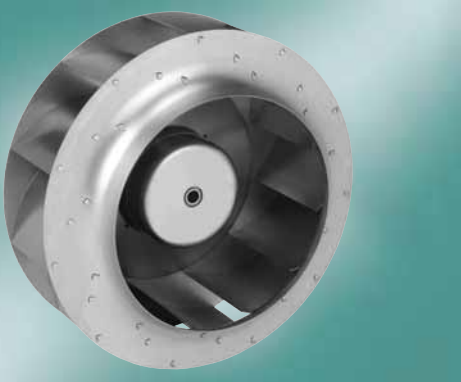


EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **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

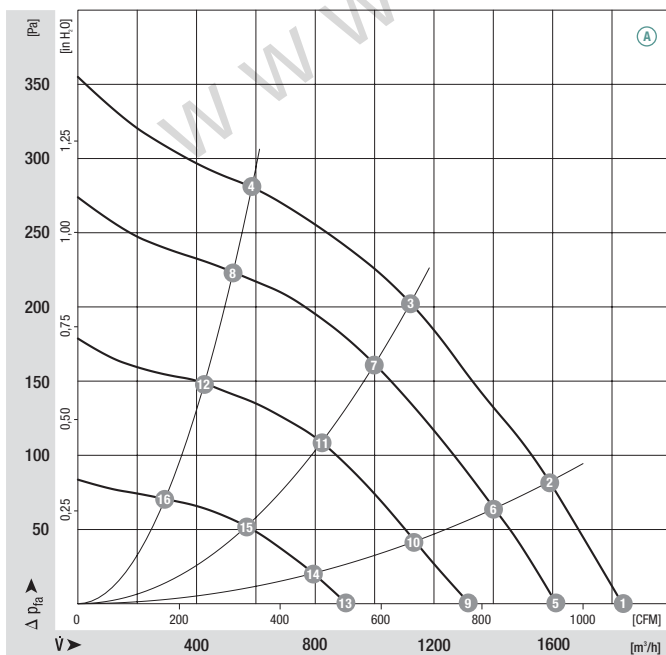
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	°C	p. 603
R3G 280	M3G 074-CF	Ⓐ 1~ 100-130	50/60	1750	145	1.90	-25 to +60	J1)

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	L _{pA} [dB(A)]	η _{IL} [%]
Ⓐ 1	1750	107	1.40	70	—
Ⓐ 2	1710	123	1.60	63	51
Ⓐ 3	1675	138	1.80	59	67
Ⓐ 4	1720	119	1.50	60	53
Ⓐ 5	1550	73	1.00	66	—
Ⓐ 6	1530	89	1.20	61	49
Ⓐ 7	1500	99	1.30	56	66
Ⓐ 8	1540	86	1.10	57	52
Ⓐ 9	1280	45	0.60	62	—
Ⓐ 10	1250	51	0.70	55	45
Ⓐ 11	1230	58	0.80	51	62
Ⓐ 12	1260	50	0.70	52	49
Ⓐ 13	880	18	0.30	57	—
Ⓐ 14	870	21	0.30	51	36
Ⓐ 15	870	23	0.40	46	51
Ⓐ 16	880	20	0.30	40	39

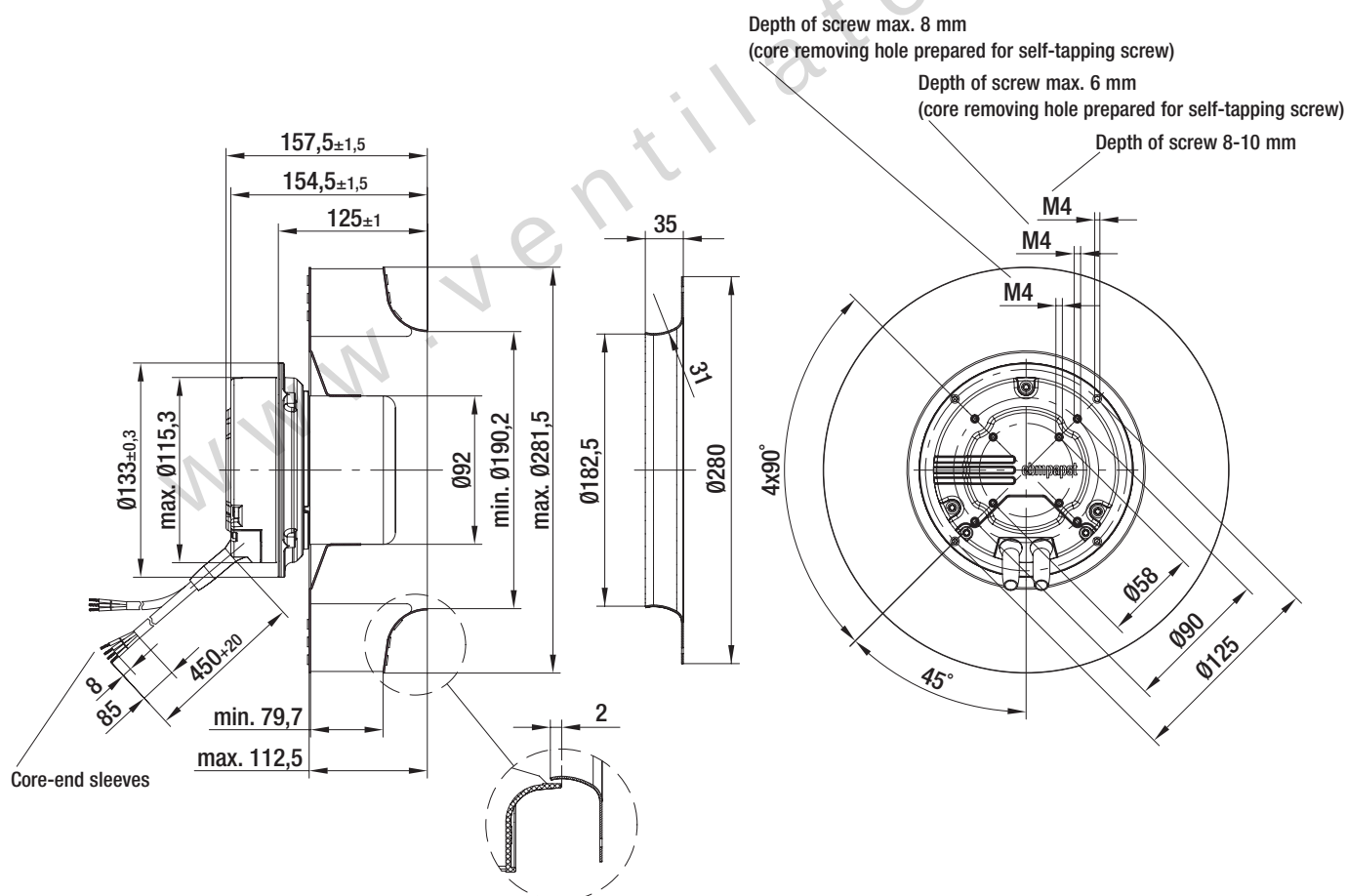
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA, CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor



Mass of centrifugal fan

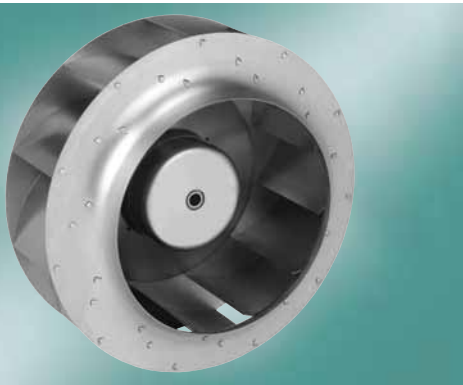


Centrifugal fan	kg	Inlet nozzle (long)
R3G 280-AA75 -01	3.2	96360-2-4013



EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
Rotor: Galvanised
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **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

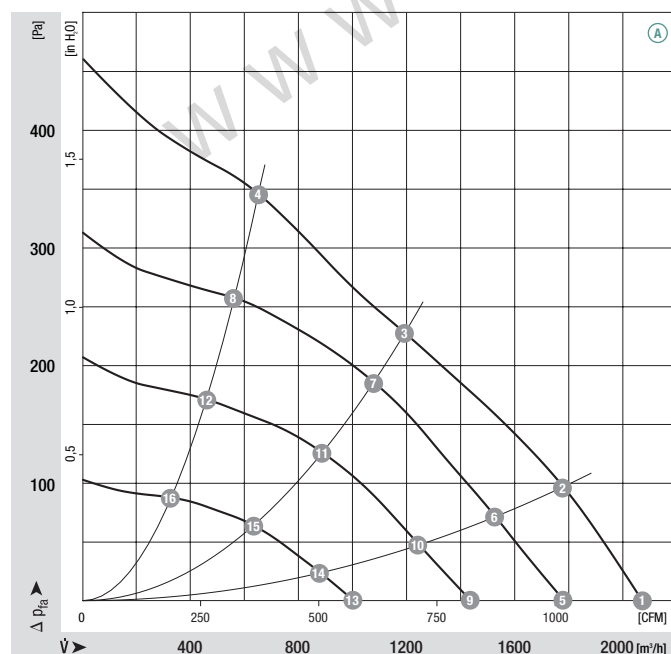
Nominal data

Type	Motor	VAC	Hz	rpm	W	A	°C	p. 603
R3G 280	M3G 074-CF	Ⓐ 1~ 200-277	50/60	2000	170	1.30	-25 to +60	J1)

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 _{IL} [%]
Ⓐ 1	2000	145	1.10	72	—
Ⓐ 2	1920	168	1.20	67	48
Ⓐ 3	1790	170	1.20	61	60
Ⓐ 4	1930	161	1.10	62	50
Ⓐ 5	1680	89	0.70	69	—
Ⓐ 6	1660	113	0.90	64	46
Ⓐ 7	1625	123	1.00	57	61
Ⓐ 8	1660	104	0.80	58	50
Ⓐ 9	1380	55	0.50	65	—
Ⓐ 10	1350	61	0.50	60	49
Ⓐ 11	1340	72	0.60	53	60
Ⓐ 12	1360	61	0.50	53	50
Ⓐ 13	980	24	0.20	58	—
Ⓐ 14	970	28	0.30	54	47
Ⓐ 15	960	32	0.30	48	60
Ⓐ 16	970	27	0.30	44	51

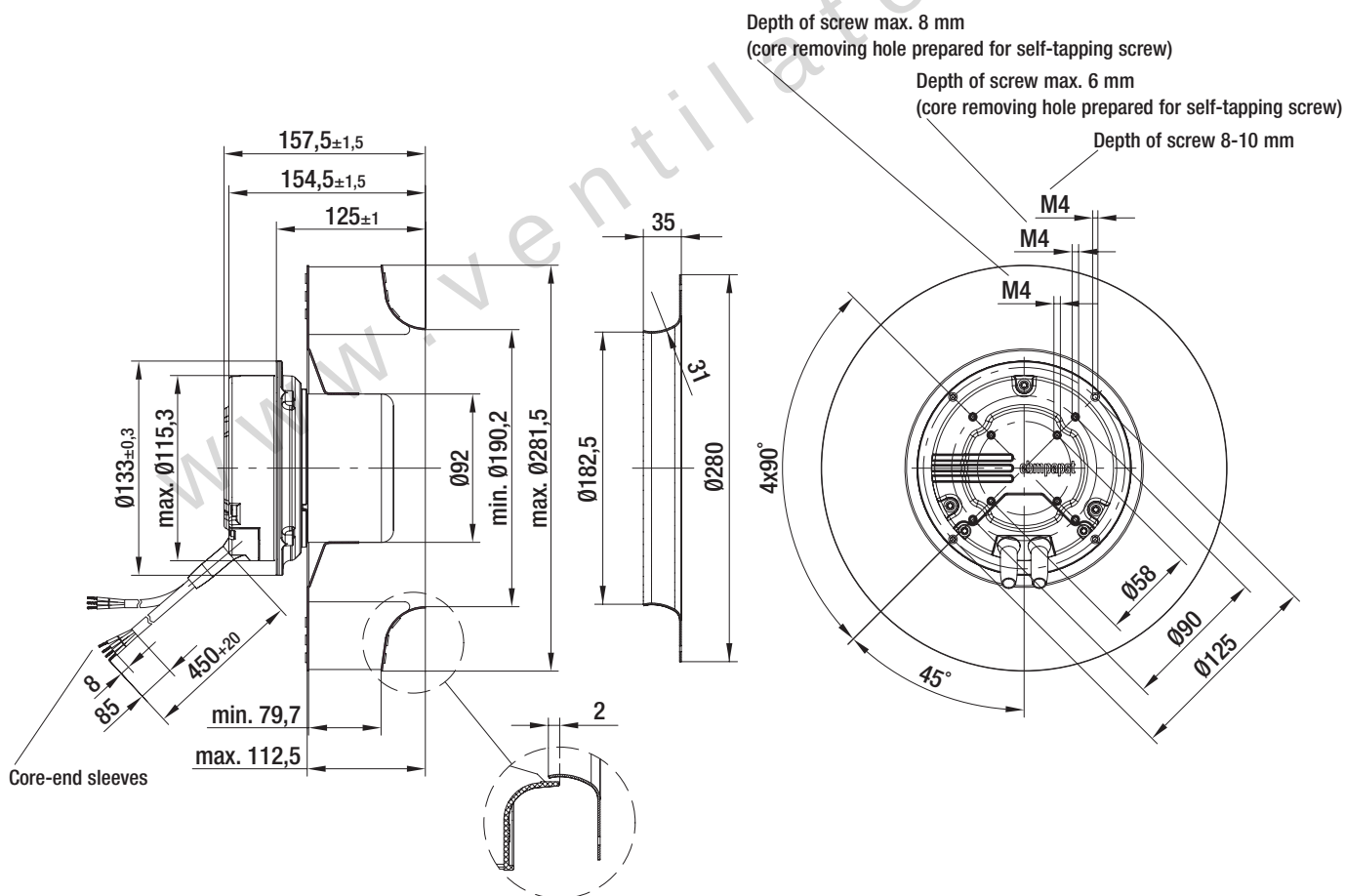
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-1
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 60950-1
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, EN 61800-5-1, EN 60950-1, CE
- **Approvals:** UL, CSA; CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
- Tach output
- Over-temperature protected electronics / motor



Mass of centrifugal fan

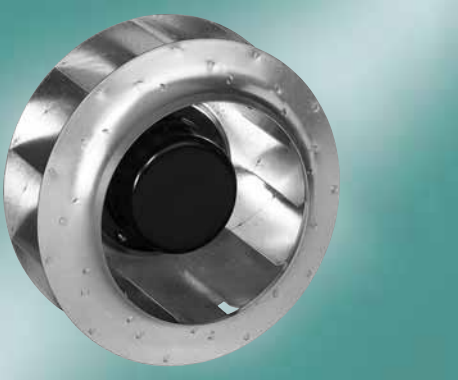


Centrifugal fan	kg	Inlet nozzle (long)
R3G 280-AA52 -01	3.2	96360-2-4013



EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **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

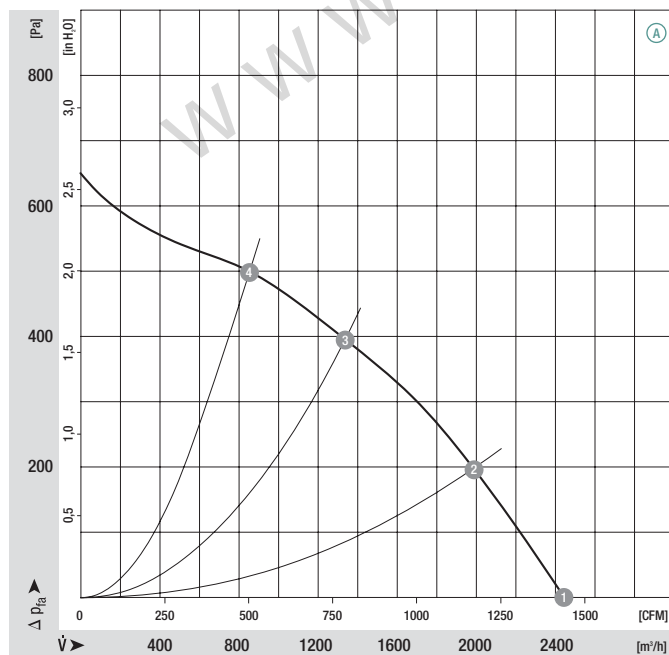
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
R3G 280	M3G 084-DF	Ⓐ	1~ 100-130	50/60	2420	350	4.20	-25 to +60	p. 605

subject to alterations

(1) Nominal data in operating point with maximum load and 115 VAC

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]	η _{IL} [%]
Ⓐ 1	2420	270	3.30	77	—
Ⓐ 2	2360	324	3.90	73	50
Ⓐ 3	2320	350	4.20	69	60
Ⓐ 4	2395	298	3.70	71	48

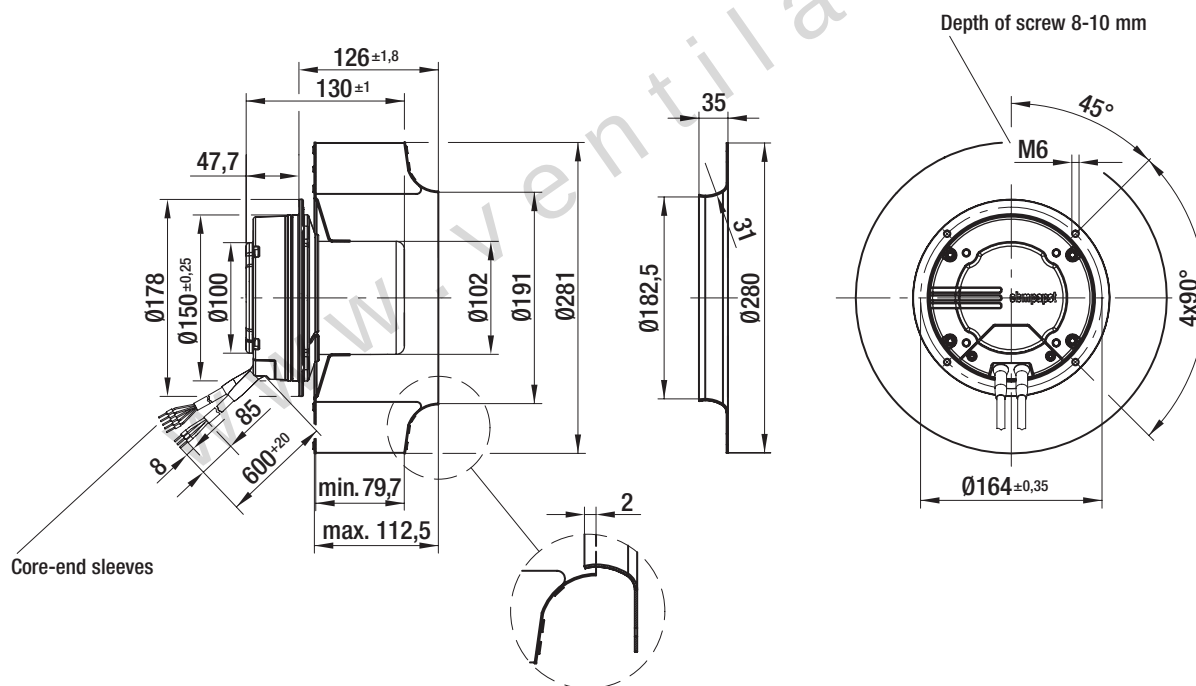
- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
- **EMC:** Interference emission acc. to EN 61000-6-3
Interference immunity acc. to EN 61000-6-2
Harmonics acc. to DIN EN 61000-3-2/3
- **Leakage current:** < 3.5 mA acc. to EN 61800-5-1
- **Cable exit:** Variable
- **Protection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



Mass of centrifugal fan

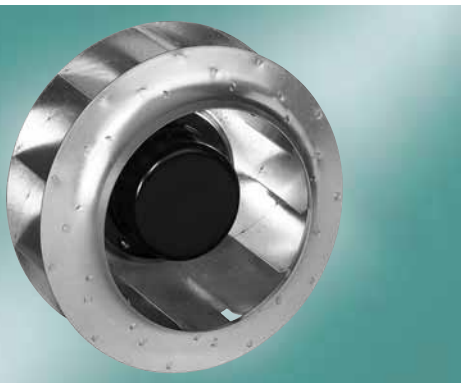


Centrifugal fan	kg	Inlet nozzle (long)
R3G 280-AF23 -81	5.0	96360-2-4013



EC centrifugal fan

backward curved, Ø 280



- **Material:** Impeller: Sheet steel, galvanised
Rotor: Coated in black
Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **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

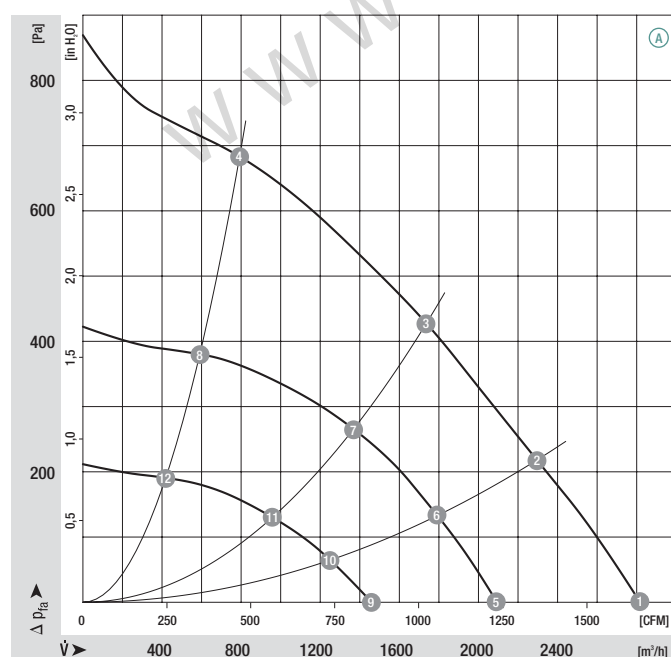
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Perm. amb. temp.	Electr. connection
R3G 280	M3G 084-DF	Ⓐ	1~ 200-277	50/60	2600	455	2.80	-25 to +40	p. 605

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 _{IL} [%]
Ⓐ 1	2760	355	2.20	80	—
Ⓐ 2	2670	400	2.50	77	48
Ⓐ 3	2660	425	2.60	73	60
Ⓐ 4	2740	386	2.30	75	45
Ⓐ 5	2050	150	1.00	74	—
Ⓐ 6	2050	206	1.10	71	48
Ⓐ 7	2050	232	1.40	67	60
Ⓐ 8	2050	196	1.20	67	45
Ⓐ 9	1460	65	0.40	67	—
Ⓐ 10	1460	80	0.50	64	48
Ⓐ 11	1460	88	0.60	58	60
Ⓐ 12	1460	70	0.50	57	45

- **Technical features:**
 - PFC (passive)
 - Control input 0-10 VDC / PWM
 - **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:** VDE, UL, CSA; CCC, GOST are applied for
- Output 10 VDC max. 1.1 mA
 - Alarm relay
 - Over-temperature protected electronics / motor



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R3G 280-AF35 -71	5.0	96360-2-4013

