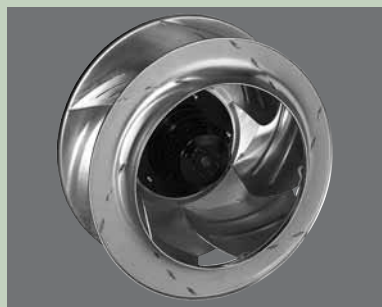
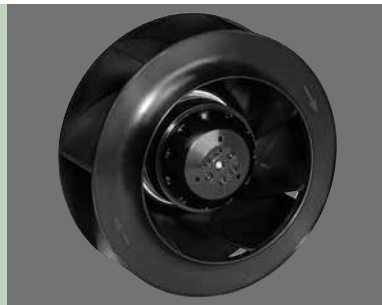




AC centrifugal fans backward curved

	AC centrifugal fans with plastic impeller	Ø 133 - Ø 355	14
	AC centrifugal fans with sheet steel impeller	Ø 250 - Ø 280	36
	AC centrifugal fans with aluminium impeller	Ø 310 - Ø 630	44



AC centrifugal fans

backward curved, Ø 133

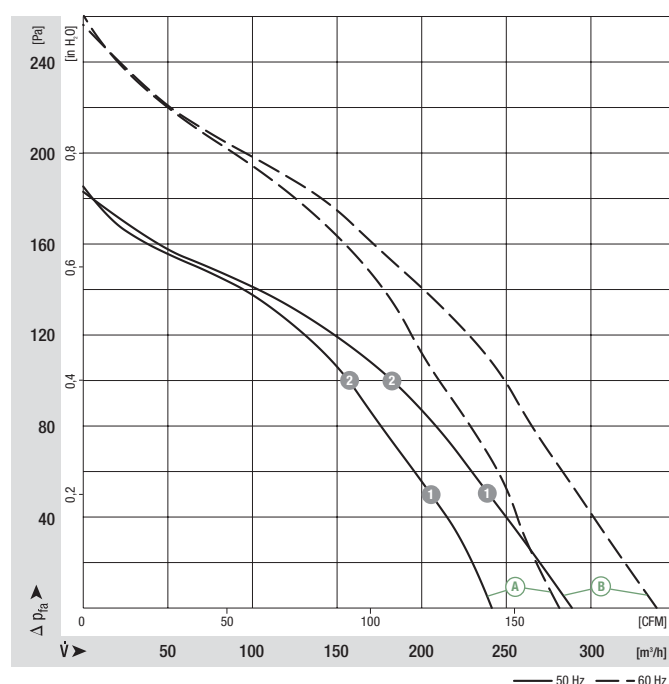


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Partially cast in aluminium
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 133	M2E 052-BF	A	1~ 230	50	240	2700	25	0.11	1.0/400	53	-25 to +55	A1)
			1~ 230	60	280	3200	28	0.13	1.0/400	56	-25 to +65	
R2E 133	M2E 052-BF	B	1~ 230	50	290	2800	24	0.11	1.0/400	56	-25 to +45	A1)
			1~ 230	60	345	3300	27	0.13	1.0/400	60	-25 to +60	

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
A 1	2680	25	0.11
A 2	2680	25	0.11
B 1	2710	25	0.11
B 2	2700	26	0.12

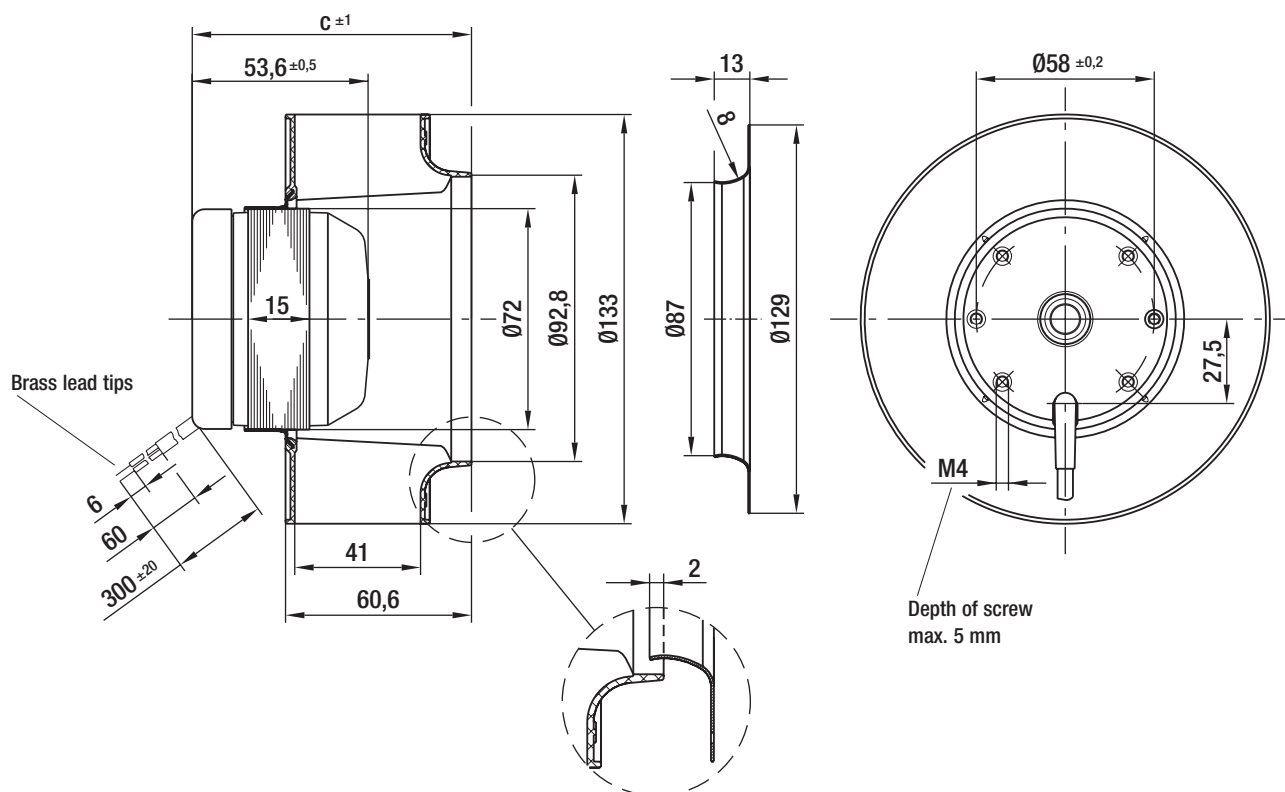
- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, GOST

Mass of
centrifugal fan

Dimensions



Centrifugal fan	kg	c	Inlet nozzle (long)
R2E 133-BH66 -07	0.7	73.0	09566-2-4013
R2E 133-BH66 -05	0.7	91.0	09566-2-4013



AC centrifugal fans

backward curved, Ø 133



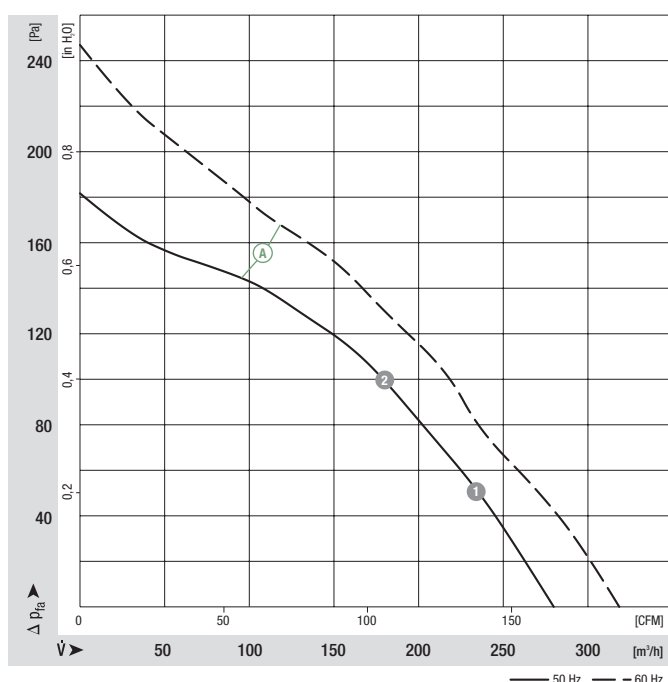
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 22
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R2S 133	M2S 052-CA	Ⓐ	1~ 230 1~ 230	50 60	280 320	2780 3200	36 34	0.25 0.21	— —	55 58	-25 to +40 -25 to +60	B)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
Ⓐ 1	2720	38	0.27
Ⓐ 2	2720	38	0.27

- **Motor protection:** TOP wired internally
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC

Mass of
centrifugal fanInlet nozzle
(long)

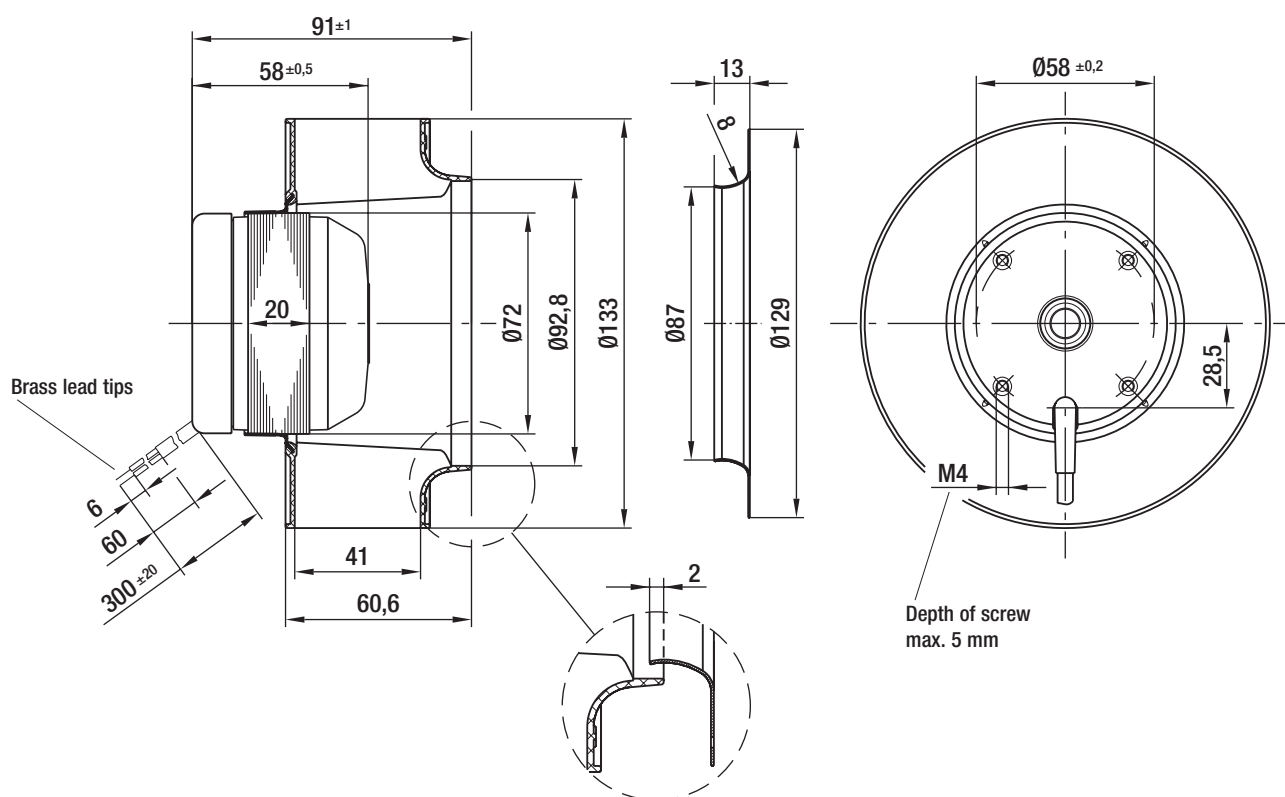
Centrifugal fan

kg

R2S 133-AE17 -05

0.9

09566-2-4013



AC centrifugal fans

backward curved, Ø 175

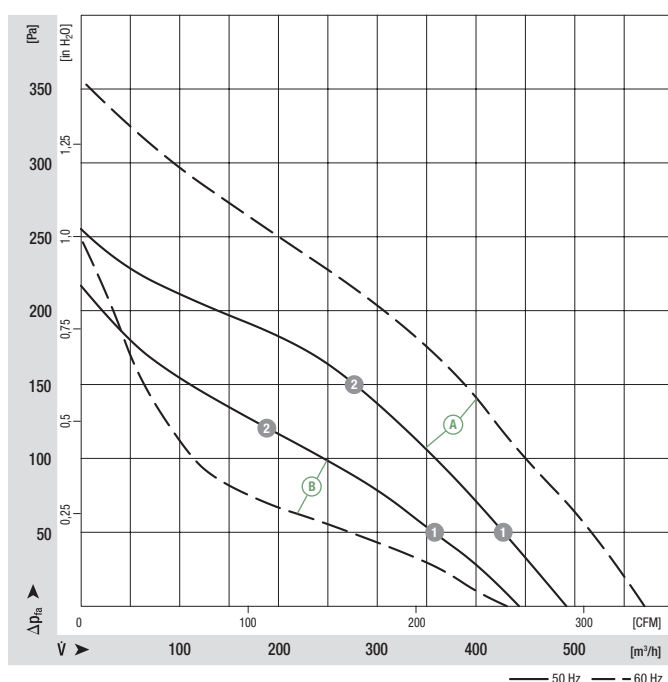


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** Ⓐ IP 44, Ⓑ IP 20
- **Insulation class:** Ⓐ "F", Ⓑ "B"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 175	M2E 052-CA	Ⓐ	1~ 230	50	490	2650	50	0.25	1.5 / 400	63	-25 to +50	A1)
			1~ 230	60	570	3100	51	0.23	1.5 / 400	68	-25 to +80	
R2S 175	M2S 052-CA	Ⓑ	1~ 230	50	440	2350	53	0.33	—	61	-25 to +40	B)
			1~ 230	60	430	2300	51	0.29	—	60	-25 to +55	

subject to alterations

Curves



	n	P ₁	I
	[rpm]	[W]	[A]
Ⓐ 1	2600	51	0.25
Ⓐ 2	2530	53	0.26
Ⓑ 1	2240	54	0.27
Ⓑ 2	2120	56	0.28

- **Motor protection:** TOP wired internally
- **Cable exit:** (A) variable, (B) axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, (B) also GOST

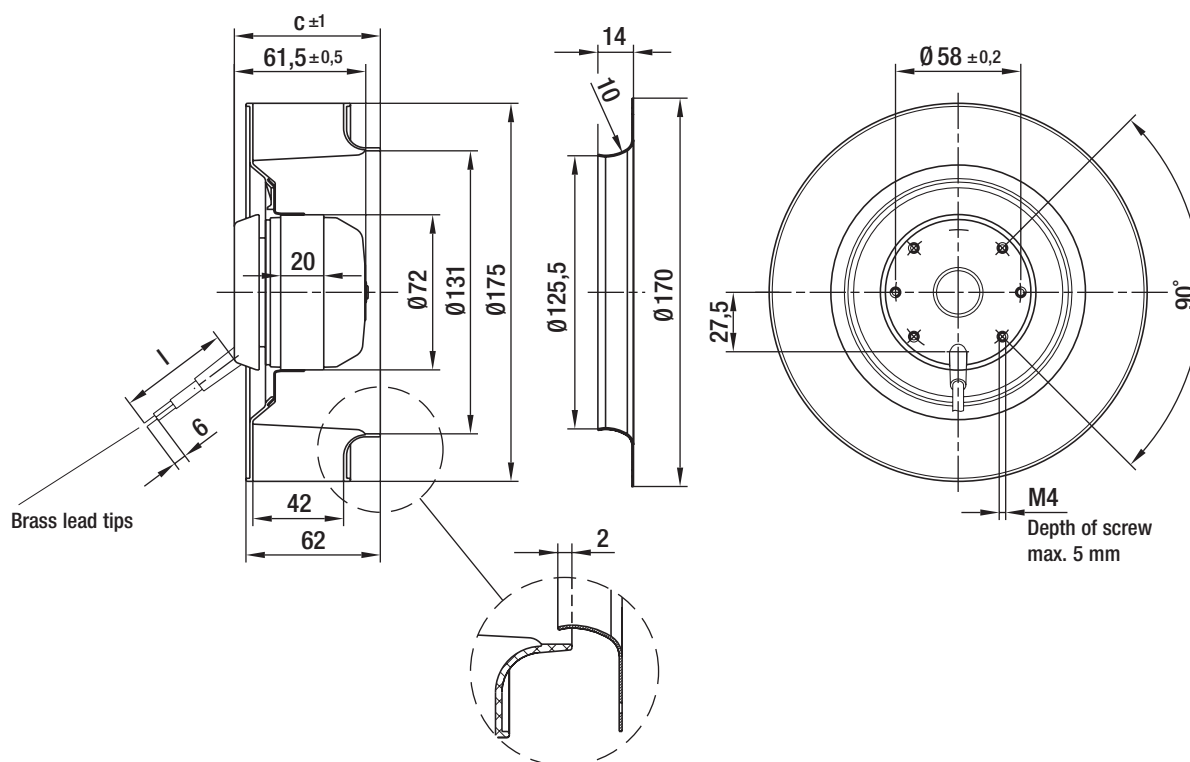


Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	c	l	Inlet nozzle (long)
R2E 175-AR72 -05	0.9	68.5	450.0	09576-2-4013
R2S 175-AB56 -01	0.9	69.0	400.0	09576-2-4013



AC centrifugal fans

backward curved, Ø 190



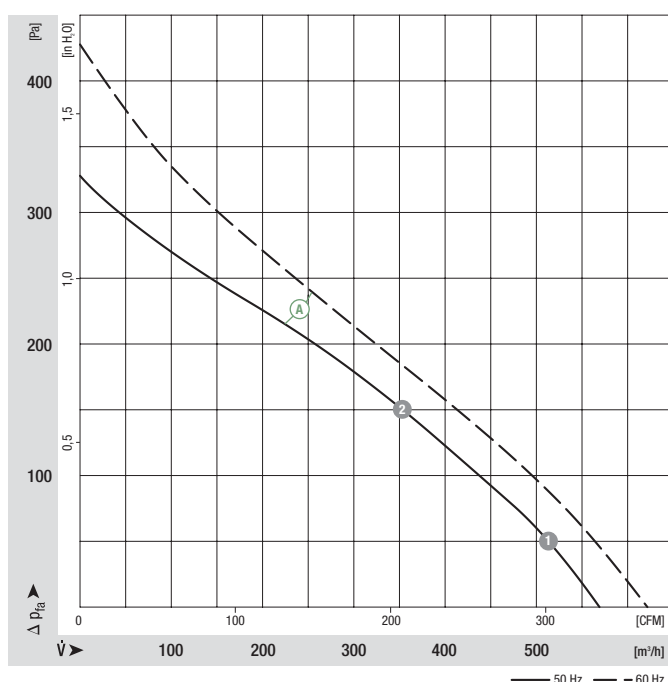
- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R2E 190	M2E 068-BF	Ⓐ	1~ 230 1~ 230	50 60	570 620	2500 2700	58 75	0.26 0.34	2.0/400 2.0/400	62 64	-25 to +50 -25 to +55	A1)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
Ⓐ 1	2490	59	0.26
Ⓐ 2	2410	61	0.27

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, GOST

Mass of
centrifugal fan

Centrifugal fan

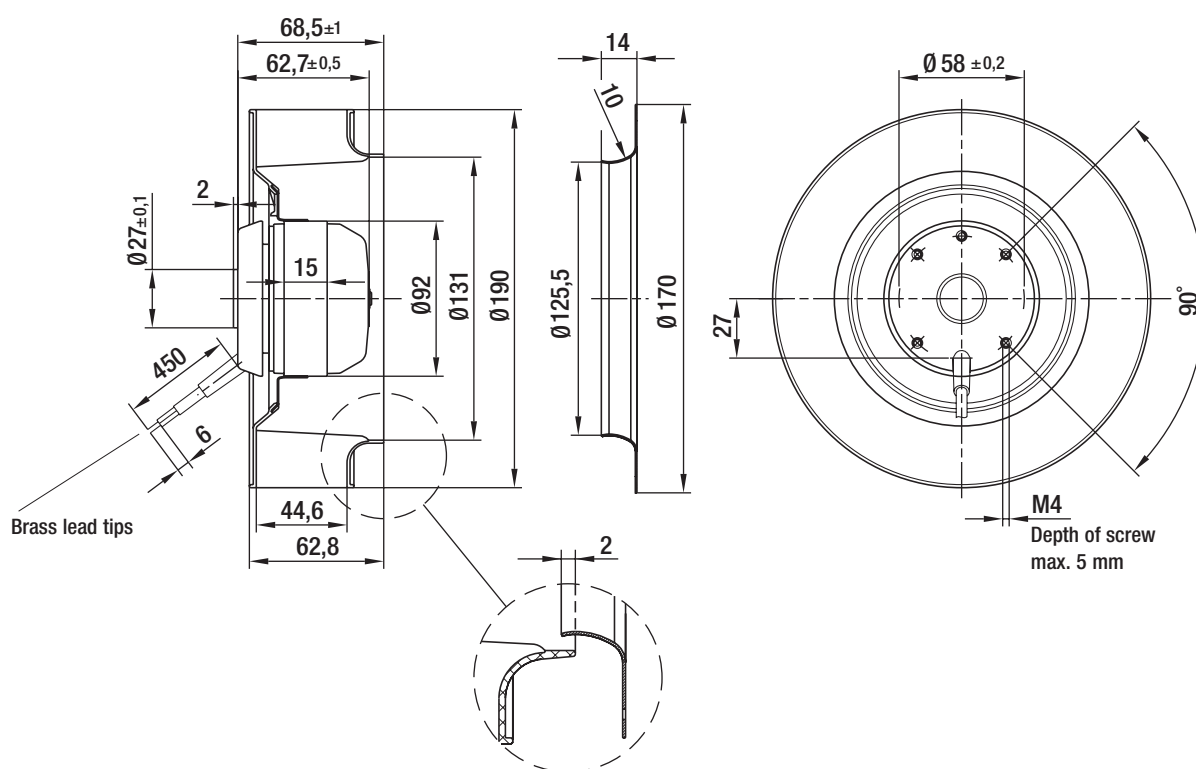
kg

Inlet nozzle
(long)

R2E 190-A026 -05

1.2

09576-2-4013



AC centrifugal fans

backward curved, Ø 220

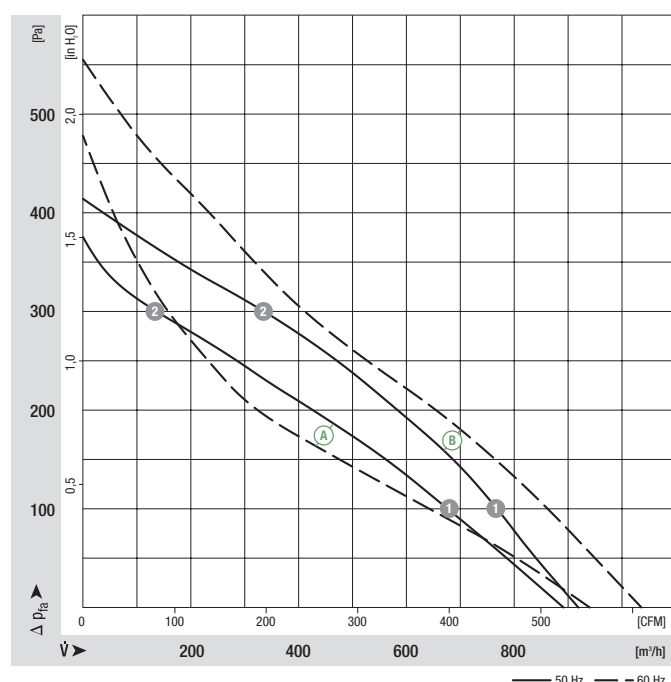


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 220	M2E 068-BF	A	1~ 230	50	860	2600	85	0.38	3.0/400	73	-25 to +40	A1)
			1~ 230	60	900	2700	90	0.40	2.0/400	74	-25 to +40	
R2E 220	M2E 068-CF	B	1~ 230	50	885	2700	85	0.38	2.5/400	72	-25 to +55	A1)
			1~ 230	60	990	3050	115	0.51	2.5/400	75	-25 to +55	

subject to alterations

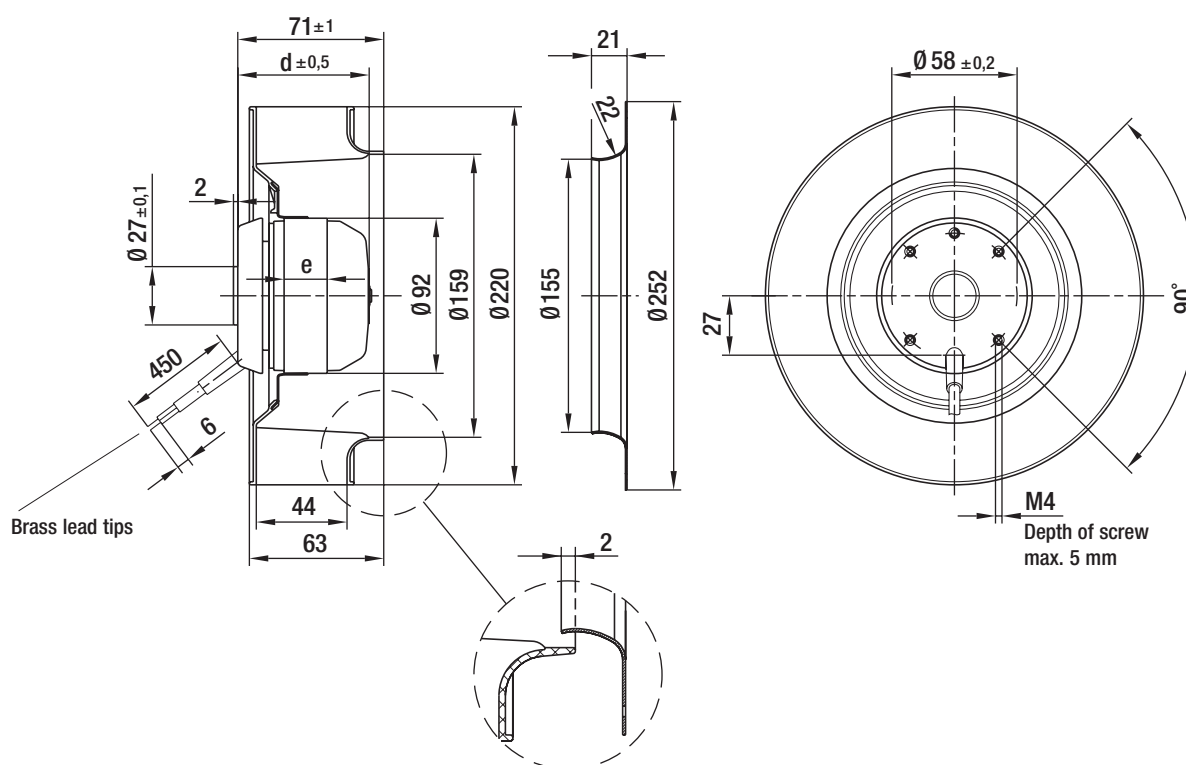
Curves



	n [rpm]	P ₁ [W]	I [A]
A 1	2390	95	0.42
A 2	2490	90	0.40
B 1	2650	96	0.43
B 2	2600	102	0.46

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, GOST

	Mass of centrifugal fan	Dimensions		
		d	e	
Centrifugal fan	kg	d	e	Inlet nozzle (long)
R2E 220-AA40 -05	1.3	63.0	15.0	09609-2-4013
R2E 220-AB06 -05	1.5	73.0	25.0	09609-2-4013



AC centrifugal fans

backward curved, Ø 225

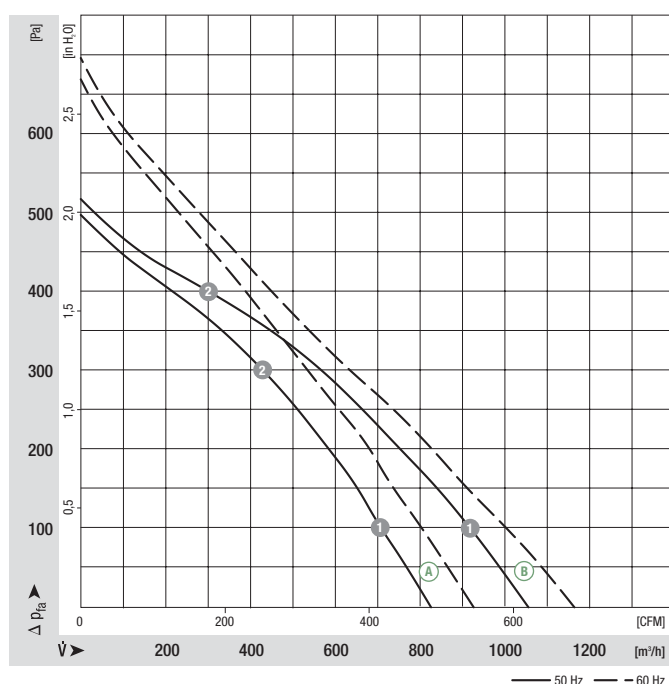


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 225	M2E 068-DF	A	1~ 230	50	850	2650	105	0.46	3.0/450	70	-25 to +60	A1)
			1~ 230	60	945	2950	145	0.64	3.0/450	72	-25 to +65	
R2E 225	M2E 068-DF	B	1~ 230	50	1050	2700	115	0.51	3.0/450	72	-25 to +60	A1)
			1~ 230	60	1160	3000	165	0.72	3.0/450	75	-25 to +30	

subject to alterations

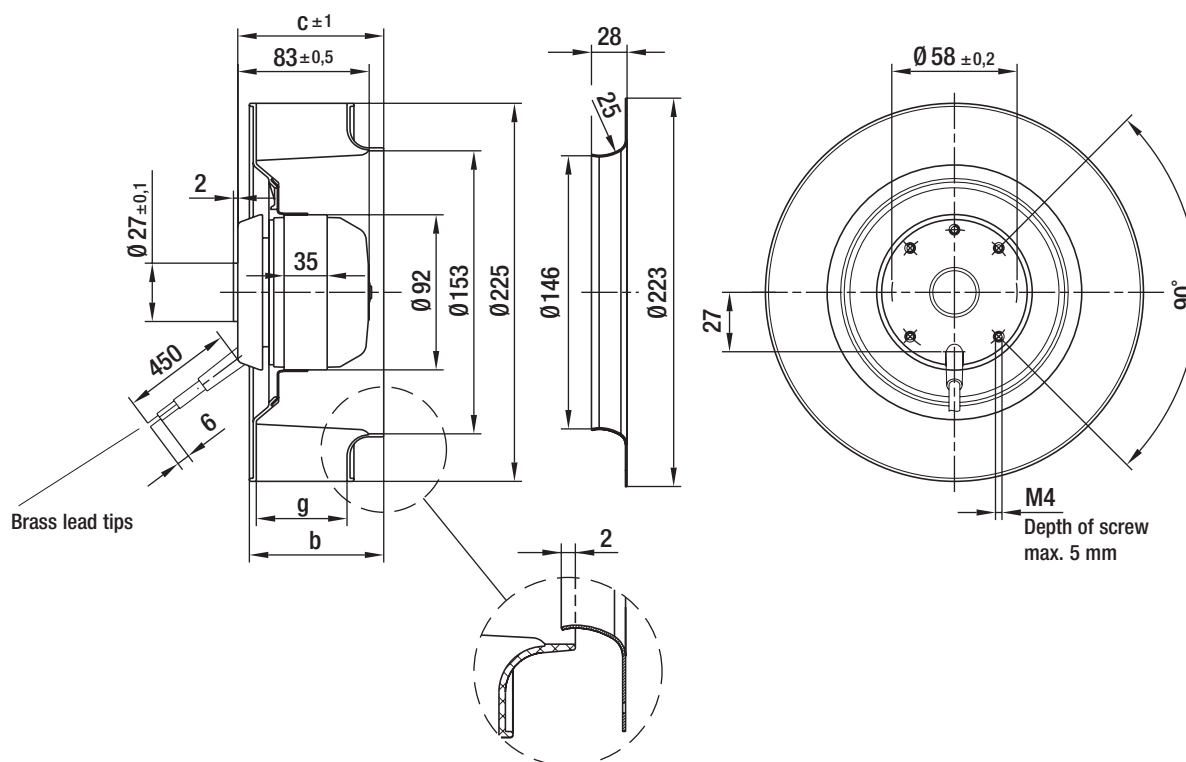
Curves



	n [rpm]	P ₁ [W]	I [A]
A 1	2580	110	0.49
A 2	2560	113	0.50
B 1	2620	135	0.60
B 2	2670	124	0.55

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC,  also GOST

	Mass of centrifugal fan	Dimensions			
		b	c	g	
Centrifugal fan	kg				Inlet nozzle (long)
R2E 225-AT51 -05	2.1	63.3	69.0	38.0	96358-2-4013
R2E 225-AX52 -05	2.1	75.3	85.0	50.0	96358-2-4013



AC centrifugal fans

backward curved, Ø 225

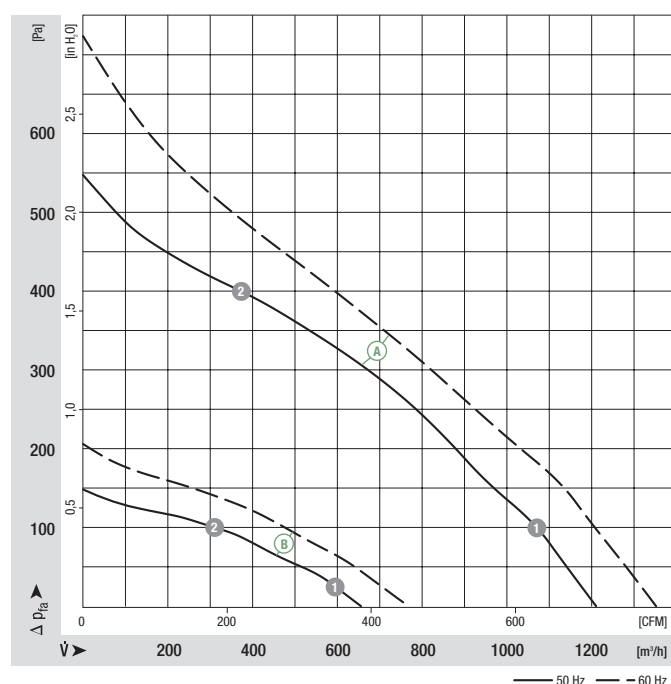


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 7
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** (A) "F", (B) "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 225	M2E 068-DF	(A)	1~ 230 1~ 230	50 60	1200 1340	2650 2950	135 200	0.60 0.88	4.0/450 4.0/450	69 71	-25 to +60 -25 to +60	A1)
R4E 225	M4E 068-CF	(B)	1~ 230 1~ 230	50 60	655 765	1420 1660	40 37	0.20 0.18	1.5/400 1.0/400	59 61	-25 to +50 -25 to +80	A1)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
(A) 1	2610	146	0.66
(A) 2	2650	138	0.61
(B) 1	1410	41	0.20
(B) 2	1400	43	0.21

- **Motor protection:** TOP wired internally
- **Cable exit:** (A) variable, (B) axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC

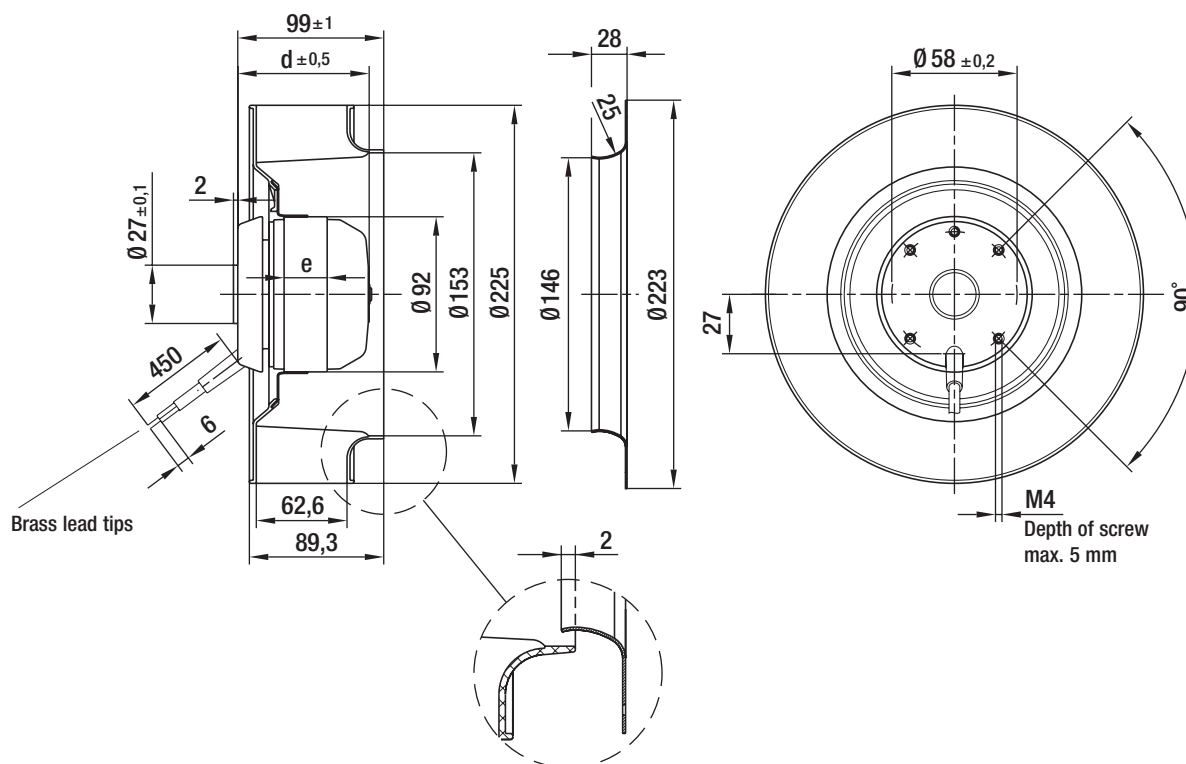


Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	d	e	Inlet nozzle (long)
R2E 225-BD92 -09	2.1	83.0	35.0	96358-2-4013
R4E 225-AT01 -05	1.8	72.6	25.0	96358-2-4013



AC centrifugal fans

backward curved, Ø 250

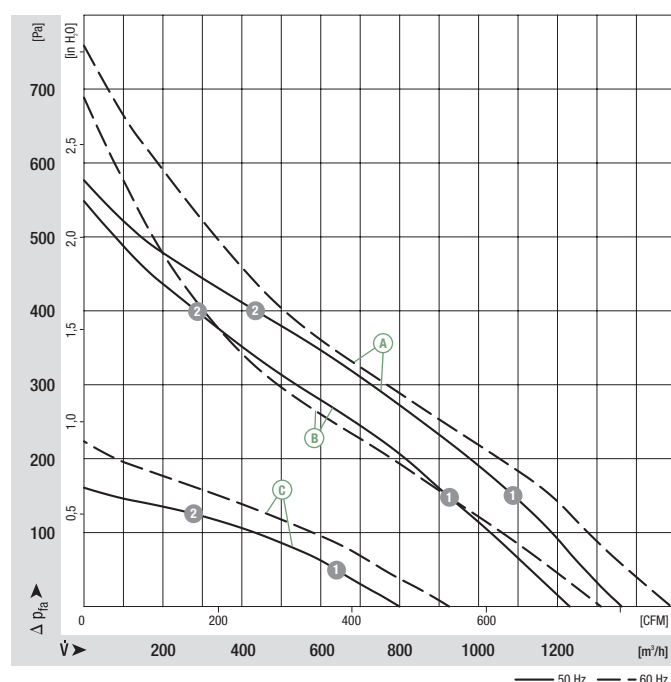


- **Material:** Impeller: PA plastic 6.6, fibreglass-reinforced
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** (A) "F", (B) (C) "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 250	M2E 068-EC	(A)	1~ 230	50	1450	2600	155	0.70	5.0/400	75	-25 to +70	A1)
			1~ 230	60	1490	2700	215	0.95	5.0/400	76	-25 to +45	
R2E 250	M2E 068-DF	(B)	1~ 230	50	1230	2550	115	0.51	4.0/400	71	-25 to +65	A1)
			1~ 230	60	1335	2750	160	0.71	4.0/400	72	-25 to +45	
R4E 250	M4E 068-CF	(C)	1~ 230	50	810	1400	43	0.20	1.5/400	61	-25 to +70	A1)
			1~ 230	60	930	1600	43	0.20	1.0/400	64	-25 to +80	

subject to alterations

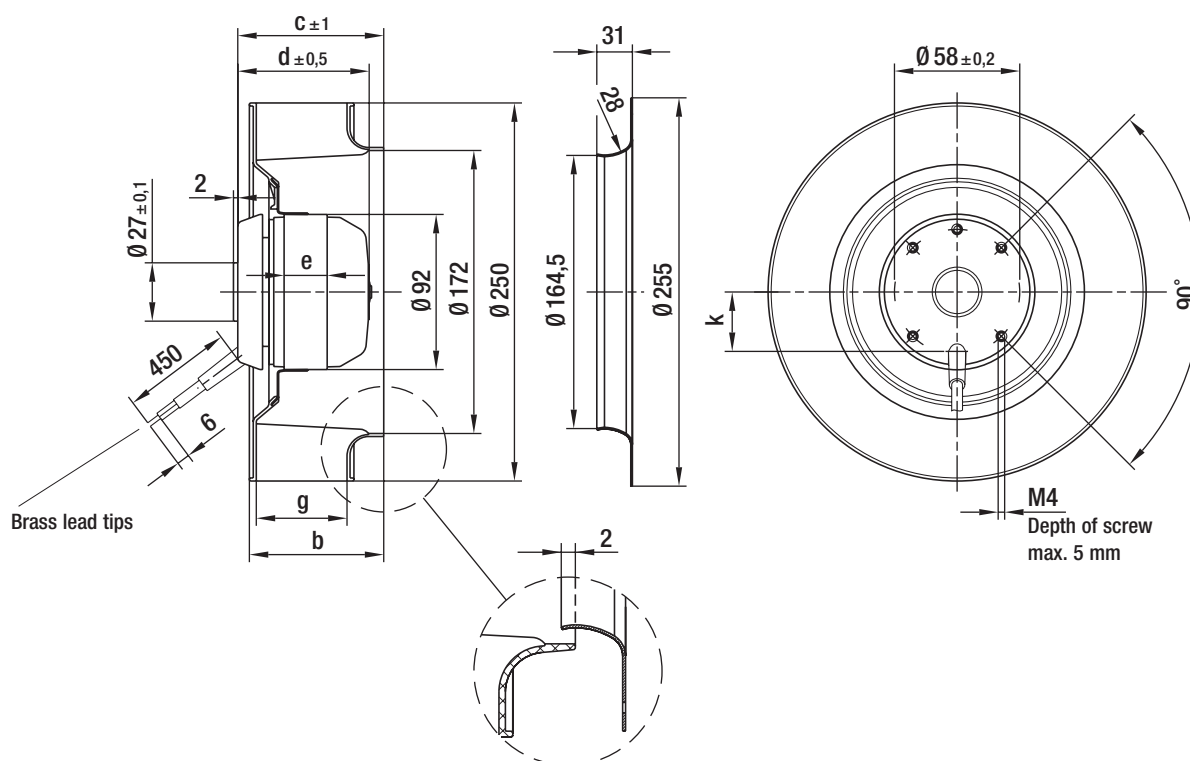
Curves



		n [rpm]	P ₁ [W]	I [A]
(A)	1	2400	152	0.69
(A)	2	2400	152	0.69
(B)	1	2350	137	0.61
(B)	2	2435	127	0.56
(C)	1	1385	46	0.21
(C)	2	1370	47	0.21

- **Motor protection:** TOP wired internally
- **Cable exit:** (A) (B) variable, (C) axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, (A) (C) also GOST

	Mass of centrifugal fan	Dimensions							
Centrifugal fan		kg	b	c	d	e	g	k	Inlet nozzle (long)
R2E 250-AS47 -26	3.1	84.3	99.0	97.5	42.0	56.0	27.0	96359-2-4013	
R2E 250-AV65 -01	2.6	73.3	89.0	83.0	35.0	45.0	27.0	96359-2-4013	
R4E 250-AH01 -05	2.2	84.3	99.0	72.6	25.0	56.0	29.0	96359-2-4013	



AC centrifugal fans

backward curved, Ø 310



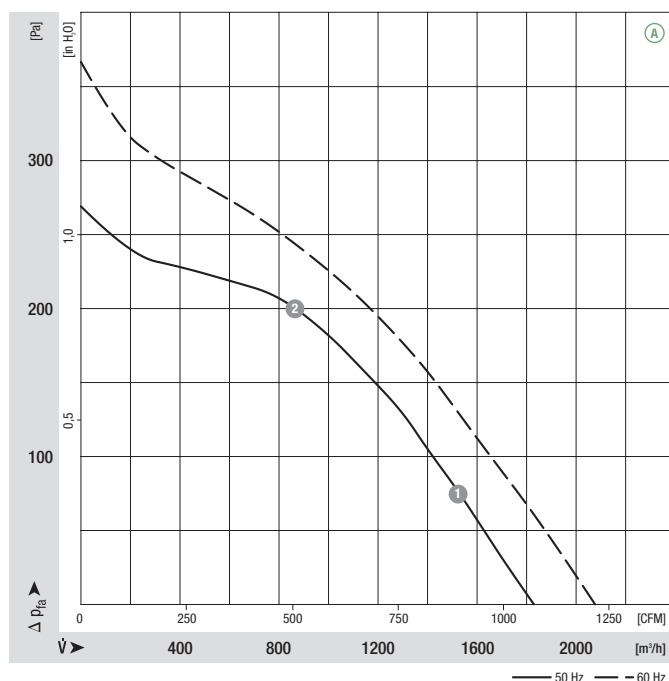
- **Material:** Impeller: PA plastic 6.6
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4E 310	M4E 068-EC	Ⓐ	1~ 230 1~ 230	50 60	1830 2070	1400 1600	105 140	0.50 0.62	4.0/400 4.0/400	63 66	-25 to +55 -25 to +55	A1)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
Ⓐ 1	1380	118	0.56
Ⓐ 2	1360	127	0.60

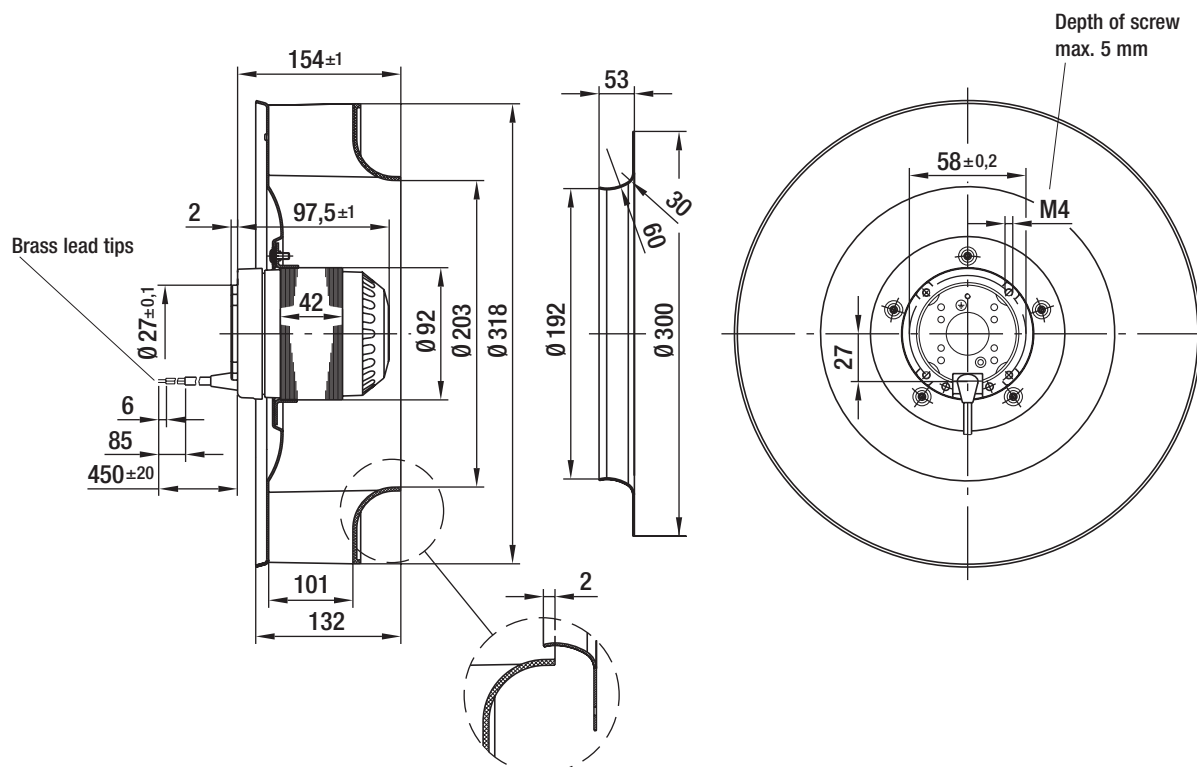
- **Motor protection:** TOP wired internally
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R4E 310-AT06 -01	3.5	97512-2-4013



AC centrifugal fans

backward curved, Ø 330



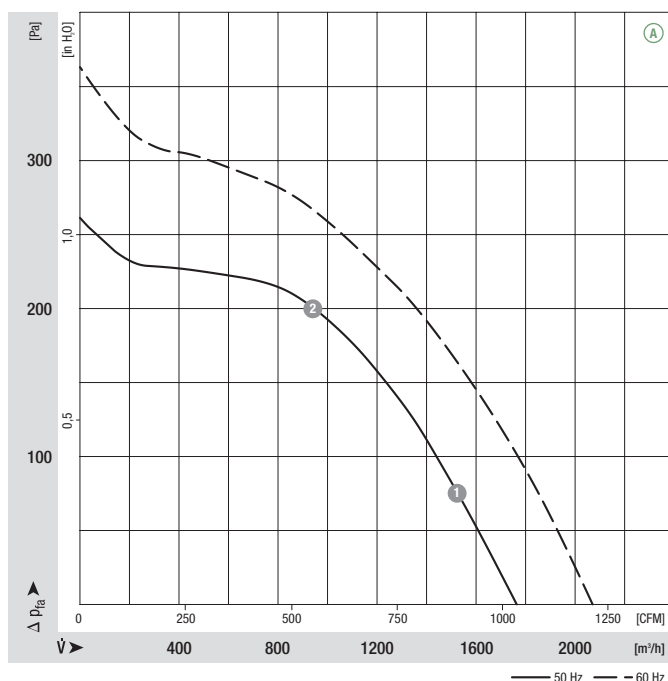
- **Material:** Impeller: PA plastic 6.6
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4E 330	M4E 074-DF	Ⓐ	1~ 230 1~ 230	50 60	1760 2070	1450 1700	95 135	0.44 0.61	4.0/400 4.0/400	66 69	-25 to +60 -25 to +40	A1)

subject to alterations

Curves



n [rpm]	P ₁ [W]	I [A]
Ⓐ 1 1420	112	0.52
Ⓐ 2 1395	128	0.59

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



Mass of centrifugal fan



Centrifugal fan

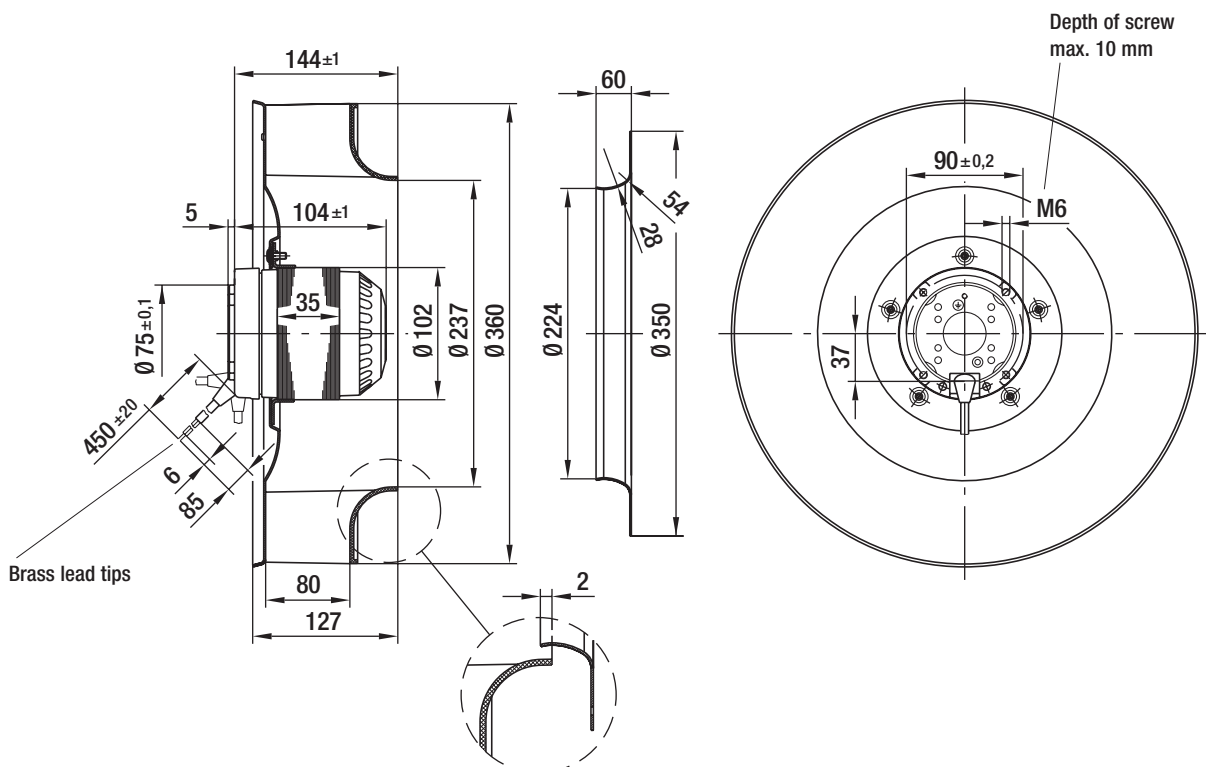
kg

Inlet nozzle (long)

R4E 330-AA06 -05

3.6

51357-2-4013



AC centrifugal fans

backward curved, Ø 355

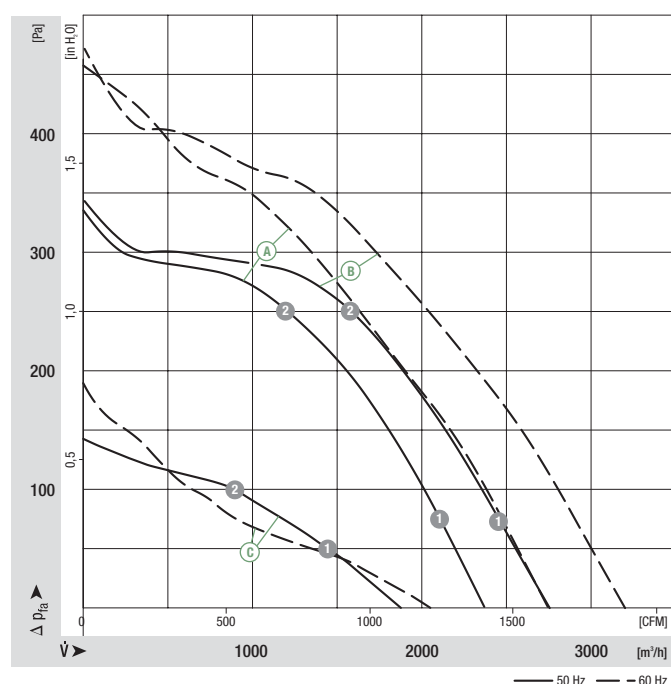


- **Material:** Impeller: PA plastic 6.6
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R4E 355	M4E 074-EI	A	1~ 230	50	2365	1410	170	0.78	6.0/400	66	-25 to +55	A1)
			1~ 230	60	2740	1630	250	1.10	6.0/400	70	-25 to +40	
R4E 355	M4E 074 -GA	B	1~ 230	50	2740	1400	215	1.00	7.0/400	68	-25 to +50	A1)
			1~ 230	60	3190	1630	300	1.32	7.0/400	68	-25 to +30	
R6E 355	M6E 074-DF	C	1~ 230	50	1875	910	65	0.29	2.0/400	61	-25 to +70	A1)
			1~ 230	60	2050	1000	90	0.40	2.0/400	62	-25 to +50	

subject to alterations

Curves



		n [rpm]	P ₁ [W]	I [A]
A	1	1390	190	0.82
A	2	1360	212	0.94
B	1	1390	228	1.06
B	2	1360	259	1.20
C	1	870	73	0.33
C	2	835	77	0.36

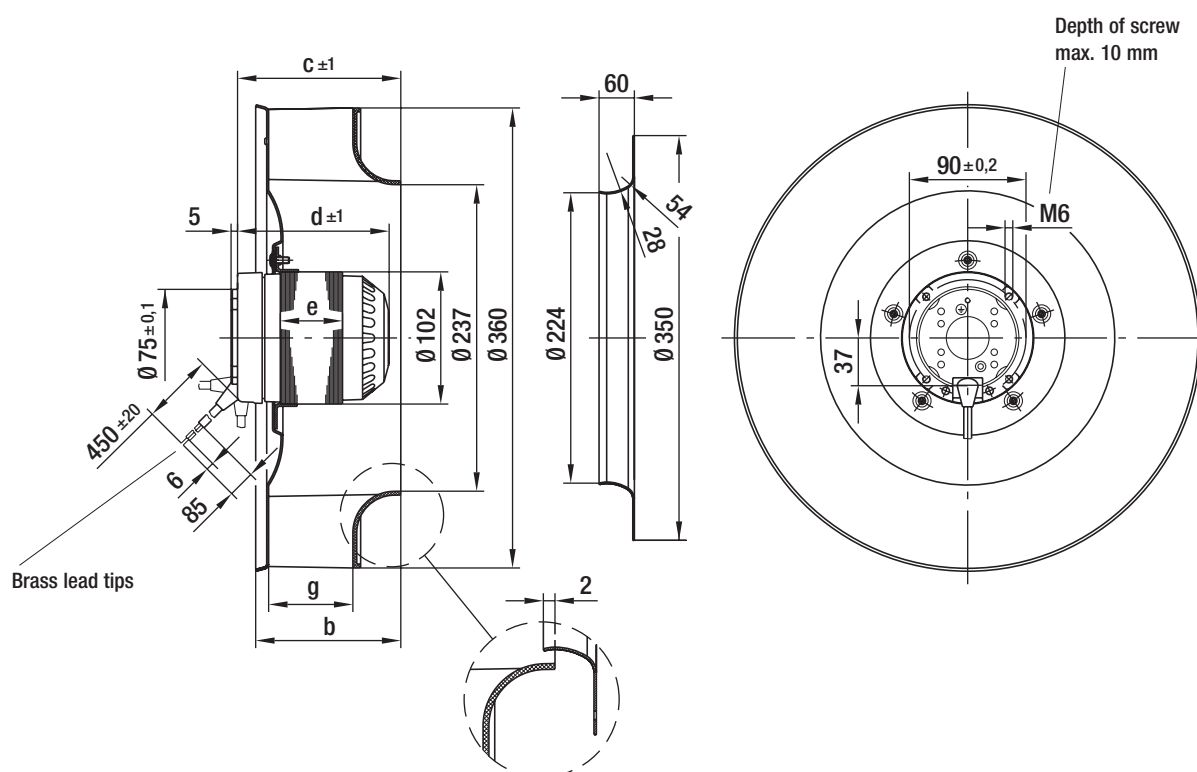
- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



Mass of centrifugal fan



	Mass cent	Dimensions						
Centrifugal fan	kg	b	c	d	e	g	Inlet nozzle (long)	
R4E 355-AF05 -05	4.4	148.5	165.5	117.0	48.0	101.5	51357-2-4013	
R4E 355-AG01 -05	4.5	173.0	190.0	129.0	60.0	126.0	51357-2-4013	
R6E 355-AB16 -05	4.0	173.0	190.0	104.0	35.0	126.0	51357-2-4013	



AC centrifugal fans

backward curved, Ø 250



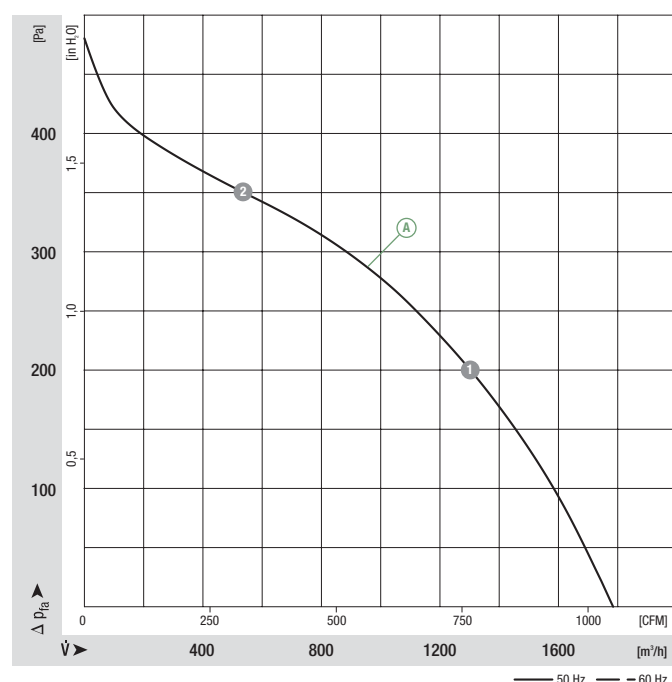
- **Material:** Impeller: Sheet steel, coated in black
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R2E 250	M2E 068-EC	Ⓐ	1~ 230	50	1780	2650	185	0.81	6.0/400	72	-25 to +50	A1)

subject to alterations

Curves



n [rpm]	P ₁ [W]	I [A]
Ⓐ 1 2510	220	0.97
Ⓐ 2 2615	190	0.84

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



Mass of centrifugal fan



Centrifugal fan

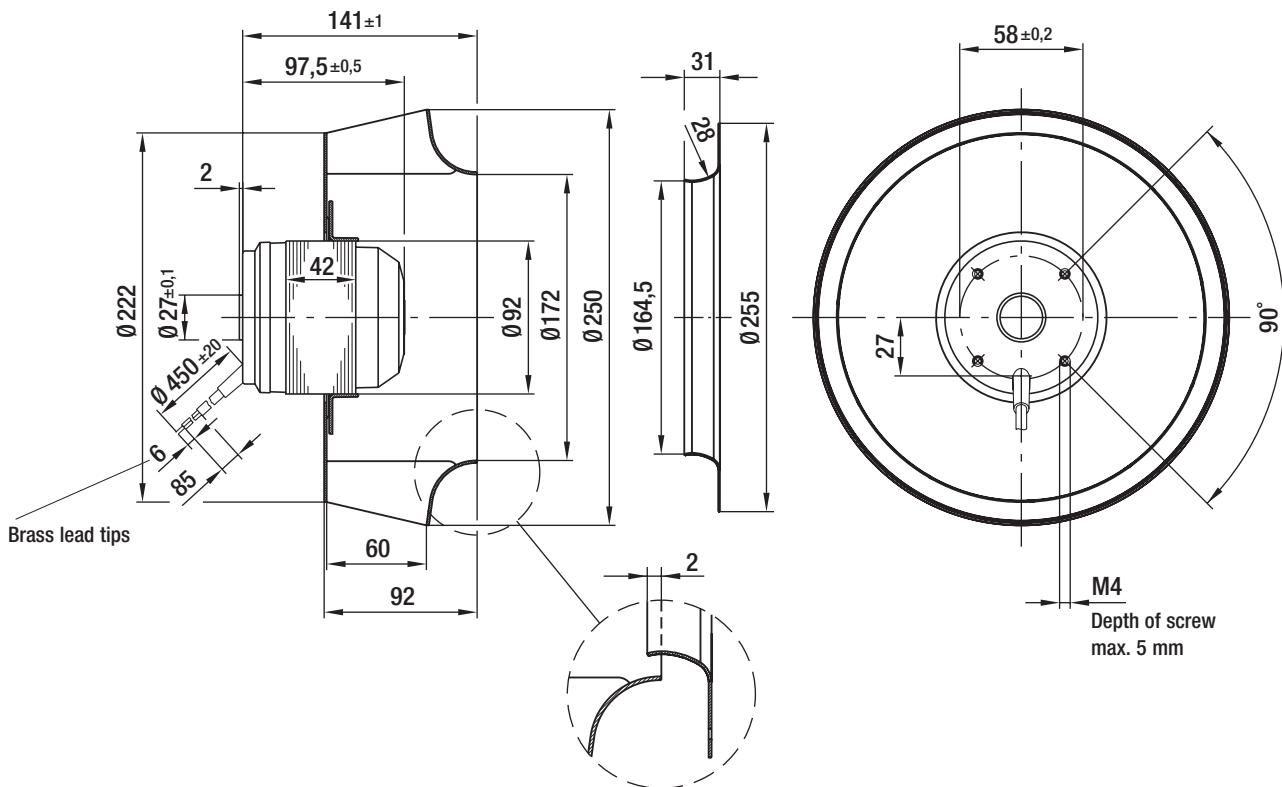
kg

Inlet nozzle (long)

R2E 250-AW50-05

3.1

96359-2-4013



AC centrifugal fans

backward curved, Ø 270



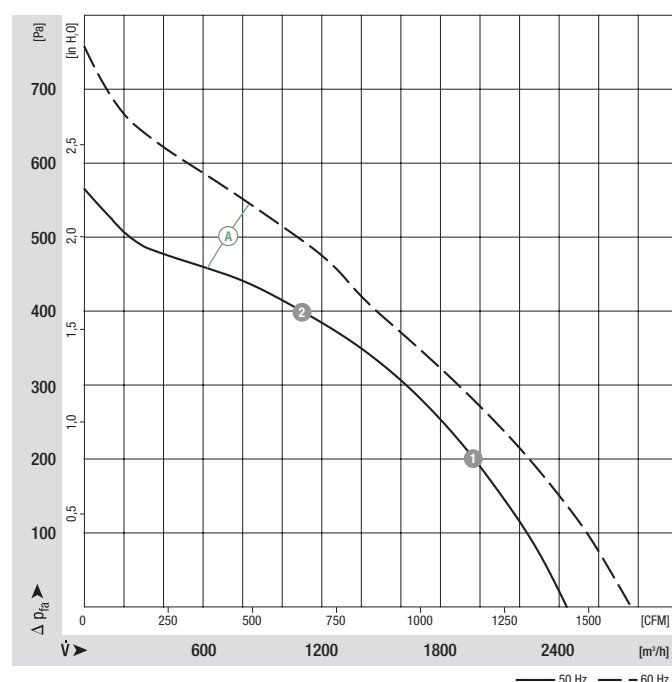
- **Material:** Impeller: Sheet steel
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R2E 270	M2E 074-GA	Ⓐ	1~ 230 1~ 230	50 60	2435 2760	2750 3100	280 430	1.23 1.88	10.0/400 10.0/400	77 80	-25 to +60 -25 to +60	A1)

subject to alterations

Curves



- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Capacitor:** FPU (P2) acc. to IEC 252
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



Mass of centrifugal fan



Centrifugal fan

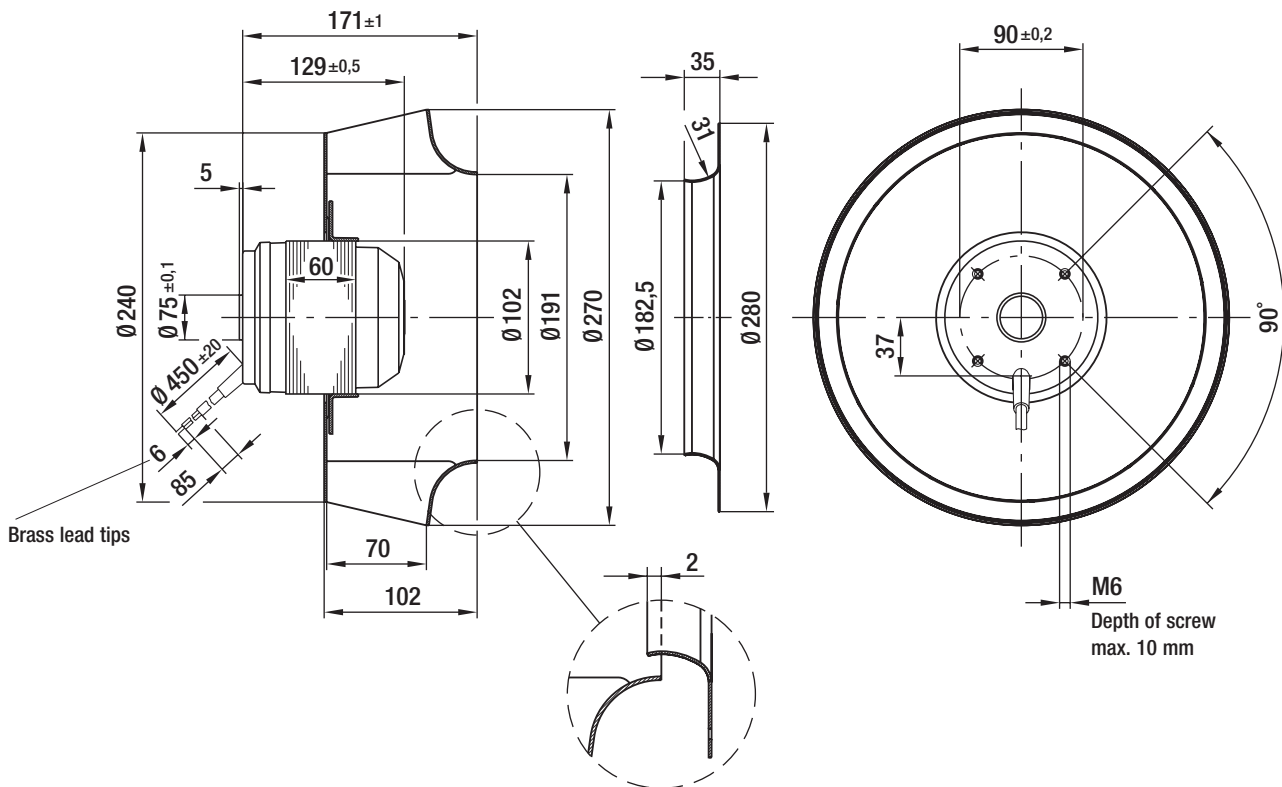
kg

Inlet nozzle (long)

R2E 270-AA01 -05

4.7

96360-2-4013



AC centrifugal fans

backward curved, Ø 280



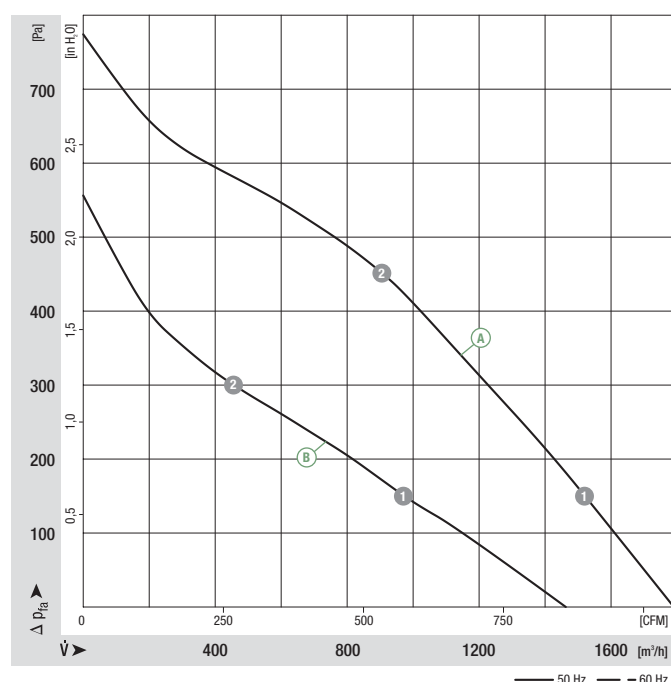
- **Material:** Impeller: Sheet steel, galvanised
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
			VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2D 280	M2D 074-EI	(A)	3~ 400 Δ	50	1790	2730	210	0.37	—	79	-25 to +80	F1a)/F2a)
		(B)	3~ 400 Y	50	1460	2200	160	0.25	—	75	-25 to +70	

subject to alterations

Curves



		n [rpm]	P ₁ [W]	I [A]
(A)	1	2650	252	0.44
(A)	2	2550	302	0.53
(B)	1	1960	187	0.30
(B)	2	1975	185	0.29

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE



Mass of
centrifugal fan



Inlet nozzle
(long)

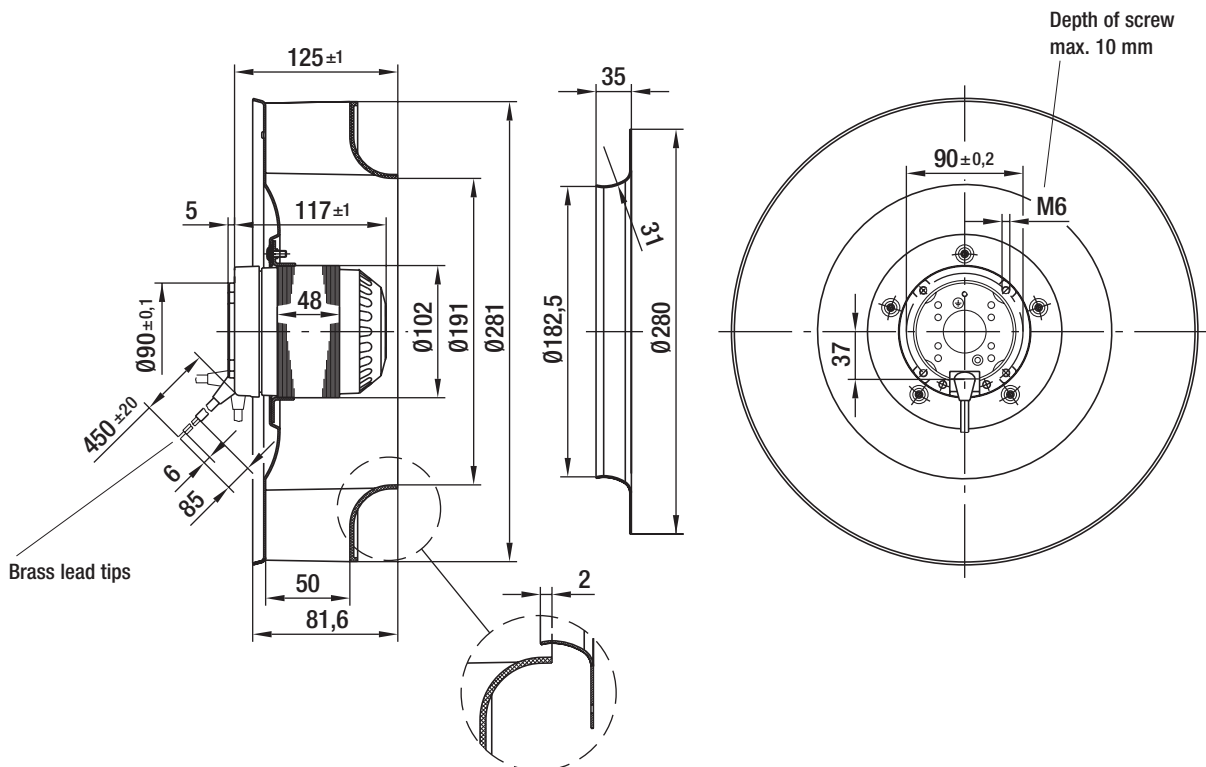
Centrifugal fan

kg

R2D 280-AF10 -09

4.6

96360-2-4013



AC centrifugal fans

backward curved, Ø 280

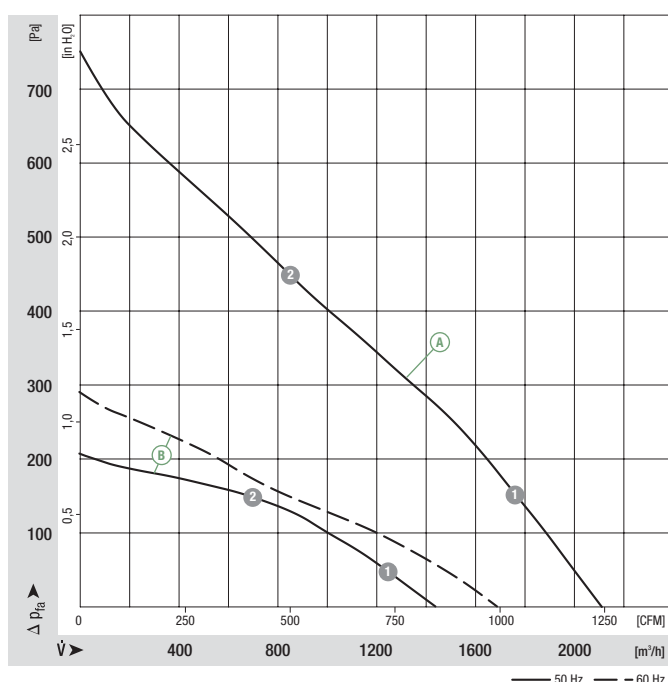


- **Material:** Impeller: Sheet steel, coated in black
Rotor: Coated in black
- **Number of blades:** 11
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** (A) "F", (B) "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R2E 280	M2E 068-EC	(A)	1~ 230	50	2110	2700	225	1.00	7.0/400	76	-25 to +40	A1)
R4E 280	M4E 068-DF	(B)	1~ 230	50	1435	1420	78	0.35	2.5/450	62	-25 to +40	A1)
			1~ 230	60	1685	1635	105	0.42	2.5/450	67	-25 to +40	A1)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
(A) 1	2560	265	1.18
(A) 2	2390	312	1.38
(B) 1	1380	88	0.40
(B) 2	1340	99	0.44

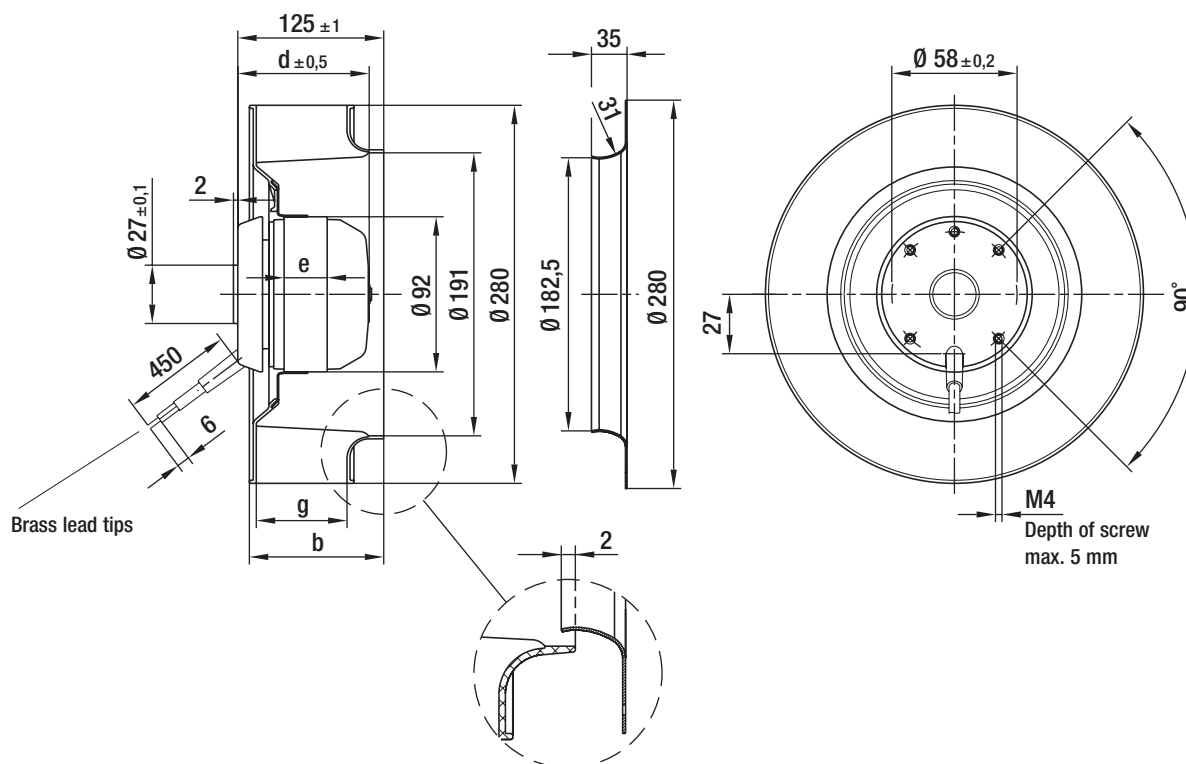
- **Motor protection:** TOP wired internally
- **Cable exit:** (A) variable, (B) axial
- **Protection class:** I
- **Capacitor:** (A) FPU (P2) acc. to IEC 252
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC, GOST

Mass of
centrifugal fan

Dimensions



Centrifugal fan	kg	b	d	e	g	Inlet nozzle (long)
R2E 280-AE52 -05	3.0	81.6	97.5	42.0	50.0	96360-2-4013
R4E 280-AD08 -05	2.8	111.4	82.5	35.0	80.0	96360-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 310

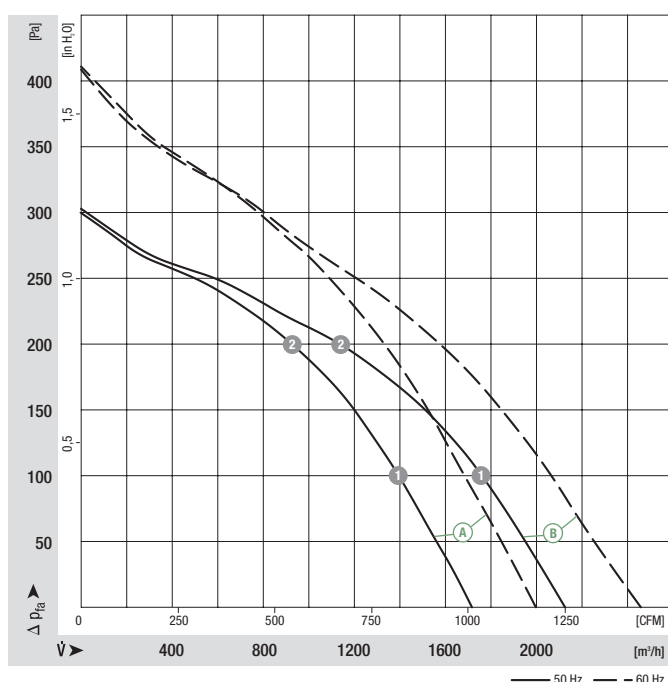


- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R4D 310 ⁽¹⁾	M4D 068-EC	A	3~ 230/400	50	1710	1430	85	0.52/0.30	—	62	-25 to +75	C1)/C2)
			3~ 230/400	60	1990	1650	115	0.45/0.26	—	66	-25 to +80	
R4D 310 ⁽¹⁾	M4D 068-EC	B	3~ 230/400	50	2120	1400	110	0.55/0.32	—	60	-25 to +65	C1)/C2)
			3~ 230/400	60	2450	1600	150	0.52/0.30	—	63	-25 to +55	

subject to alterations (1) 230 VAC Δ / 400 VAC Y

Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]
A 1	1400	107	0.65/0.38
A 2	1400	113	0.69/0.40
B 1	1360	136	0.69/0.40
B 2	1350	141	0.71/0.41

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



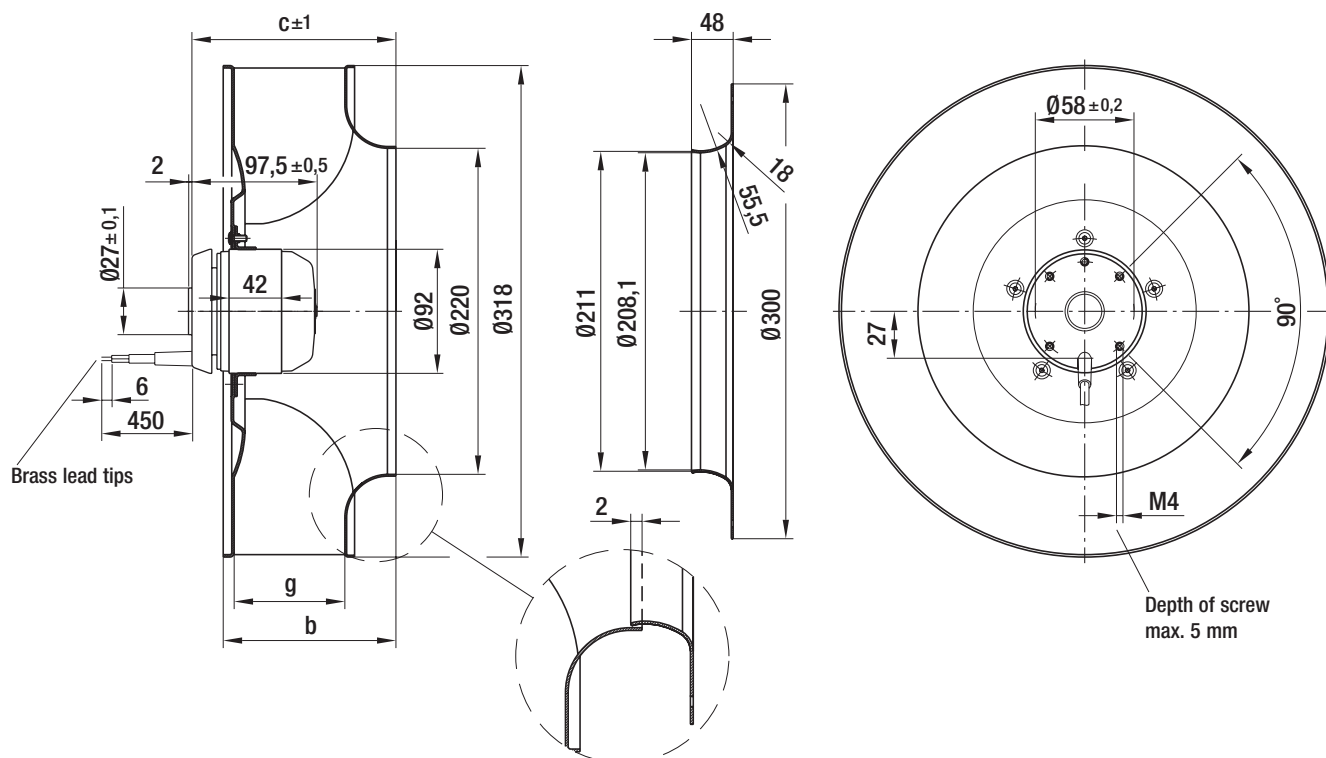
Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	b	c	g	Inlet nozzle (long)	Inlet nozzle (short)
R4D 310-AR18 -01	3.3	104.0	123.0	70.0	31050-2-4013	31051-2-4013
R4D 310-AS18 -01	3.4	139.0	154.0	101.0	31050-2-4013	31051-2-4013

Inlet nozzle (long)



AC centrifugal fans

backward curved, 3-D, Ø 310



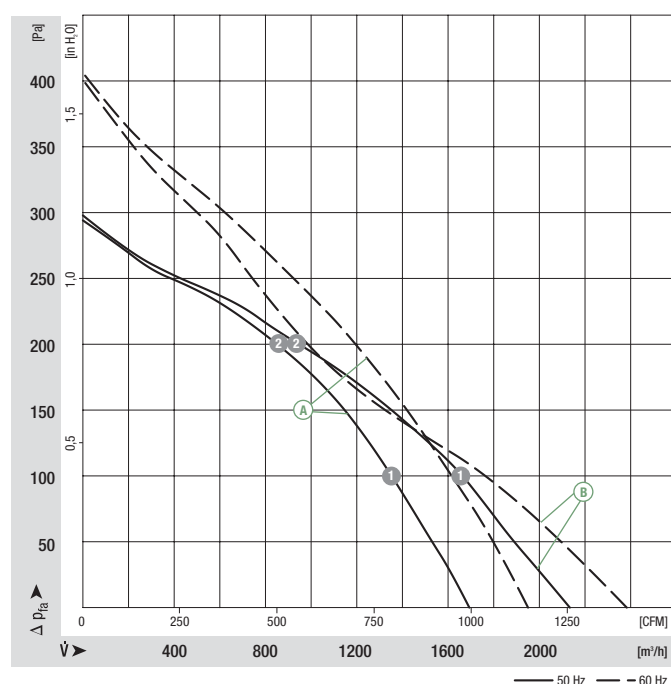
- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** A "B", B "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Air flow m³/h	Speed/rpm	Power input W	Current draw A	Capacitor µF/VDB	Sound pressure level dB(A)	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4E 310	M4E 068-EC	A	1~ 230 1~ 230	50 60	1690 1950	1410 1650	95 125	0.46 0.56	4.0/400 4.0/400	62 66	-25 to +70 -25 to +65	A1)
R4E 310	M4E 068-EC	B	1~ 230 1~ 230	50 60	2130 2380	1370 1530	120 160	0.54 0.71	4.0/400 4.0/400	59 62	-25 to +85 -25 to +50	A1)

subject to alterations

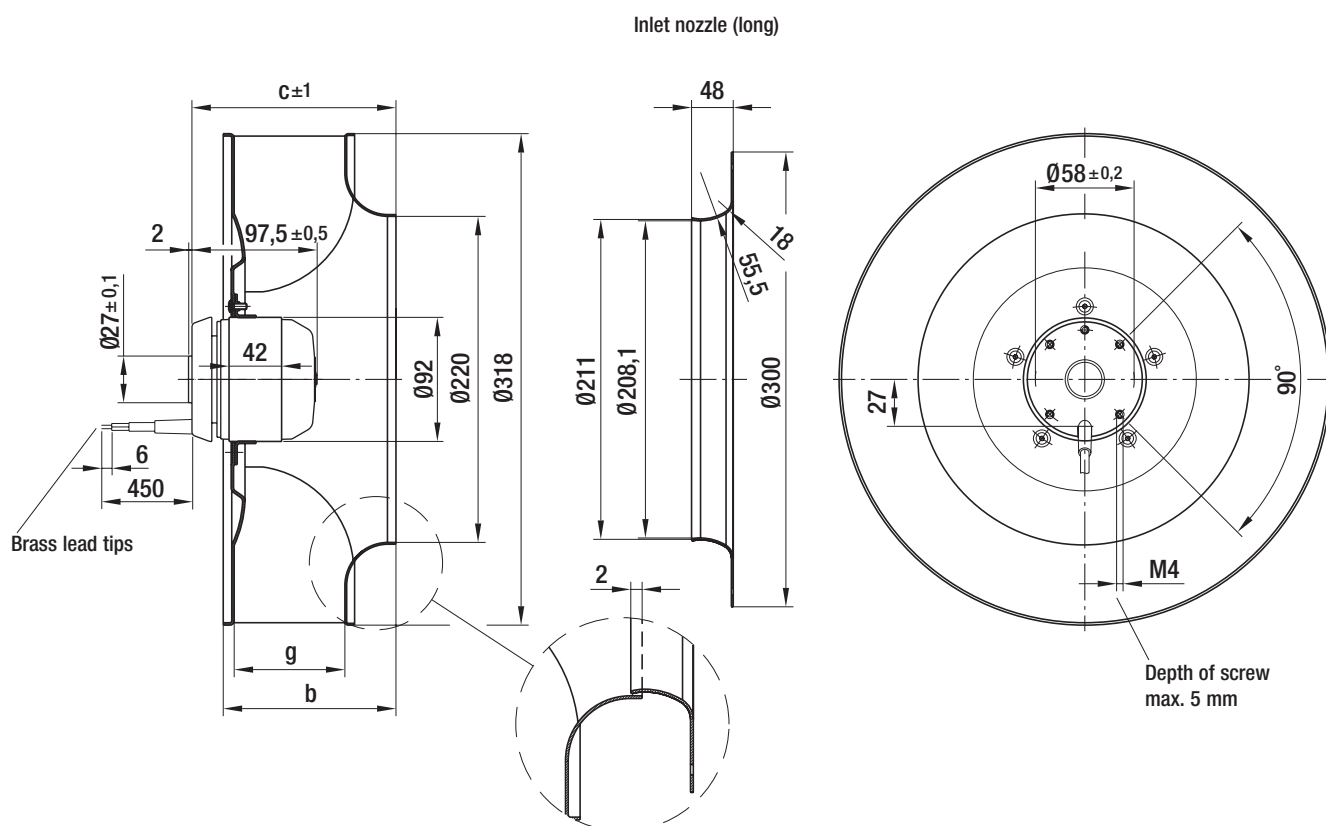
Curves (established with long inlet nozzle)



	n [rpm]	P ₁ [W]	I [A]
A 1	1370	114	0.55
A 2	1360	118	0.57
B 1	1310	140	0.63
B 2	1320	140	0.63

- **Motor protection:** TOP wired internally
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC

Centrifugal fan	kg	Dimensions			Inlet nozzle (long)	Inlet nozzle (short)
		b	c	g		
R4E 310-AR06 -01	3.3	104.0	123.0	70.0	31050-2-4013	31051-2-4013
R4E 310-AS06 -01	3.4	139.0	154.0	101.0	31050-2-4013	31051-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 310

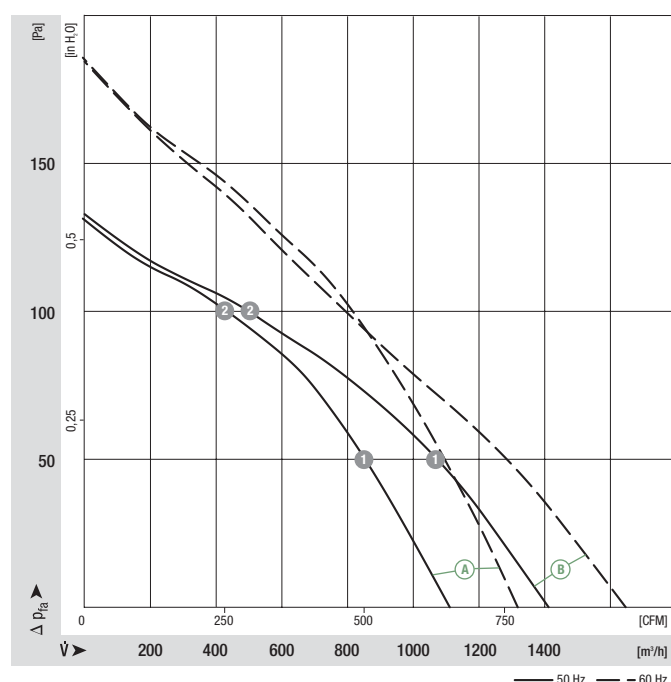


- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "B"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R6E 310	M6E 068-EC	A	1~ 230	50	1110	950	45	0.21	1.5/450	51	-25 to +75	A1)
			1~ 230	60	1320	1120	55	0.25	1.5/450	55	-25 to +80	
R6E 310	M6E 068-EC	B	1~ 230	50	1400	920	48	0.22	1.5/450	50	-25 to +75	A1)
			1~ 230	60	1640	1070	60	0.27	1.5/450	53	-25 to +75	

subject to alterations

Curves (established with long inlet nozzle)



	n	P ₁	I
	[rpm]	[W]	[A]
A 1	950	46	0.21
A 2	925	50	0.23
B 1	885	53	0.24
B 2	900	51	0.23

- **Motor protection:** TOP wired internally
- **Cable exit:** Axial
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC



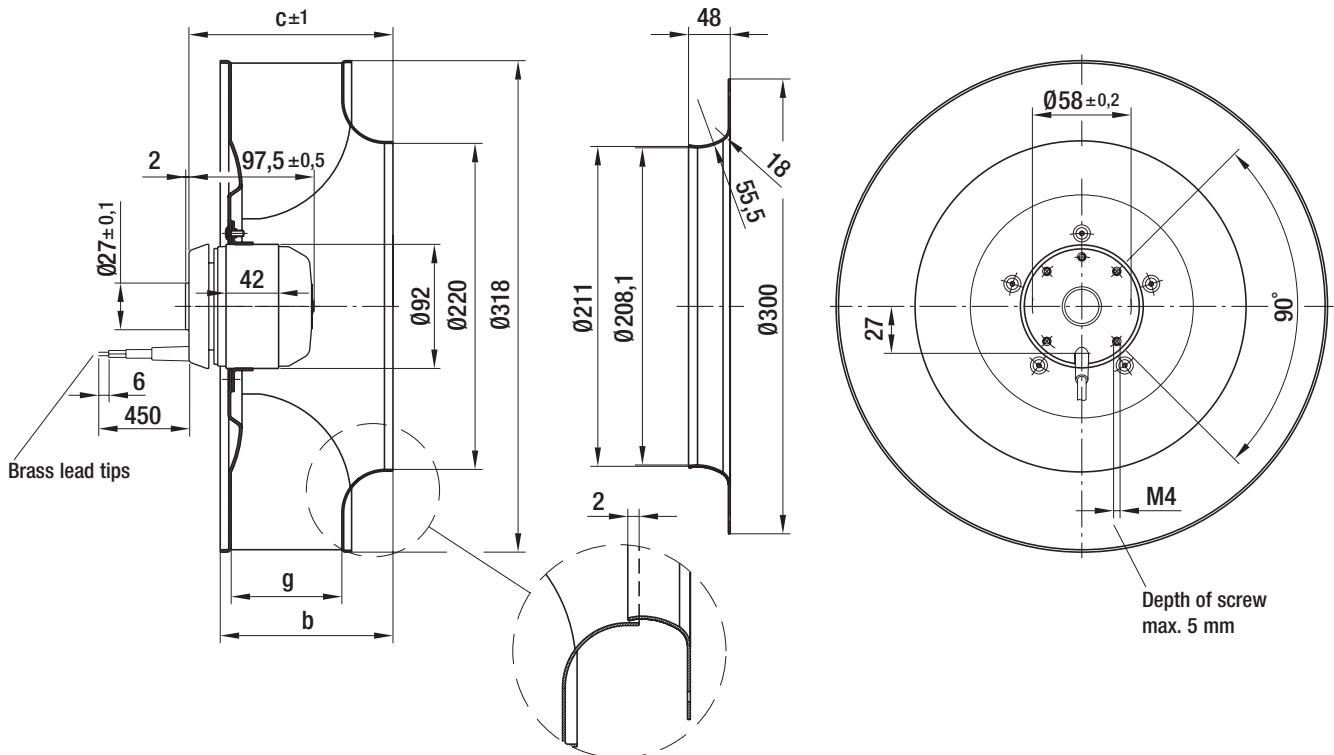
Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	b	c	g	Inlet nozzle (long)	Inlet nozzle (short)
R6E 310-AI04 -01	3.3	104.0	123.0	70.0	31050-2-4013	31051-2-4013
R6E 310-AJ04 -01	3.4	139.0	154.0	101.0	31050-2-4013	31051-2-4013

Inlet nozzle (long)



AC centrifugal fans

backward curved, 3-D, Ø 355

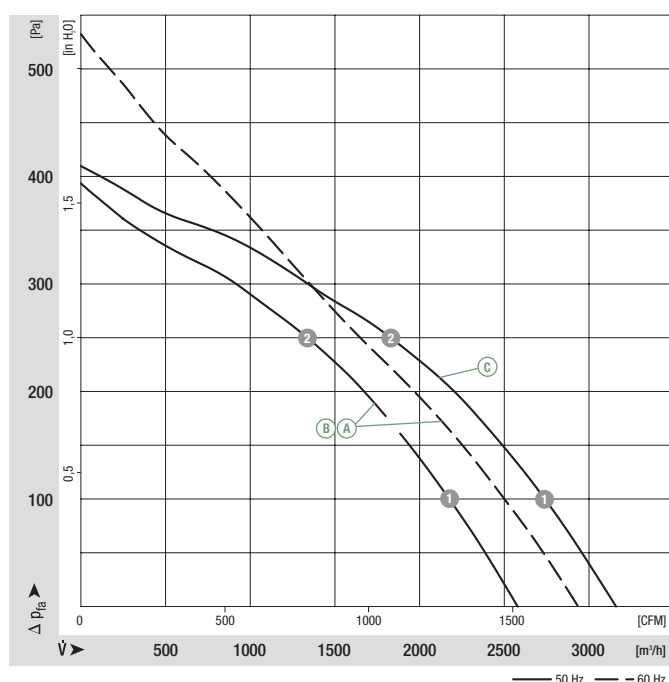


- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R4D 355	M4D 074-EI	A	3~ 400 Y	50	2580	1400	170	0.52	—	65	-25 to +70	D2)
			3~ 400 Y	60	2930	1600	235	0.50	—	69	-25 to +65	
R4E 355	M4E 074-EI	B	1~ 230	50	2580	1400	180	0.80	6.0/450	66	-25 to +60	A1)
			1~ 230	60	2940	1600	260	1.14	6.0/450	69	-25 to +35	
R4E 355	M4E 074-GA	C	1~ 230	50	3160	1420	245	1.12	8.0/400	66	-25 to +50	A1)

subject to alterations

Curves (established with long inlet nozzle)



		n [rpm]	P ₁ [W]	I [A]
A	1	1375	205	0.63
A	2	1360	227	0.70
B	1	1350	209	0.93
B	2	1330	229	1.02
C	1	1395	273	1.25
C	2	1375	295	1.35

- **Motor protection:** Ⓐ design with thermal overload protector, Ⓑ Ⓒ TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC

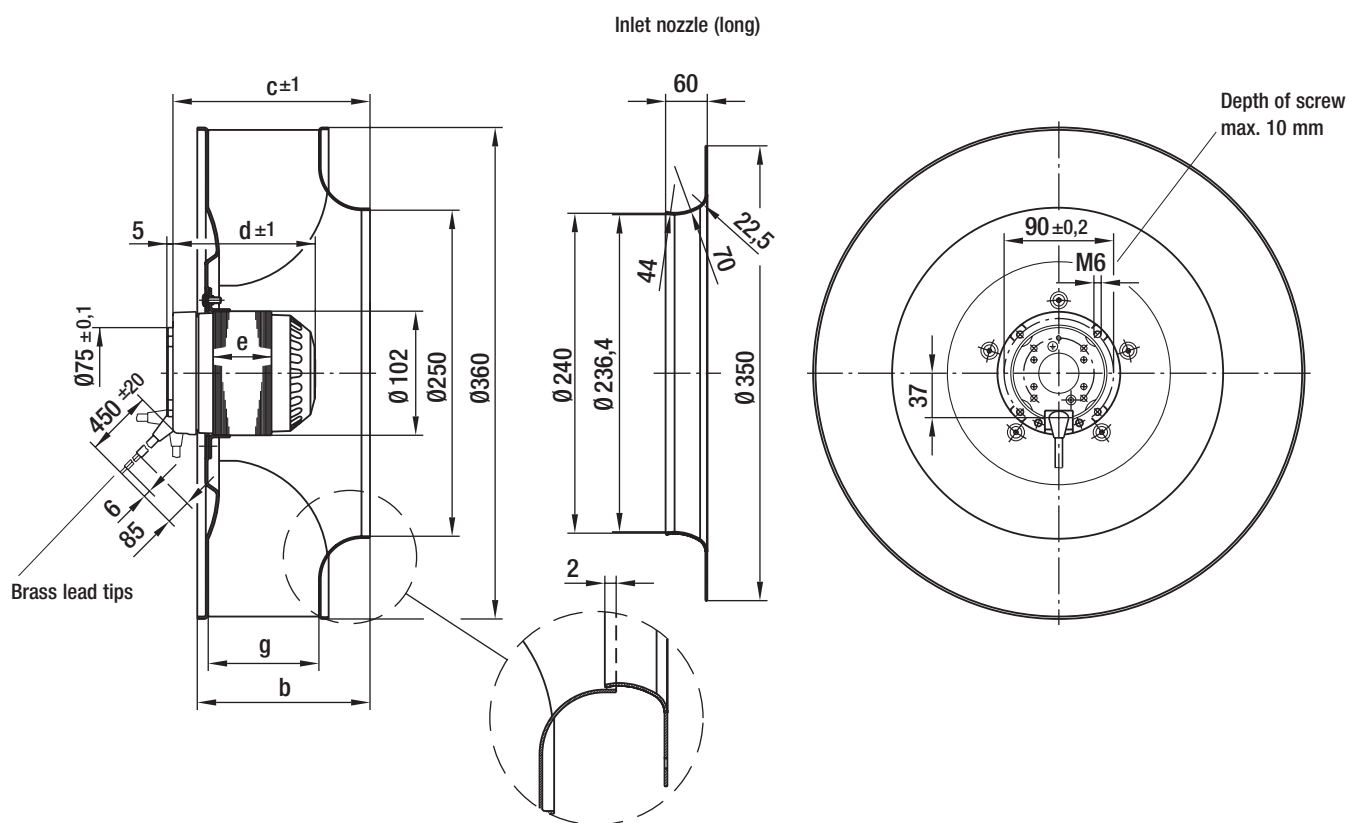


Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	b	c	d	e	g	Inlet nozzle (long)	Inlet nozzle (short)
R4D 355-AH11 -05	4.7	146.5	167.0	117.0	48.0	96.0	35560-2-4013	35561-2-4013
R4E 355-AK05 -05	4.7	146.5	167.0	117.0	48.0	96.0	35560-2-4013	35561-2-4013
R4E 355-AL02 -05	5.3	171.0	190.0	129.0	60.0	120.5	35560-2-4013	35561-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 355

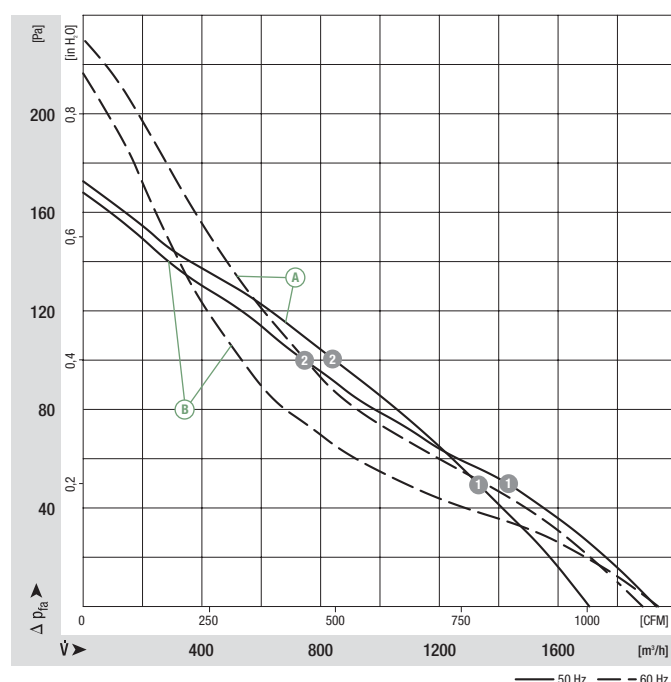


- **Material:** Impeller: Sheet aluminium, laser-welded
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharges:** Rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R6E 355	M6E 074-DF	A	1~ 230	50	1700	910	65	0.29	2.0/400	54	-25 to +90	A1)
			1~ 230	60	1890	1000	85	0.37	2.0/400	57	-25 to +75	
R6E 355	M6E 074-DF	B	1~ 230	50	1930	870	70	0.31	2.0/400	52	-25 to +85	A1)
			1~ 230	60	1940	890	90	0.40	2.0/400	53	-25 to +60	

subject to alterations

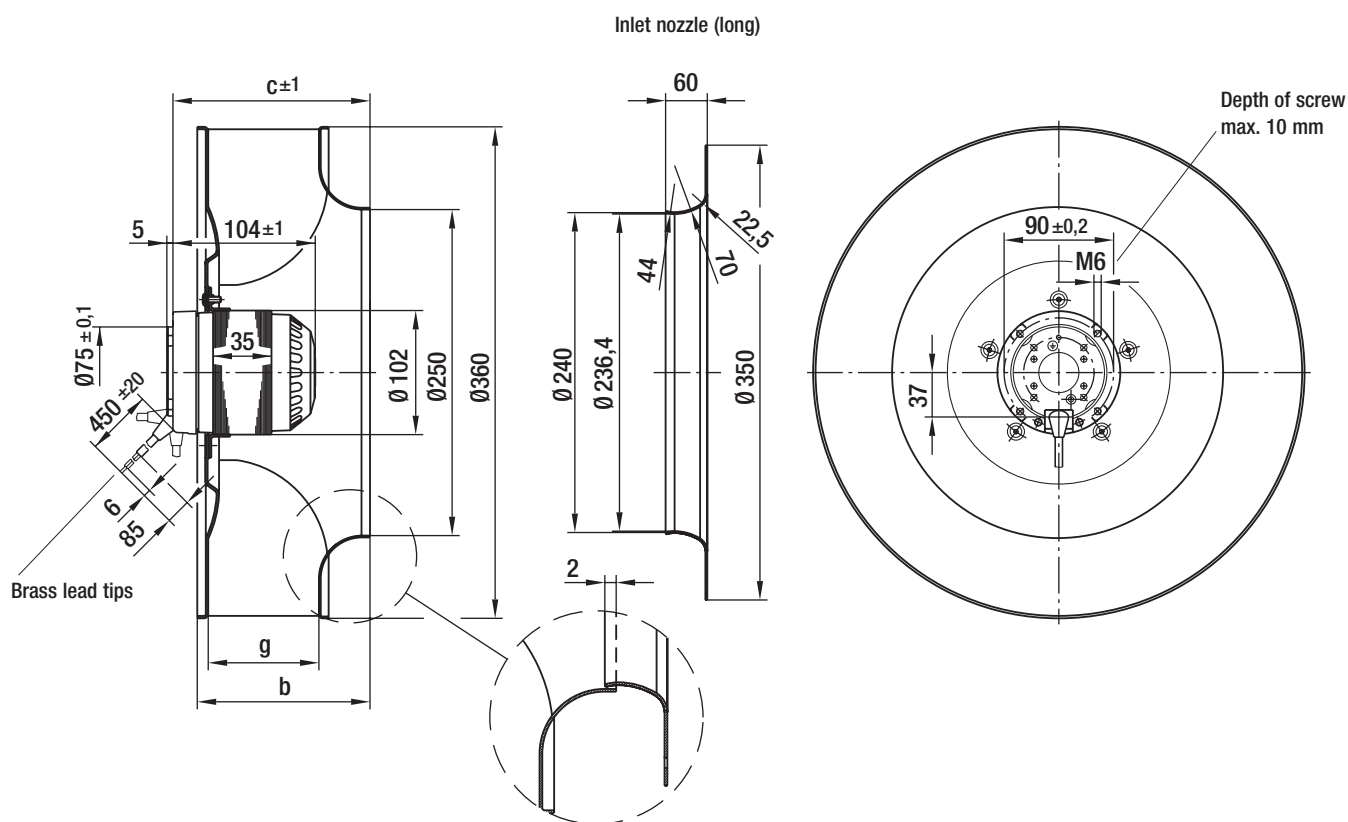
Curves (established with long inlet nozzle)



	n	P ₁	I
	[rpm]	[W]	[A]
A 1	860	71	0.32
A 2	850	73	0.33
B 1	785	80	0.35
B 2	805	78	0.34

- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** GOST

Centrifugal fan	kg	Dimensions			Inlet nozzle (long)	Inlet nozzle (short)
		b	c	g		
R6E 355-AD16 -05	3.5	146.5	167.0	96.0	35560-2-4013	35561-2-4013
R6E 355-AE16 -05	4.1	171.0	190.0	120.5	35560-2-4013	35561-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 400

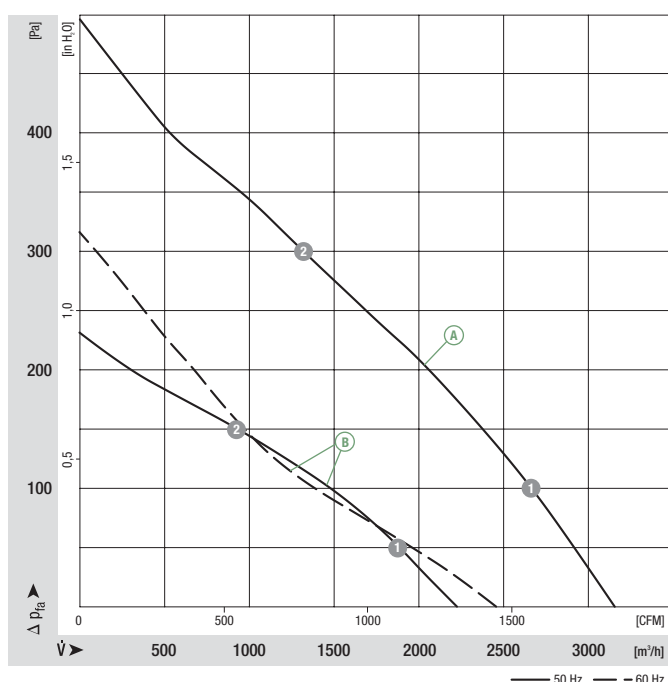


- **Material:** Impeller: Sheet aluminium, joined by tabs
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 44
- **Insulation class:** (A) "F", (B) "B"
- **Mounting position:** (A) any, (B) shaft horizontal or rotor on bottom; rotor on top on request
- **Condensate discharge holes:** (A) none, (B) rotor-side
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Air flow	Speed/rpm	Power input	Current draw	Capacitor	Sound pressure level	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	m³/h	rpm	W	A	µF/VDB	dB(A)	°C	p. 596 f.
R4E 400	M4E 074-EI	(A)	1~ 230	50	3150	1300	270	1.20	8.0/400	68	-25 to +45	A1)
R6E 400	M6E 074-EI	(B)	1~ 230	50	2225	910	117	0.52	3.0/450	62	-25 to +55	A1)
			1~ 230	60	2455	1000	160	0.70	3.0/450	64	-25 to +40	A1)

subject to alterations

Curves



	n [rpm]	P ₁ [W]	I [A]
(A) 1	1240	292	1.30
(A) 2	1250	287	1.27
(B) 1	880	125	0.56
(B) 2	880	125	0.56

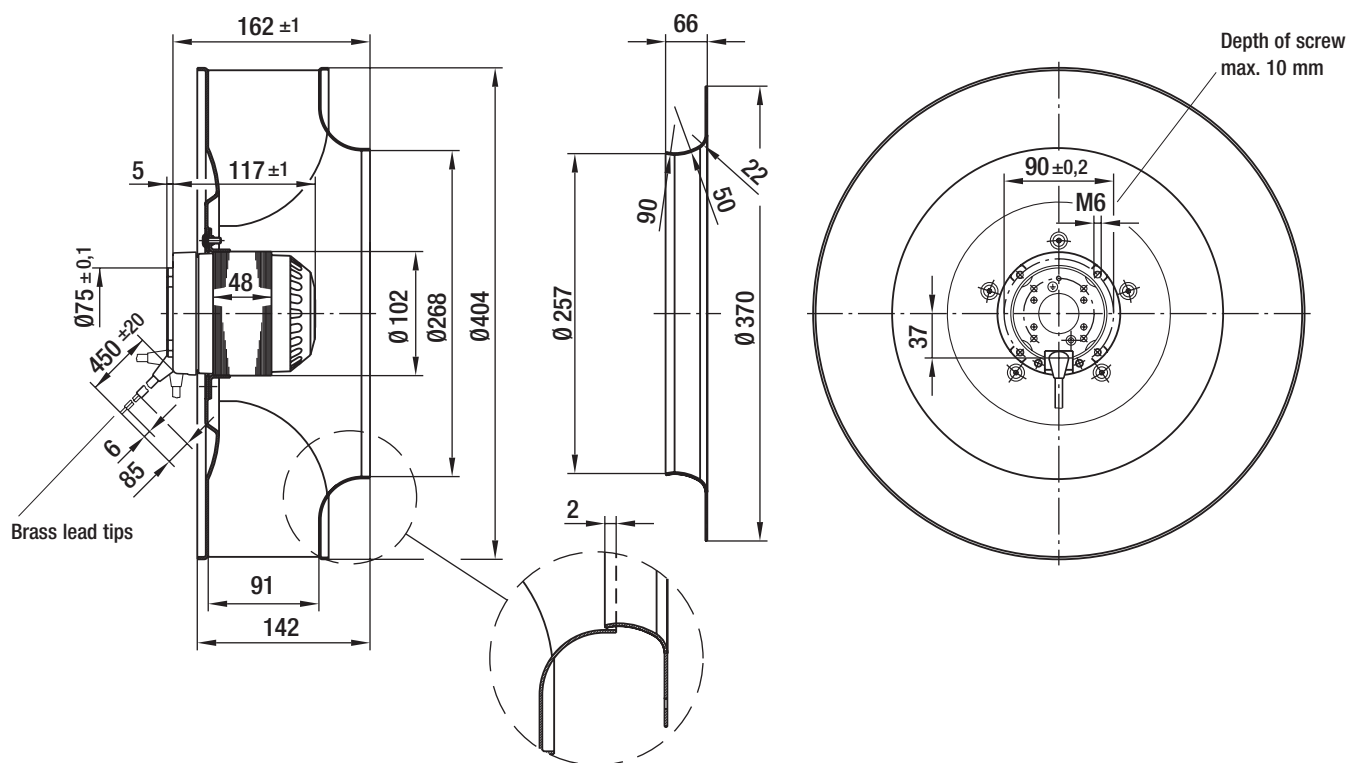
- **Motor protection:** TOP wired internally
- **Cable exit:** Variable
- **Protection class:** I
- **Product conforming to standards:** EN 60335-1, CE
- **Approvals:** CCC,  also GOST



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R4E 400-AB23 -05	5.2	54476-2-4013
R6E 400-AA04 -05	5.2	54476-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 400



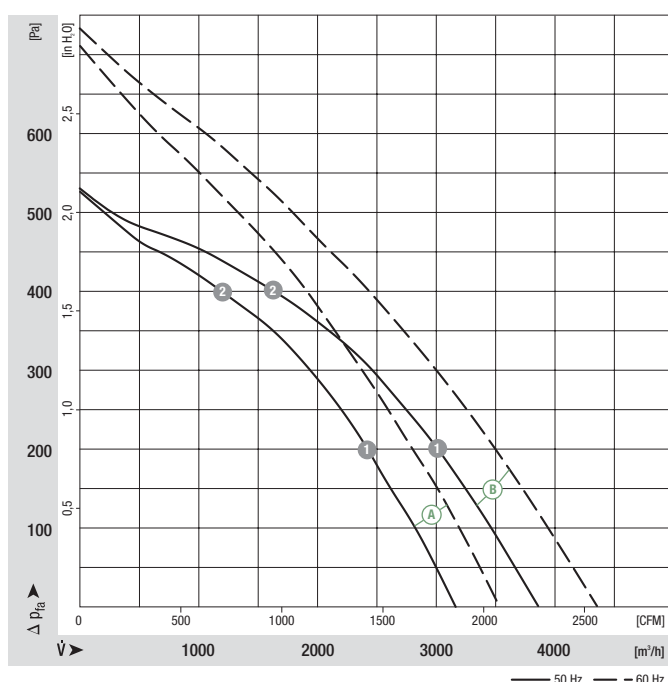
- **Material:** Impeller: Sheet aluminium, joined by tabs
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	°C	p. 596 f.
R4E 400	M4E 094-FA	A	1~ 230	50	1355	375	1.75	8.0/400	-40 to +60	A2a)
			1~ 230	60	1480	540	2.40	8.0/400	-40 to +50	
R4E 400	M4E 094-HA	B	1~ 230	50	1370	480	2.40	10.0/450	-40 to +80	A2a)
			1~ 230	60	1460	700	3.15	10.0/450	-40 to +55	

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



	n	P ₁	I	Lp _A
	[rpm]	[W]	[A]	[dB(A)]
A 1	1350	370	1.75	64
A 2	1380	331	1.58	65
B 1	1370	469	2.37	66
B 2	1390	430	2.17	68

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE

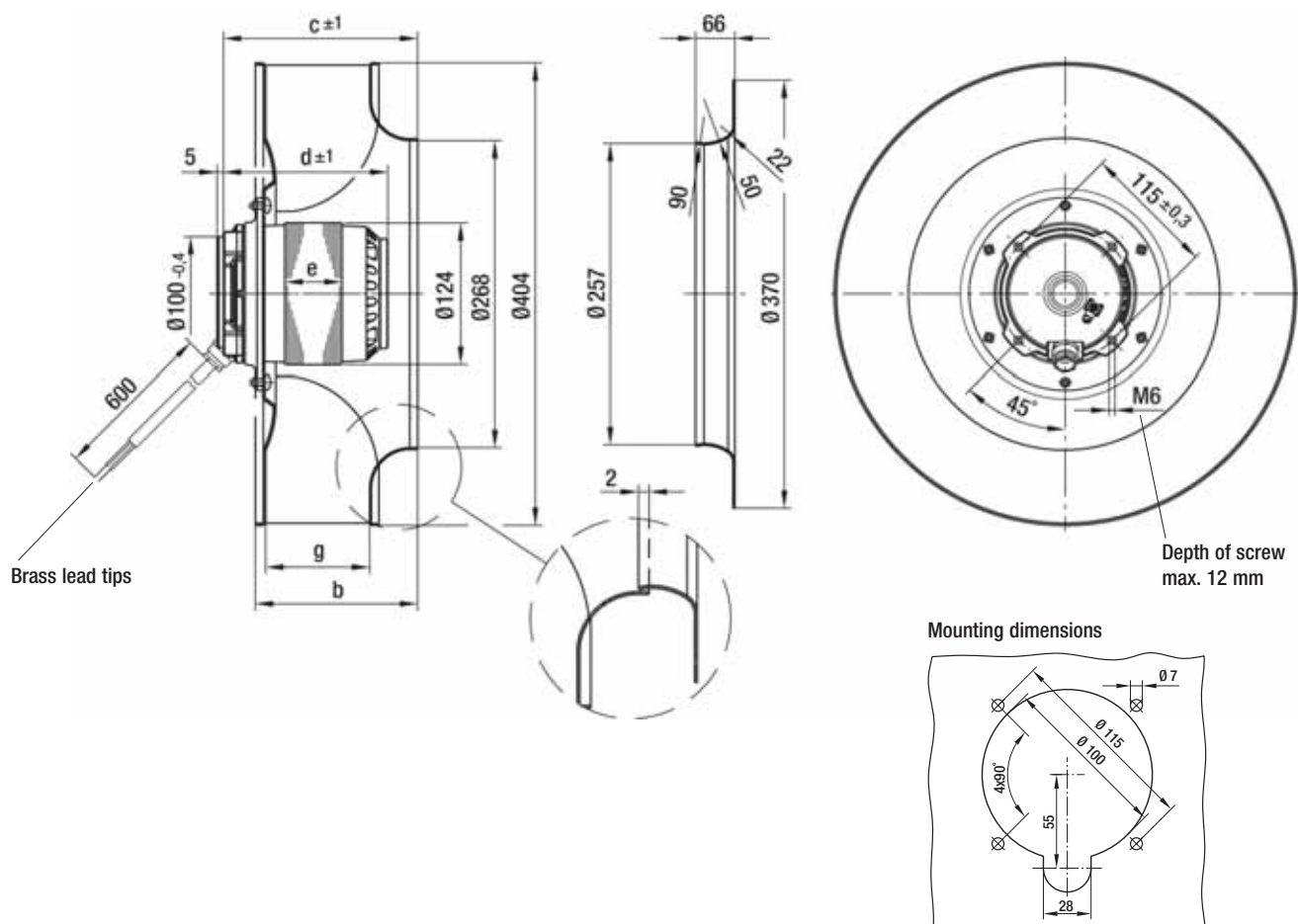


Mass of centrifugal fan

Dimensions



Centrifugal fan	kg	b	c	d	e	g	Inlet nozzle (long)
R4E 400-AR05 -06	7.1	141.0	172.0	128.0	50.0	90.0	54476-2-4013
R4E 400-AP17 -06	8.8	164.0	193.0	148.0	70.0	113.0	54476-2-4013



AC centrifugal fans

backward curved, Ø 400



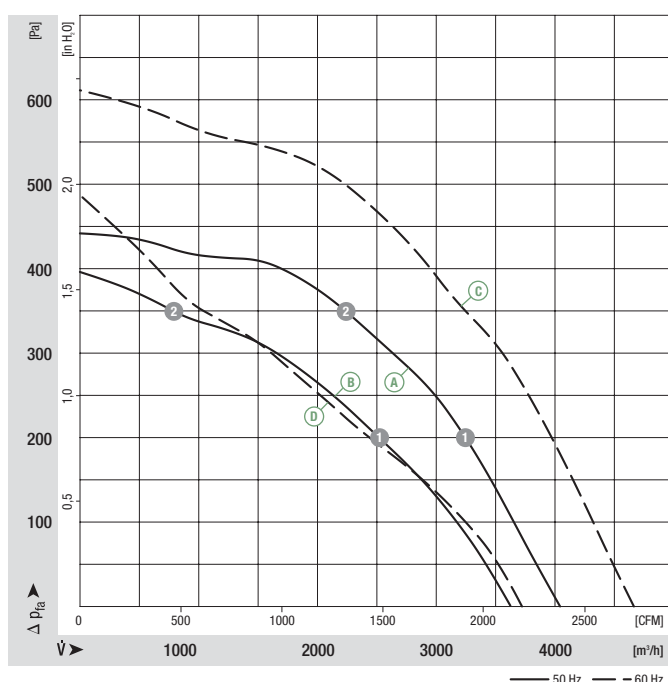
- **Material:** Impeller: Sheet aluminium, riveted
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	°C	p. 596 f.
R4D 400	M4D 094-HA	(A)	3~ 400 Δ	50	1415	515	1.41	—	-40 to +60	F1a)/F2a)
		(B)	3~ 400 Y	50	1235	385	0.70	—	-40 to +80	
		(C)	3~ 400 Δ	60	1610	750	1.44	—	-40 to +60	
		(D)	3~ 400 Y	60	1220	515	0.93	—	-40 to +40	

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



		n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
(A)	1	1415	490	1.40	63
(A)	2	1415	500	1.41	65
(B)	1	1240	380	0.67	70
(B)	2	1320	281	0.52	66

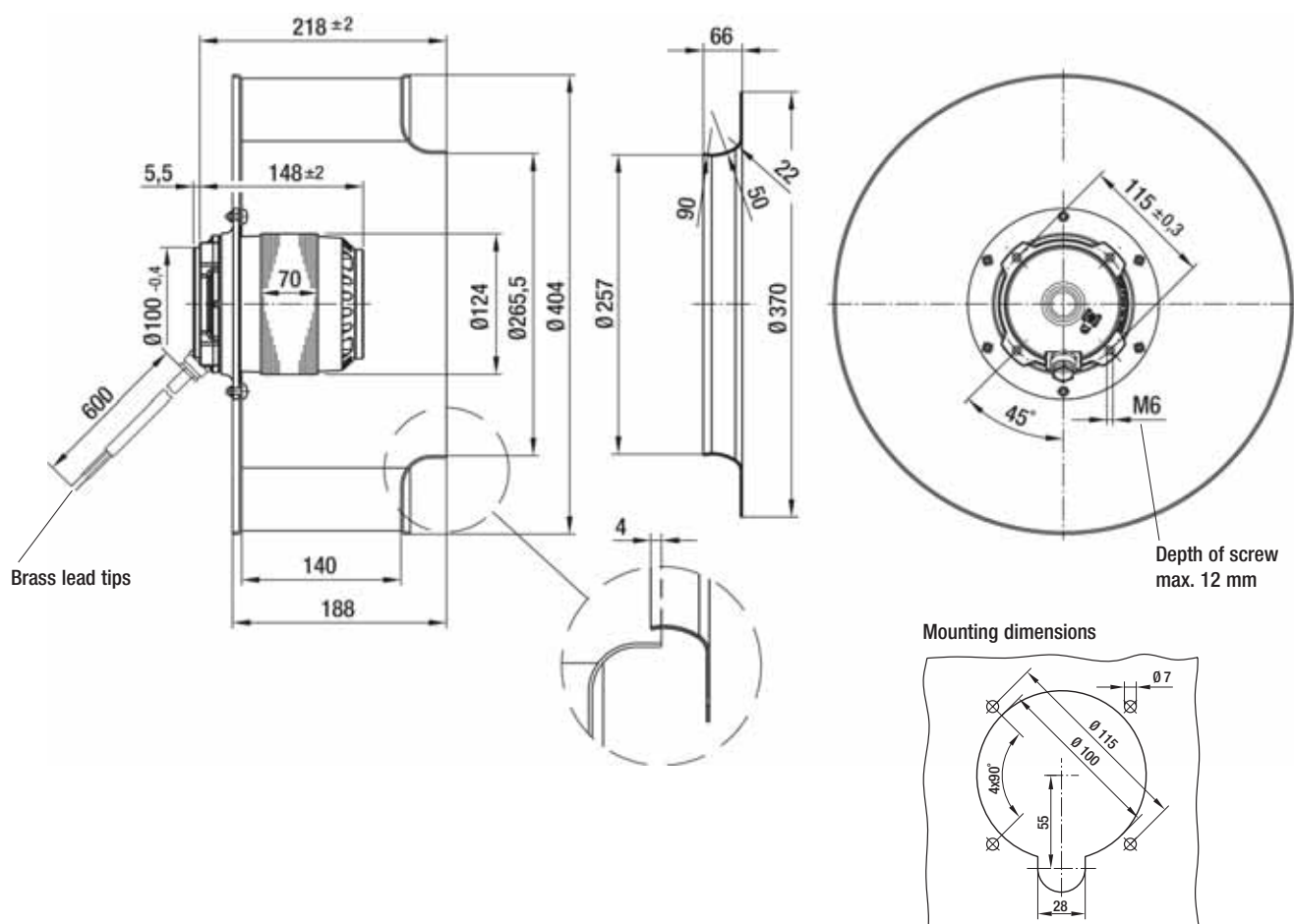
- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE



Mass of centrifugal fan



Centrifugal fan	kg	Inlet nozzle (long)
R4D 400-AD22 -06	8.7	54476-2-4013



AC centrifugal fans

backward curved, Ø 400

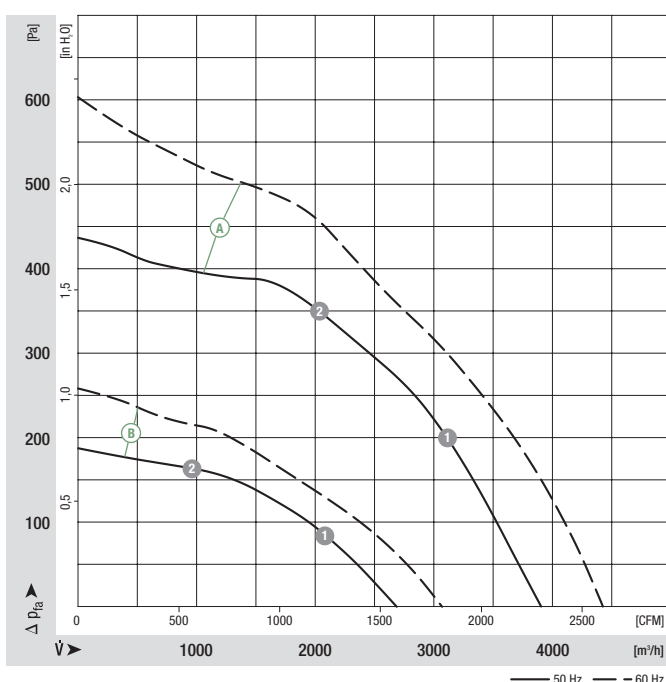


- **Material:** Impeller: Sheet aluminium, riveted
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	°C	p. 596 f.
R4E 400	M4E 094-HA	A	1~ 230	50	1370	480	2.40	10.0/400	-40 to +70	A2a)
			1~ 230	60	1500	695	3.18	10.0/450	-40 to +55	
R6E 400	M6E 094-FA	B	1~ 230	50	895	155	0.68	5.0/450	-40 to +95	A2a)
			1~ 230	60	990	220	0.97	5.0/450	-40 to +85	

subject to alterations (1) Nominal data in operating point with maximum load

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
A 1	1380	464	2.36	68
A 2	1380	462	2.36	65
B 1	900	149	0.65	56
B 2	910	143	0.65	54

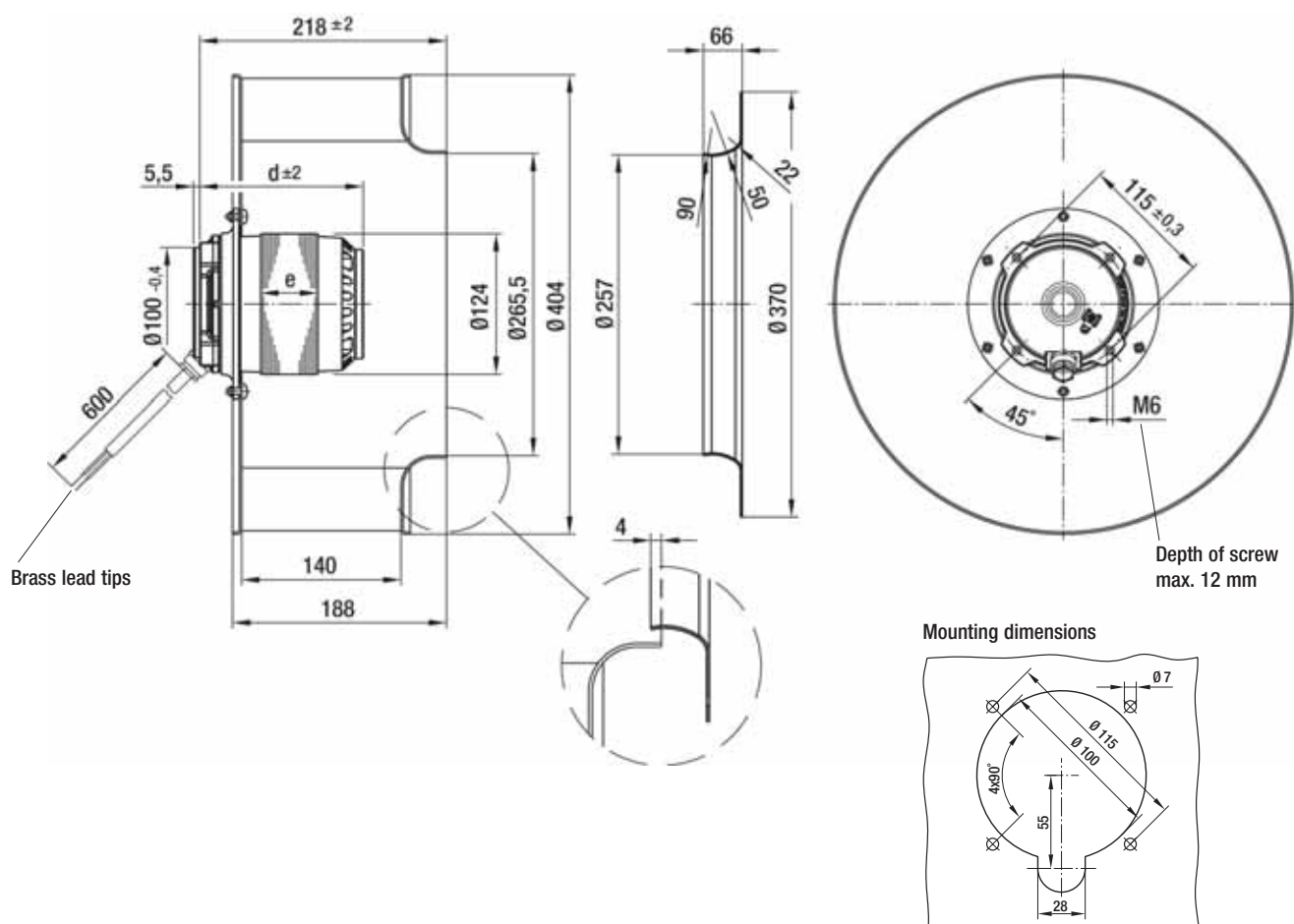
- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE

Mass of
centrifugal fan

Dimensions



Centrifugal fan	kg	d	e	Inlet nozzle (long)
R4E 400-AN09 -06	8.7	148.0	70.0	54476-2-4013
R6E 400-AK06 -06	8.7	128.0	50.0	54476-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 450



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

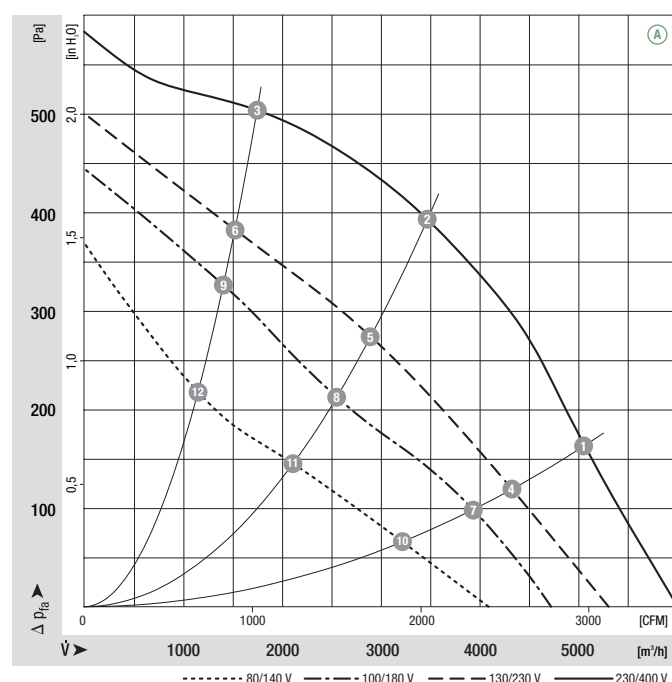
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	kW	A	µF/VDB	°C	p. 596 f.	
R4D 450 ⁽²⁾	M4D 110-GF	Ⓐ 3~	230/400	50	1350	0.74	2.60/1.50	—	-40 to +80	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



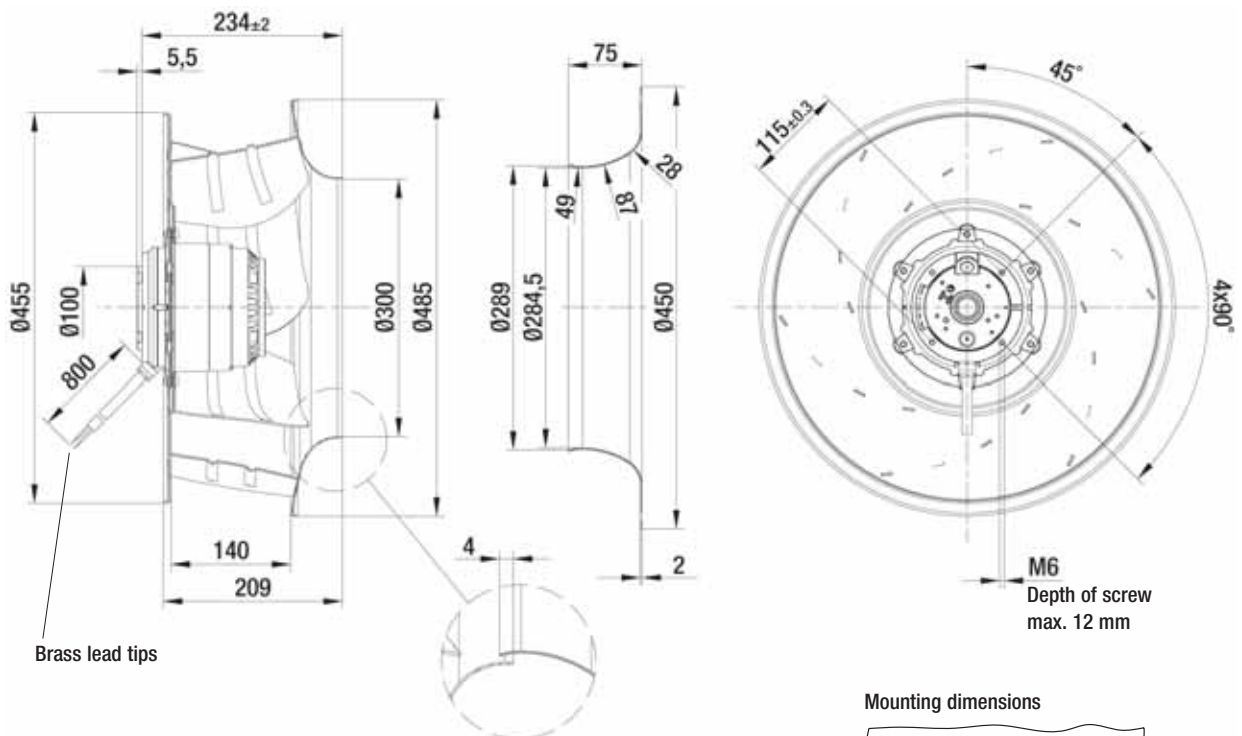
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1370	0.65	2.35/1.35	75
Ⓐ 2	1350	0.73	2.50/1.45	70
Ⓐ 3	1380	0.61	2.25/1.30	76
Ⓐ 4	1155	0.47	2.40/1.40	70
Ⓐ 5	1115	0.51	2.60/1.50	65
Ⓐ 6	1180	0.45	2.25/1.30	72
Ⓐ 7	1055	0.37	2.45/1.40	68
Ⓐ 8	955	0.38	2.60/1.50	61
Ⓐ 9	1100	0.32	2.25/1.30	70
Ⓐ 10	830	0.26	2.25/1.30	61
Ⓐ 11	780	0.27	2.25/1.30	56
Ⓐ 12	850	0.25	2.15/1.25	63

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)

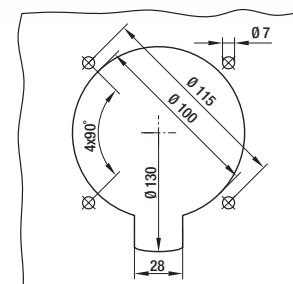


Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R4D 450-AK01 -01	12.5	63045-2-4013



Mounting dimensions



AC centrifugal fans

backward curved, 3-D, Ø 450



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

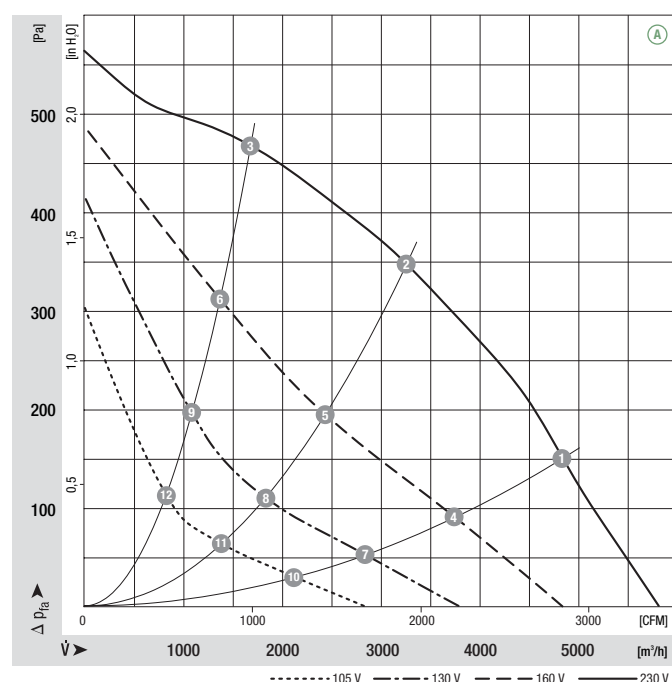
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4E 450	M4E 110-GF	Ⓐ	1~ 230	50	1250	0.68	3.00	14.0/400	-40 to +70	A2a)

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



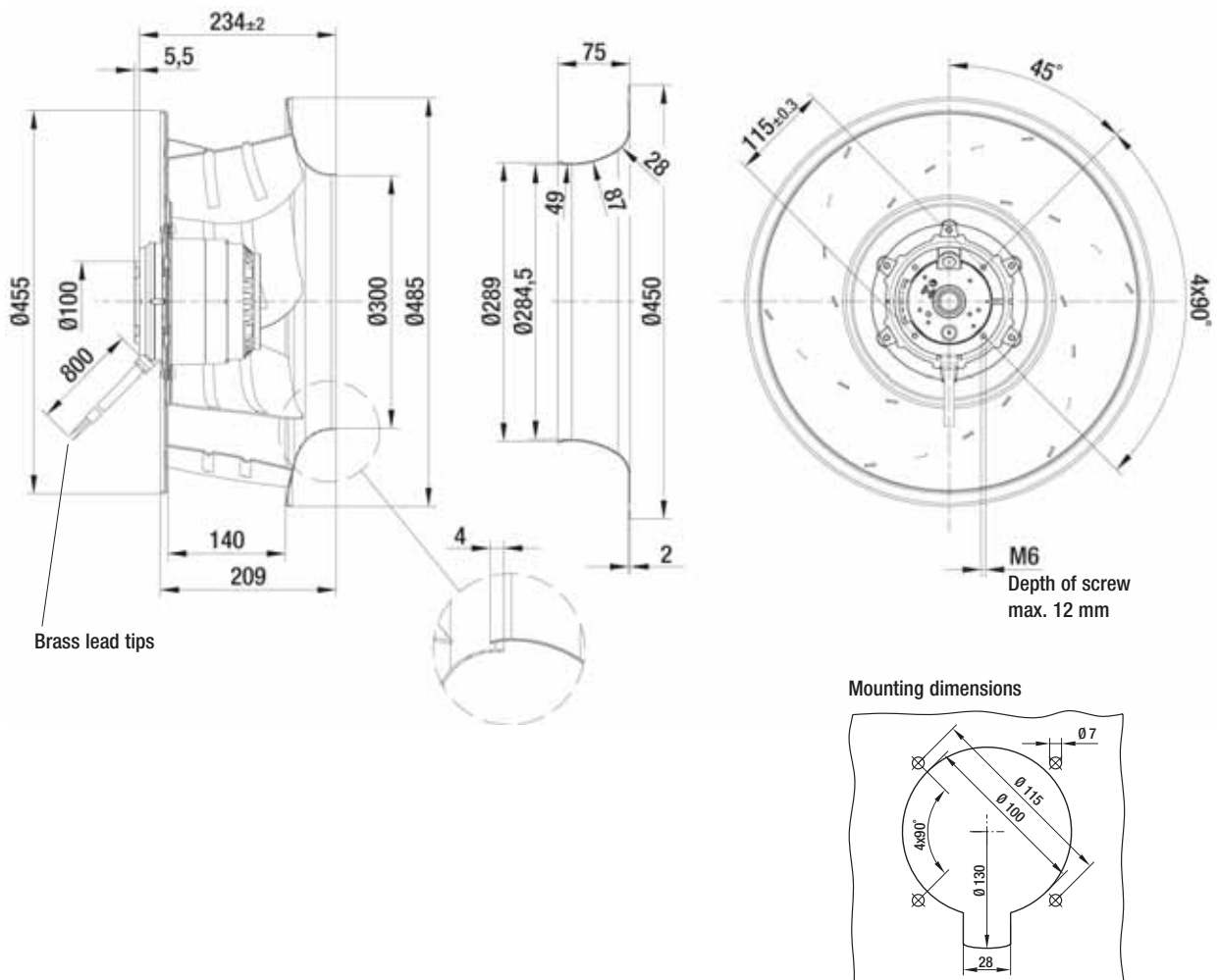
	n [rpm]	P ₁ [kW]	I [A]	L _{WA} [dB(A)]
Ⓐ 1	1300	0.65	2.80	74
Ⓐ 2	1265	0.68	3.00	69
Ⓐ 3	1320	0.62	2.68	75
Ⓐ 4	970	0.43	2.80	65
Ⓐ 5	900	0.43	2.90	60
Ⓐ 6	1040	0.41	2.71	69
Ⓐ 7	720	0.29	2.40	61
Ⓐ 8	670	0.29	2.49	53
Ⓐ 9	790	0.29	2.41	62
Ⓐ 10	545	0.19	2.00	50
Ⓐ 11	510	0.19	2.00	47
Ⓐ 12	580	0.19	2.00	54

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R4E 450-AK01 -01	12.5	63045-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 450



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

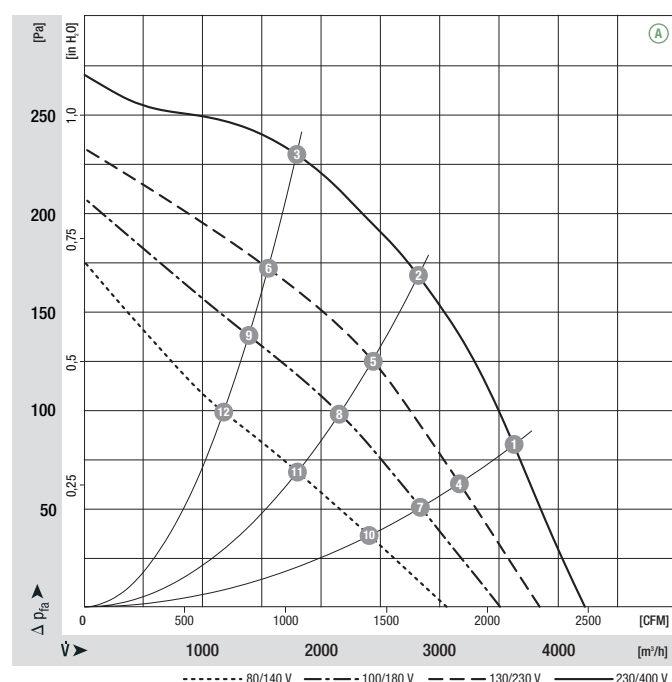
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	µF/VDB	°C	p. 596 f.
R6D 450 ⁽²⁾	M6D 110-EF	Ⓐ	3~ 230/400	50	930	0.29	1.30/0.75	—	-40 to +85	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	950	0.25	1.12/0.65	66
Ⓐ 2	940	0.28	1.15/0.66	63
Ⓐ 3	950	0.26	1.12/0.65	65
Ⓐ 4	830	0.18	0.92/0.53	61
Ⓐ 5	805	0.20	1.00/0.58	58
Ⓐ 6	825	0.18	0.94/0.54	60
Ⓐ 7	735	0.15	0.94/0.54	58
Ⓐ 8	705	0.16	1.01/0.58	54
Ⓐ 9	730	0.15	0.95/0.55	58
Ⓐ 10	615	0.11	0.90/0.52	52
Ⓐ 11	580	0.11	0.94/0.54	48
Ⓐ 12	610	0.11	0.90/0.52	52

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan



Centrifugal fan

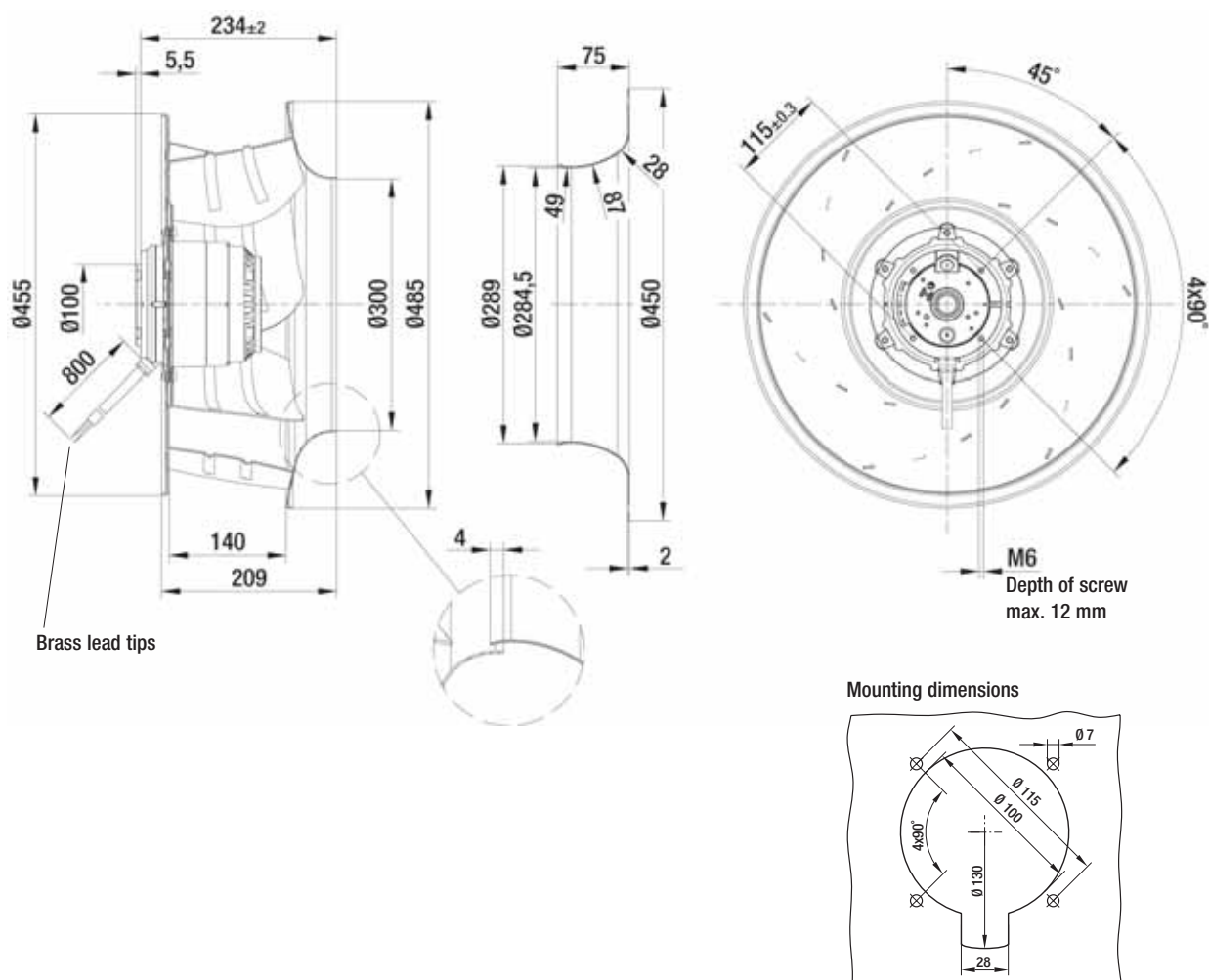
kg

Inlet nozzle (long)

R6D 450-AN01 -01

10.0

63045-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 450



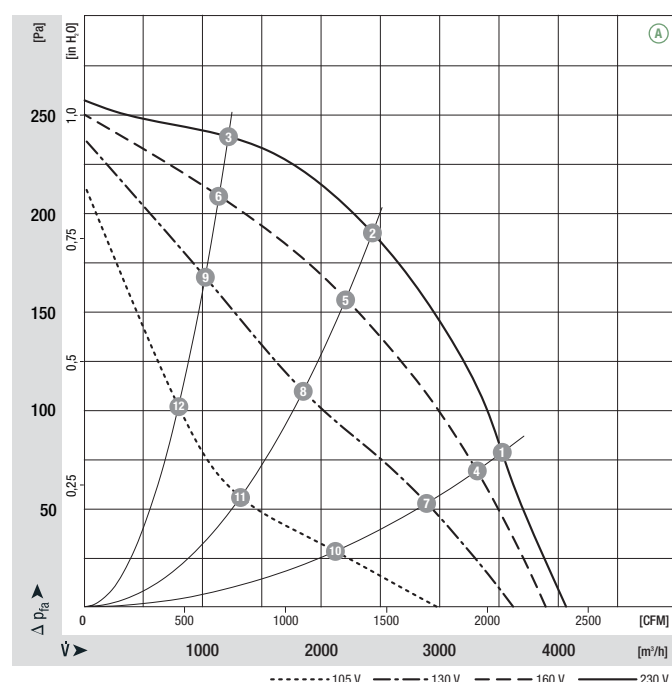
- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	µF/VDB	°C	p. 596 f.
R6E 450	M6E 110-EF	Ⓐ	1~ 230	50	930	0.30	1.42	8.0/450	-40 to +70	A2a)

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



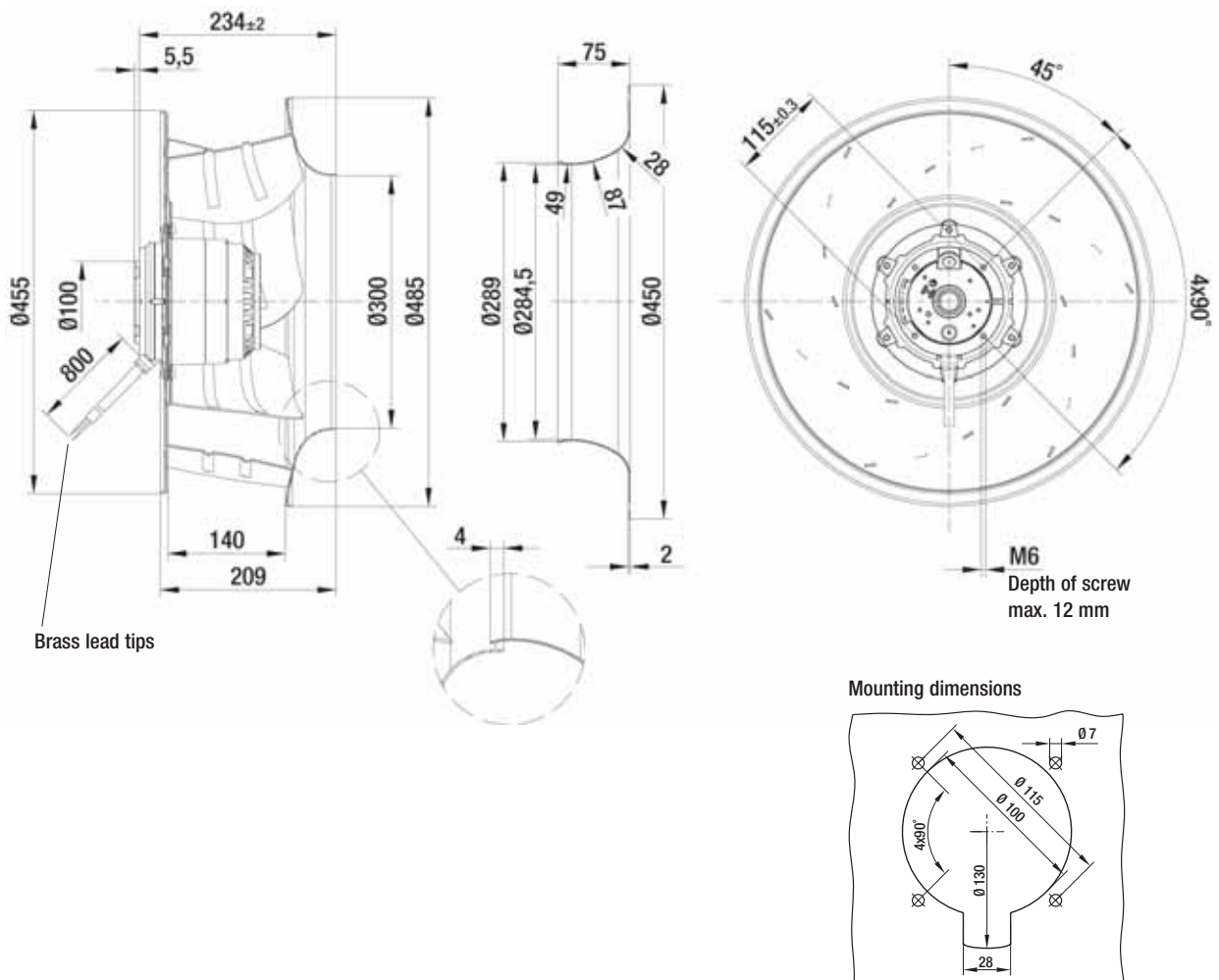
	n [rpm]	P ₁ [kW]	I [A]	L _{W,A} [dB(A)]
Ⓐ 1	945	0.27	1.30	65
Ⓐ 2	935	0.29	1.38	61
Ⓐ 3	945	0.27	1.28	67
Ⓐ 4	865	0.21	1.30	62
Ⓐ 5	840	0.22	1.40	59
Ⓐ 6	880	0.19	1.20	64
Ⓐ 7	740	0.17	1.41	58
Ⓐ 8	665	0.18	1.50	53
Ⓐ 9	775	0.16	1.39	61
Ⓐ 10	520	0.12	1.30	48
Ⓐ 11	465	0.12	1.38	44
Ⓐ 12	565	0.12	1.30	52

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R6E 450-AN01 -01	10.0	63045-2-4013



AC centrifugal fans

backward curved, Ø 450

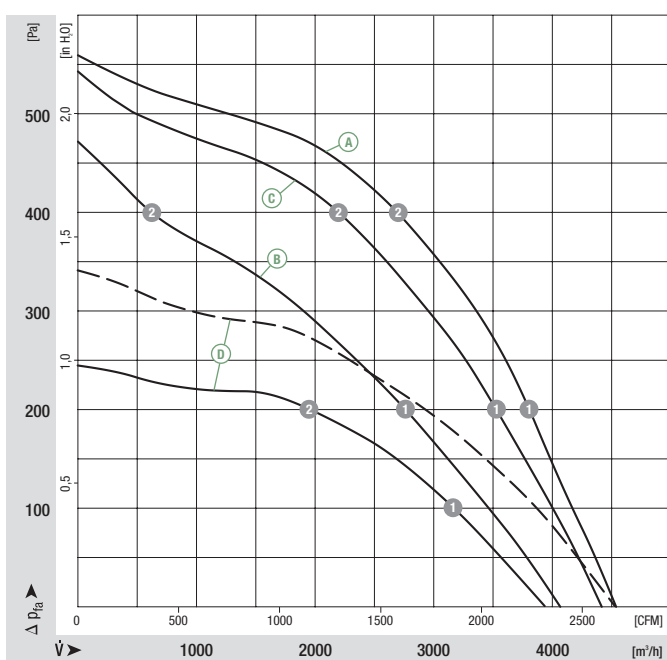


- **Material:** Impeller: Sheet aluminium, riveted
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	°C	p. 596 f.
R4D 450	M4D 094-HA	(A)	3~ 400 Δ	50	1380	665	1.55	—	-40 to +50	F1a)/F2a)
		(B)	3~ 400 Y	50	1130	470	0.82	—	-40 to +55	
R4E 450	M4E 094-HA	(C)	1~ 230	50	1290	640	3.10	10.0/400	-40 to +50	A2a)
R6E 450	M6E 094-HA	(D)	1~ 230	50	905	320	1.56	10.0/400	-40 to +40	A2a)
			1~ 230	60	1010	425	1.86	10.0/450	-40 to +55	

subject to alterations (1) Nominal data in operating point with maximum load

Curves



		n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
(A)	1	1390	610	1.52	70
(A)	2	1380	650	1.53	69
(B)	1	1130	470	0.82	64
(B)	2	1260	350	0.65	68
(C)	1	1310	602	2.97	69
(C)	2	1310	596	2.92	68
(D)	1	910	305	1.50	61
(D)	2	905	310	1.53	58

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE

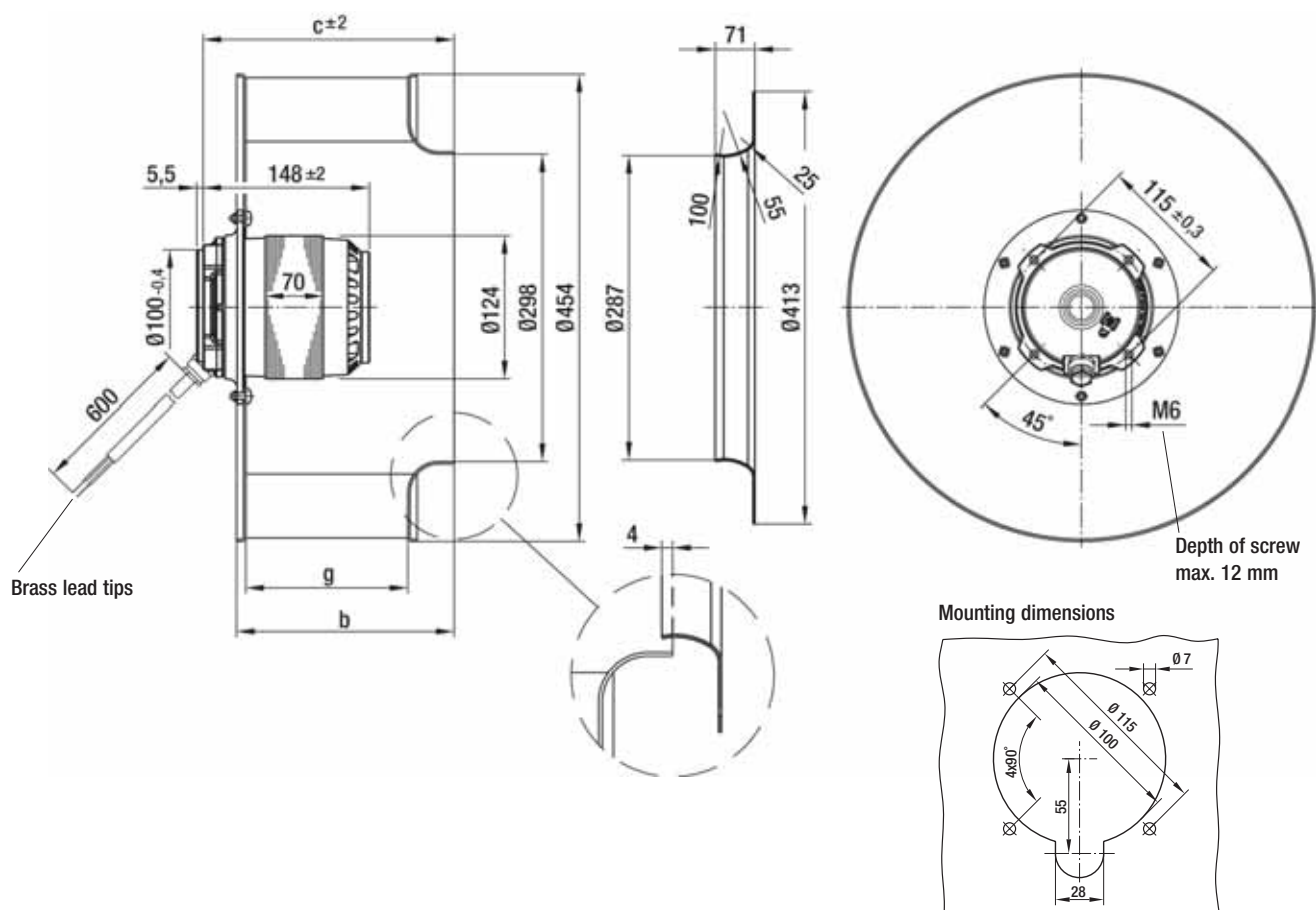


Mass of centrifugal fan



Dimensions

Centrifugal fan	kg	b	c	g	Inlet nozzle (long)
R4D 450-AD22 -06	9.3	175.0	204.0	120.0	54478-2-4013
R4E 450-AB09 -06	9.3	175.0	204.0	120.0	54478-2-4013
R6E 450-AB06 -06	9.6	215.0	244.0	160.0	54478-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 500



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

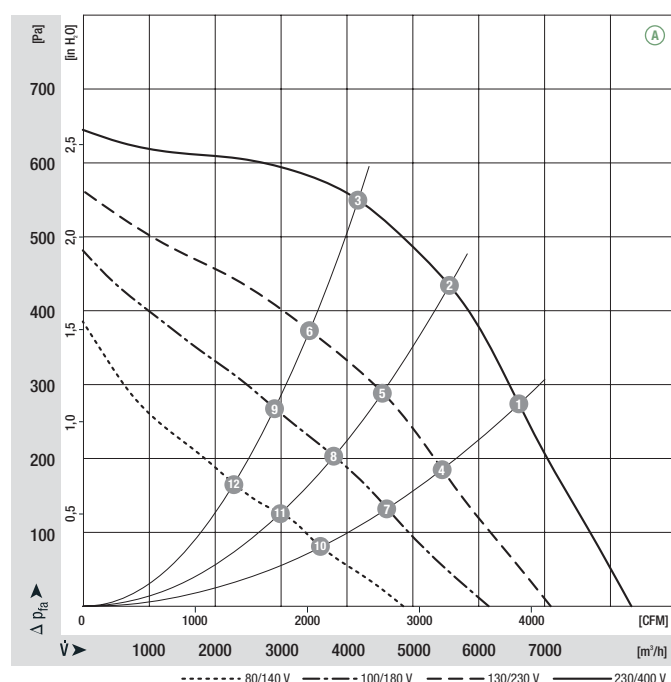
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4D 500⁽²⁾	M4D 138-HF	Ⓐ	3~ 230/400	50	1375	1.43	5.20/3.00	—	-40 to +80	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1380	1.36	4.99/2.88	81
Ⓐ 2	1375	1.42	5.13/2.96	79
Ⓐ 3	1375	1.43	5.20/3.00	77
Ⓐ 4	1150	0.97	5.25/3.03	76
Ⓐ 5	1125	1.00	5.42/3.13	74
Ⓐ 6	1140	0.97	5.28/3.05	73
Ⓐ 7	970	0.73	5.18/2.99	71
Ⓐ 8	945	0.74	5.30/3.06	69
Ⓐ 9	970	0.73	5.16/2.98	68
Ⓐ 10	775	0.49	4.66/2.69	64
Ⓐ 11	755	0.49	4.73/2.73	63
Ⓐ 12	775	0.49	4.68/2.70	62

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of
centrifugal fan



Centrifugal fan

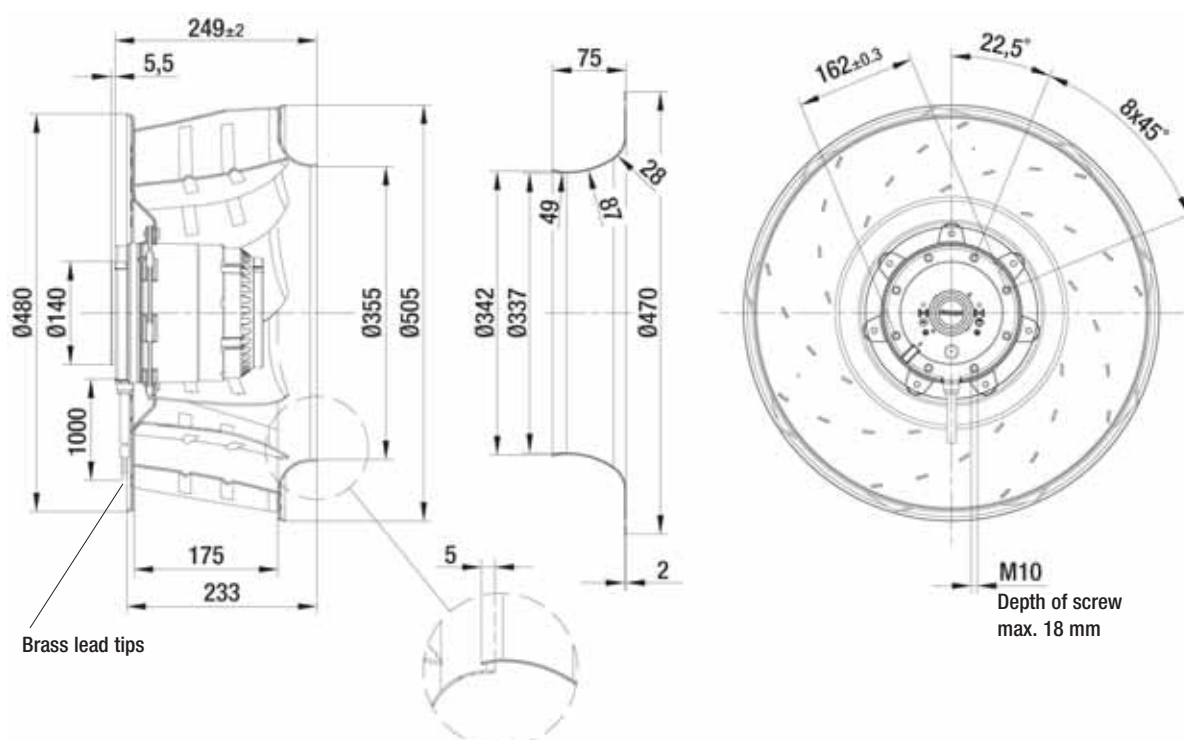
kg

Inlet nozzle
(long)

R4D 500-AT03 -01

26.0

63072-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 500



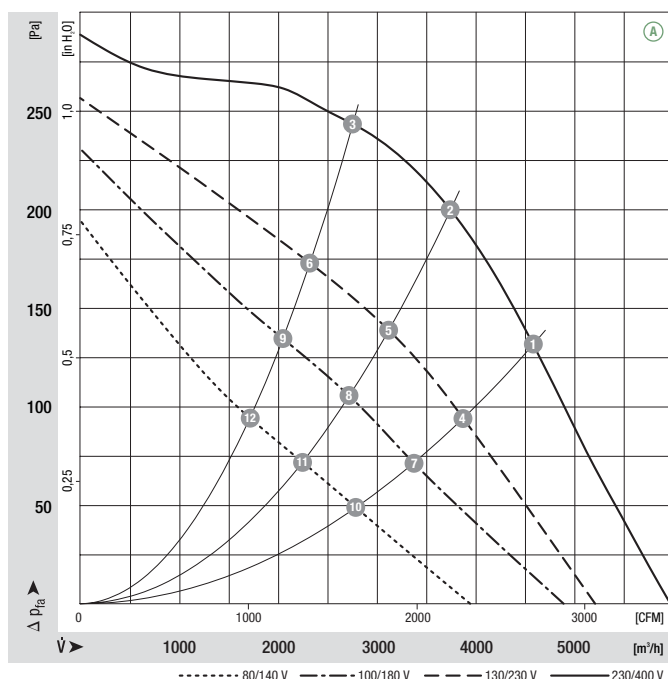
- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R6D 500⁽²⁾	M6D 110-GF	Ⓐ	3~ 230/400	50	910	0.48	1.90/1.10	—	-40 to +80	D1)/D2)

subject to alterations (1) Nominal data in operating point with maximum load (2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	915	0.45	1.73/1.00	68
Ⓐ 2	910	0.47	1.77/1.02	65
Ⓐ 3	915	0.44	1.69/0.98	66
Ⓐ 4	760	0.31	1.66/0.96	62
Ⓐ 5	745	0.32	1.72/1.00	60
Ⓐ 6	770	0.30	1.60/0.93	61
Ⓐ 7	650	0.23	1.59/0.92	57
Ⓐ 8	630	0.24	1.64/0.95	55
Ⓐ 9	665	0.23	1.57/0.90	57
Ⓐ 10	530	0.16	1.43/0.82	52
Ⓐ 11	510	0.16	1.45/0.84	49
Ⓐ 12	545	0.16	1.41/0.81	52

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan



Centrifugal fan

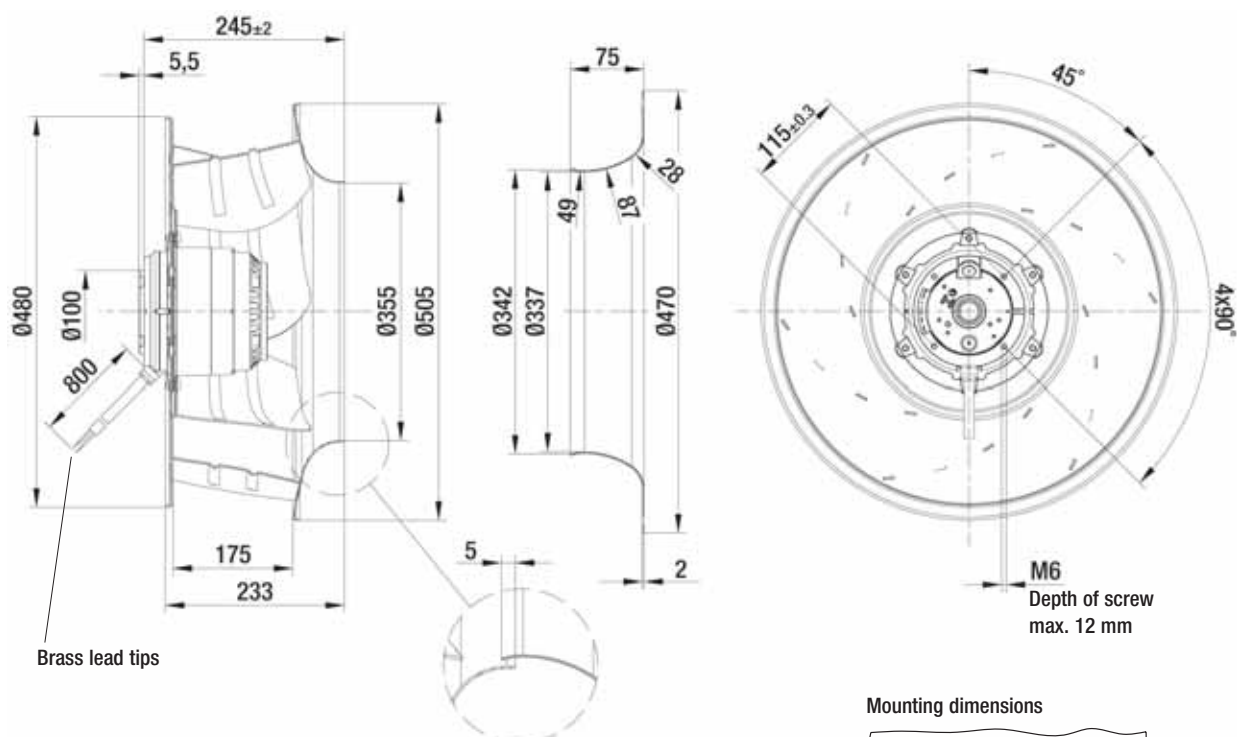
kg

Inlet nozzle (long)

R6D 500-AK03 -01

13.0

63072-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 500



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

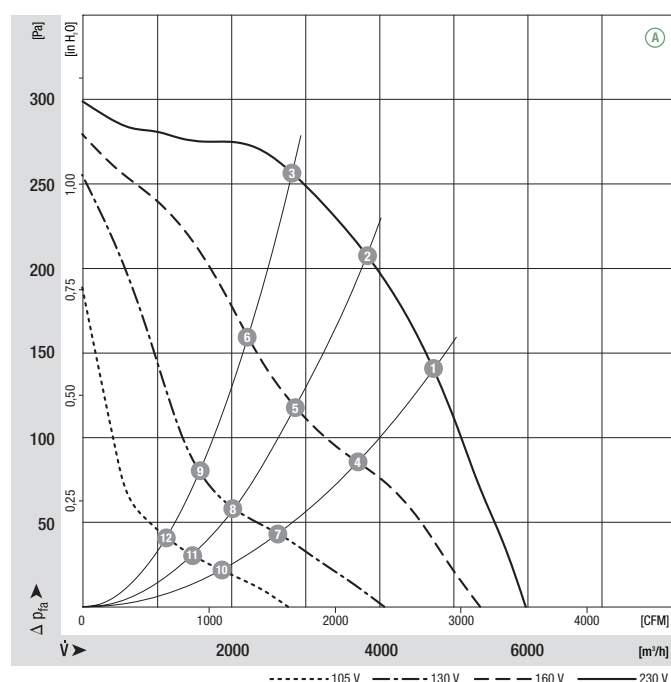
Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R6E 500	M6E 110-GF	Ⓐ	1~ 230	50	910	0.51	2.34	12.0/450	-40 to +60	A2a)

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



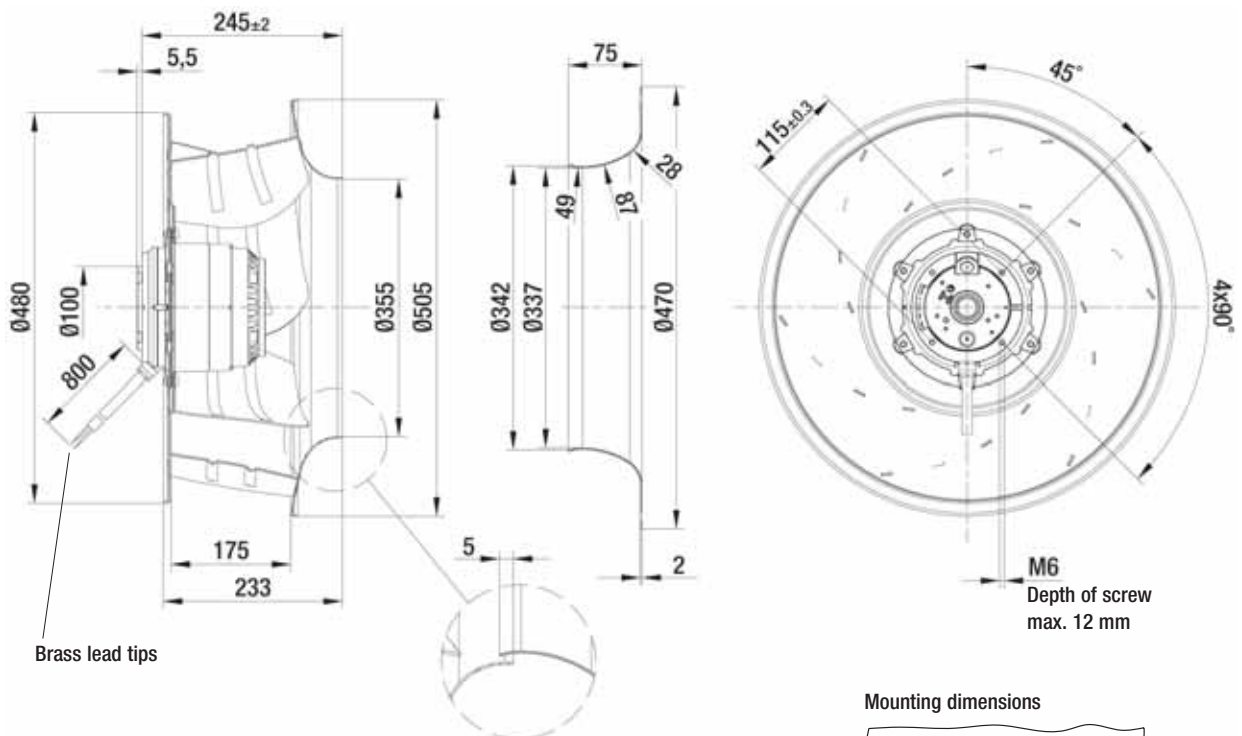
	n [rpm]	P ₁ [kW]	I [A]	L _{W,A} [dB(A)]
Ⓐ 1	915	0.49	2.24	70
Ⓐ 2	910	0.51	2.33	67
Ⓐ 3	915	0.48	2.22	68
Ⓐ 4	720	0.37	2.55	62
Ⓐ 5	690	0.38	2.64	60
Ⓐ 6	730	0.37	2.50	61
Ⓐ 7	515	0.27	2.35	52
Ⓐ 8	485	0.27	2.37	49
Ⓐ 9	510	0.27	2.34	52
Ⓐ 10	370	0.17	1.94	46
Ⓐ 11	355	0.17	1.94	44
Ⓐ 12	375	0.17	1.94	45

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



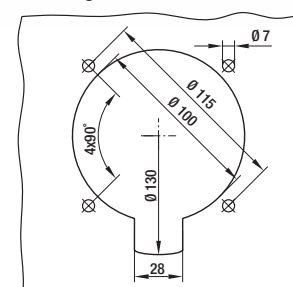
Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R6E 500-AK01 -01	13.0	63072-2-4013



Brass lead tips

Mounting dimensions



AC centrifugal fans

backward curved, Ø 500



- **Material:** Impeller: Sheet aluminium, riveted
Rotor: Coated in black
- **Number of blades:** 6
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

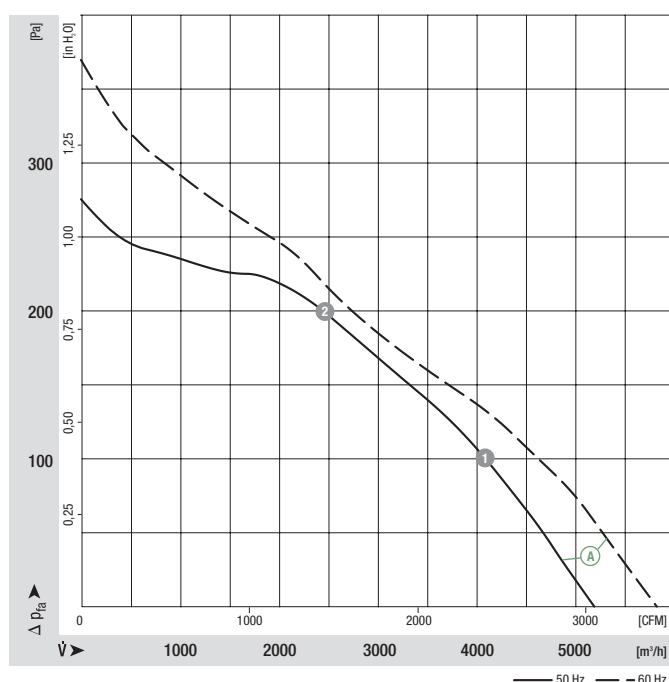
Nominal data

Type	Motor	Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Perm. amb. temp.	Electr. connection
			VAC	Hz	rpm	W	A	µF/VDB	°C	p. 596 f.
R6E 500	M6E 094-HA	Ⓐ	1~ 230 1~ 230	50 60	820 850	385 475	1.82 2.10	10.0/400 10.0/450	-40 to +40 -40 to +40	A2a)

subject to alterations

(1) Nominal data in operating point with maximum load

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
Ⓐ 1	845	360	1.72	62
Ⓐ 2	830	376	1.79	57

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE



Mass of centrifugal fan



Centrifugal fan

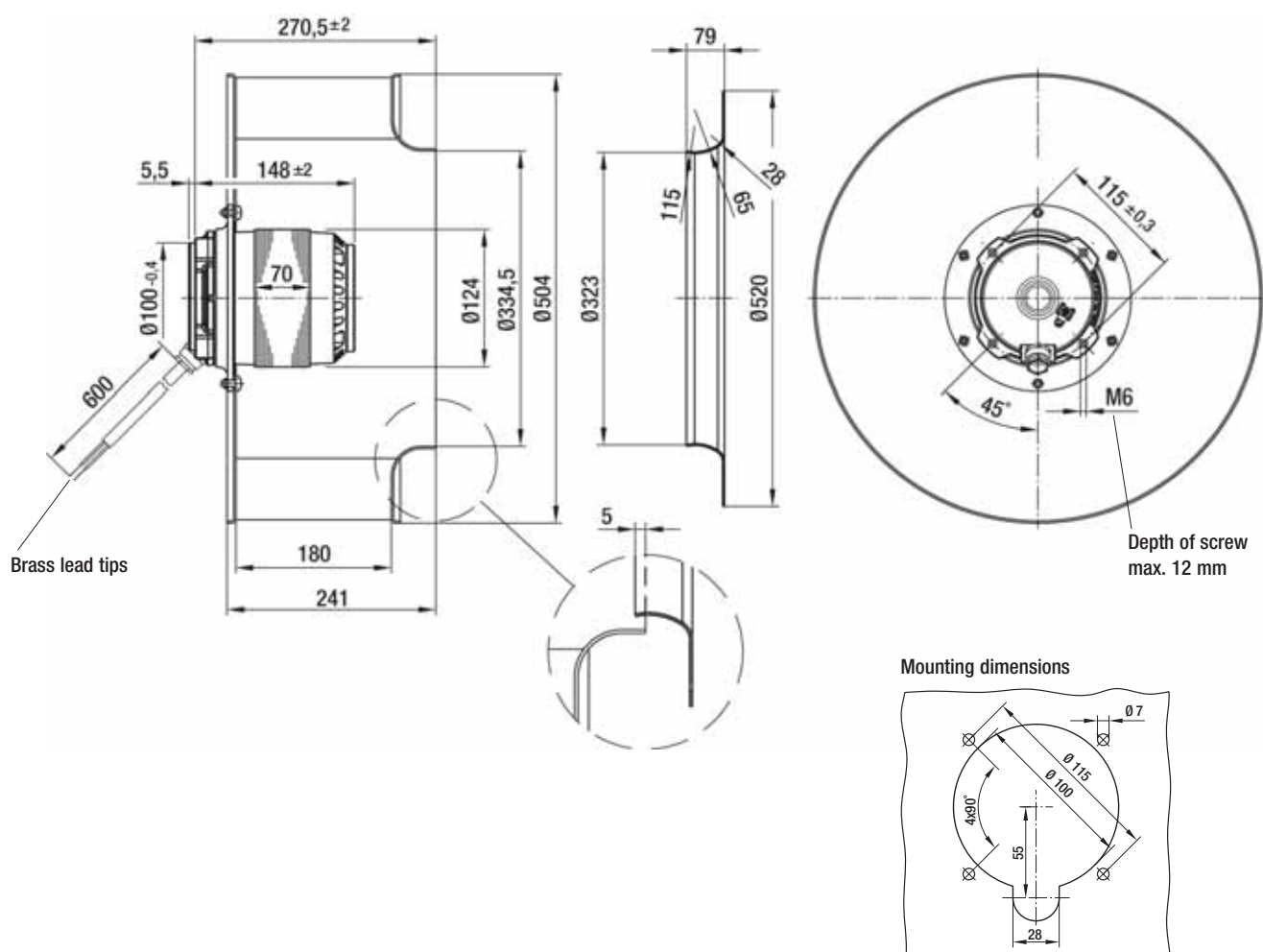
kg

Inlet nozzle (long)

R6E 500-AB05 -06

11.1

54480-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 560



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

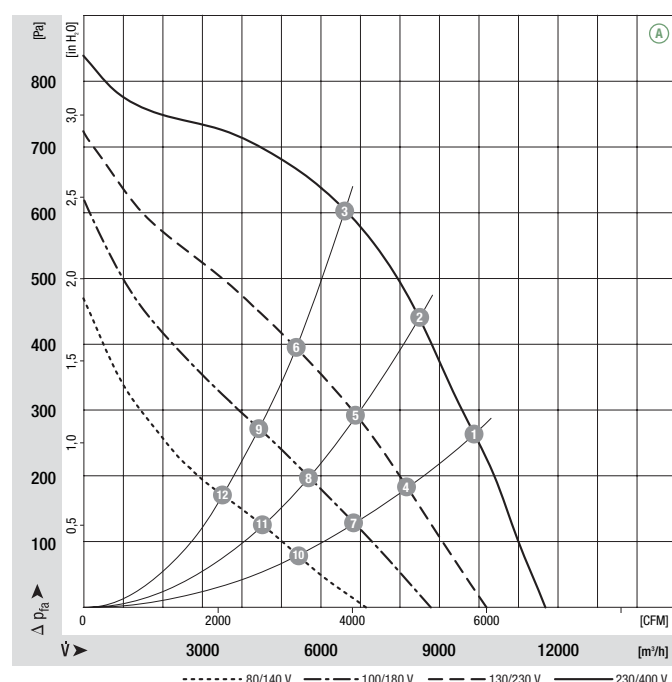
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4D 560⁽²⁾	M4D 138-LA	Ⓐ	3~ 230/400	50	1365	2.38	8.66/5.00	—	-40 to +60	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1380	2.14	8.33/4.81	84
Ⓐ 2	1370	2.33	8.66/5.00	82
Ⓐ 3	1365	2.34	8.66/5.00	81
Ⓐ 4	1140	1.53	8.31/4.80	77
Ⓐ 5	1110	1.62	8.75/5.05	76
Ⓐ 6	1105	1.62	8.73/5.04	75
Ⓐ 7	955	1.13	8.11/4.68	74
Ⓐ 8	920	1.17	8.42/4.86	73
Ⓐ 9	915	1.17	8.38/4.84	71
Ⓐ 10	765	0.77	7.31/4.22	70
Ⓐ 11	735	0.78	7.45/4.30	67
Ⓐ 12	730	0.78	7.47/4.31	65

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan



Centrifugal fan

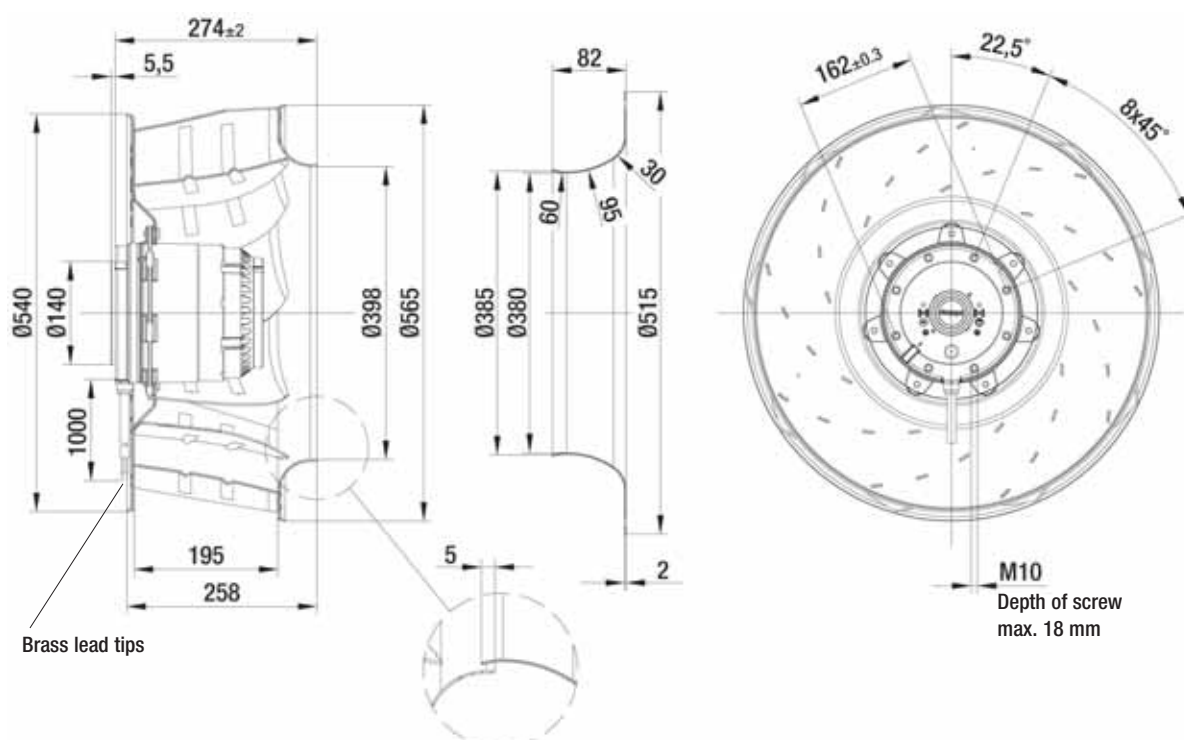
kg

Inlet nozzle (long)

R4D 560-AQ03 -01

28.0

63071-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 560



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

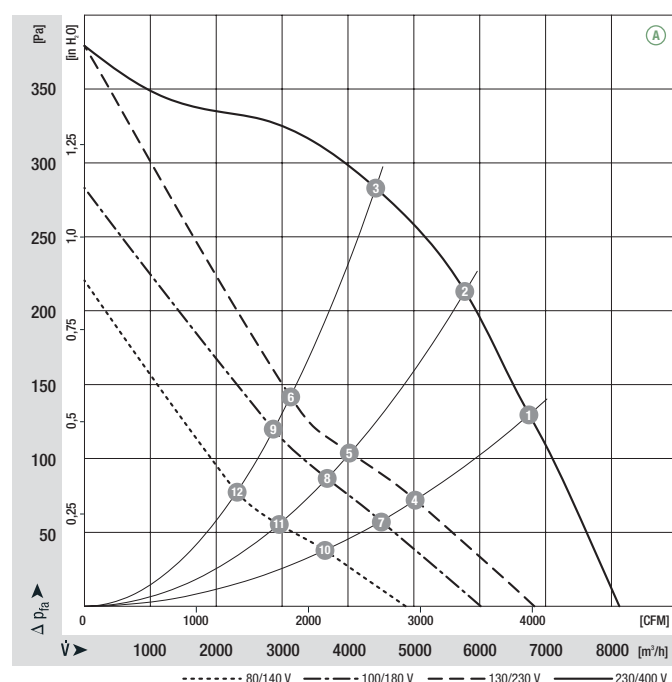
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R6D 560 ⁽²⁾	M6D 110-IA	Ⓐ	3~ 230/400	50	885	0.78	2.95/1.70	—	-40 to +55	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	905	0.68	2.71/1.56	71
Ⓐ 2	890	0.76	2.87/1.65	69
Ⓐ 3	890	0.76	2.85/1.64	69
Ⓐ 4	665	0.48	2.85/1.64	68
Ⓐ 5	610	0.49	2.89/1.67	58
Ⓐ 6	605	0.49	2.88/1.66	59
Ⓐ 7	595	0.32	2.31/1.34	65
Ⓐ 8	560	0.33	2.40/1.39	58
Ⓐ 9	565	0.33	2.39/1.38	57
Ⓐ 10	480	0.21	1.99/1.15	54
Ⓐ 11	450	0.21	2.03/1.17	50
Ⓐ 12	450	0.18	2.03/1.17	50

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan



Centrifugal fan

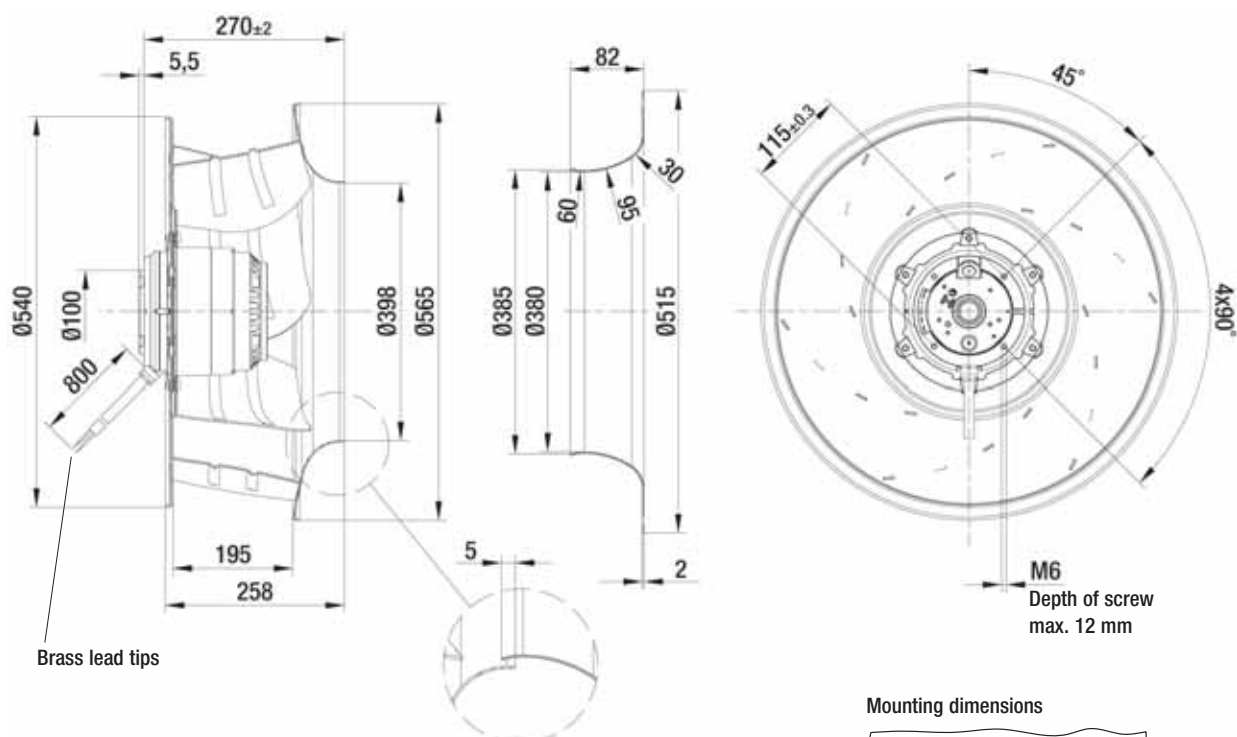
kg

Inlet nozzle (long)

R6D 560-AH05 -01

15.0

63071-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 630



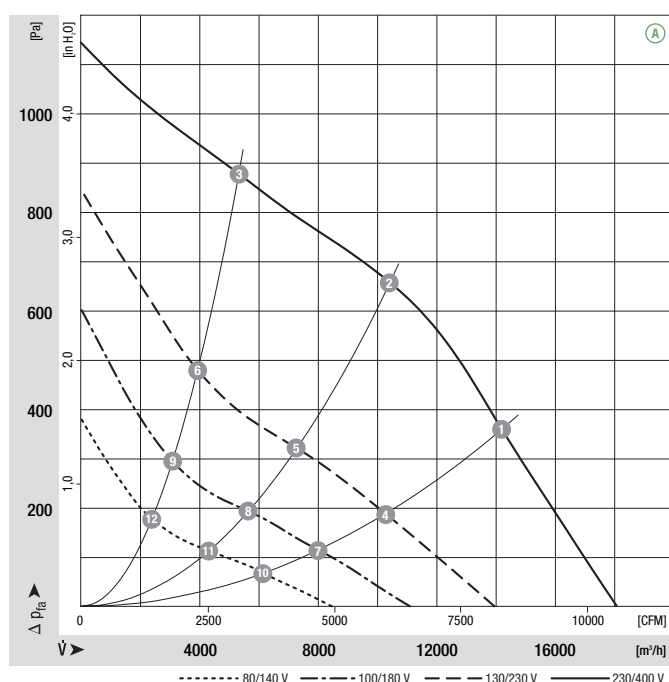
- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4D 630⁽²⁾	M4D 138-LA	Ⓐ	3~ 230/400	50	1300	4.25	13.10/7.55	—	-40 to +60	D1)/D2)

subject to alterations (1) Nominal data in operating point with maximum load (2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1325	3.93	12.33/7.12	84
Ⓐ 2	1300	4.21	13.01/7.51	82
Ⓐ 3	1340	3.55	11.19/6.46	86
Ⓐ 4	960	2.30	12.85/7.42	76
Ⓐ 5	930	2.36	13.10/7.55	74
Ⓐ 6	1005	2.19	12.13/7.01	78
Ⓐ 7	745	1.50	11.32/6.53	70
Ⓐ 8	725	1.54	11.49/6.63	69
Ⓐ 9	785	1.46	11.03/6.37	71
Ⓐ 10	575	0.94	9.47/5.47	63
Ⓐ 11	550	0.94	9.54/5.51	61
Ⓐ 12	610	0.93	9.34/5.39	64

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of
centrifugal fan



Centrifugal fan

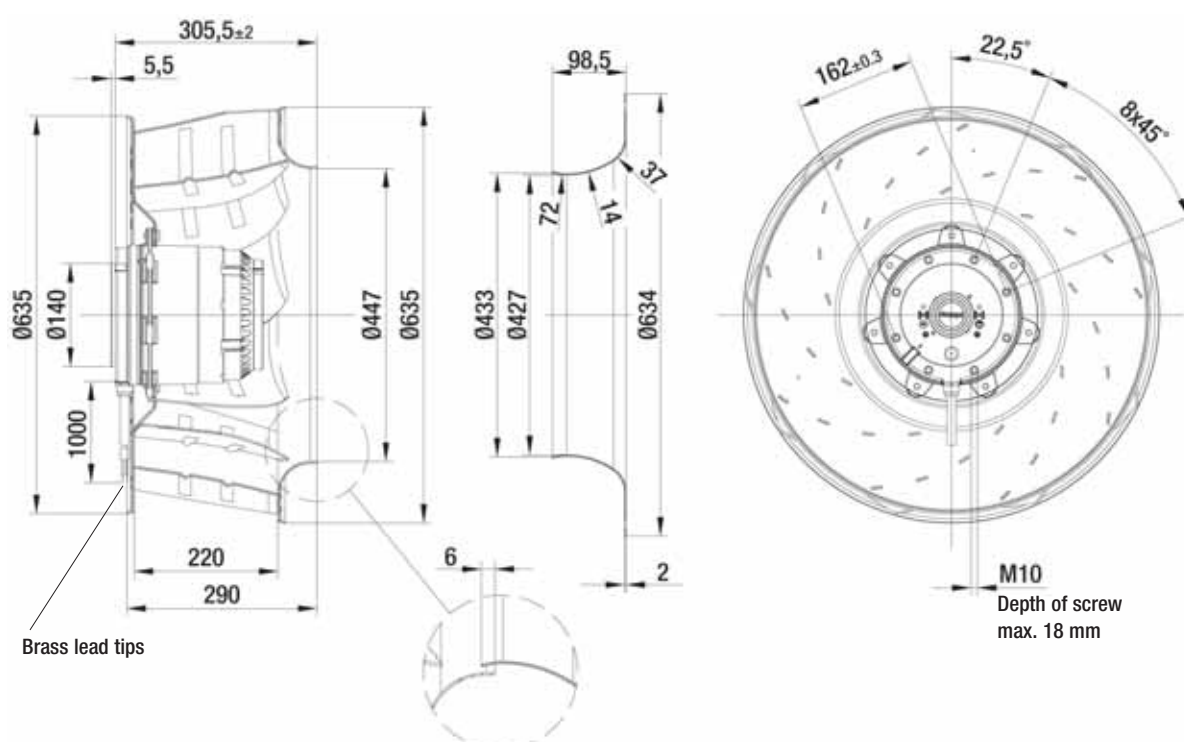
kg

Inlet nozzle
(long)

R4D 630-AQ03 -01

29.0

63070-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 630



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

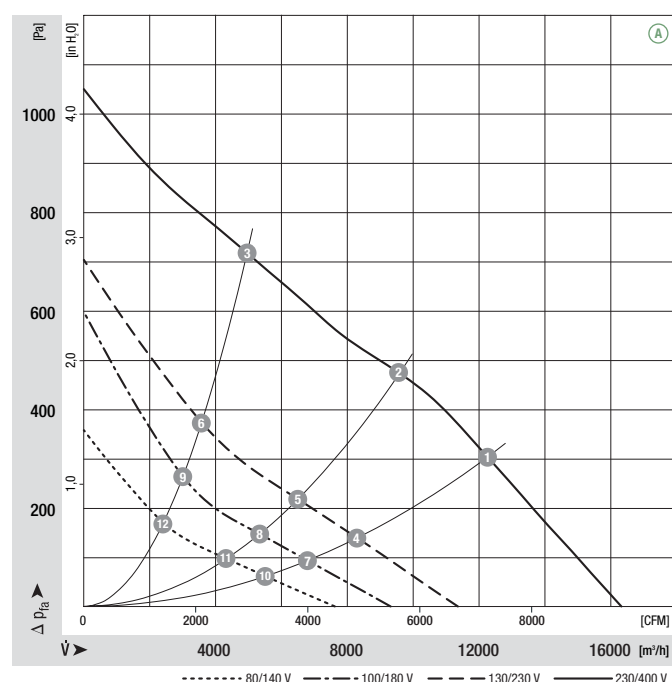
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4D 630⁽²⁾	M4D 138-NA	Ⓐ	3~ 230/400	50	1170	3.31	10.74/6.20	—	-40 to +35	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



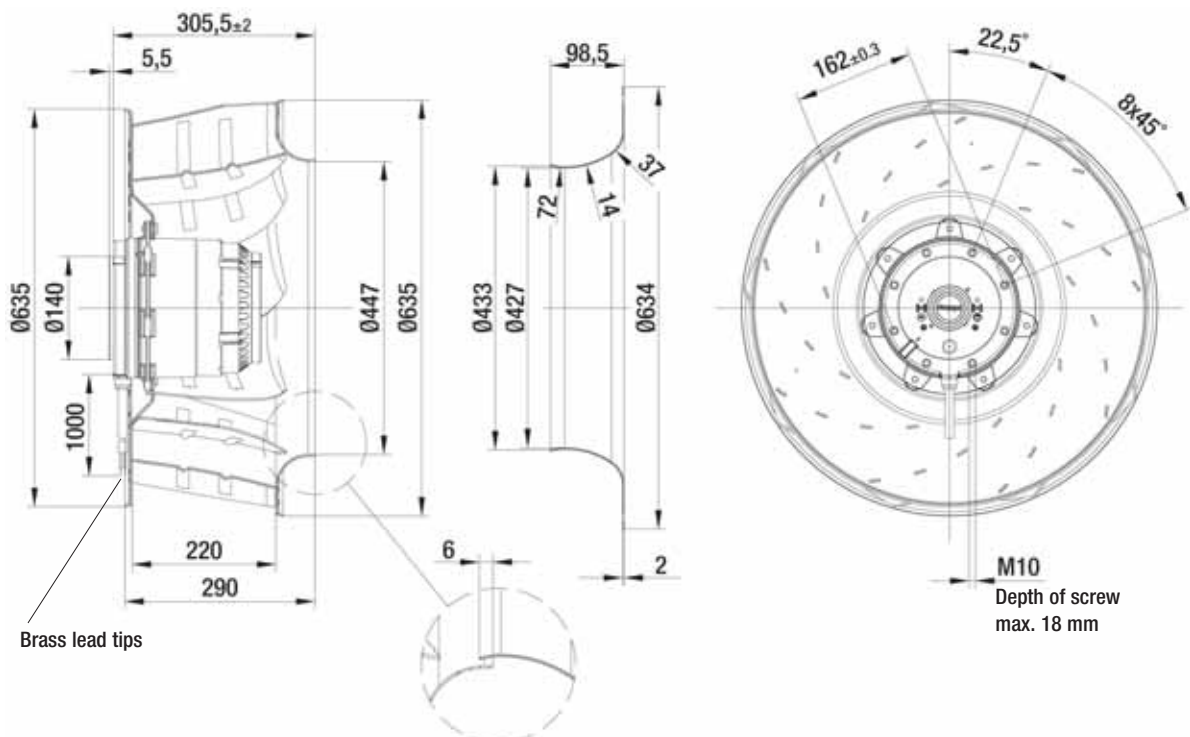
	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	1170	3.11	10.09/5.83	81
Ⓐ 2	1145	3.21	10.30/5.95	79
Ⓐ 3	1200	2.84	9.18/5.30	83
Ⓐ 4	785	1.42	8.06/4.65	70
Ⓐ 5	760	1.42	8.09/4.67	68
Ⓐ 6	830	1.35	7.65/4.41	72
Ⓐ 7	640	0.93	6.77/3.91	65
Ⓐ 8	625	0.93	6.78/3.92	63
Ⓐ 9	685	0.89	6.52/3.76	66
Ⓐ 10	520	0.59	5.57/3.22	59
Ⓐ 11	510	0.59	5.56/3.21	58
Ⓐ 12	550	0.57	5.40/3.12	60

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R4D 630-AW01 -01	31.0	63070-2-4013



AC centrifugal fans

backward curved, 3-D, Ø 630



- **Material:** Impeller: Sheet aluminium, welded
Rotor: Cast in aluminium
- **Number of blades:** 9
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharge holes:** On rotor and stator sides
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

Nominal data

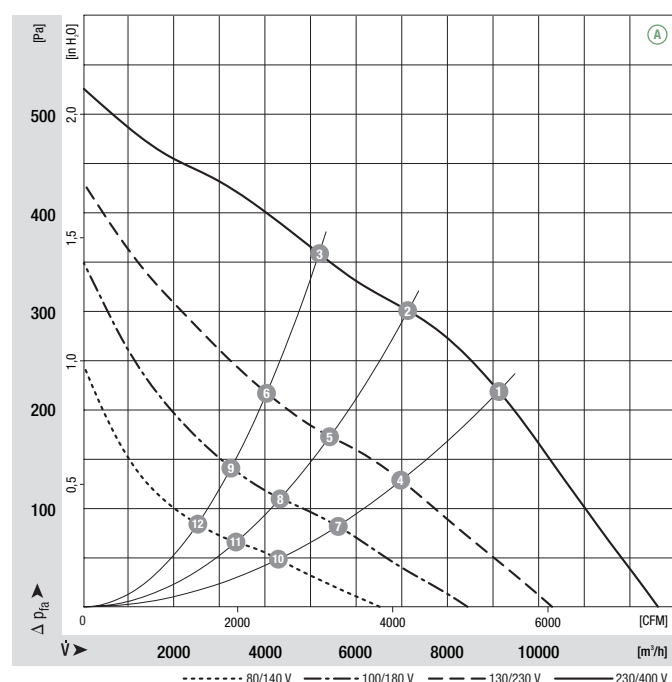
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor µF/VDB	Perm. amb. temp. °C	Electr. connection p. 596 f.
R6D 630⁽²⁾	M6D 138-HF	Ⓐ	3~ 230/400	50	880	1.31	4.85/2.80	—	-40 to +60	D1)/D2)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



	n [rpm]	P ₁ [kW]	I [A]	L _{wA} [dB(A)]
Ⓐ 1	885	1.28	4.85/2.80	73
Ⓐ 2	885	1.30	4.82/2.79	73
Ⓐ 3	890	1.23	4.65/2.69	73
Ⓐ 4	675	0.82	4.72/2.72	67
Ⓐ 5	675	0.82	4.75/2.74	67
Ⓐ 6	690	0.80	4.59/2.65	67
Ⓐ 7	540	0.57	4.37/2.52	60
Ⓐ 8	535	0.56	4.35/2.51	60
Ⓐ 9	560	0.57	4.27/2.46	61
Ⓐ 10	420	0.36	3.72/2.15	54
Ⓐ 11	415	0.36	3.74/2.16	54
Ⓐ 12	430	0.36	3.70/2.14	54

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Lateral
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:** VDE (acc. to EN 60034)



Mass of centrifugal fan

Centrifugal fan	kg	Inlet nozzle (long)
R6D 630-AT03 -01	27.0	63070-2-4013

