

EC centrifugal fans and modules

backward curved, 3-D, Ø 400, RS485 ebmBUS



- **Material:** Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, joined by tabs
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20
- **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

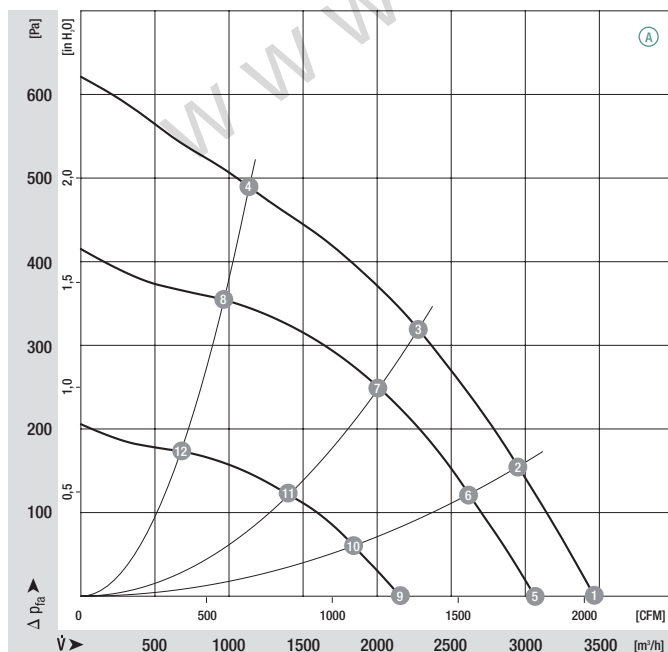
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 400	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1470	370	1.65	-25 to +40	p. 606

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	1470	323	1.45	73	—
Ⓐ 2	1430	362	1.60	69	53
Ⓐ 3	1420	370	1.65	64	68
Ⓐ 4	1470	319	1.40	66	52
Ⓐ 5	1300	210	0.90	71	—
Ⓐ 6	1300	255	1.10	65	53
Ⓐ 7	1300	270	1.20	61	68
Ⓐ 8	1300	230	1.00	64	52
Ⓐ 9	910	90	0.40	61	—
Ⓐ 10	910	100	0.40	57	53
Ⓐ 11	910	108	0.50	53	68
Ⓐ 12	910	92	0.40	51	52

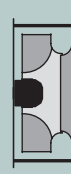
- **Technical features:**
 - PFC (active)
 - RS485 ebmBUS
- **EMC:** Interference emission acc. to EN 61000-6-4 (industrial environment)
Interference immunity acc. to EN 61000-6-2 (industrial environment)
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Electrical connection:** Via connection lead with plug (accessory)
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA; VDE, CCC, GOST are applied for
- Operation and alarm display: Reversible voltage output 0 V / +15 V (max. 50 mA)
- Over-temperature protected electronics / motor



Mass of centrifugal fan



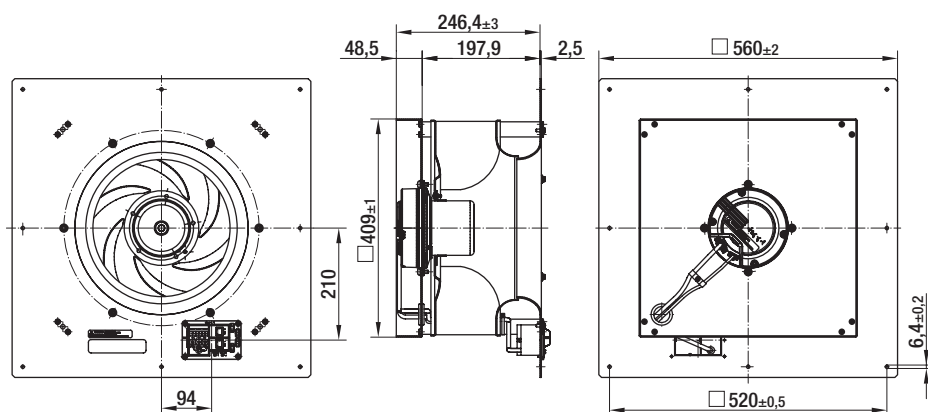
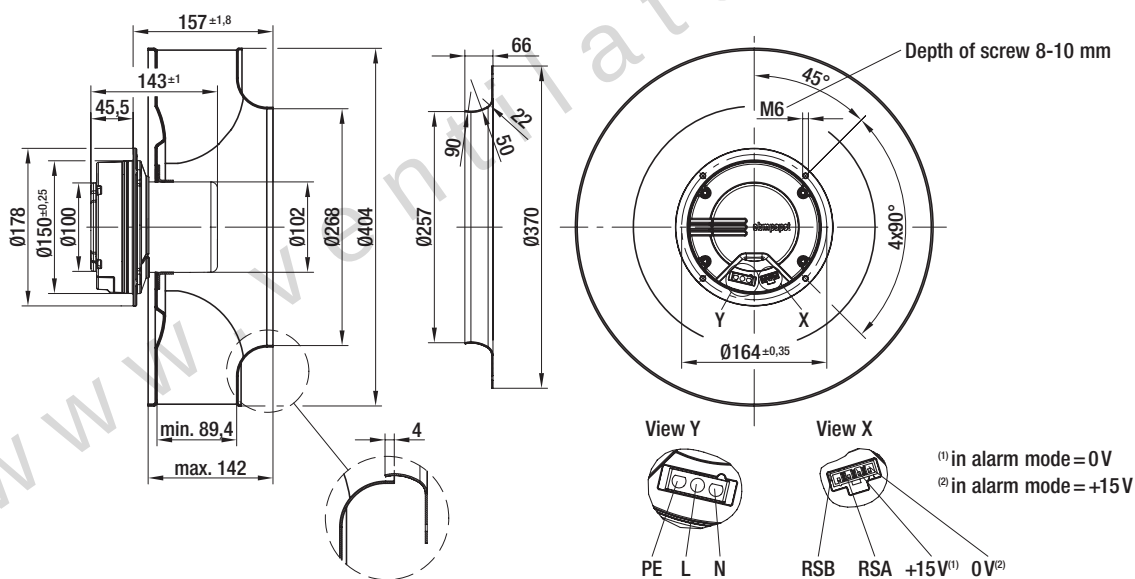
Inlet nozzle (long)



Centrifugal module with support plate

Mass of centrifugal module with support plate

Centrifugal fan	kg	Inlet nozzle (long)	Centrifugal module with support plate	kg
R3G 400-AD27 -61	5.8	54476-2-4013	K3G 400-AD27 -61	9.8



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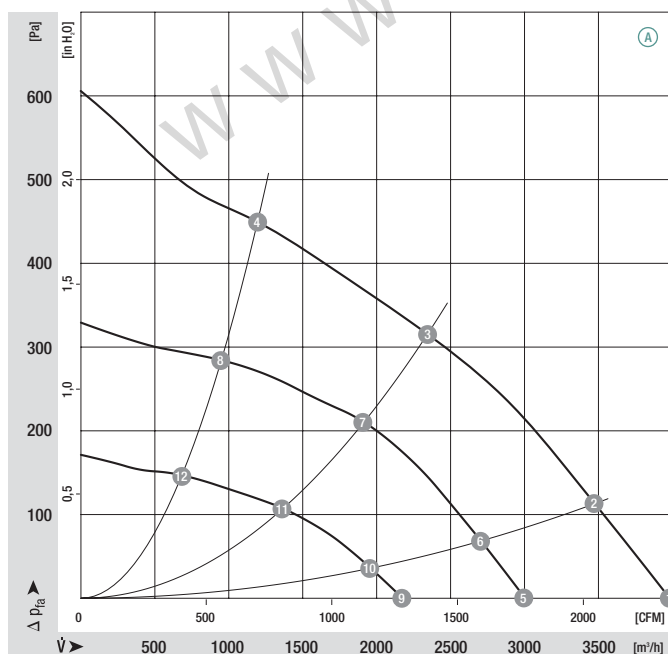
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 400	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1420	380	1.70	-25 to +40	p. 606

subject to alterations

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

Curves

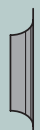


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	1420	327	1.45	73	—
Ⓐ 2	1395	355	1.55	71	40
Ⓐ 3	1370	380	1.70	66	64
Ⓐ 4	1415	333	1.45	69	54
Ⓐ 5	1120	187	0.80	68	—
Ⓐ 6	1120	207	0.90	65	40
Ⓐ 7	1120	225	1.00	60	64
Ⓐ 8	1120	173	0.80	61	54
Ⓐ 9	800	85	0.40	60	—
Ⓐ 10	800	92	0.40	58	40
Ⓐ 11	800	97	0.40	53	64
Ⓐ 12	800	85	0.40	54	54

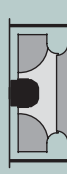
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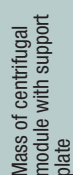
Mass of centrifugal fan



**Inlet nozzle
(long)**



Centrifugal module with support plate



kg

R3G 400-AC30 -61	5.9	54476-2-4013	K3G 400-AC30 -61	9.9
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