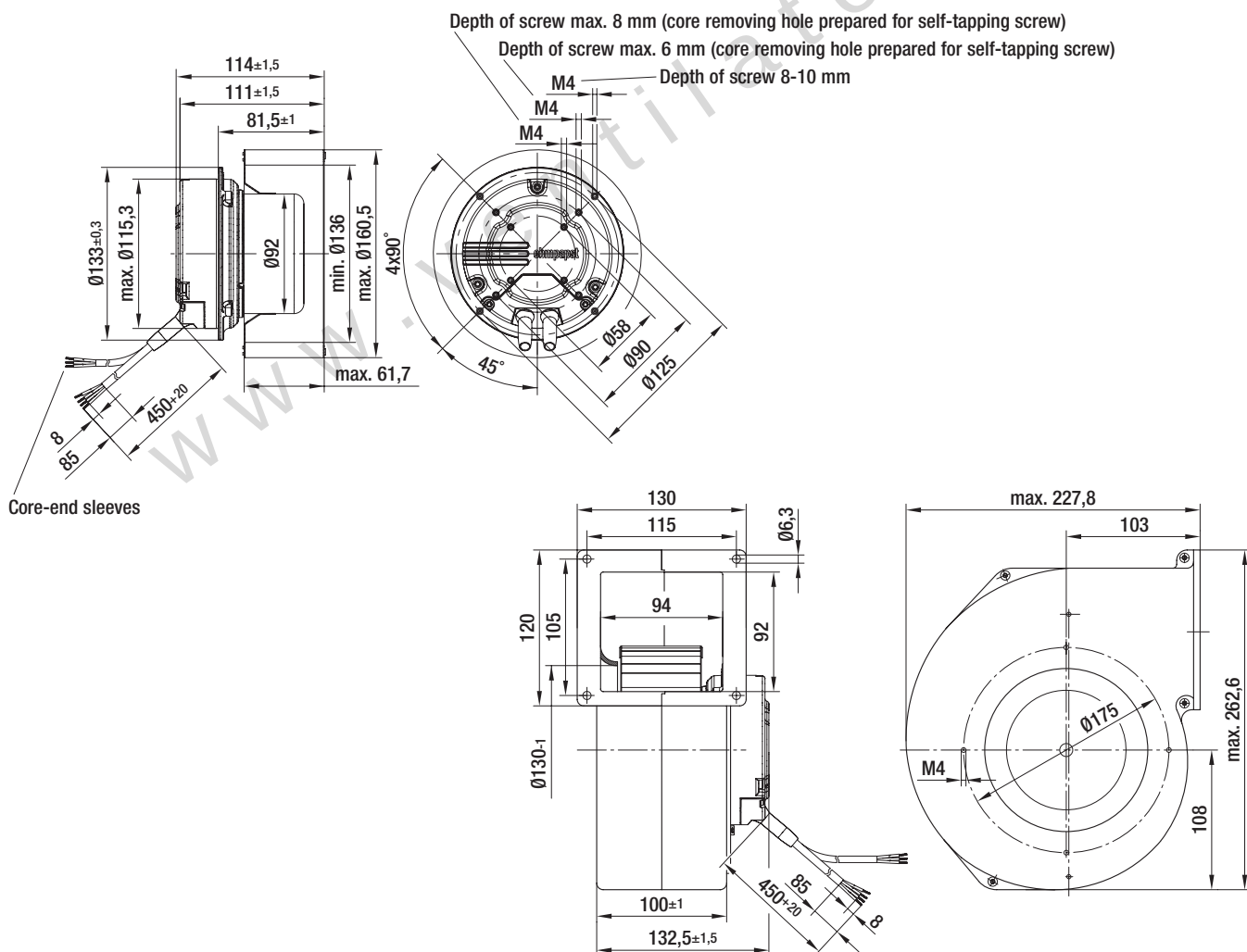
kg

R3G 160-AC70 -01

2.0

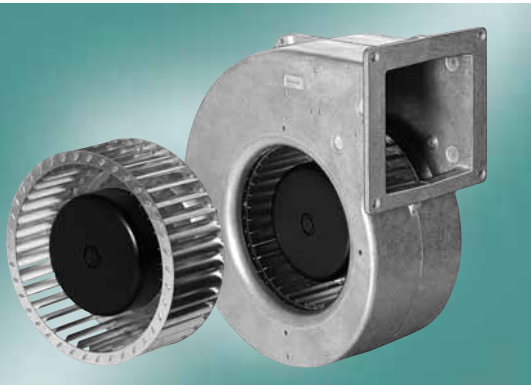
G3G 160-AC70 -01

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

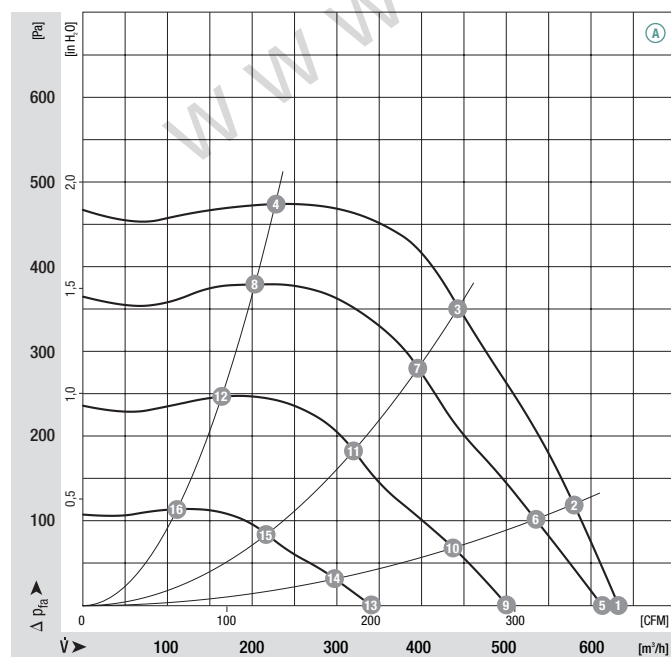
Nominal data

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

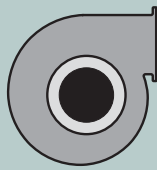


	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2150	170	1.25	70	—
Ⓐ 2	2320	172	1.30	70	39
Ⓐ 3	2450	139	1.10	68	41
Ⓐ 4	2540	91	0.70	67	46
Ⓐ 5	2070	153	1.10	69	—
Ⓐ 6	2090	138	1.00	67	40
Ⓐ 7	2150	101	0.80	65	56
Ⓐ 8	2205	68	0.60	63	45
Ⓐ 9	1700	91	0.70	63	—
Ⓐ 10	1730	80	0.60	62	37
Ⓐ 11	1760	60	0.50	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
 - Output 10 VDC max. 1.1 mA
 - Tach output
 - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for



Mass of centrifugal fan



Mass of centrifugal blower

Centrifugal fan

kg

Centrifugal blower with flange

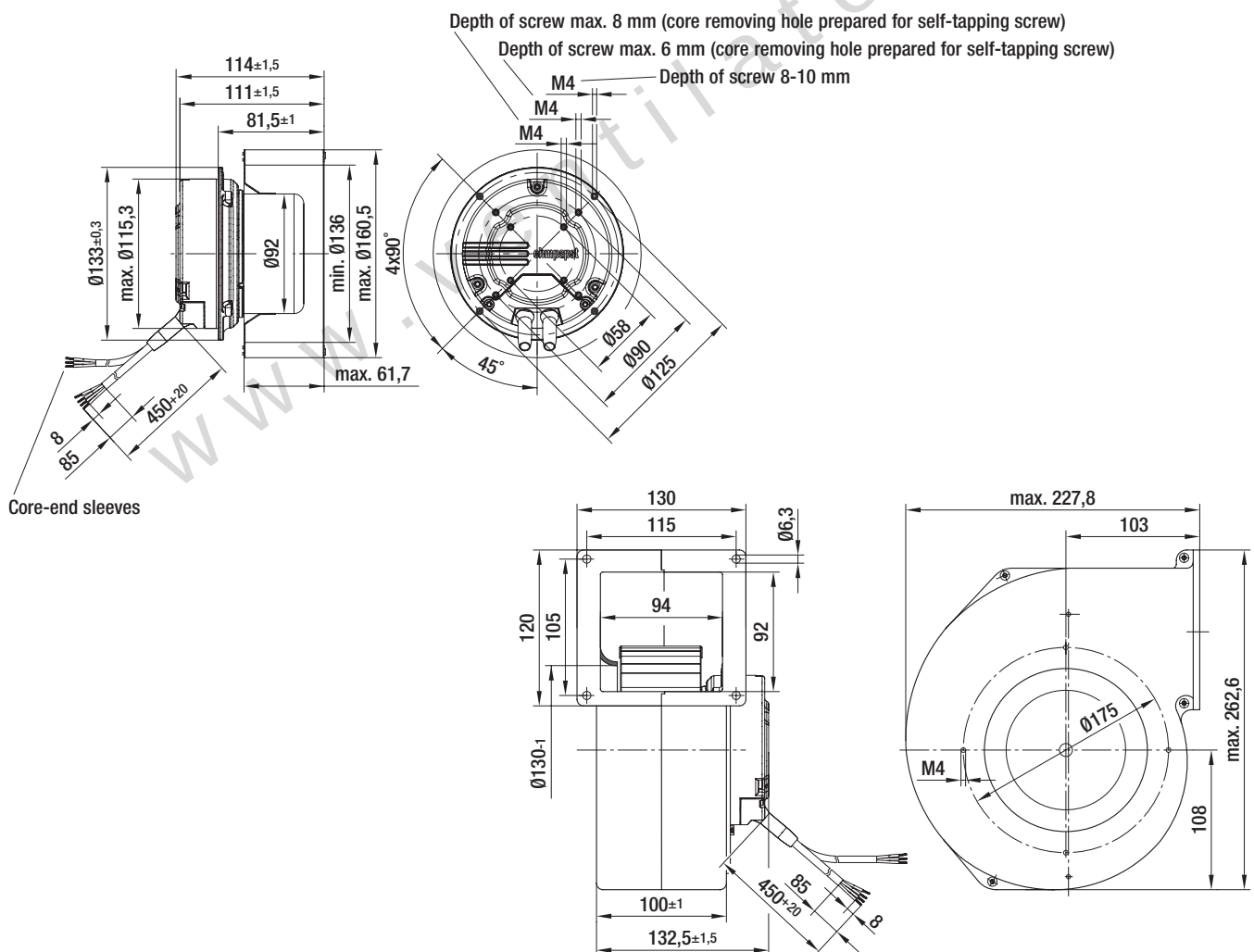
kg

R3G 160-AC50 -01

2.0

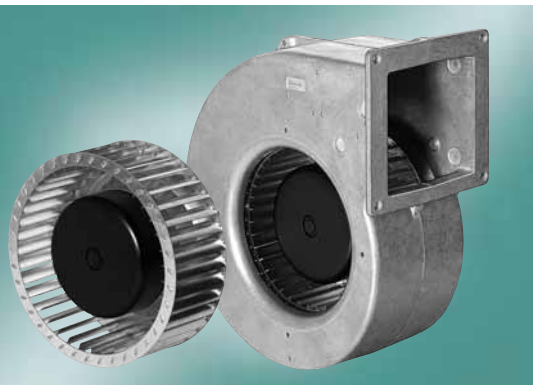
G3G 160-AC50 -01

3.5



EC centrifugal fan and blowers

single inlet, constant air flow, Ø 160



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

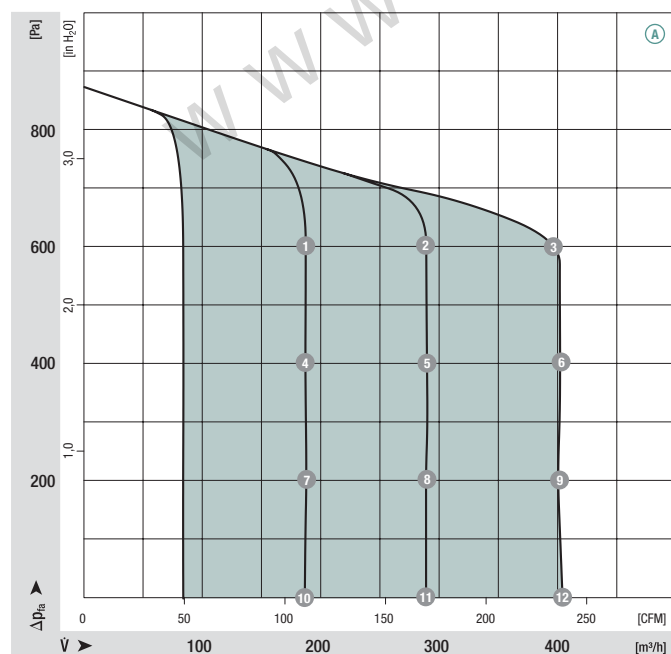
Nominal data

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

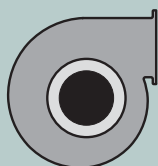


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2910	110	0.90	68	44
Ⓐ 2	2930	142	1.10	69	52
Ⓐ 3	2780	175	1.30	71	63
Ⓐ 4	2380	68	0.60	63	47
Ⓐ 5	2360	88	0.70	65	58
Ⓐ 6	2450	132	0.95	67	62
Ⓐ 7	1690	35	0.30	57	49
Ⓐ 8	1760	51	0.40	60	56
Ⓐ 9	2020	94	0.70	63	50
Ⓐ 10	610	9	0.10	40	—
Ⓐ 11	950	22	0.25	51	—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

