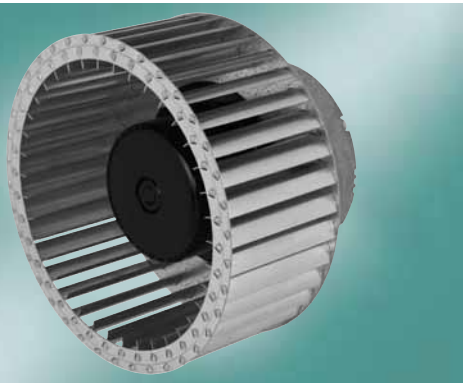


EC centrifugal fan

single inlet, Ø 250



- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54
- **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

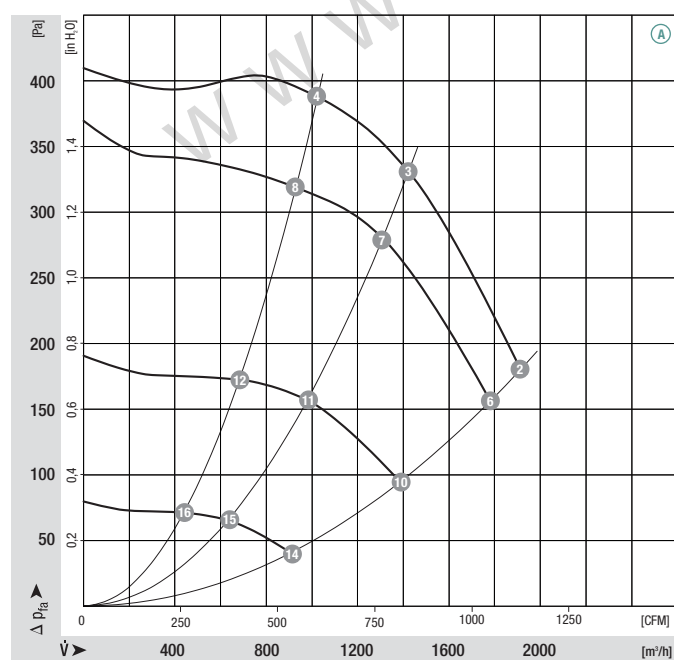
Nominal data

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. 605
R3G 250	M3G 084-FA	Ⓐ	1~ 200-277	50/60	1230	450	2.90	180	-25 to +45	K1)

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 _{HL} [%]
Ⓐ 1	—	—	—	—	—
Ⓐ 2	1230	450	2.90	72	50
Ⓐ 3	1370	338	2.20	70	60
Ⓐ 4	1460	266	1.70	68	56
Ⓐ 5	—	—	—	—	—
Ⓐ 6	1160	357	2.30	71	50
Ⓐ 7	1270	269	1.70	67	60
Ⓐ 8	1320	195	1.30	66	56
Ⓐ 9	—	—	—	—	—
Ⓐ 10	900	166	1.10	64	50
Ⓐ 11	960	118	0.80	60	60
Ⓐ 12	990	87	0.60	58	56
Ⓐ 13	—	—	—	—	—
Ⓐ 14	600	54	0.40	53	50
Ⓐ 15	630	37	0.30	48	60
Ⓐ 16	640	31	0.20	46	56

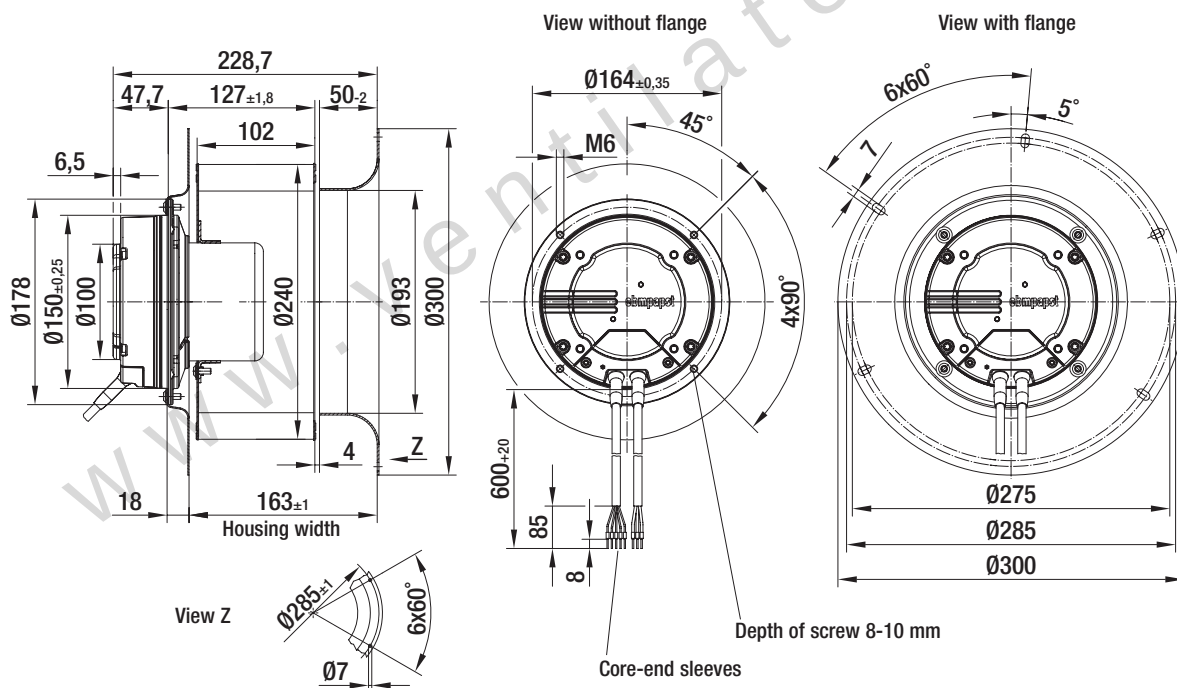
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 61800-5-1, CE
- **Approvals:** UL, CSA, GOST: CCC is applied for



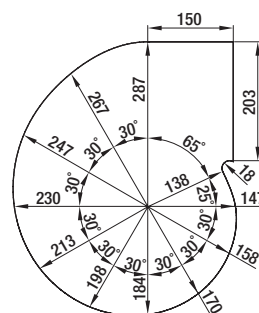
Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle	Flange
R3G 250-AQ28 -71	5.6	25010-2-4013	10011-2-4017

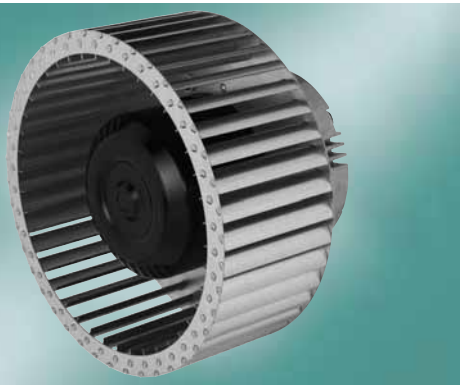


Scroll housing used:



EC centrifugal fan

single inlet, Ø 250



- **Material:** Impeller: Galvanised sheet steel
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

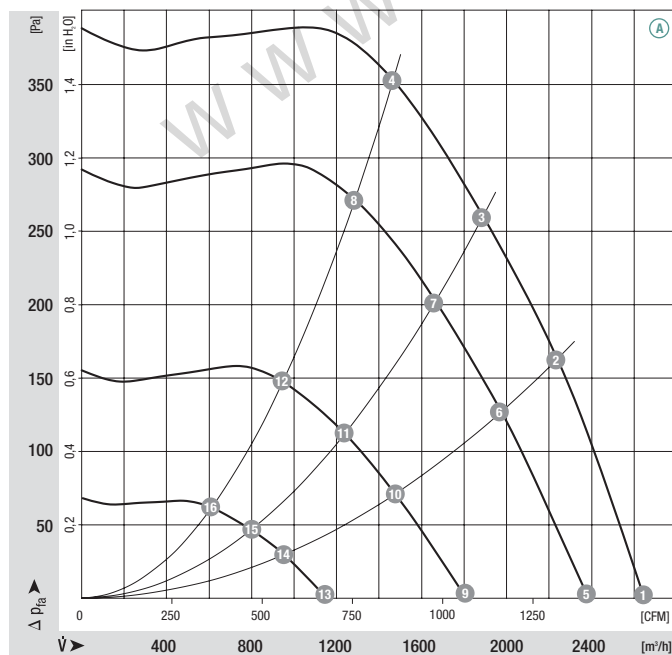
Nominal data

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
R3G 250	M3G 112-EA	A	1~ 200-277	50/60	1320	0.76	3.30	0	-25 to +60	p. 607

subject to alterations

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

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
A 1	1320	0.76	3.30	81	—
A 2	1380	0.61	2.70	78	46
A 3	1410	0.51	2.30	76	50
A 4	1450	0.39	1.70	73	53
A 5	1190	0.55	2.40	78	—
A 6	1220	0.43	1.90	75	46
A 7	1250	0.36	1.60	73	50
A 8	1280	0.28	1.20	69	53
A 9	910	0.25	1.10	71	—
A 10	930	0.20	0.90	67	46
A 11	940	0.16	0.70	65	50
A 12	950	0.13	0.60	61	53
A 13	610	0.09	0.40	59	—
A 14	610	0.07	0.40	55	46
A 15	620	0.06	0.30	53	50
A 16	630	0.05	0.30	49	53

- **Technical features:**
 - PFC (active)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - Slave output 0-10 V max. 3 mA
 - Output 20 VDC ($\pm 20\%$) max. 50 mA
 - Output 10 VDC ($+10\%$) max. 10 mA
 - RS485 ebmBUS
 - Alarm relay
- **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
- **Connection leads:** Via terminal strip
- **Protection class:** I (acc. to EN 610800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** UL, CSA, GOST, CCC are applied for
- Line undervoltage detection
- Motor current limitation
- Electronics / motor overtemperature protection
- Locked-rotor protection
- Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

Flange

R3G 250-AS51 -11

7.6

25010-2-4013

10025-2-4017

