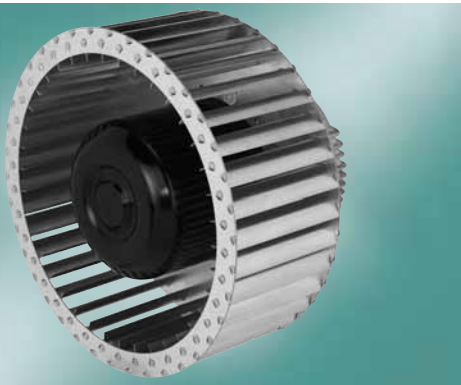


EC centrifugal fan

single inlet, Ø 450



- **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

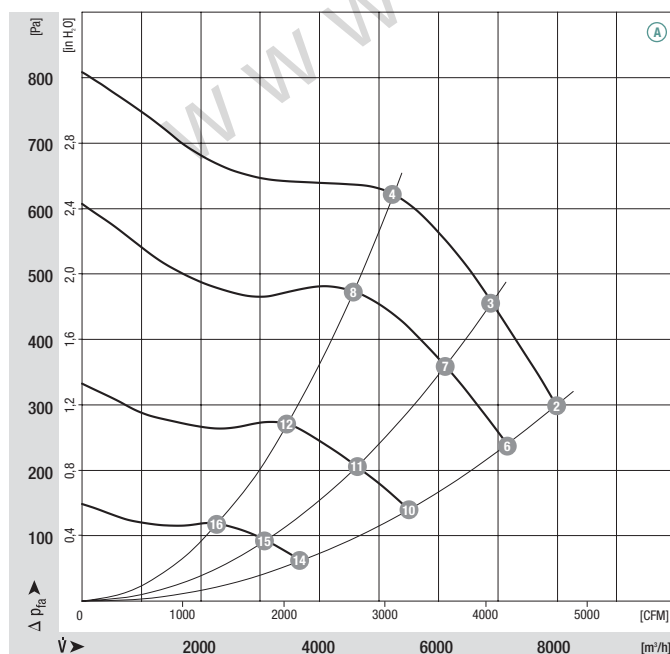
Nominal data

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
			VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 450	M3G 150-NA	A	3~ 380-480	50/60	890	2.65	4.50	300	-25 to +50	M)

subject to alterations

(1) Nominal data in operating point with maximum load and 400 VAC

Curves



	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{HL} [%]
A 1	—	—	—	—	—
A 2	890	2.65	4.50	82	60
A 3	920	2.26	3.50	80	66
A 4	970	1.80	2.80	76	70
A 5	—	—	—	—	—
A 6	790	1.82	3.20	79	60
A 7	810	1.58	2.80	76	66
A 8	840	1.17	2.20	74	70
A 9	—	—	—	—	—
A 10	610	0.83	1.60	71	60
A 11	620	0.73	1.50	68	66
A 12	630	0.54	1.10	66	70
A 13	—	—	—	—	—
A 14	410	0.27	0.70	60	60
A 15	420	0.23	0.60	57	66
A 16	420	0.18	0.50	54	70

- **Technical features:**
 - PFC (passive)
 - Integrated PID controller
 - Control input 0-10 VDC / PWM
 - Input for sensor 0-10 V or 4-20 mA
 - **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
 - **Connection leads:** Via terminal strip
 - **Protection class:** I (acc. to EN 61800-5-1)
 - **Product conforming to standard:** CE
 - **Approvals:** VDE, UL, CSA, GOST
- 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
- Line undervoltage / phase failure detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start



Mass of centrifugal fan



Centrifugal fan

kg

Inlet nozzle

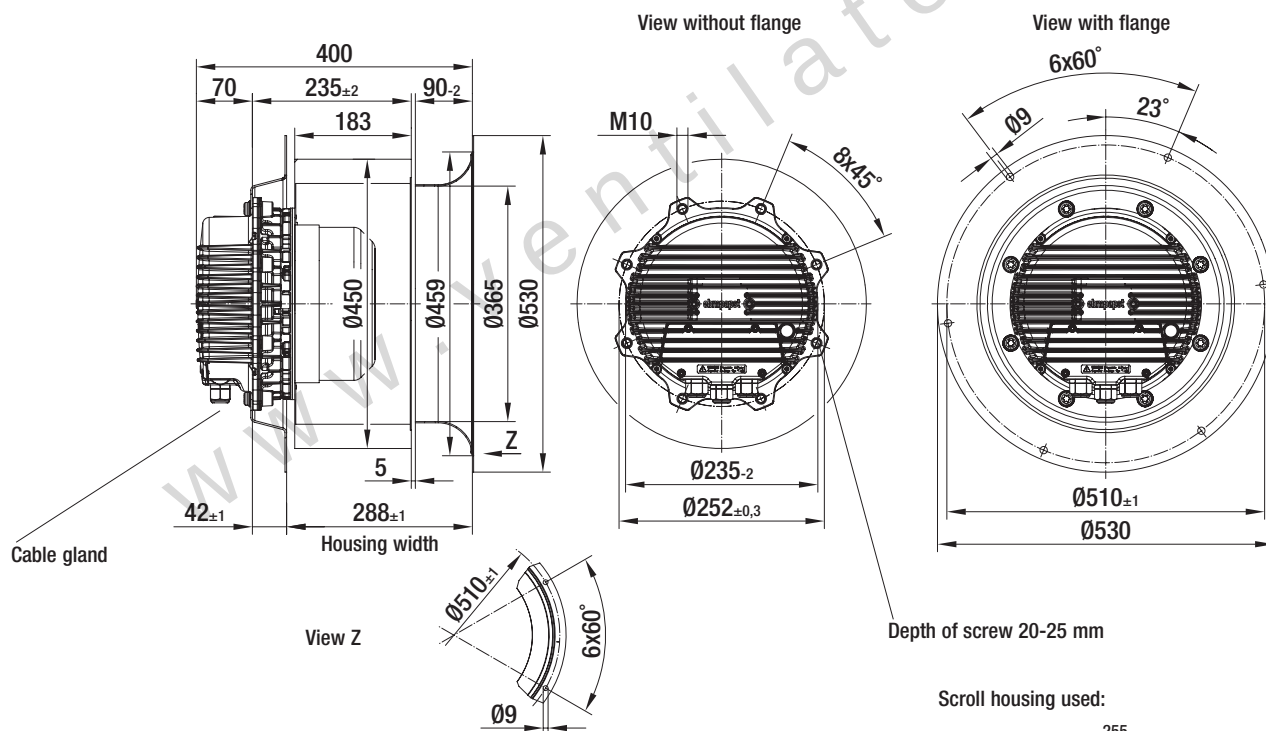
Flange

R3G 450-AR03 -03

31.5

45010-2-4013

10053-2-4017



Cable gland

View Z

Housing width

View without flange

View with flange

Depth of screw 20-25 mm

Scroll housing used: