

EC centrifugal fans and modules

backward curved, 3-D, Ø 355, 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

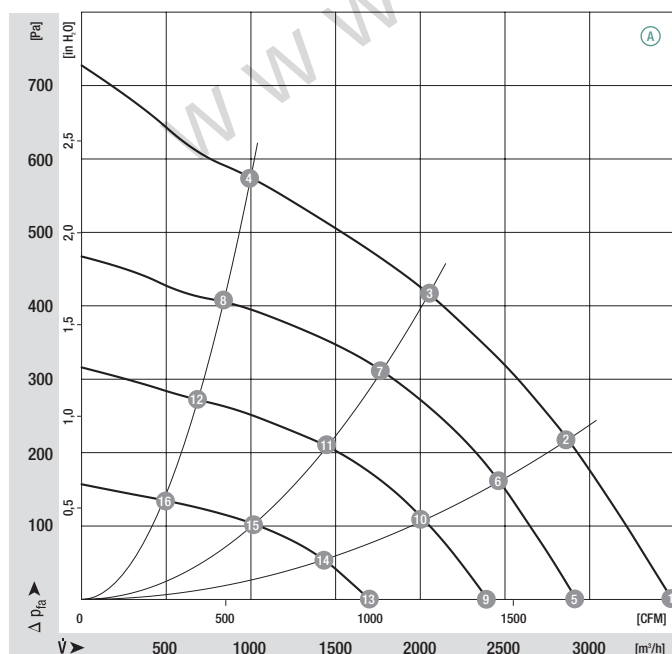
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
*3G 355	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1840	430	1.90	-25 to +40	p. 606

subject to alterations

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

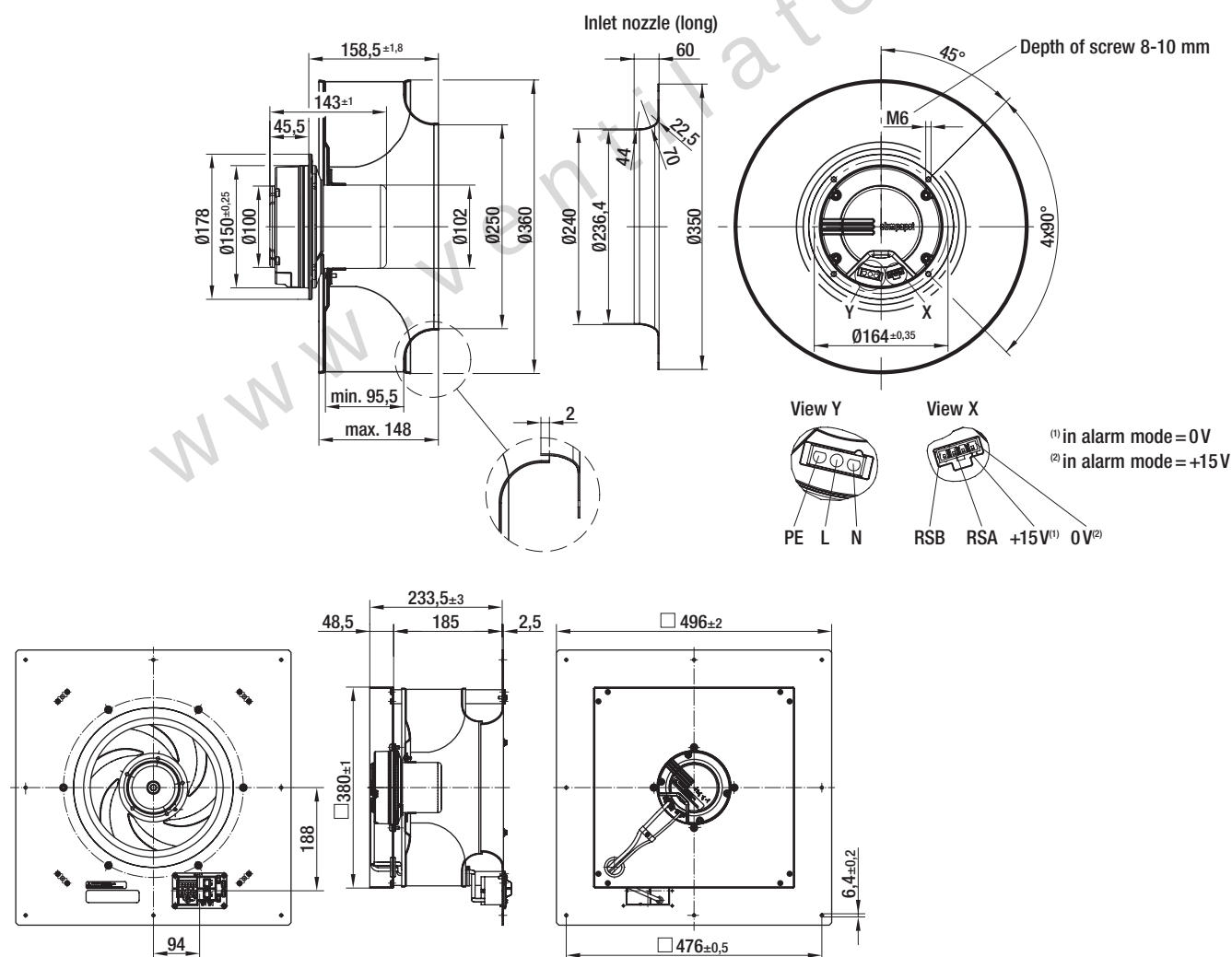
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{HL} [%]
Ⓐ 1	1840	335	1.50	75	—
Ⓐ 2	1790	405	1.80	70	56
Ⓐ 3	1770	430	1.90	66	70
Ⓐ 4	1820	365	1.60	67	58
Ⓐ 5	1540	200	0.90	70	—
Ⓐ 6	1540	256	1.10	66	56
Ⓐ 7	1540	277	1.20	63	70
Ⓐ 8	1540	235	1.00	63	58
Ⓐ 9	1260	115	0.50	64	—
Ⓐ 10	1260	150	0.70	60	56
Ⓐ 11	1260	159	0.70	56	70
Ⓐ 12	1260	125	0.50	57	58
Ⓐ 13	890	55	0.20	55	—
Ⓐ 14	890	67	0.30	52	56
Ⓐ 15	890	70	0.30	49	70
Ⓐ 16	890	59	0.30	49	58

- **Technical features:**
 - PFC (active)
 - RS485 ebus
- **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:** VDE, UL, CSA, 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 355-AM14-61	5.4	35560-2-4013	35561-2-4013	K3G 355-AM14-61	8.7



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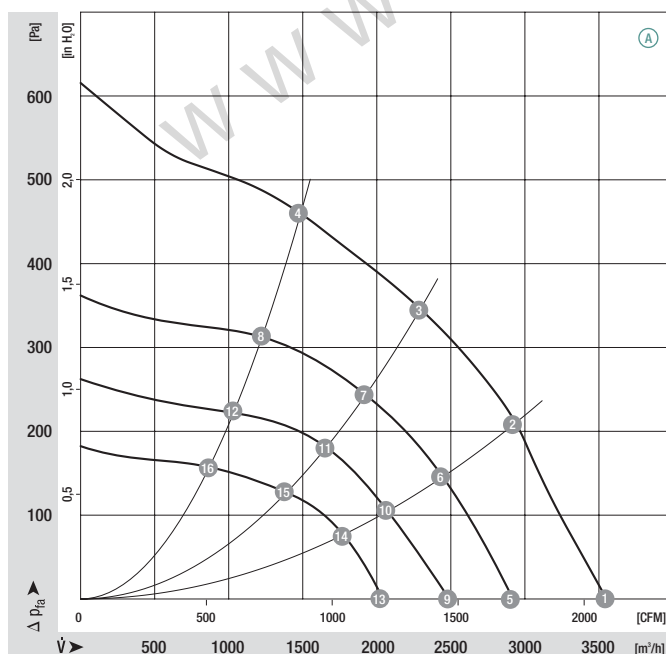
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 606
*3G 355	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1710	395	1.80	-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	1710	305	1.30	72	—
Ⓐ 2	1660	375	1.60	67	58
Ⓐ 3	1650	395	1.80	64	68
Ⓐ 4	1670	365	1.60	66	57
Ⓐ 5	1400	166	0.70	65	—
Ⓐ 6	1400	225	1.00	63	58
Ⓐ 7	1400	245	1.10	60	68
Ⓐ 8	1400	216	0.90	61	57
Ⓐ 9	1200	105	0.50	60	—
Ⓐ 10	1200	150	0.70	58	58
Ⓐ 11	1200	172	0.80	56	68
Ⓐ 12	1200	136	0.60	57	57
Ⓐ 13	1000	60	0.30	55	—
Ⓐ 14	1000	82	0.40	53	58
Ⓐ 15	1000	90	0.40	51	68
Ⓐ 16	1000	80	0.40	53	57

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Centrifugal fan	kg	Inlet nozzle (long)	Inlet nozzle (short)	Centrifugal module with support plate	kg
R3G 355-AN31 -61	5.5	35560-2-4013	35561-2-4013	K3G 355-AN31 -61	8.9

