

AC centrifugal fan and blower

single inlet, Ø 280

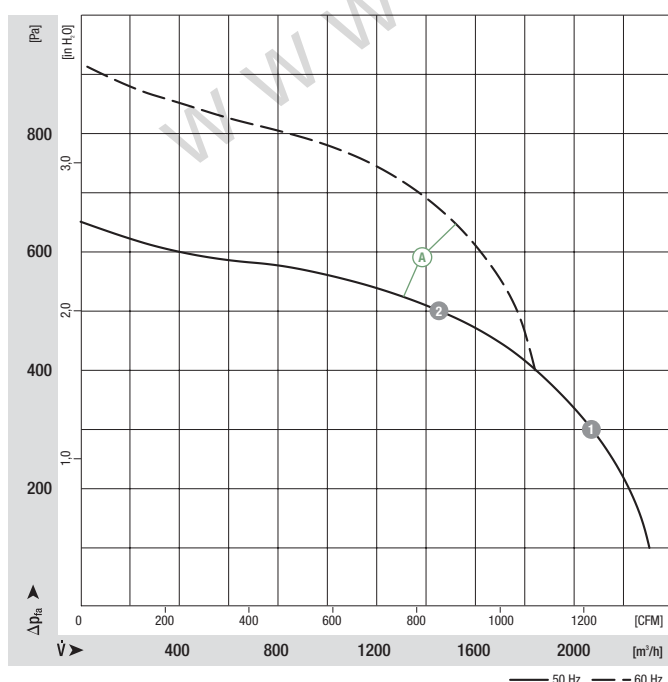


- **Material:** Housing: Galvanised sheet steel
Impeller: Galvanised sheet steel
Rotor: Coated in black
- **Direction of rotation:** Clockwise, seen on rotor
- **Type of protection:** IP 20 (acc. to EN 60529)
- **Insulation class:** "F"
- **Mounting position:** Shaft horizontal or rotor on bottom; rotor on top on request
- **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 280	M4E 094-HA	Ⓐ 1~ 230 1~ 230	50 60	1100 1350	1080 990	5.30 4.70	12.0/400 12.0/450	100 400	-40 to +60 -40 to +55		A2a)

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

Curves

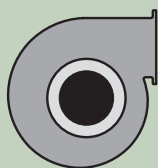


	n [rpm]	P ₁ [W]	I [A]	Lp _A [dB(A)]
Ⓐ 1	1250	845	4.20	73
Ⓐ 2	1380	555	3.02	73

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

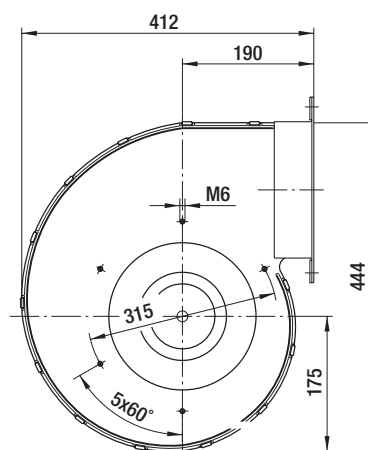
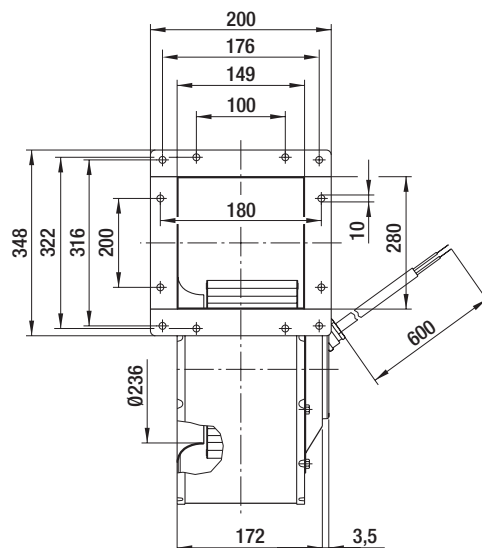
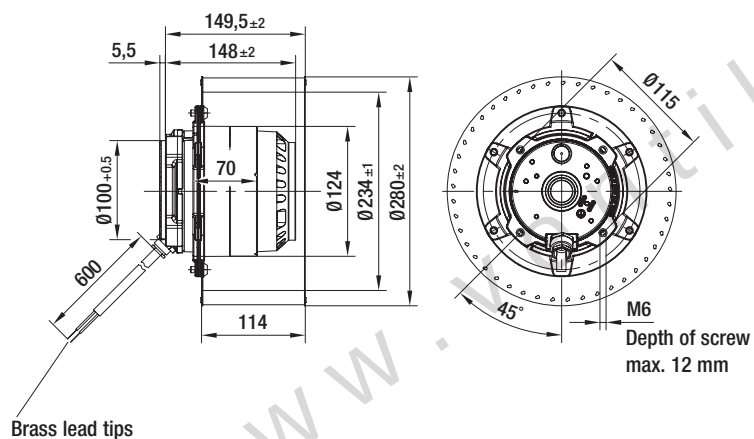


Mass of centrifugal fan



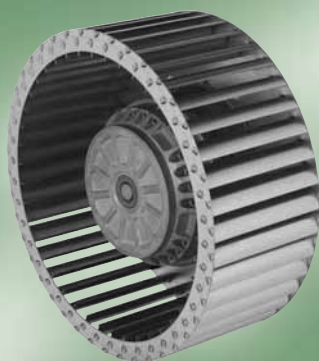
Mass of centrifugal blower

Centrifugal fan	kg	Centrifugal blower with flange (small)	kg
R4E 280-CC21 -01	10.2	G4E 280-CA21 -01	14.0



AC centrifugal fans

single inlet, Ø 280



- **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

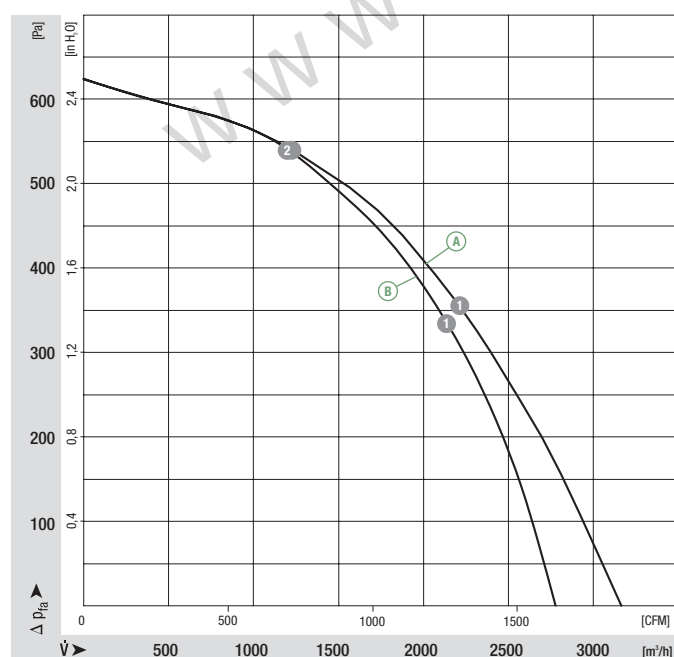
Type	Motor	Curve	Nominal voltage VAC	Frequency Hz	Speed/rpm ⁽¹⁾ rpm	Max. power input ⁽¹⁾ kW	Max. current draw ⁽¹⁾ A	Capacitor μF/VDB	Min. back pressure Pa	Perm. amb. temp. °C	Electr. connection p. 596 f.
R4D 280 ⁽²⁾	M4D 110-IA	(A)	3~ 230/400	50	1330	1.32	4.75/2.75	—	0	-25 to +65	D1)/D2)
R4E 280	M4E 110-IA	(B)	1~ 230	50	1230	1.05	4.75	16.0/450	100	-25 to +50	A2a)

subject to alterations

(1) Nominal data in operating point with maximum load

(2) 230 VAC Δ / 400 VAC Y

Curves



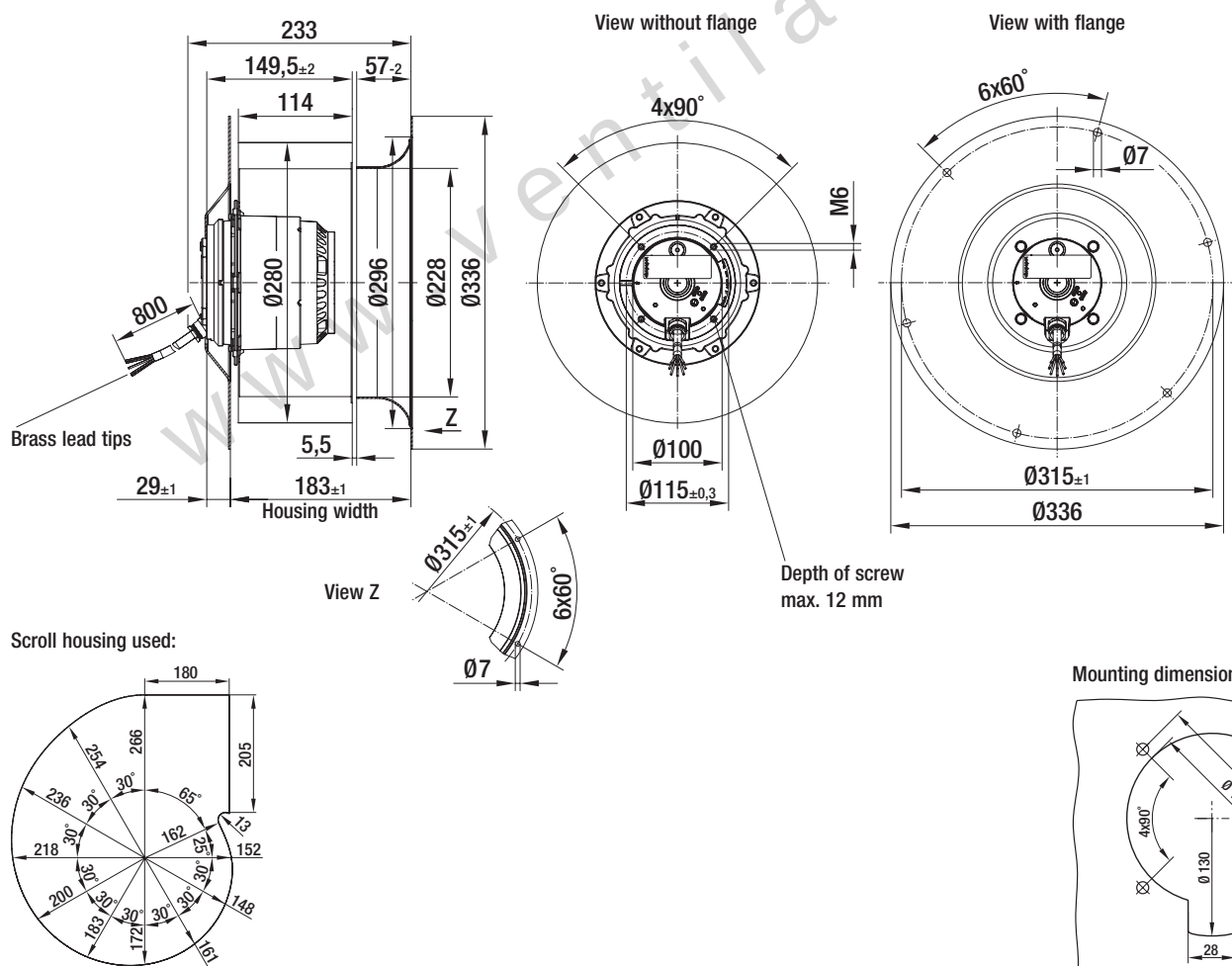
	n [rpm]	P ₁ [kW]	I [A]	Lp _A [dB(A)]
(A) 1	1390	0.87	3.79/2.19	77
(A) 2	1440	0.51	3.29/1.90	72
(B) 1	1340	0.82	3.59	76
(B) 2	1425	0.54	2.34	72

- **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	Flange
R4D 280-CI03 -01	14.5	28010-2-4013	10280-2-4017
R4E 280-CI01 -01	14.5	28010-2-4013	10280-2-4017



AC centrifugal fans

single inlet, Ø 280



- **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

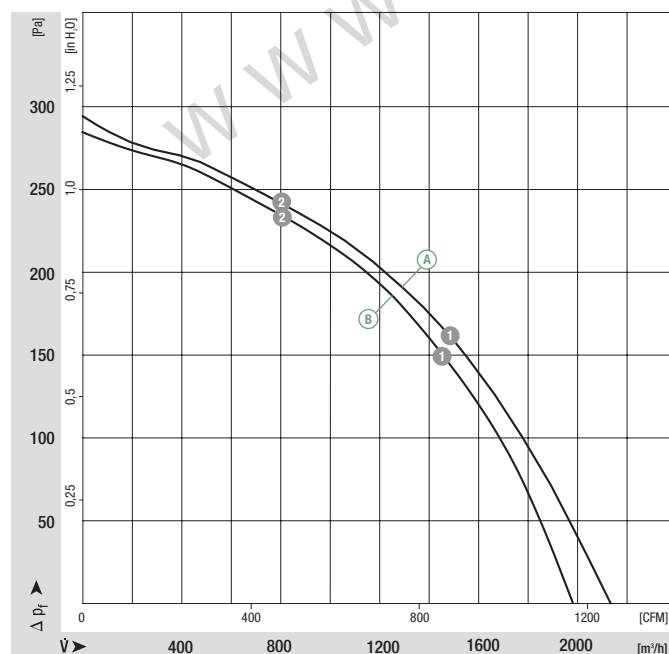
Nominal data		Curve	Nominal voltage	Frequency	Speed/rpm ⁽¹⁾	Max. power input ⁽¹⁾	Max. current draw ⁽¹⁾	Capacitor	Min. back pressure	Perm. amb. temp.	Electr. connection
Type	Motor		VAC	Hz	rpm	kW	A	µF/VDB	Pa	°C	p. 596 f.
R6D 280 ⁽²⁾	M6D 110-EF	(A)	3~ 230/400	50	870	0.45	1.56/0.90	—	0	-25 to +70	D1)/D2)
R6E 280	M6E 094-HA	(B)	1~ 230	50	795	0.42	1.95	12.0/450	0	-25 to +55	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	930	0.29	1.30/0.75	66
(A) 2	960	0.18	1.16/0.67	61
(B) 1	890	0.34	1.60	66
(B) 2	940	0.27	1.37	61

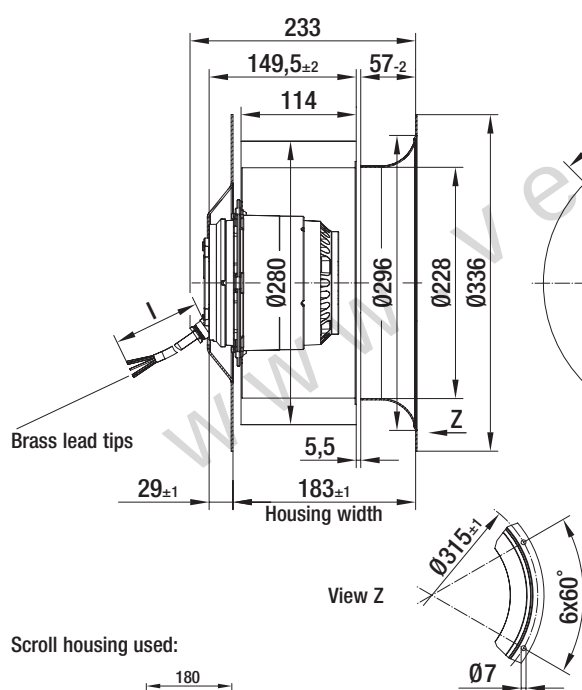
- **Motor protection:** Design with thermal overload protector
- **Cable exit:** Diagonal
- **Protection class:** I (acc. to EN 61800-5-1)
- **Product conforming to standard:** CE
- **Approvals:**  VDE (acc. to EN 60034)



Mass of centrifugal fan

Dimensions

Centrifugal fan	kg	l	Inlet nozzle	Flange
R6D 280-CE01 -01	10.0	800.0	28010-2-4013	10280-2-4017
R6E 280-CC05 -01	9.5	600.0	28010-2-4013	10280-2-4017



Scroll housing used:

