

EC centrifugal fans and modules

backward curved, 3-D, Ø 310, RS485, ebmBUS



- **Material:** Support plate: Sheet aluminium, spacer profiles: Aluminium
Impeller: Sheet aluminium, laser-welded
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

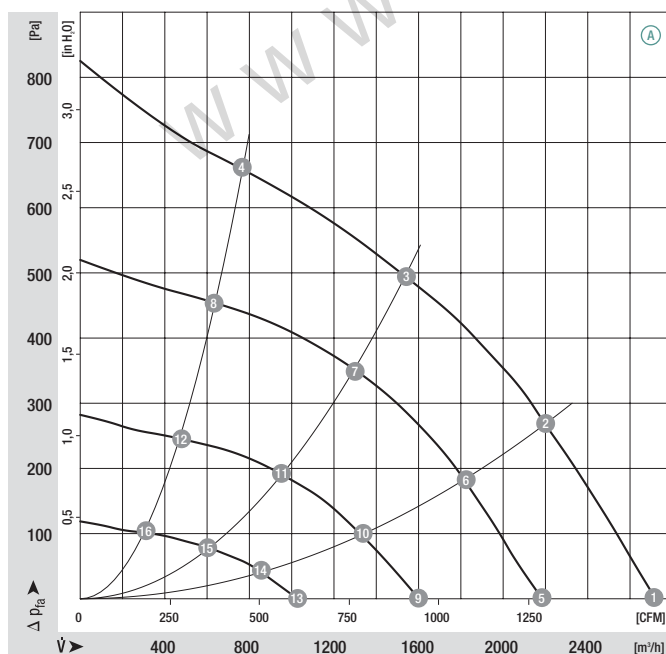
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 606
*3G 310	M3G 084-DF	Ⓐ	1~ 200-277	50/60	2340	370	1.70	-25 to +40	K2)

subject to alterations

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

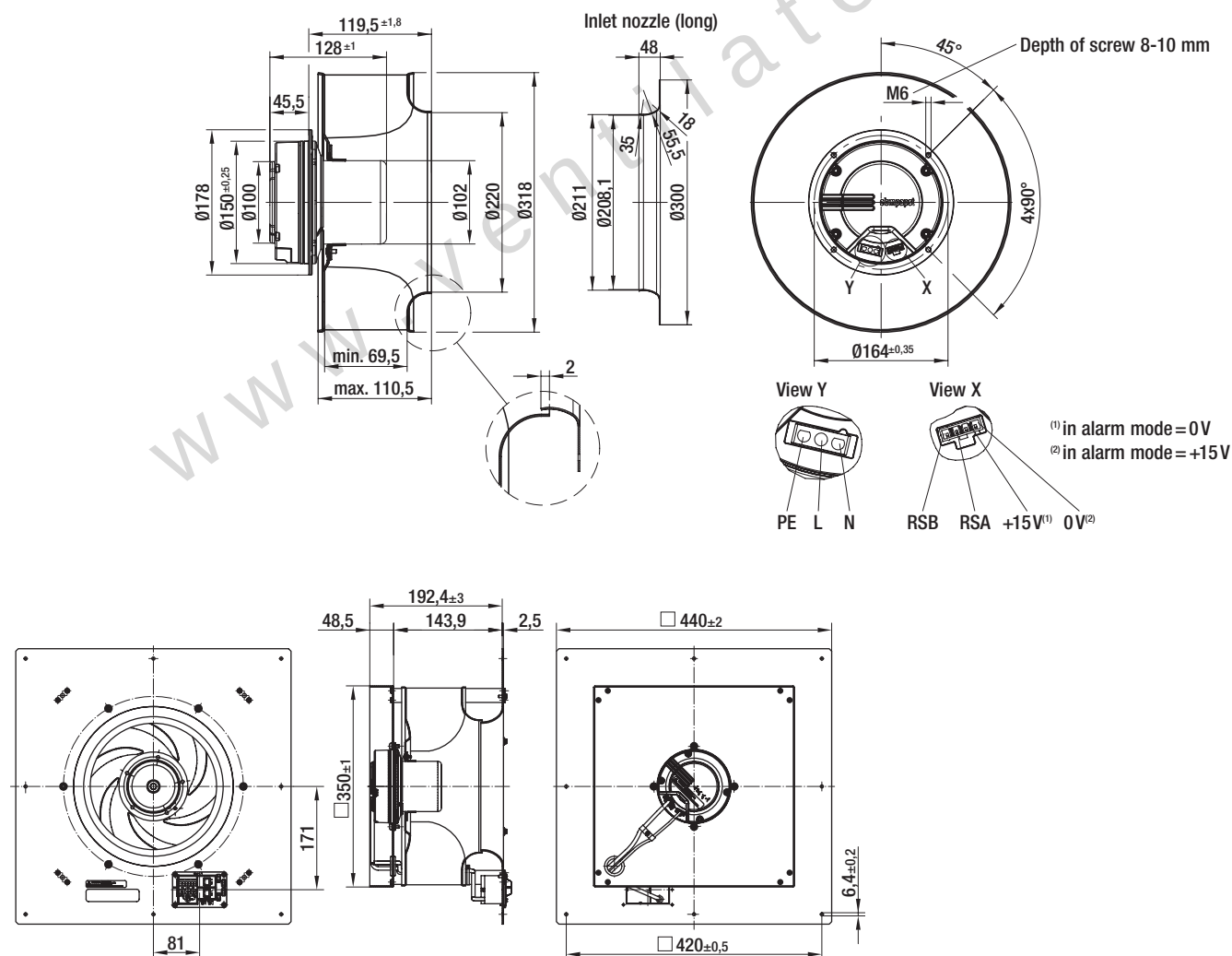
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	2340	265	1.20	74	—
Ⓐ 2	2270	335	1.50	71	63
Ⓐ 3	2240	370	1.70	70	66
Ⓐ 4	2290	335	1.50	70	48
Ⓐ 5	1910	160	0.70	69	—
Ⓐ 6	1910	205	0.90	67	63
Ⓐ 7	1910	240	1.00	66	66
Ⓐ 8	1910	205	0.90	66	48
Ⓐ 9	1410	80	0.40	61	—
Ⓐ 10	1410	98	0.40	59	63
Ⓐ 11	1410	112	0.50	58	66
Ⓐ 12	1410	103	0.50	57	48
Ⓐ 13	910	40	0.20	50	—
Ⓐ 14	910	42	0.20	47	63
Ⓐ 15	910	46	0.20	47	66
Ⓐ 16	910	44	0.20	48	48

- **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

Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module with support plate	kg
R3G 310-AJ38 -61	4.3	31050-2-4013	31051-2-4013	K3G 310-AJ38 -61	7.1



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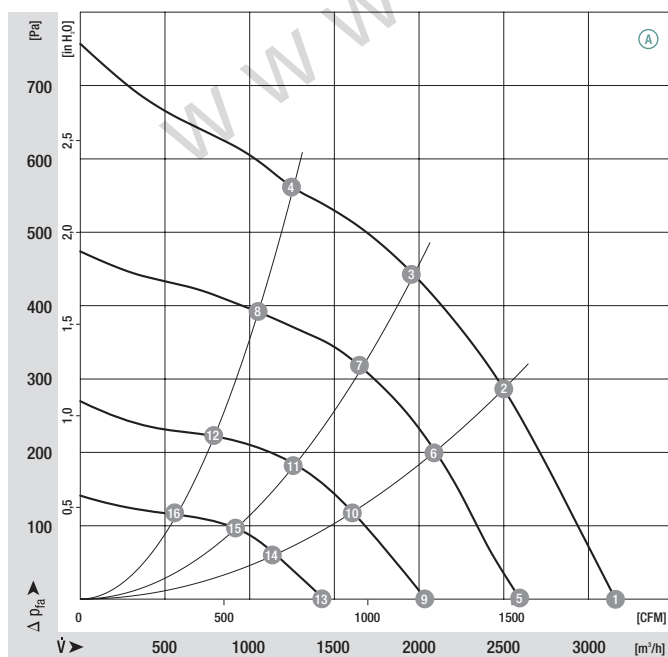
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 310	M3G 084-FA	A	1~ 200-277	50/60	2200	455	2.00	-25 to +40	p. 606

subject to alterations

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

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
A 1	2200	345	1.50	73	—
A 2	2150	430	1.90	70	60
A 3	2130	455	2.00	68	64
A 4	2170	420	1.80	69	54
A 5	1800	200	0.90	68	—
A 6	1800	265	1.20	65	60
A 7	1800	285	1.20	63	64
A 8	1800	260	1.10	64	54
A 9	1400	90	0.40	61	—
A 10	1400	118	0.50	59	60
A 11	1400	128	0.60	57	64
A 12	1400	113	0.50	58	54
A 13	1000	33	0.10	52	—
A 14	1000	44	0.20	48	60
A 15	1000	47	0.20	48	64
A 16	1000	41	0.20	49	54

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- Over-temperature protected electronics / motor

Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module with support plate	kg
R3G 310-AL28 -61	5.4	31050-2-4013	31051-2-4013	K3G 310-AL28 -61	8.2

