

AC centrifugal fan and blower

single inlet, Ø 250

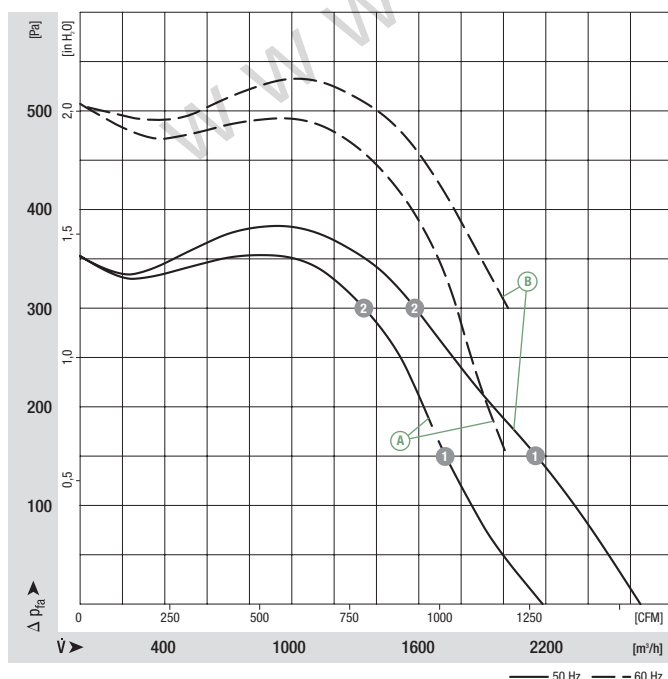


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	Pa	°C	p. 596 f.
*4D 250	M4D 094-HA	(A)	3~ 400 Y	50	1350	590	1.17	—	0	-40 to +80	D2)
			3~ 400 Y	60	1560	710	1.26	—	150	-40 to +60	
G4D 250 ⁽²⁾	M4D 094-HA	(B)	3~ 400 Y	50	1280	800	1.46	—	0	-40 to +50	D2)
			3~ 400 Y	60	1560	700	1.24	—	300	-40 to +55	

subject to alterations (1) Nominal data in operating point with maximum load (2) Data collected via exhaust duct (step diffuser, 1 m length)

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
(A) 1	1390	444	0.99	72
(A) 2	1430	312	0.87	70
(B) 1	1330	654	1.13	76
(B) 2	1410	386	0.94	71

- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Options:** 400 VAC Δ/Y for two speed steps available on request

General
information

AC centrifugal,
backward

AC centrifugal,
forward

EC centrifugal,
backward

EC centrifugal, back-
ward for clean rooms

EC centrifugal,
forward

EC-SYSTEMS

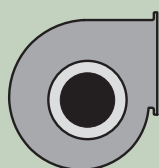
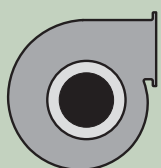
Accessories

Technology

Contacts



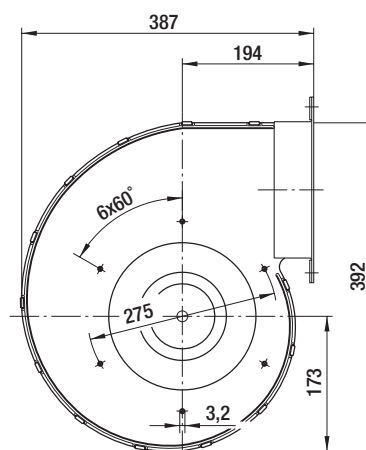
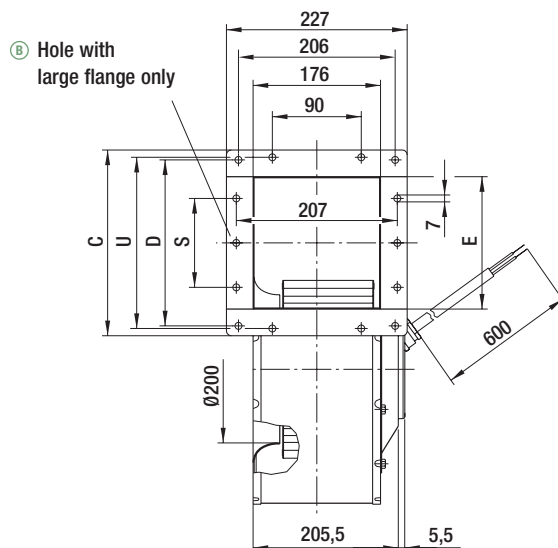
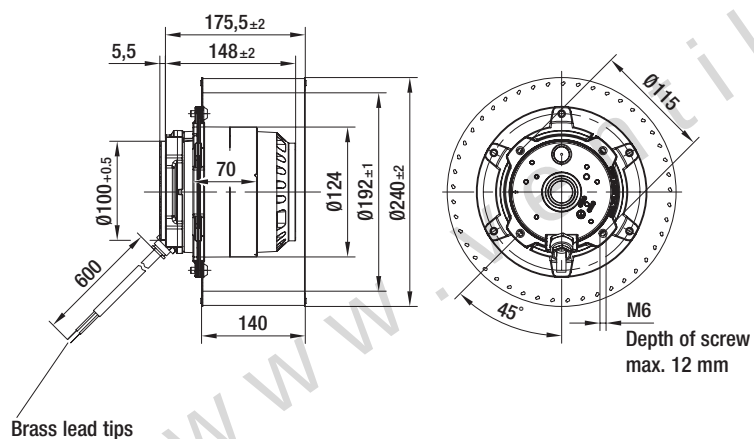
Mass of
centrifugal fan



Mass of
centrifugal blower

Dimensions

Centrifugal fan	kg	Centrifugal blower with flange (small)	Centrifugal blower with flange (large)	kg	C	D	E	S	U
R4D 250-AC10 -03	9.7	G4D 250-DC10 -03	—	13.1	218.0	190.0	167.0	90.0	198.0
—	—	—	G4D 250-EC10 -03	13.5	313.0	285.0	262.0	180.0	293.0



AC centrifugal fan and blower

single inlet, Ø 250

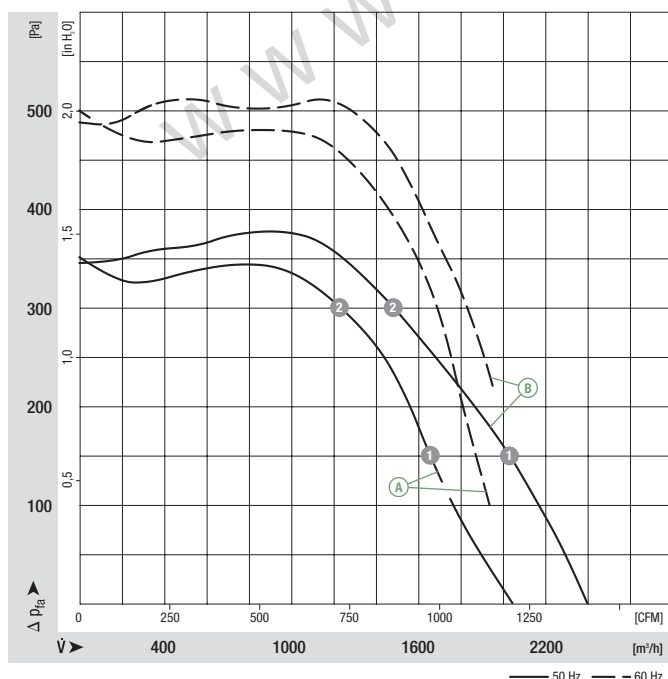


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	Pa	°C	p. 596 f.
*4E 250	M4E 094-HA	(A)	1~ 230	50	1310	570	2.48	10.0/450	0	-40 to +70	A2a)
			1~ 230	60	1470	690	3.05	10.0/450	100	-40 to +55	
G4E 250 ⁽²⁾	M4E 094-HA	(B)	1~ 230	50	1150	760	3.80	10.0/450	0	-40 to +45	A2a)
			1~ 230	60	1400	730	3.30	10.0/450	220	-40 to +55	

subject to alterations (1) Nominal data in operating point with maximum load (2) Data collected via exhaust duct (step diffuser, 1 m length)

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
(A) 1	1370	448	2.25	70
(A) 2	1420	325	1.85	68
(B) 1	1310	560	2.73	73
(B) 2	1390	395	2.05	69

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

General
information

AC centrifugal,
backward

AC centrifugal,
forward

EC centrifugal,
backward

EC centrifugal, back-
ward for clean rooms

EC centrifugal,
forward

EC-SYSTEMS

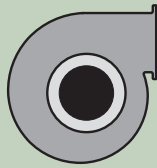
Accessories

Technology

Contacts



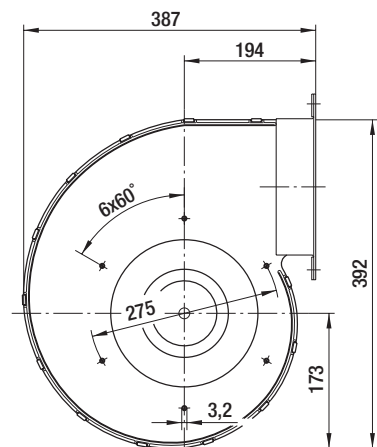
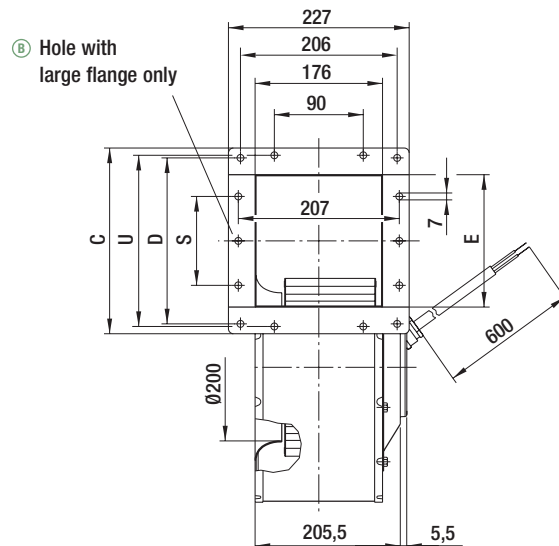
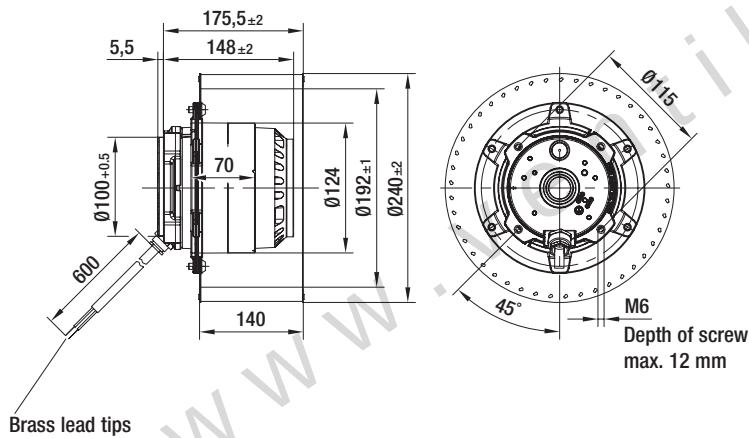
Mass of
centrifugal fan



Mass of
centrifugal blower

Dimensions

Centrifugal fan	kg	Centrifugal blower with flange (small)	Centrifugal blower with flange (large)	kg	C	D	E	S	U
R4E 250-BA09 -03	9.3	G4E 250-DA09 -03	—	12.7	218.0	190.0	167.0	90.0	198.0
—	—	—	G4E 250-EA09 -03	13.1	313.0	285.0	262.0	180.0	293.0



AC centrifugal fan and blowers

single inlet, Ø 250

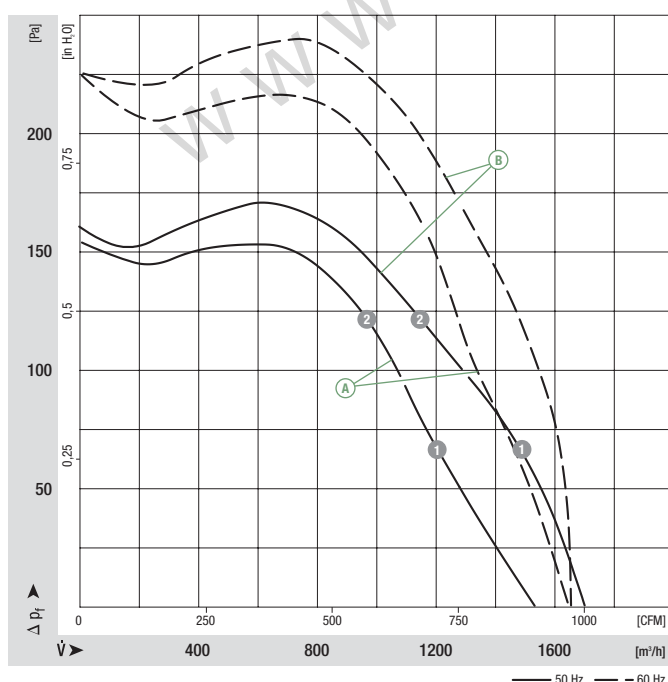


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 54 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Any
- **Condensate discharges:** None
- **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	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	W	A	µF/VDB	Pa	°C	p. 596 f.
*6E 250	M6E 094-FA	(A)	1~ 230 1~ 230	50 60	850 900	220 295	1.00 1.30	6.0/450 6.0/500	0 0	-40 to +80 -40 to +80	A2a)
G6E 250 ⁽²⁾	M6E 094-FA	(B)	1~ 230 1~ 230	50 60	780 760	255 305	1.15 1.35	6.0/450 6.0/500	0 0	-40 to +80 -40 to +70	A2a)

subject to alterations (1) Nominal data in operating point with maximum load (2) Data collected via exhaust duct (step diffuser, 1 m length)

Curves



	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
(A) 1	900	180	0.82	63
(A) 2	930	156	0.74	61
(B) 1	855	215	0.96	65
(B) 2	910	173	0.79	62

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

General
information

AC centrifugal,
backward

AC centrifugal,
forward

EC centrifugal,
backward

EC centrifugal, back-
ward for clean rooms

EC centrifugal,
forward

EC-SYSTEMS

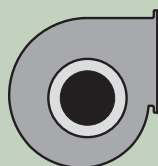
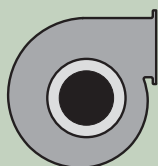
Accessories

Technology

Contacts



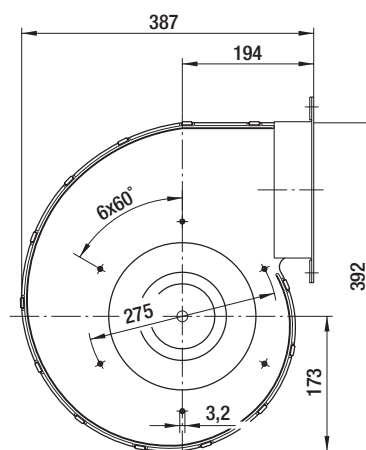
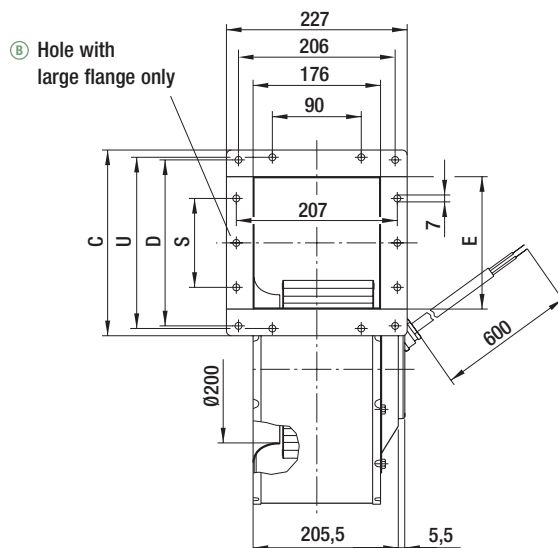
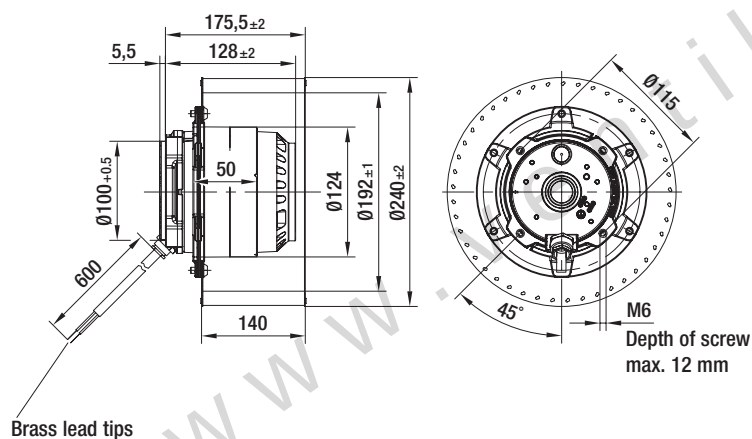
Mass of
centrifugal fan



Mass of
centrifugal blower

Dimensions

Centrifugal fan	kg	Centrifugal blower with flange (small)	Centrifugal blower with flange (large)	kg	C	D	E	S	U
R6E 250-AK05 -03	7.0	G6E 250-DK05 -03	—	10.5	218.0	190.0	167.0	90.0	198.0
—	—	—	G6E 250-EK05 -03	10.9	313.0	285.0	262.0	180.0	293.0



AC centrifugal fans

single inlet, Ø 250



- **Material:** Impeller: Galvanised sheet steel
Rotor: Cast in aluminium
- **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

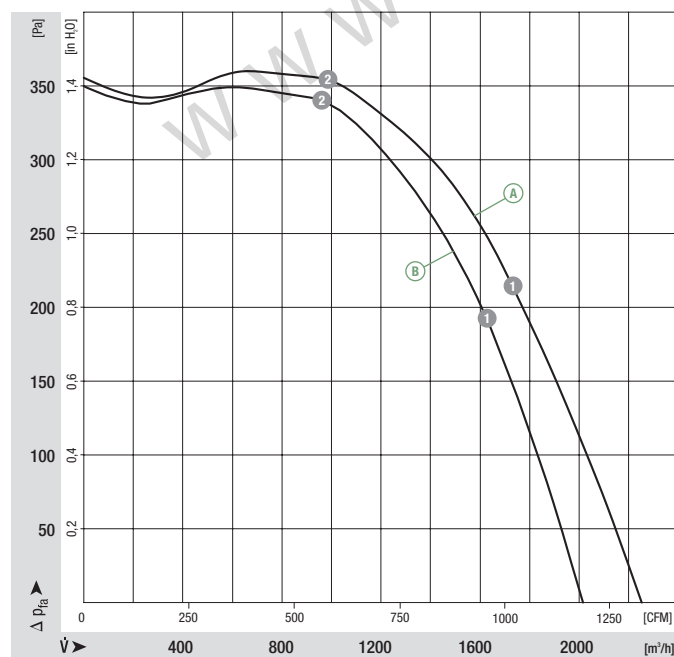
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	µF/VDB	Pa	°C	p. 596 f.
R4D 250 ⁽²⁾	M4D 110-GF	Ⓐ	3~ 230/400	50	1400	0.75	2.77/1.60	—	0	-25 to +80	D1)/D2)
R4E 250	M4E 110-GF	Ⓑ	1~ 230	50	1270	0.64	2.80	12.0/450	0	-25 to +80	A2a)

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]	Lp _A [dB(A)]
Ⓐ 1	1430	0.53	2.48/1.43	77
Ⓐ 2	1460	0.32	2.23/1.29	70
Ⓑ 1	1370	0.49	2.14	76
Ⓑ 2	1430	0.33	1.49	70

- **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)

General
information

AC centrifugal,
backward

AC centrifugal,
forward

EC centrifugal,
backward

EC centrifugal, back-
ward for clean rooms

EC centrifugal,
forward

EC-SYSTEMS

Accessories

Technology

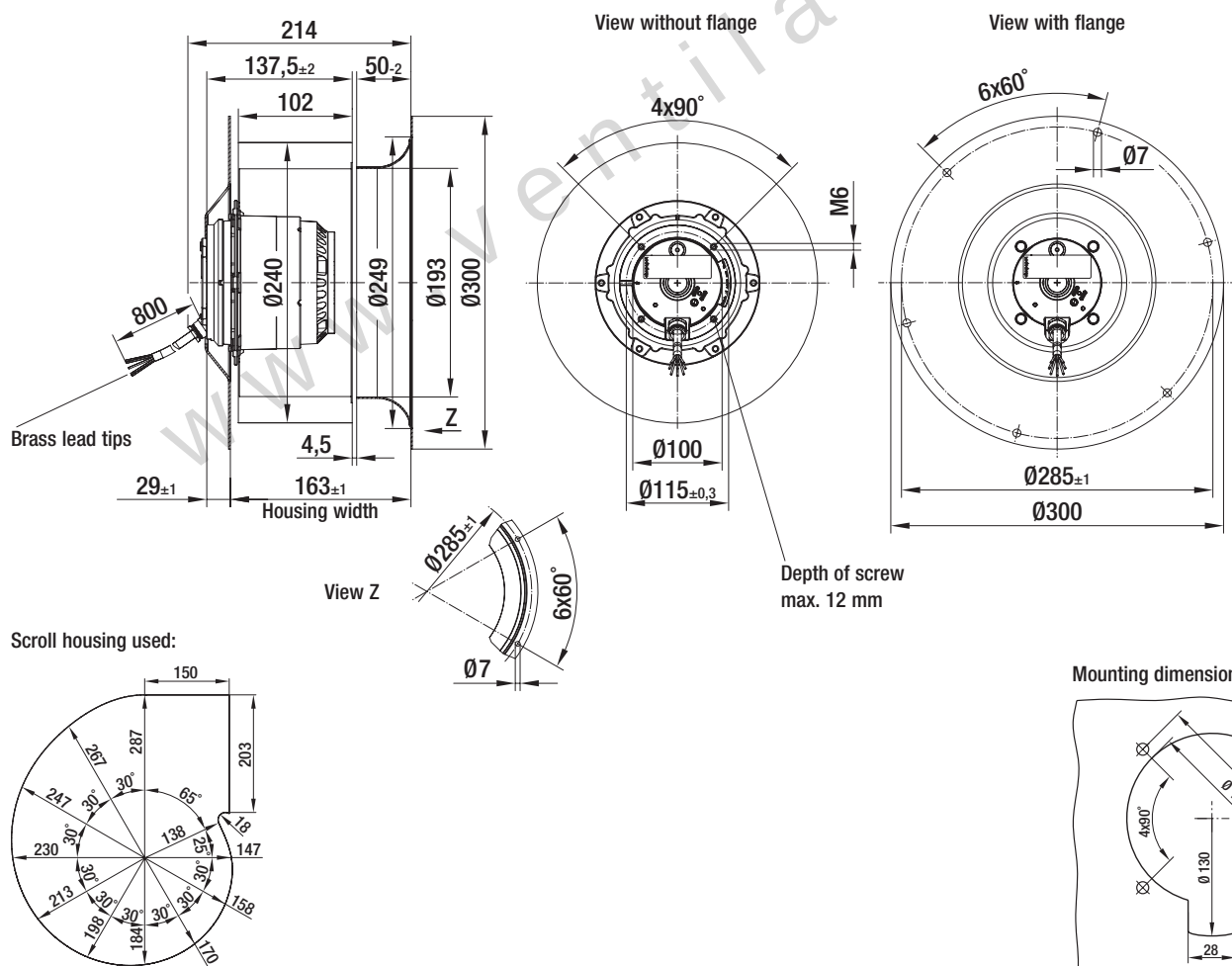
Contacts



Mass of
centrifugal fan



Centrifugal fan	kg	Inlet nozzle	Flange
R4D 250-CG01 -01	12.0	25010-2-4013	94250-2-4017
R4E 250-CG01 -01	12.0	25010-2-4013	94250-2-4017



AC centrifugal fans

single inlet, Ø 250



- **Material:** Impeller: Galvanised sheet steel
Rotor: (A) cast in aluminium, (B) coated in black
- **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:** (A) on rotor and stator sides, (B) none
- **Mode of operation:** Continuous operation (S1)
- **Bearings:** Maintenance-free ball bearings

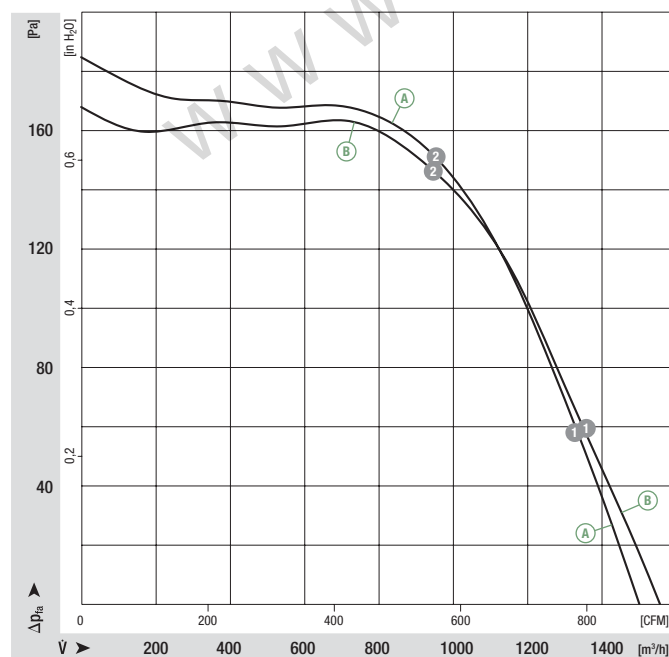
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor	VAC	Hz	rpm	kW	A	µF/VDB	Pa	°C	p. 596 f.	
R6D 250 ⁽²⁾	M6D 110-EF	(A) 3~ 230/400	50	930	0.27	1.25/0.72	—	0	-25 to +95	D1)/D2)	
R6E 250	M6E 094-FA	(B) 1~ 230	50	800	0.26	1.16	6.0/450	0	-25 to +90	A2a)	

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]	Lp _A [dB(A)]
(A) 1	945	0.23	1.18/0.68	68
(A) 2	965	0.17	1.11/0.64	63
(B) 1	875	0.22	1.00	67
(B) 2	930	0.17	0.81	62

- **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)

General
information

AC centrifugal,
backward

AC centrifugal,
forward

EC centrifugal,
backward

EC centrifugal, back-
ward for clean rooms

EC centrifugal,
forward

EC-SYSTEMS

Accessories

Technology

Contacts

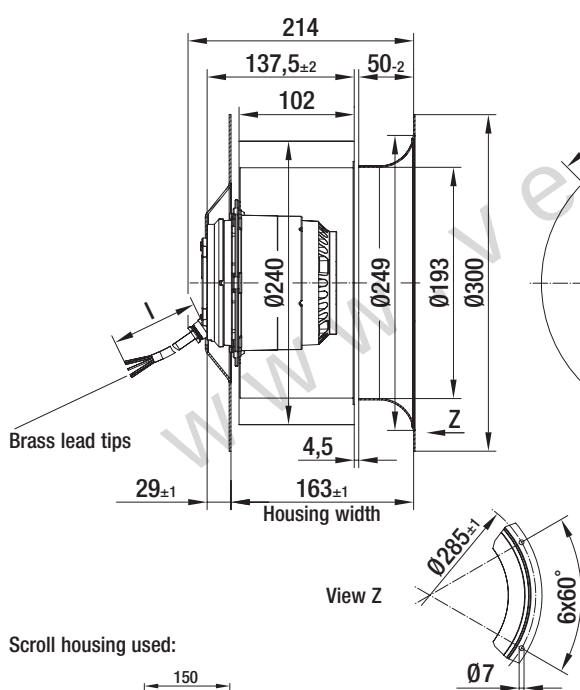


Mass of
centrifugal fan

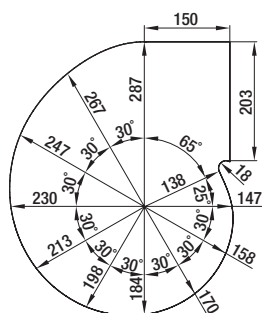
Dimensions



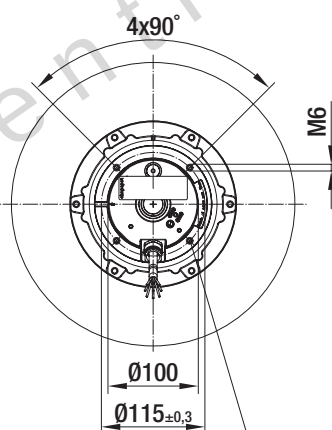
Centrifugal fan	kg	l	Inlet nozzle	Flange
R6D 250-CE01 -01	9.5	800.0	25010-2-4013	94250-2-4017
R6E 250-CA08 -01	7.0	600.0	25010-2-4013	94250-2-4017



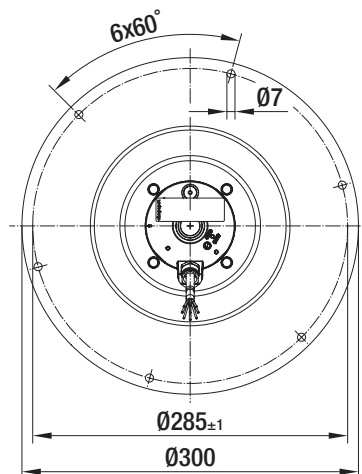
Scroll housing used:



View without flange

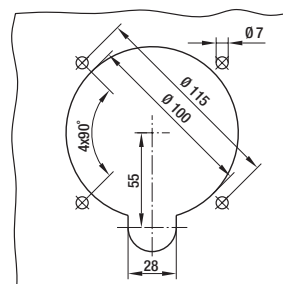


View with flange



Depth of screw
max. 12 mm

Mounting dimensions 



Mounting dimensions 

