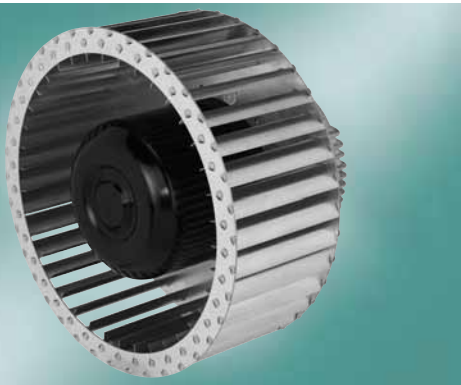


EC centrifugal fan

single inlet, Ø 400



- **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

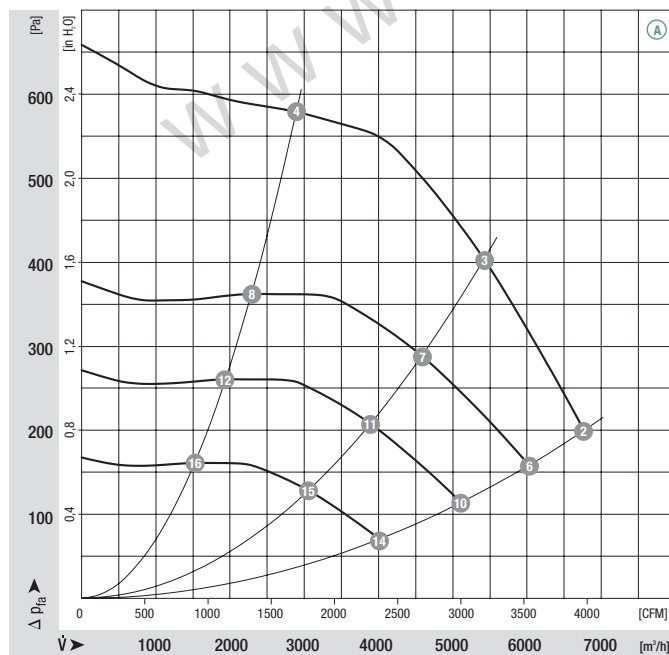
Nominal data

Type	Motor	VAC	Hz	rpm	kW	A	Pa	°C	p. 608
R3G 400	M3G 150-IF	Ⓐ 3~ 380-480	50/60	930	2.13	3.30	200	-25 to +45	Ⓜ)

subject to alterations

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

Curves



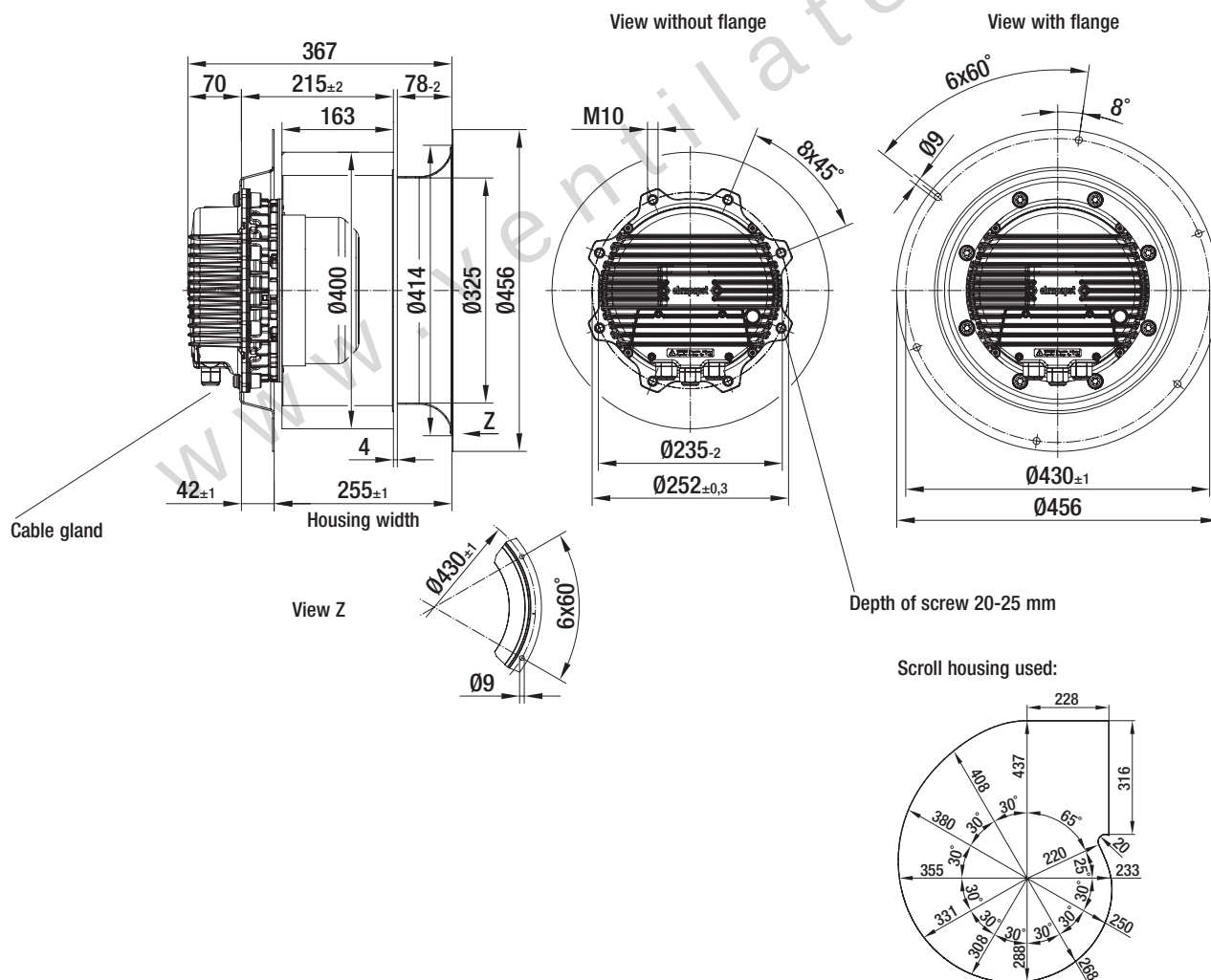
	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
A 1	—	—	—	—	—
A 2	930	2.13	3.30	83	54
A 3	980	1.68	2.60	80	63
A 4	1040	0.93	1.60	74	61
A 5	—	—	—	—	—
A 6	830	1.49	2.40	80	54
A 7	830	1.01	1.60	75	63
A 8	830	0.46	0.80	67	61
A 9	—	—	—	—	—
A 10	700	0.91	1.40	76	54
A 11	700	0.62	1.00	71	63
A 12	700	0.28	0.50	63	61
A 13	—	—	—	—	—
A 14	550	0.44	0.70	69	54
A 15	550	0.30	0.50	65	63
A 16	550	0.14	0.20	56	61

- **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 (± 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



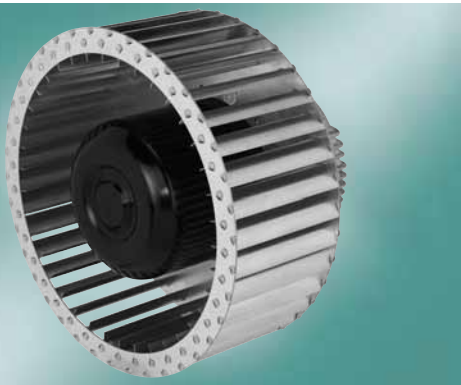
Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle	Flange
R3G 400-AR04 -03	25.5	40010-2-4013	10052-2-4017



EC centrifugal fan

single inlet, Ø 400



- **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

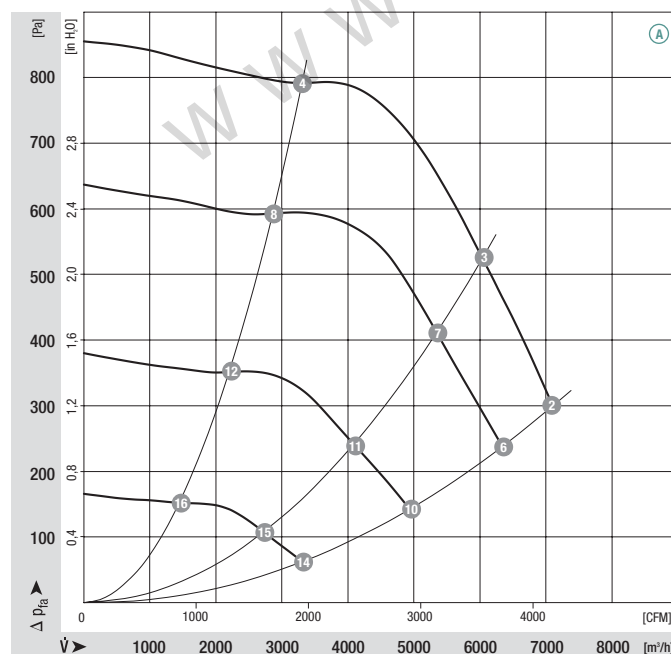
Nominal data

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 400	M3G 150-NA	A	3~ 380-480	50/60	1120	3.080	4.60	300	-25 to +55	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 _{IL} [%]
A 1	—	—	—	—	—
A 2	1120	3.08	4.60	87	49
A 3	1160	2.60	3.90	85	57
A 4	1220	1.53	2.30	79	58
A 5	—	—	—	—	—
A 6	1000	2.16	3.20	84	49
A 7	1020	1.81	2.70	82	57
A 8	1060	1.02	1.70	75	58
A 9	—	—	—	—	—
A 10	780	1.05	1.70	78	49
A 11	790	0.87	1.50	75	57
A 12	820	0.51	1.10	68	58
A 13	—	—	—	—	—
A 14	520	0.35	0.80	67	49
A 15	530	0.31	0.70	64	57
A 16	550	0.19	0.50	57	58

- **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)
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 - **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

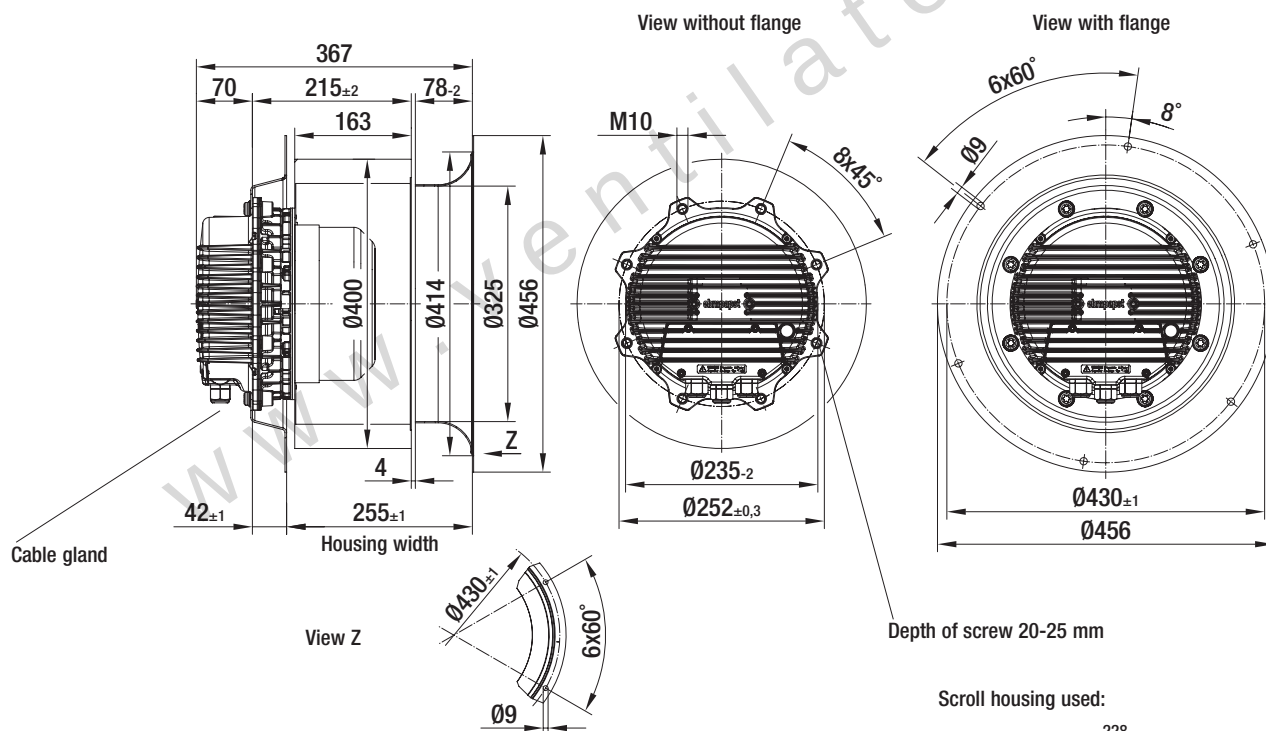
Flange

R3G 400-AT01 -03

30.0

40010-2-4013

10052-2-4017



Cable gland

View Z

Housing width

View without flange

View with flange

Depth of screw 20-25 mm

Scroll housing used: