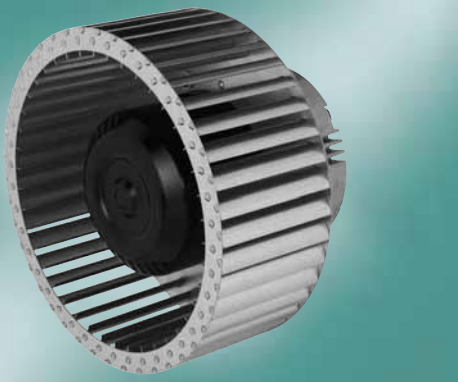


EC centrifugal fan

single inlet, Ø 280



- **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

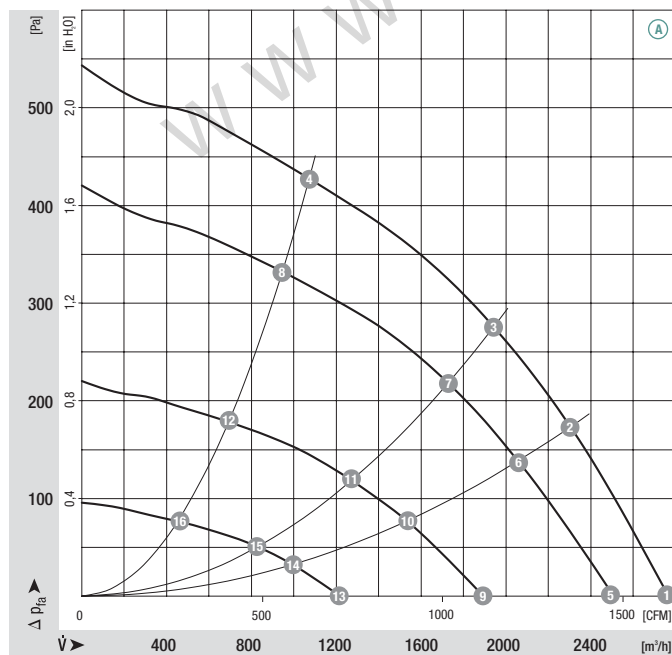
Nominal data

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 280	M3G 112-GA	Ⓐ	1~ 200-277	50/60	1130	0.75	3.30	0	-25 to +50	p. 607

subject to alterations

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

Curves



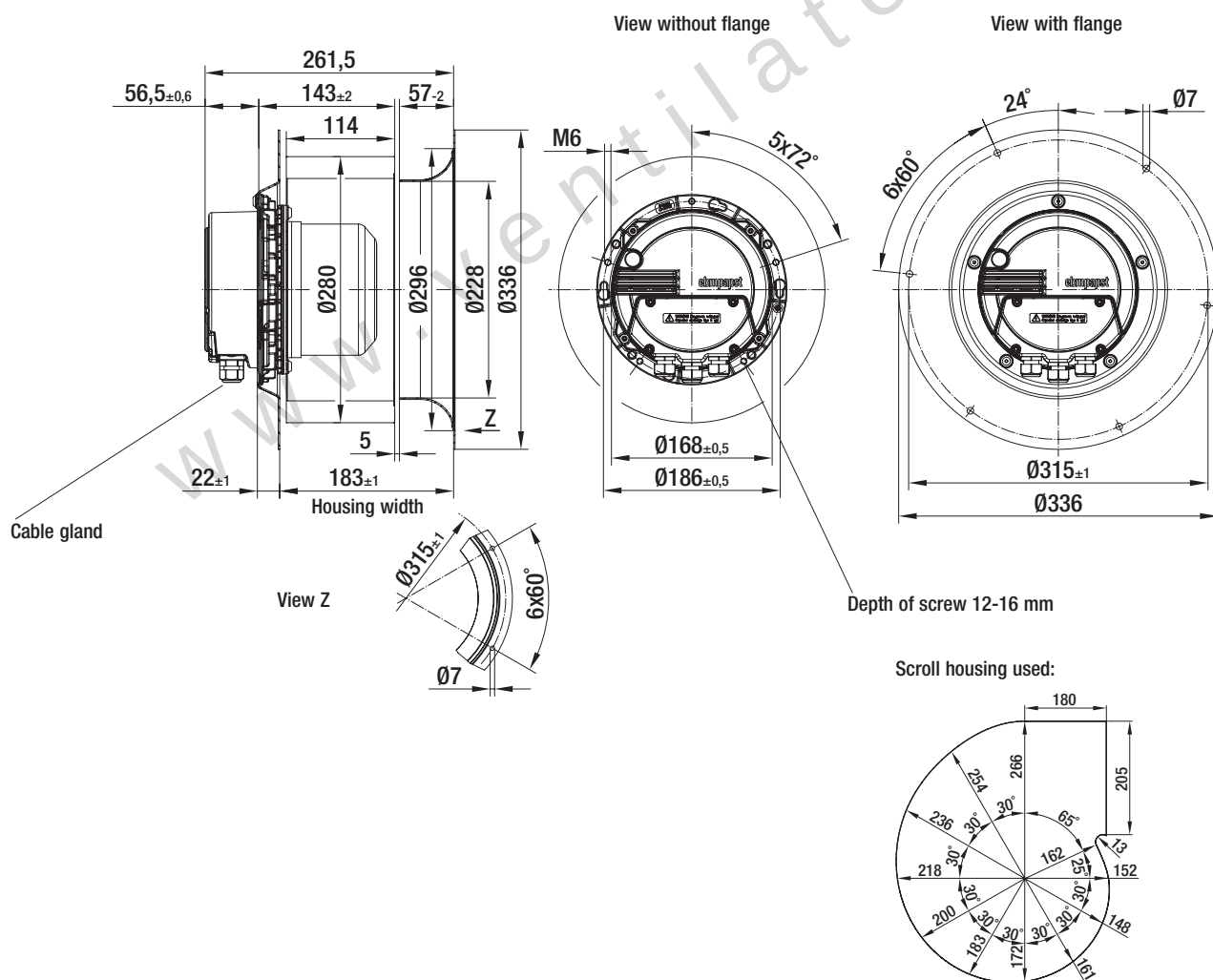
	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	1130	0.75	3.30	78	—
Ⓐ 2	1170	0.60	2.70	75	53
Ⓐ 3	1210	0.53	2.30	73	54
Ⓐ 4	1250	0.32	1.40	69	51
Ⓐ 5	1020	0.56	2.50	76	—
Ⓐ 6	1050	0.44	2.00	72	53
Ⓐ 7	1070	0.37	1.60	70	54
Ⓐ 8	1110	0.23	1.00	65	51
Ⓐ 9	780	0.25	1.10	69	—
Ⓐ 10	790	0.20	0.90	65	53
Ⓐ 11	800	0.17	0.80	63	54
Ⓐ 12	820	0.11	0.50	58	51
Ⓐ 13	520	0.09	0.40	58	—
Ⓐ 14	530	0.08	0.40	54	53
Ⓐ 15	530	0.07	0.30	51	54
Ⓐ 16	550	0.05	0.30	46	51

- **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
 - Line undervoltage detection
 - Motor current limitation
 - Electronics / motor overtemperature protection
 - Locked-rotor protection
 - Soft start
- **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:** VDE, UL, CSA, GOST, CCC are applied for



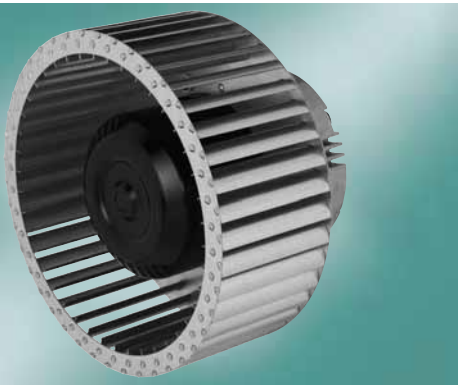
Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle	Flange
R3G 280-AN32 -11	9.4	28010-2-4013	10026-2-4017



EC centrifugal fan

single inlet, Ø 280



- **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

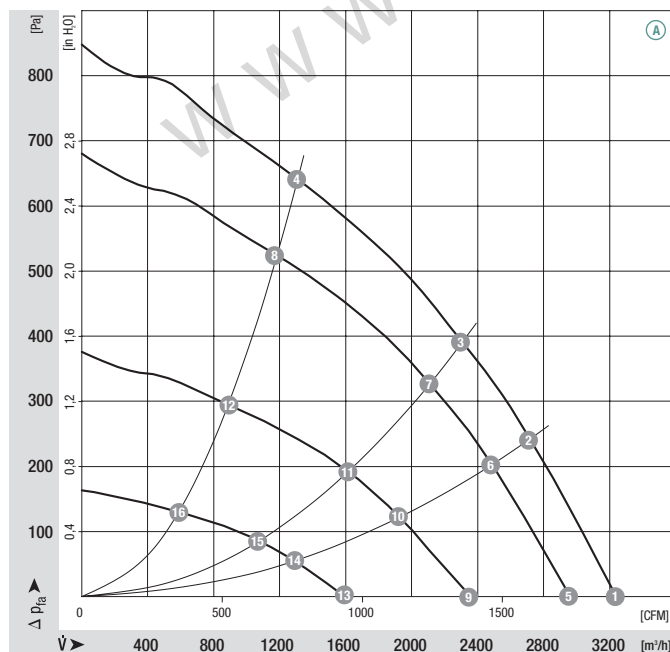
Nominal data

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 280	M3G 112-GA	Ⓐ	3~ 380-480	50/60	1300	1.10	2.00	0	-25 to +50	p. 607

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} [%]
Ⓐ 1	1300	1.10	2.00	82	—
Ⓐ 2	1370	0.94	1.80	79	55
Ⓐ 3	1420	0.81	1.50	77	59
Ⓐ 4	1540	0.53	1.00	73	57
Ⓐ 5	1200	0.87	1.60	79	—
Ⓐ 6	1260	0.73	1.40	76	55
Ⓐ 7	1310	0.62	1.20	75	59
Ⓐ 8	1400	0.40	0.80	71	57
Ⓐ 9	970	0.46	0.90	74	—
Ⓐ 10	990	0.36	0.80	70	55
Ⓐ 11	1010	0.30	0.60	68	59
Ⓐ 12	1050	0.19	0.50	63	57
Ⓐ 13	660	0.16	0.40	64	—
Ⓐ 14	680	0.13	0.30	60	55
Ⓐ 15	680	0.11	0.30	58	59
Ⓐ 16	710	0.08	0.20	53	57

- **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 610800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE, UL, CSA, GOST, CCC are applied for
 - 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 280-AN32 -01	9.4	28010-2-4013	10026-2-4017

