EC centrifugal fan

backward curved, Ø 250

- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **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

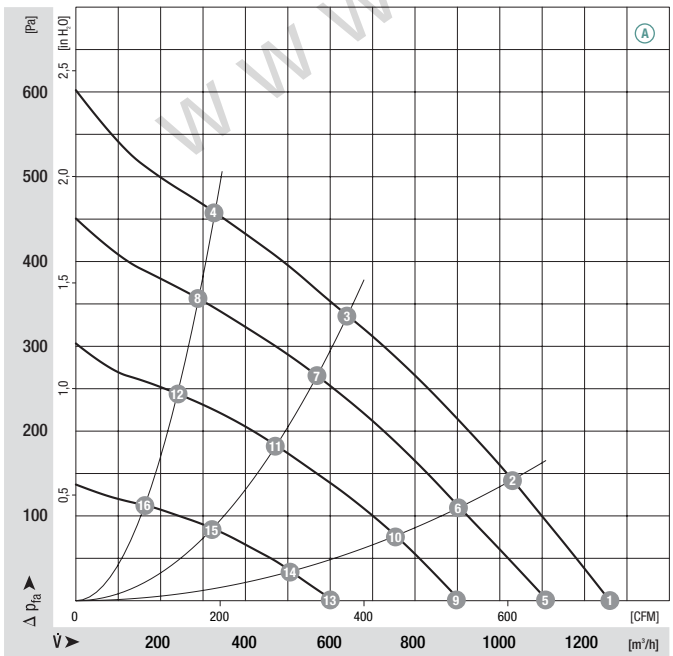
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input(1)	Max. current draw(1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2630	145	1.90	-25 to +60	J1)

subject to alterations

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

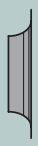
Curves



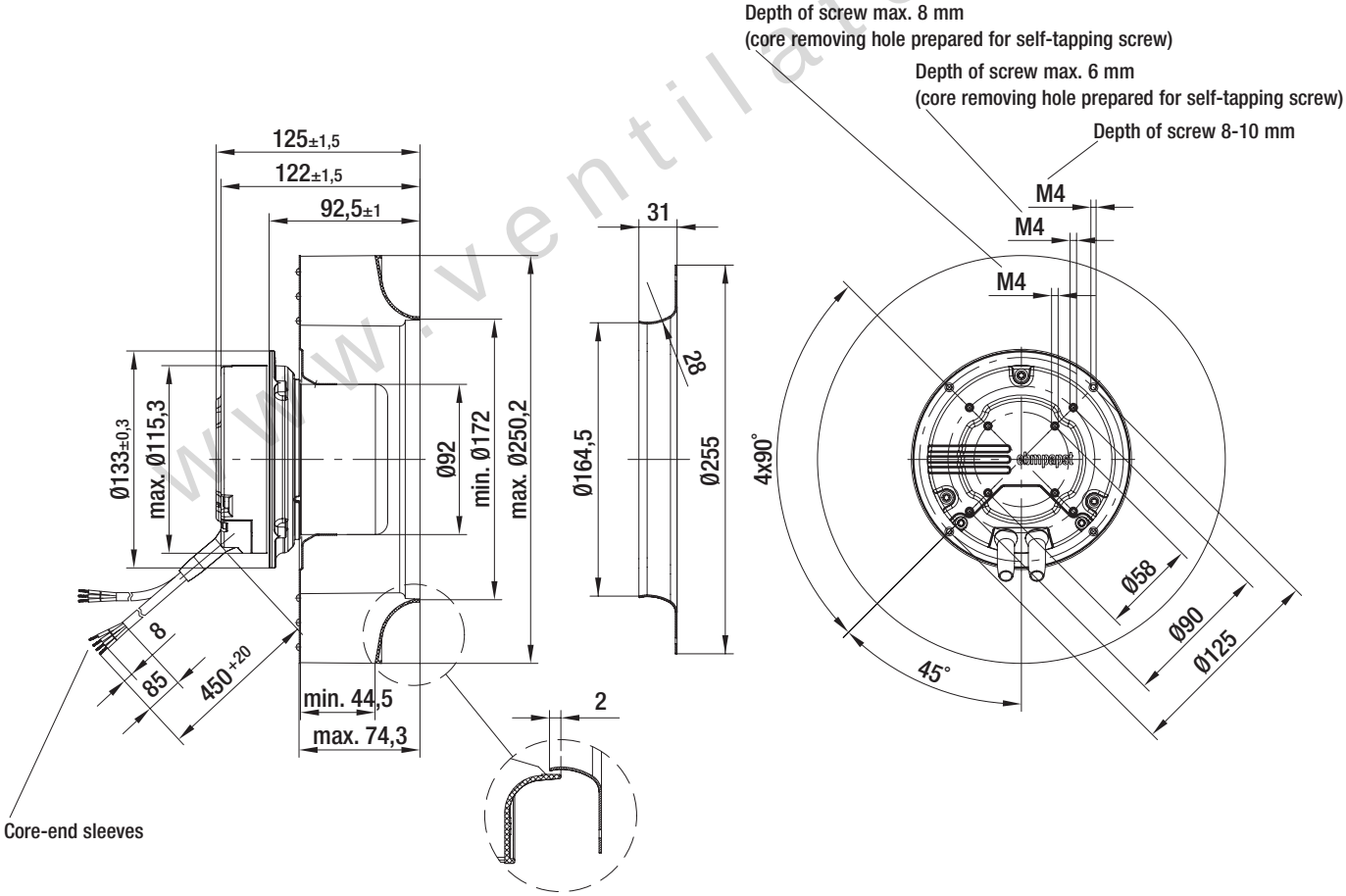
	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	2630	106	1.40	70	—
Ⓐ 2	2540	127	1.60	66	57
Ⓐ 3	2480	140	1.80	61	60
Ⓐ 4	2560	125	1.60	67	47
Ⓐ 5	2315	72	1.00	68	—
Ⓐ 6	2240	90	1.20	63	54
Ⓐ 7	2200	99	1.40	59	60
Ⓐ 8	2260	87	1.20	63	46
Ⓐ 9	1900	43	0.70	66	—
Ⓐ 10	1870	55	0.80	60	51
Ⓐ 11	1835	60	0.90	53	58
Ⓐ 12	1860	53	0.80	58	43
Ⓐ 13	1290	18	0.30	58	—
Ⓐ 14	1275	21	0.40	52	40
Ⓐ 15	1250	22	0.40	44	49
Ⓐ 16	1270	19	0.30	48	37

ebmpapst

– **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
– **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

Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AH74 -01	2.5	96359-2-4013



EC centrifugal fan

backward curved, Ø 250

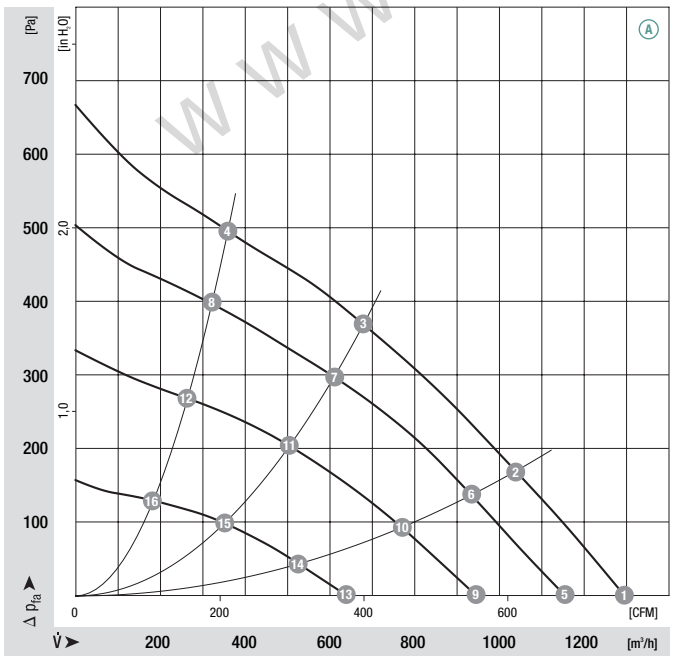
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal 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		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input(1)	Max. current draw(1)	Perm. amb. temp.	Electr. connection
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**°C**	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 200-277	50/60	2760	160	1.20	-25 to +60	J1)

subject to alterations

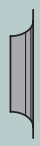
(1) Nominal data in operating point with maximum load and 230 VAC

Curves

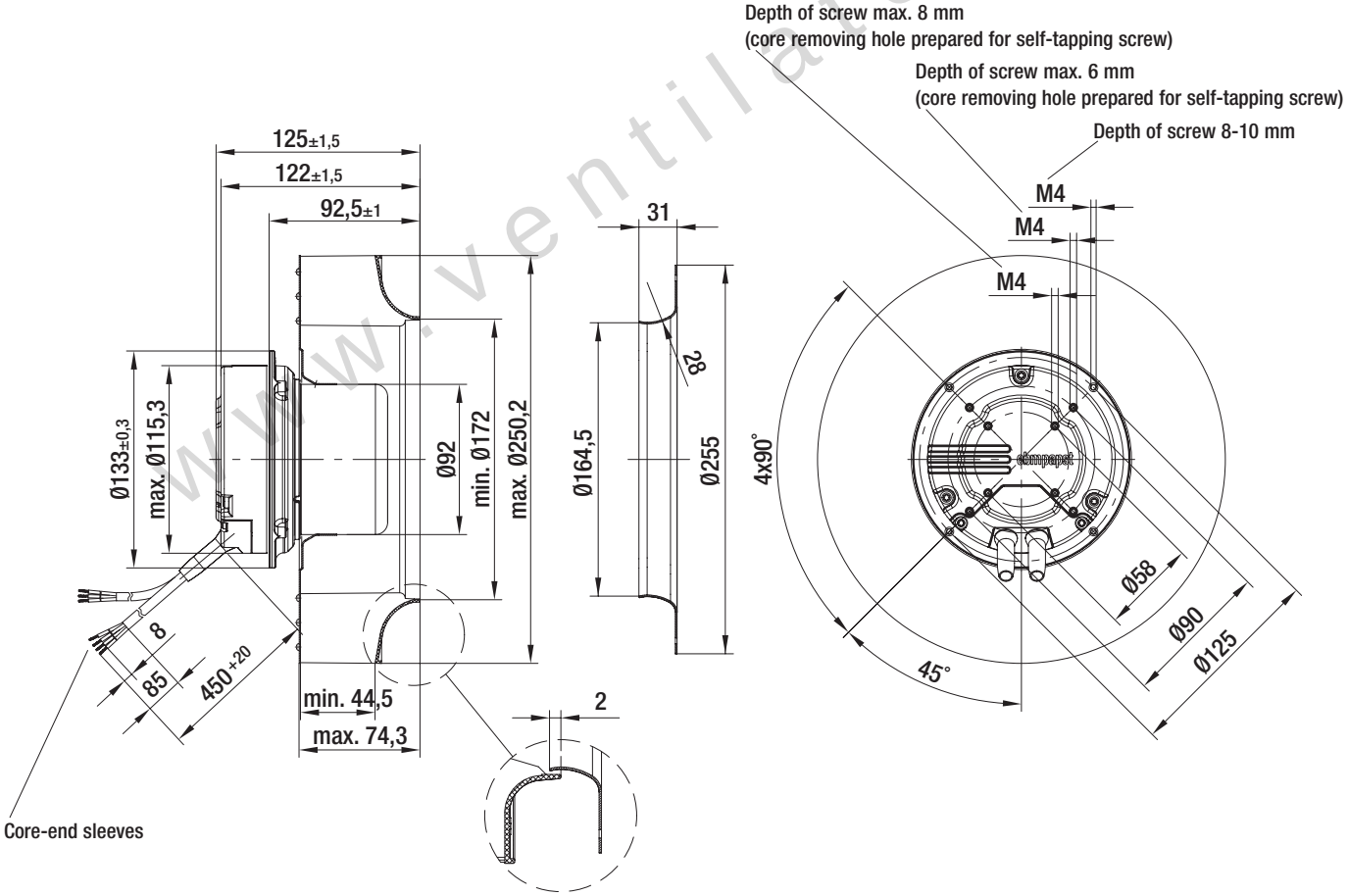


		n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ	1	2760	123	0.90	71	—
Ⓐ	2	2660	148	1.10	66	54
Ⓐ	3	2600	162	1.20	62	57
Ⓐ	4	2680	147	1.10	68	42
Ⓐ	5	2460	88	0.70	68	—
Ⓐ	6	2380	106	0.80	63	53
Ⓐ	7	2340	116	0.90	59	57
Ⓐ	8	2400	105	0.80	65	42
Ⓐ	9	2000	53	0.40	65	—
Ⓐ	10	1960	62	0.50	60	54
Ⓐ	11	1940	69	0.50	55	58
Ⓐ	12	1965	61	0.50	59	42
Ⓐ	13	1380	22	0.20	58	—
Ⓐ	14	1360	25	0.20	52	50
Ⓐ	15	1350	28	0.25	47	57
Ⓐ	16	1360	25	0.20	50	43

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **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

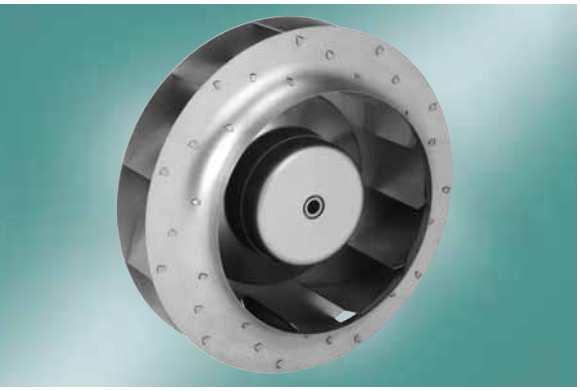


Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AH52 -01	2.5	96359-2-4013



EC centrifugal fan

backward curved, Ø 250



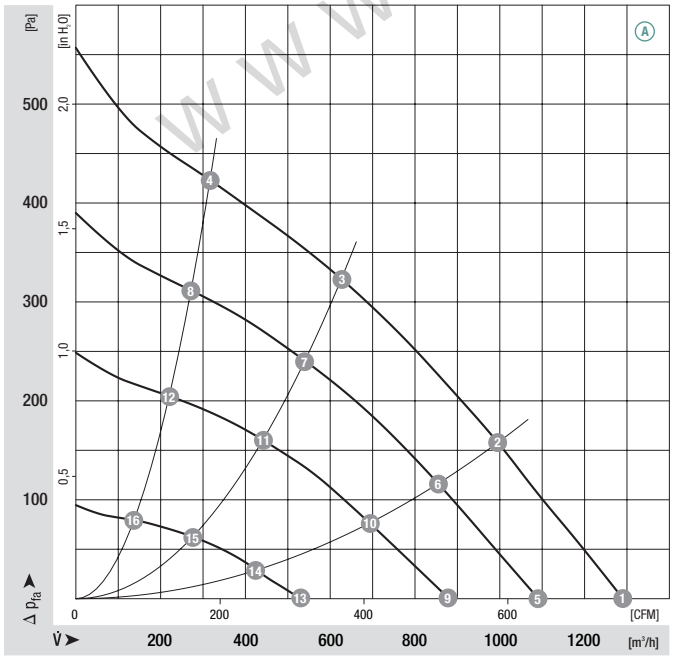
- **Material:** Impeller: Sheet steel, galvanised
  Rotor: Galvanised
  Electronics enclosure: Die-cast aluminium
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on top; rotor on bottom on request
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input(1)	Max. current draw(1)	Perm. amb. temp.	Electr. connection
Type	**Motor**		**VAC**	**Hz**	**rpm**	**W**	**A**	**°C**	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2490	125	1.80	-25 to +60	J1)

subject to alterations

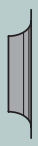
(1) Nominal data in operating point with maximum load and 115 VAC

Curves

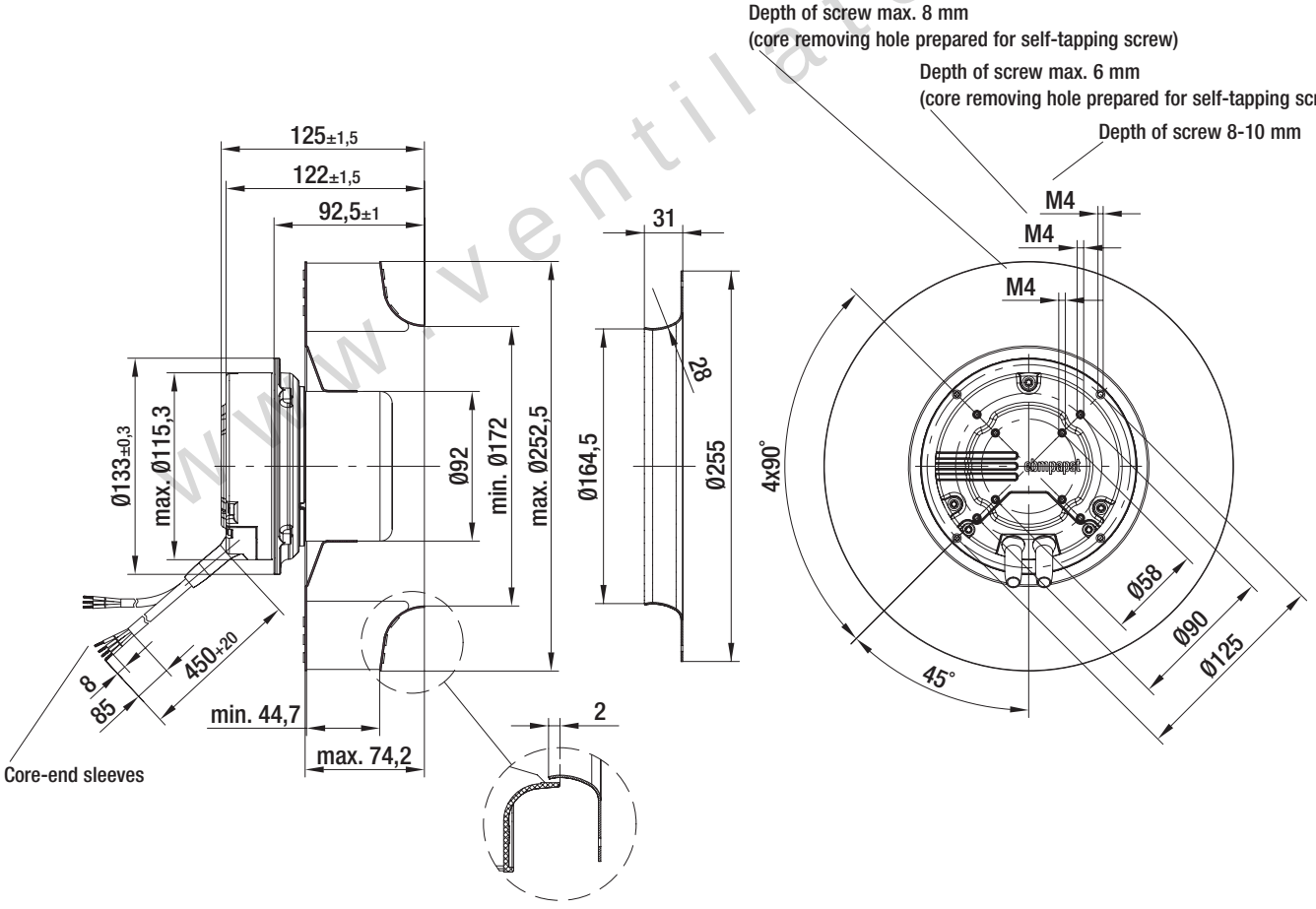


	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	2490	97	1.30	72	—
Ⓐ 2	2380	119	1.60	66	62
Ⓐ 3	2330	123	1.60	60	64
Ⓐ 4	2410	110	1.40	67	47
Ⓐ 5	2110	60	0.80	71	—
Ⓐ 6	2040	78	1.00	63	58
Ⓐ 7	2010	79	1.10	58	64
Ⓐ 8	2070	71	1.00	64	45
Ⓐ 9	1700	35	0.50	66	—
Ⓐ 10	1660	44	0.60	58	56
Ⓐ 11	1650	47	0.70	52	59
Ⓐ 12	1670	39	0.60	58	43
Ⓐ 13	1040	11	0.20	57	—
Ⓐ 14	1030	14	0.20	50	40
Ⓐ 15	1030	15	0.20	41	46
Ⓐ 16	1040	13	0.20	44	31

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **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

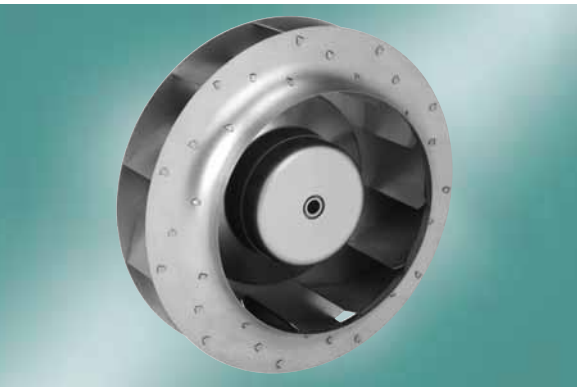


Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AL75 -01	2.9	96359-2-4013



EC centrifugal fan

backward curved, Ø 250



- **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

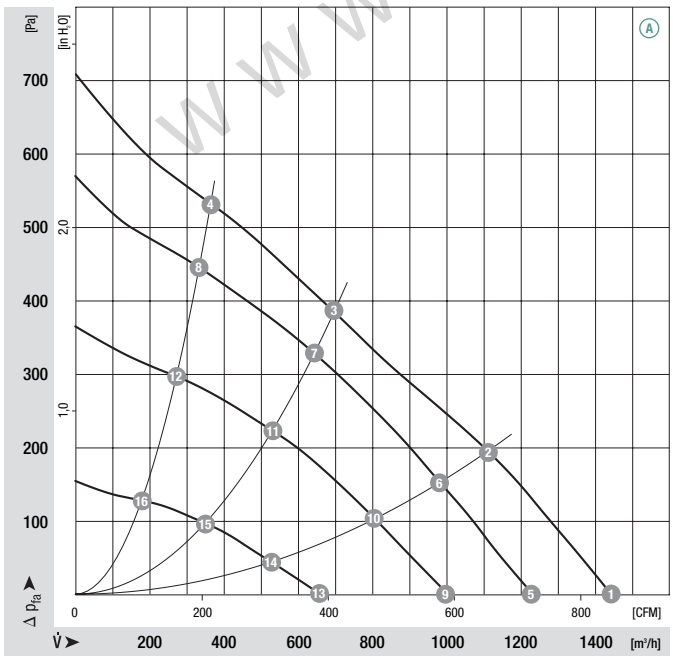
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input(1)	Max. current draw(1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 200-277	50/60	2800	175	1.30	-25 to +60	J1)

subject to alterations

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

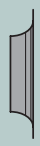
Curves



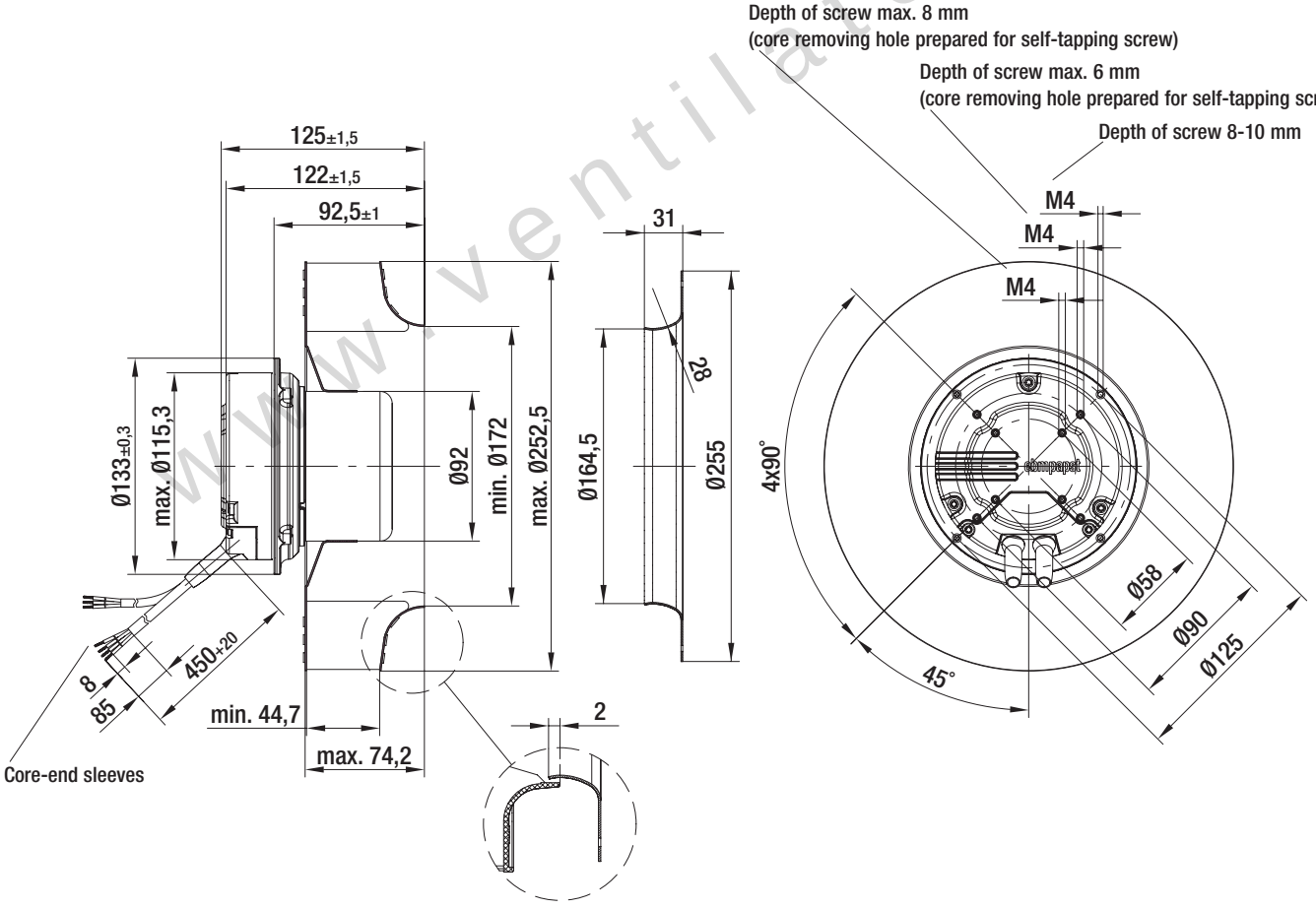
	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	2800	142	1.10	74	—
Ⓐ 2	2650	164	1.25	69	53
Ⓐ 3	2570	164	1.25	63	59
Ⓐ 4	2720	154	1.20	72	44
Ⓐ 5	2550	104	0.80	71	—
Ⓐ 6	2470	124	1.00	66	53
Ⓐ 7	2440	134	1.00	61	58
Ⓐ 8	2510	123	0.90	69	44
Ⓐ 9	2080	62	0.50	67	—
Ⓐ 10	2025	74	0.60	62	54
Ⓐ 11	2020	78	0.60	56	60
Ⓐ 12	2050	70	0.60	62	43
Ⓐ 13	1370	24	0.20	59	—
Ⓐ 14	1340	27	0.20	53	51
Ⓐ 15	1330	28	0.20	46	57
Ⓐ 16	1340	25	0.20	51	44

ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **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

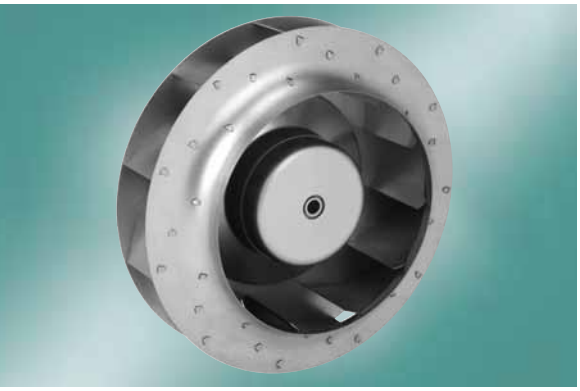


Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AL54 -01	2.9	96359-2-4013



EC centrifugal fan

backward curved, Ø 250



- **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

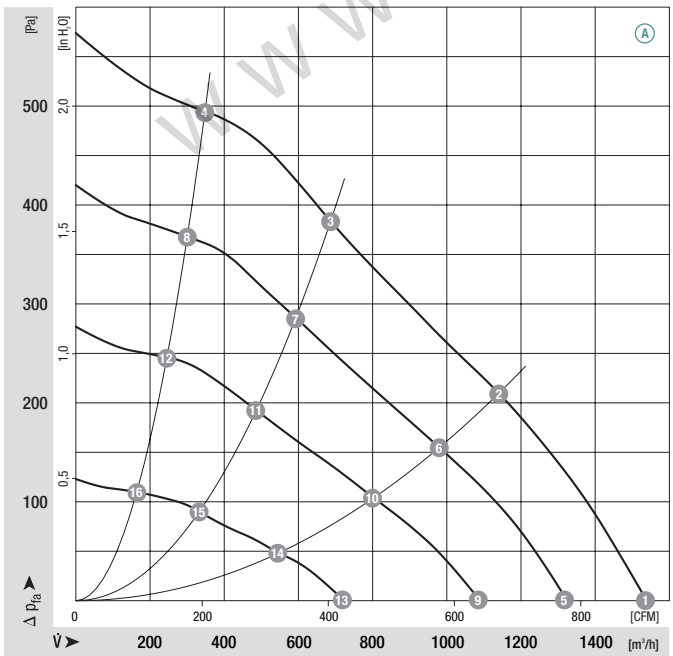
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input (1)	Max. current draw (1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 100-130	50/60	2570	170	2.20	-25 to +60	J1)

subject to alterations

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

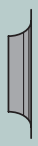
Curves



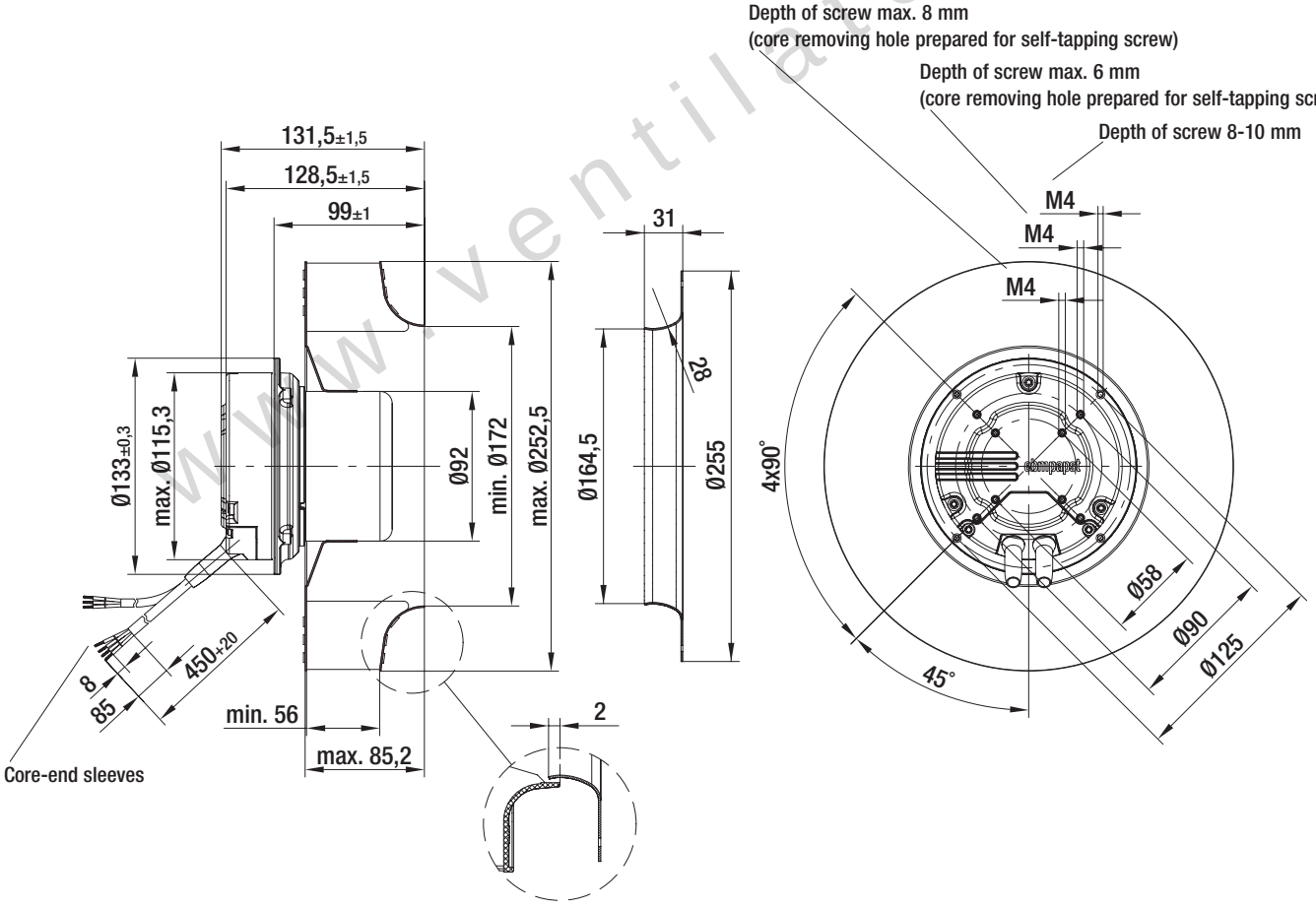
	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	2570	147	1.90	73	—
Ⓐ 2	2440	167	2.10	66	62
Ⓐ 3	2420	166	2.10	62	63
Ⓐ 4	2580	147	1.90	69	44
Ⓐ 5	2220	106	1.30	71	—
Ⓐ 6	2100	108	1.40	64	60
Ⓐ 7	2090	110	1.50	60	58
Ⓐ 8	2220	93	1.20	65	45
Ⓐ 9	1820	59	0.80	69	—
Ⓐ 10	1730	67	0.90	60	54
Ⓐ 11	1720	66	0.90	54	55
Ⓐ 12	1810	59	0.80	60	39
Ⓐ 13	1220	23	0.30	62	—
Ⓐ 14	1180	27	0.40	52	43
Ⓐ 15	1180	25	0.40	44	46
Ⓐ 16	1210	23	0.30	48	30

ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **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

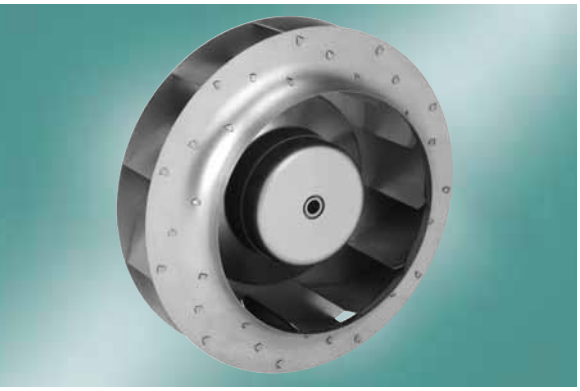


Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AM70-01	3.0	96359-2-4013



EC centrifugal fan

backward curved, Ø 250



- **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

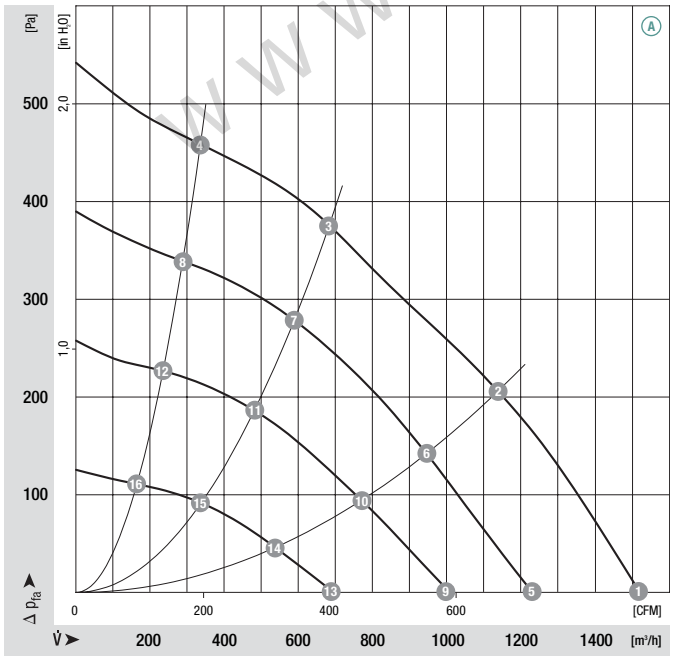
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input (1)	Max. current draw (1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 603
R3G 250	M3G 074-CF	Ⓐ	1~ 200-277	50/60	2510	178	1.40	-25 to +60	J1)

subject to alterations

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

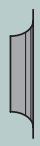
Curves



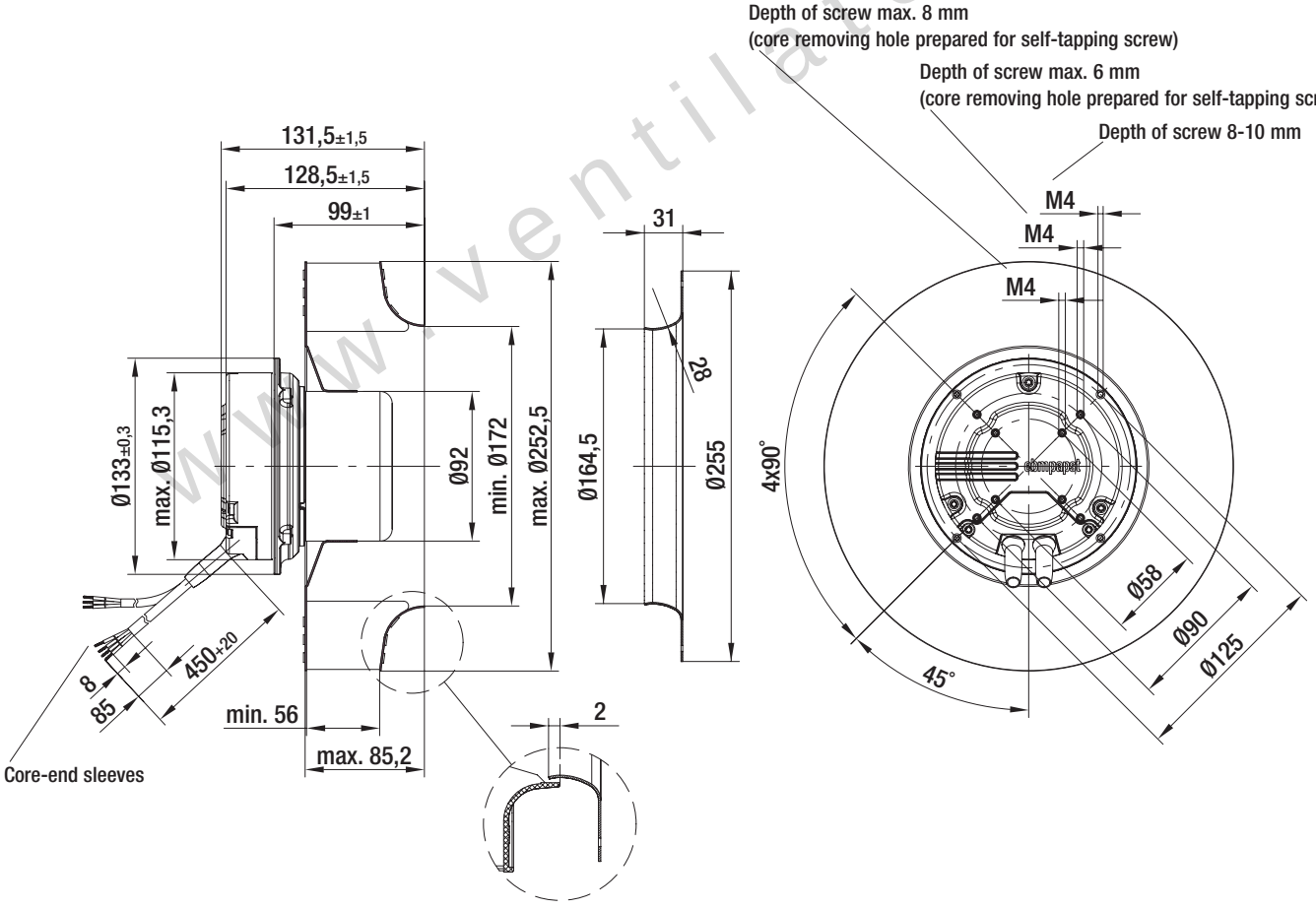
	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	2510	140	1.00	73	—
Ⓐ 2	2450	166	1.20	66	53
Ⓐ 3	2440	172	1.20	62	56
Ⓐ 4	2520	143	1.00	68	41
Ⓐ 5	2170	99	0.75	69	—
Ⓐ 6	2140	112	0.90	64	52
Ⓐ 7	2130	115	0.90	59	54
Ⓐ 8	2170	95	0.80	63	40
Ⓐ 9	1770	55	0.40	66	—
Ⓐ 10	1750	67	0.50	58	52
Ⓐ 11	1750	67	0.50	54	53
Ⓐ 12	1765	59	0.50	59	39
Ⓐ 13	1230	26	0.20	59	—
Ⓐ 14	1240	27	0.30	51	50
Ⓐ 15	1220	29	0.30	45	56
Ⓐ 16	1240	27	0.30	48	43

ebmpapst

- **Technical features:**
  - PFC (passive)
  - Control input 0-10 VDC / PWM
  - Output 10 VDC max. 1.1 mA
  - Tach output
  - Over-temperature protected electronics / motor
- **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



Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AM50-01	3.0	96359-2-4013



EC centrifugal fan

backward curved, Ø 250

- **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

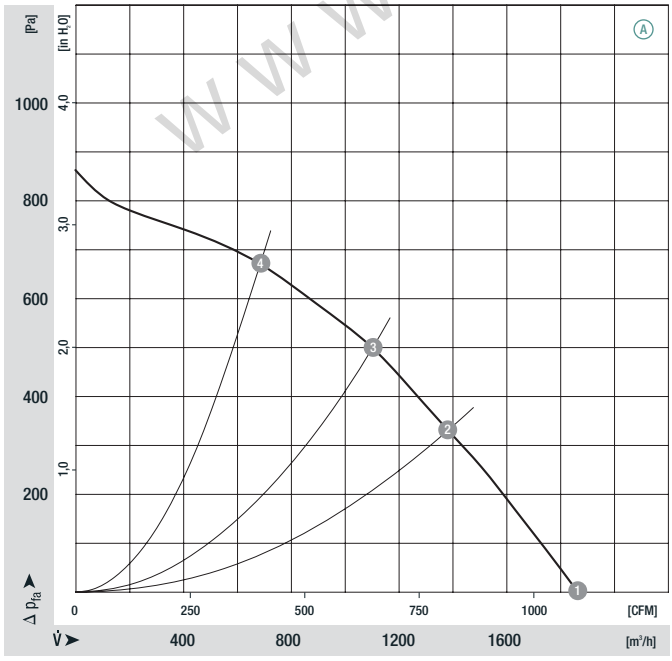
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input (1)	Max. current draw (1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 605
R3G 250	M3G 084-DF	Ⓐ	1~ 100-130	50/60	3240	350	4.20	-25 to +60	K1)

subject to alterations

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

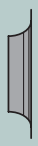
Curves



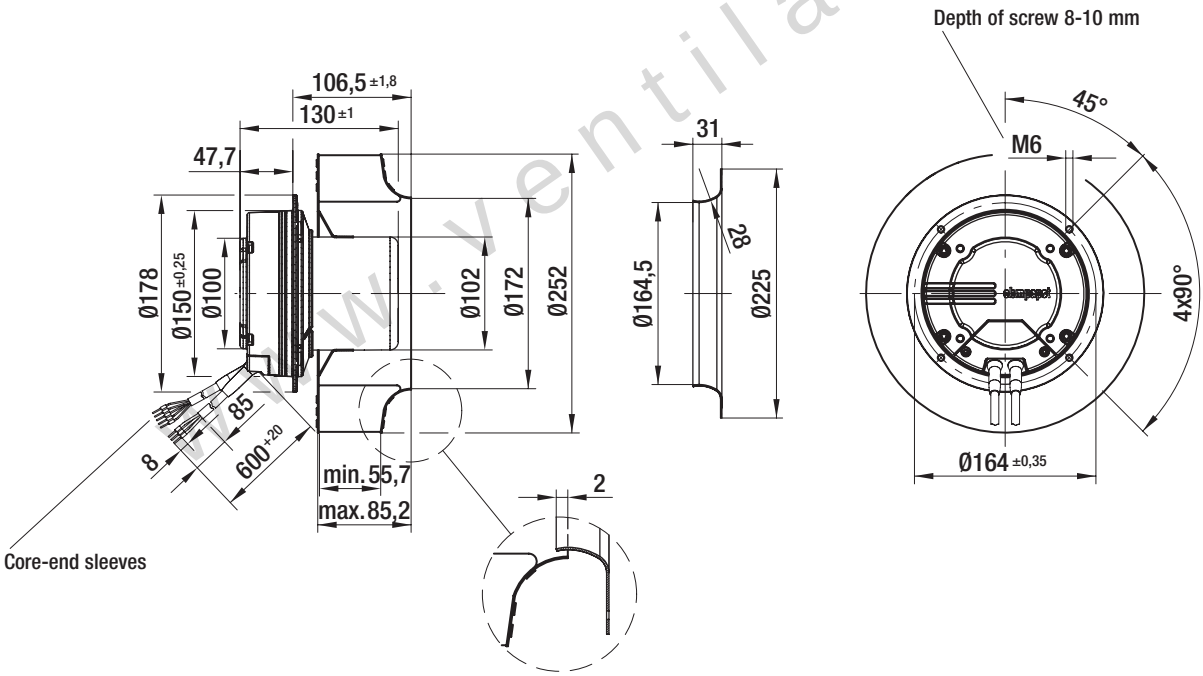
	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	3240	267	3.30	77	—
Ⓐ 2	3160	339	4.10	73	54
Ⓐ 3	3165	350	4.20	71	58
Ⓐ 4	3210	314	3.80	73	52

ebmpapst

– **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, CCC, GOST are applied for



Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AK29 -81	4.5	96359-2-4013



EC centrifugal fan

backward curved, Ø 250

- **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

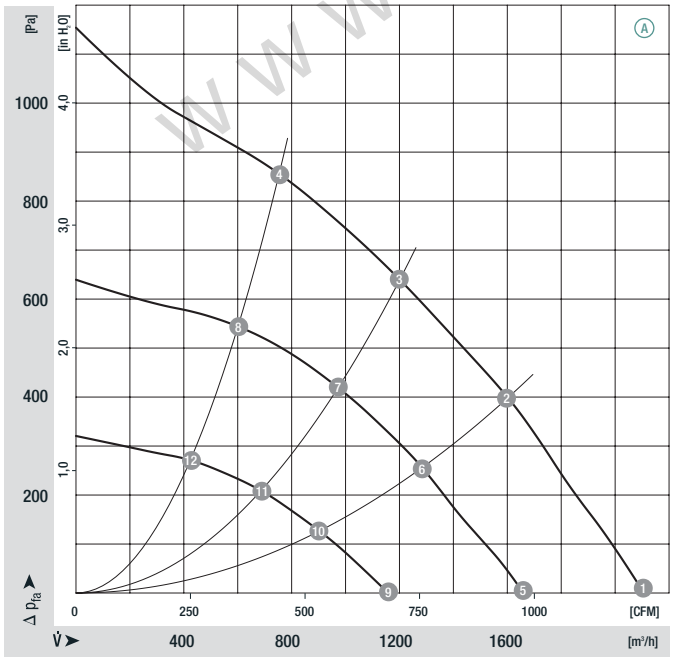
Nominal data

Type	Motor	Curve	Nominal voltage range	Frequency	Speed/rpm	Max. power input (1)	Max. current draw (1)	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	°C	p. 605
R3G 250	M3G 084-DF	Ⓐ	1~ 200-277	50/60	3580	485	3.00	-25 to +60	K1)

subject to alterations

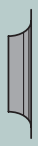
(1) Nominal data in operating point with maximum load and 230 VAC

Curves



	n [rpm]	P_1 [W]	I [A]	Lp_A [dB(A)]	η_{tL} [%]
Ⓐ 1	3580	380	2.30	80	—
Ⓐ 2	3460	465	3.00	77	53
Ⓐ 3	3460	485	3.00	74	58
Ⓐ 4	3520	440	2.40	76	50
Ⓐ 5	2830	193	1.20	75	—
Ⓐ 6	2830	245	1.50	70	53
Ⓐ 7	2830	260	1.60	69	58
Ⓐ 8	2830	225	1.40	69	50
Ⓐ 9	2000	80	0.50	68	—
Ⓐ 10	2000	100	0.60	62	53
Ⓐ 11	2000	106	0.70	59	58
Ⓐ 12	2000	94	0.60	60	50

- **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; CCC, GOST are applied for

Centrifugal fan	Mass of centrifugal fan kg	Inlet nozzle (long)
R3G 250-AK41 -71	4.5	96359-2-4013