

Backward Curved Motorized Impellers
with external rotor motor

H-SERIES / W-SERIES



Rosenberg USA

1503 Rocky River Road North
Monroe, NC 28110

Ph: (704)289-5423
Fax: (704)283-7170

www.rosenbergusa.com
sales@rosenbergusa.com

Reference Code

D K H R 355 - 4 S H . 127 . 4 FF - 001

Current

D = Three phase A.C.
E = Single phase A.C.

KH = Free running impeller with external rotor motor

Type

R = Motor impeller without inlet cone
M = Fan module for assembly

Impeller diameter

355 = 355mm (14 inches)

No. of poles

2=2 F=2-2
4=4 G=4-4
6=6 H=6-6

Cable outlet

S = Flying leads

Type of impeller

H = Backward curved High performance impeller with 6 blades
W = Backward curved High performance impeller with 8 blades

Impeller width

in mm

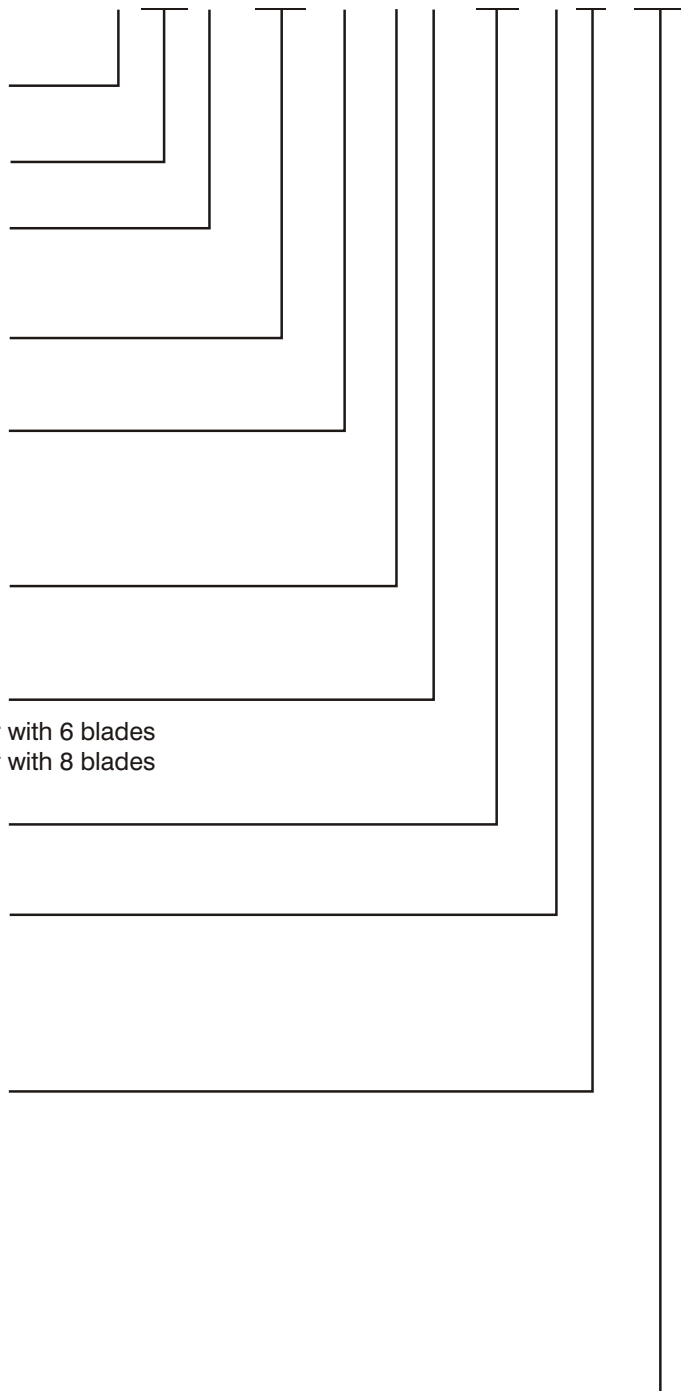
Motor size (Internal Data)

4 = External rotor motor type 080
5 = External rotor motor type 106
6 = External rotor motor type 137
7 = External rotor motor type 165

Package length (Internal Data)

A=0
D=3 e.g. FF = 55 mm
E=4
F=5
H=7
K=9
L=10
N=12

Consecutive number



Characteristics and Construction

Rosenberg Radial Fans with free-running impeller type E/DKHR form a compact and constructively optimal fan unit by combining an external rotor motor and a backward-curved impeller.

During development of the backward curved impeller, Rosenberg attached great importance to high efficiency and at the same time a most optimal sound level.

Fans of this construction are designed for installation in appliances such as air handling units, hygienic units, clean room filter units and air conditioning units.

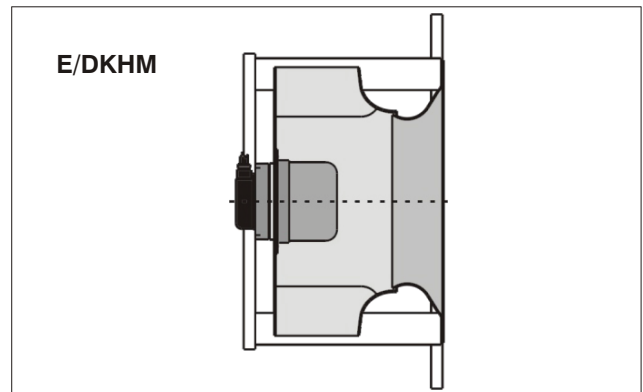
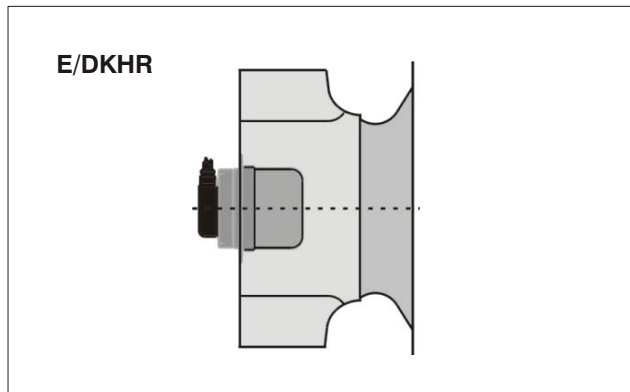
The fans are for clean air application and ventilation of non-aggressive vapors and fumes.

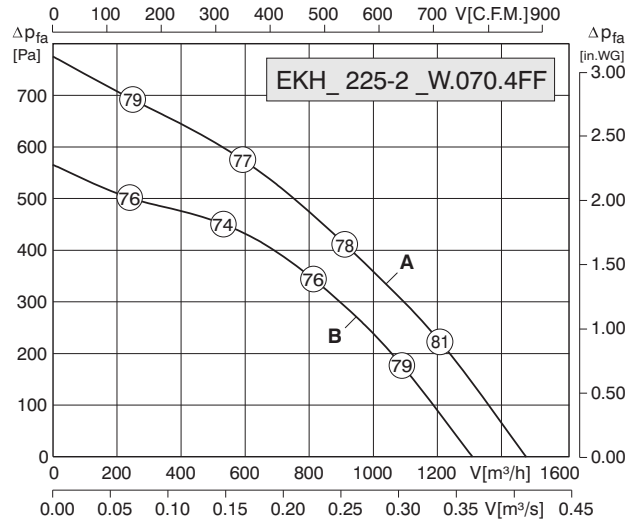
The standard execution is the construction:

- **_KHR** : Motorized impeller without inlet cone (inlet cone as an option)

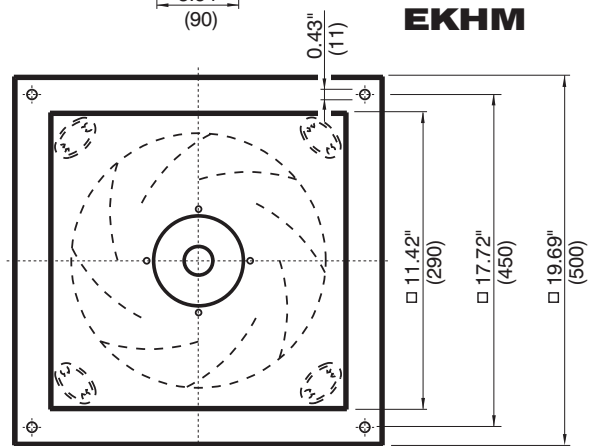
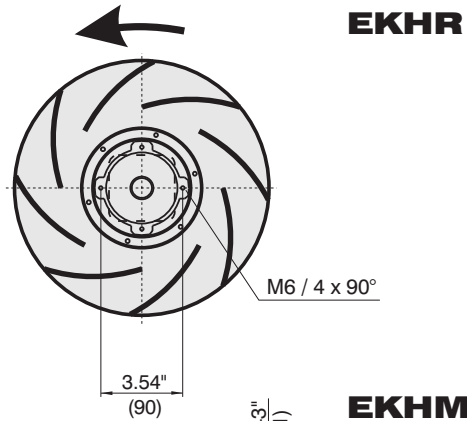
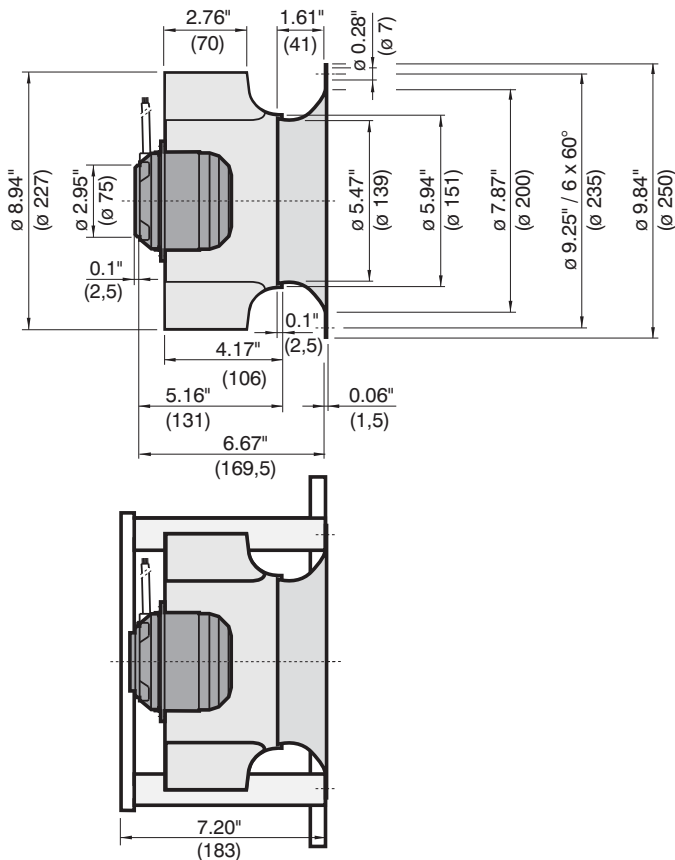
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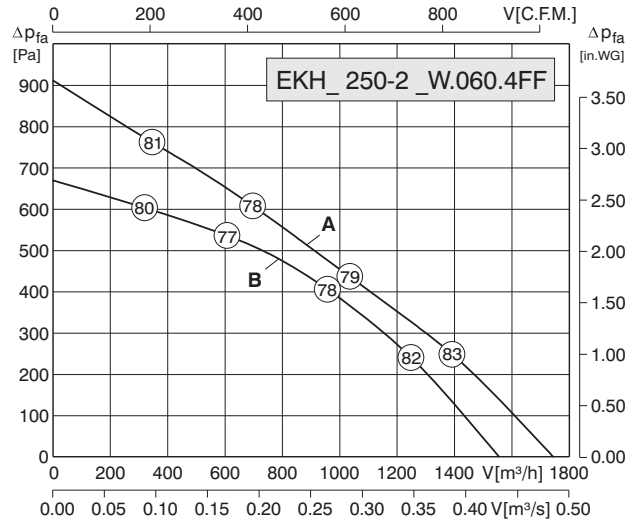
- **_KHM** : Fan module
- Special solutions according to customer requirements (OEM)



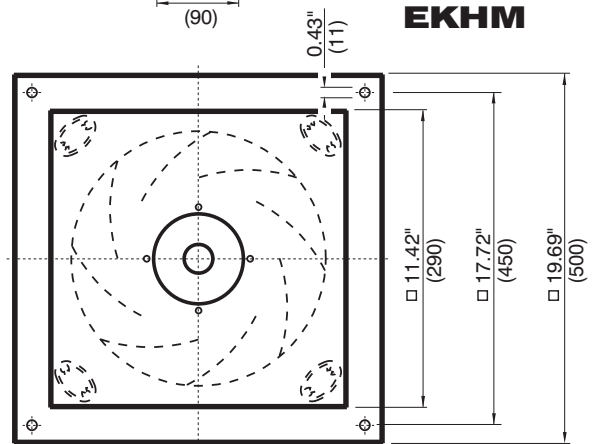
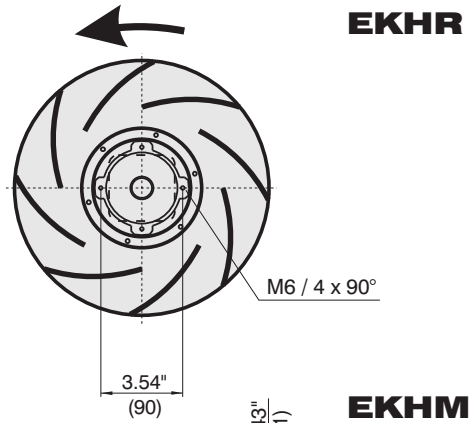
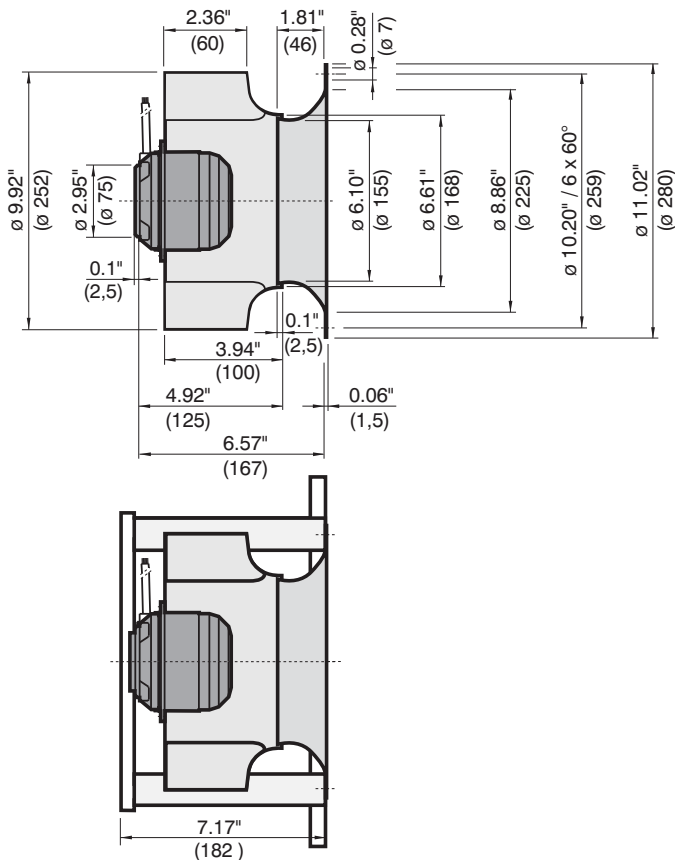


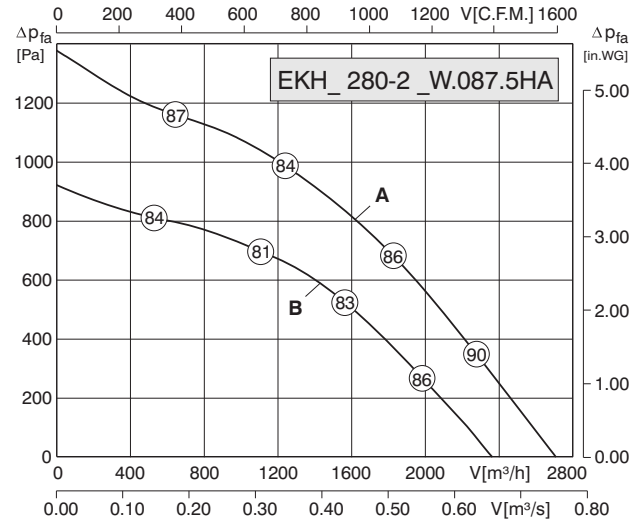
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	0.38	3.30	3000	158	70	20	2.5	1.7	54	01.024	4.5/ 10.5
1 ~230	60	A	0.38	1.65	3000	158	70	6	2.5	1.7	54	01.024	4.5/ 10.5
1 ~230	50	B	0.27	1.2	2710	158	70	6	30	2.6	54	01.024	4.5/ 10.5



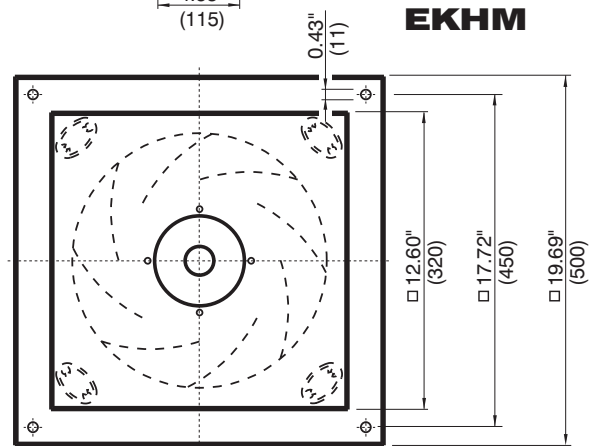
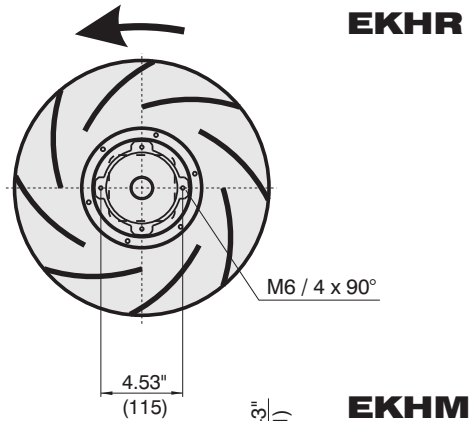
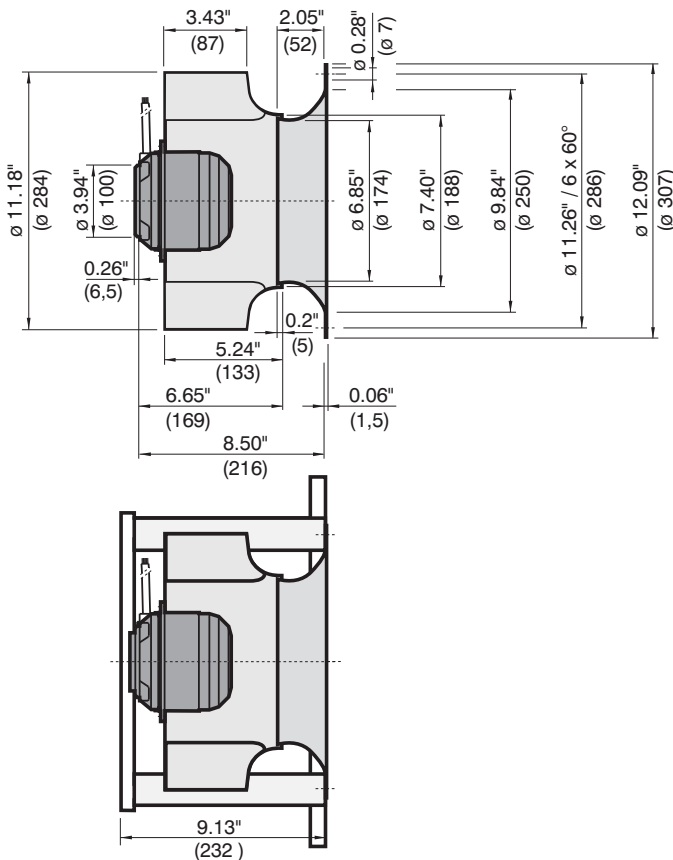


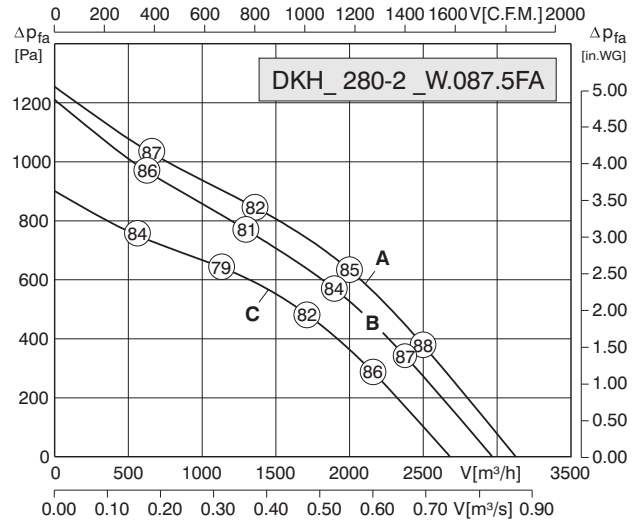
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	0.44	3.80	2760	113	45	20	2.0	1.5	54	01.024	4.5/10.5
1 ~230	60	A	0.44	1.90	2760	113	45	6	2.0	1.5	54	01.024	4.5/10.5
1 ~230	50	B	0.31	1.38	2630	140	60	6	24	2.3	54	01.024	4.5/10.5



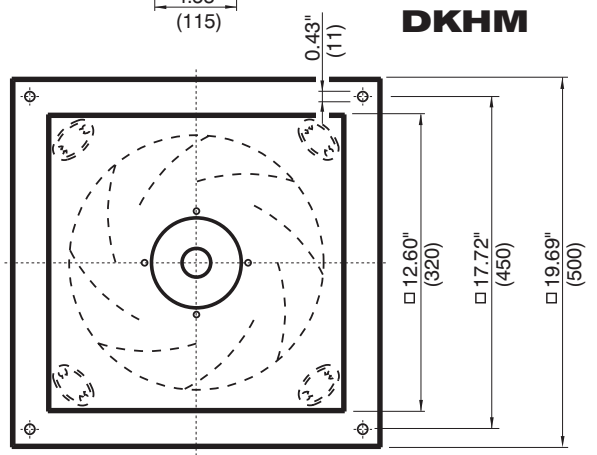
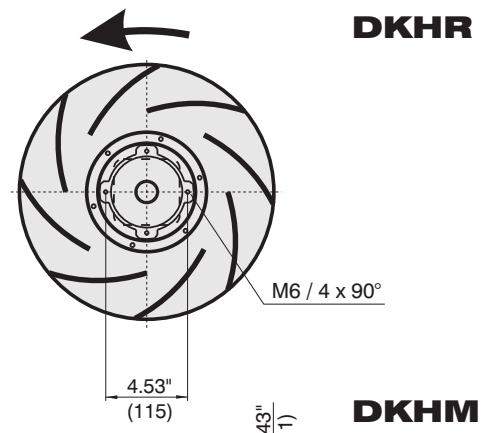
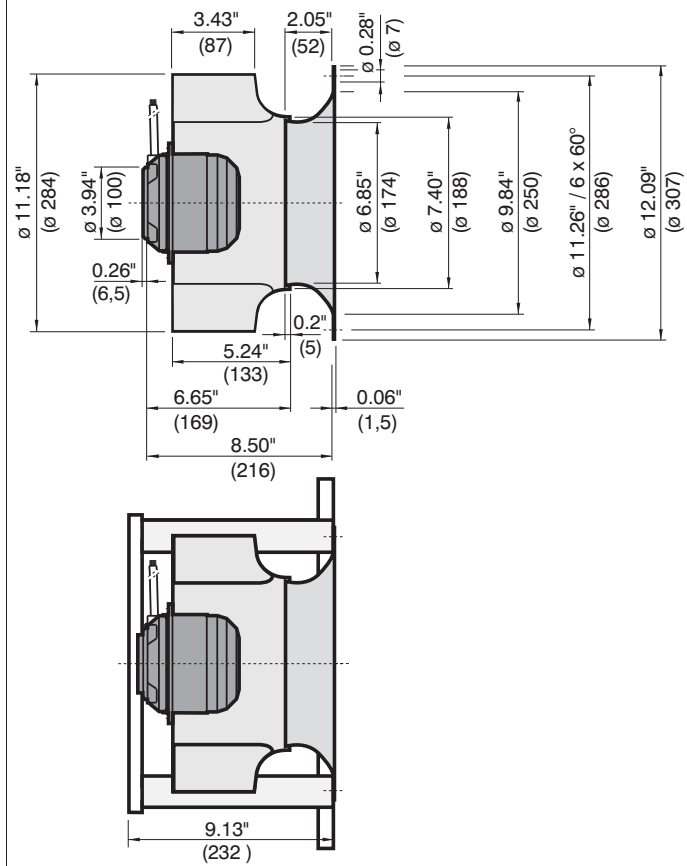


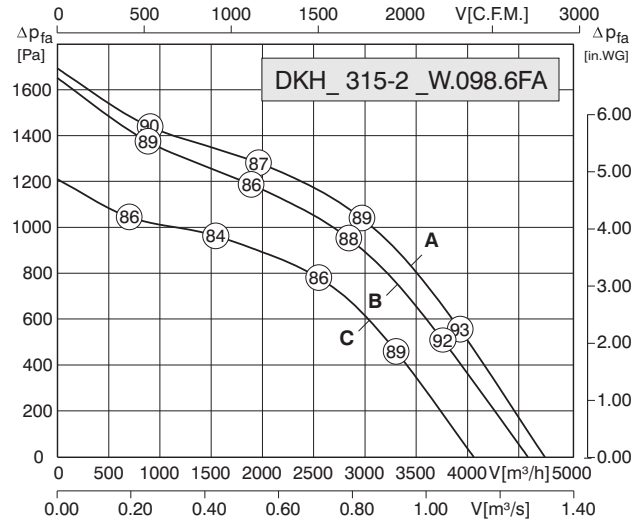
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	1.08	9.40	3110	122	50	60	16	2.2	54	01.024	9.5/17.5
1 ~230	60	A	1.08	4.70	3110	122	50	16	16	2.2	54	01.024	9.5/17.5
1 ~230	50	B	0.79	3.80	2740	122	50	16	13	3.0	54	01.024	9.5/17.5



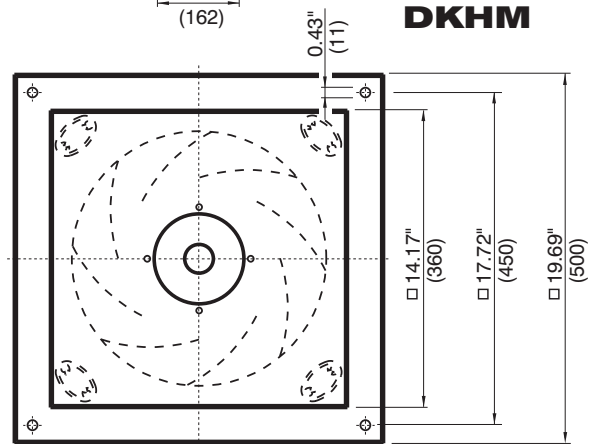
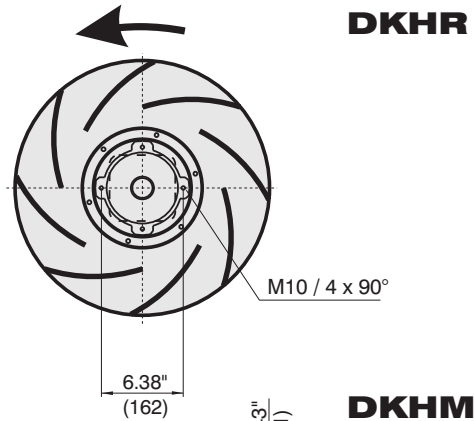
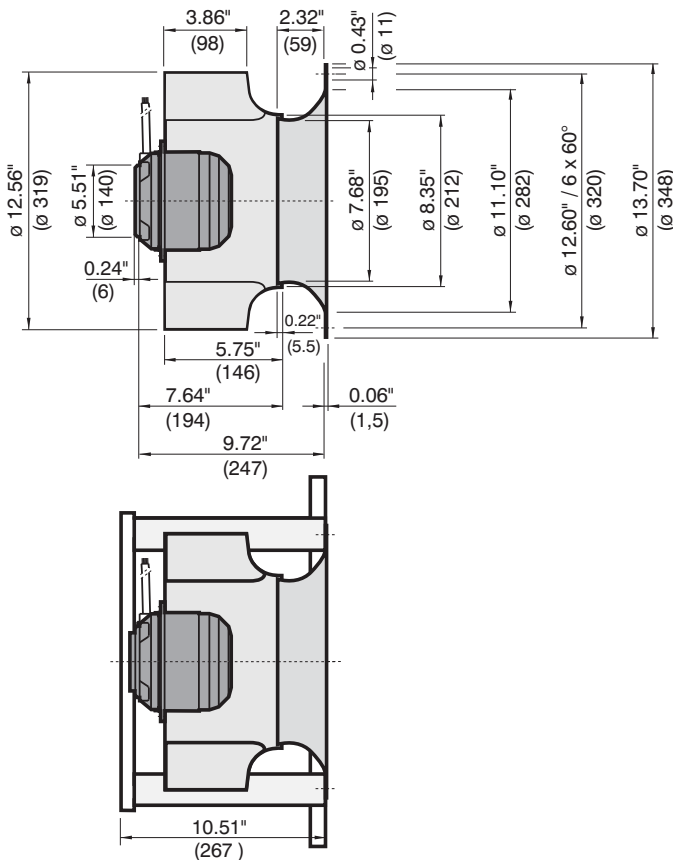


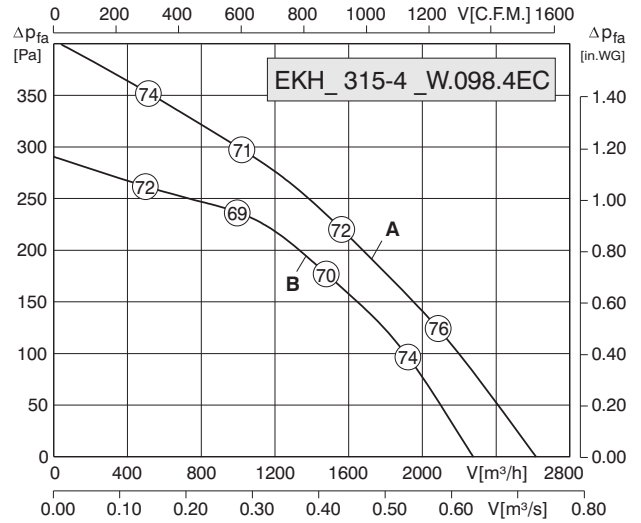
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	1.10	1.60	2990	113	45	-	-	3.2	54	01.005	7.5/15.5
3 ~230 Δ	60	B	1.00	2.80	2840	113	45	-	-	3.2	54	01.006	7.5/15.5
3 ~400 Y	50	C	0.71	1.30	2610	140	60	-	-	3.6	54	01.005	7.5/15.5



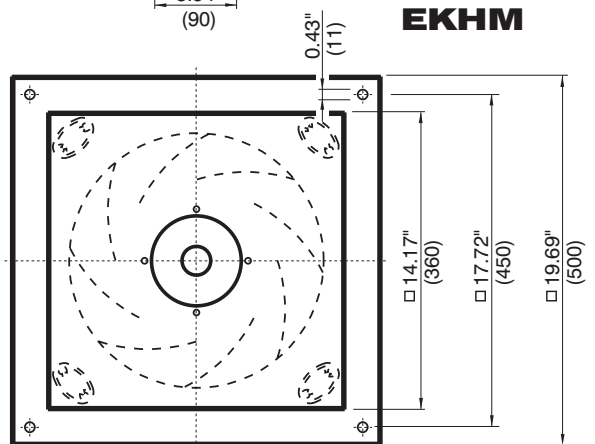
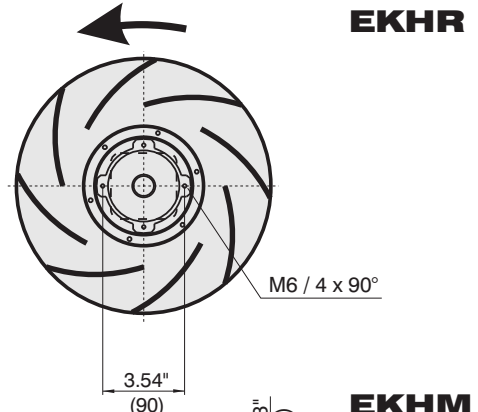
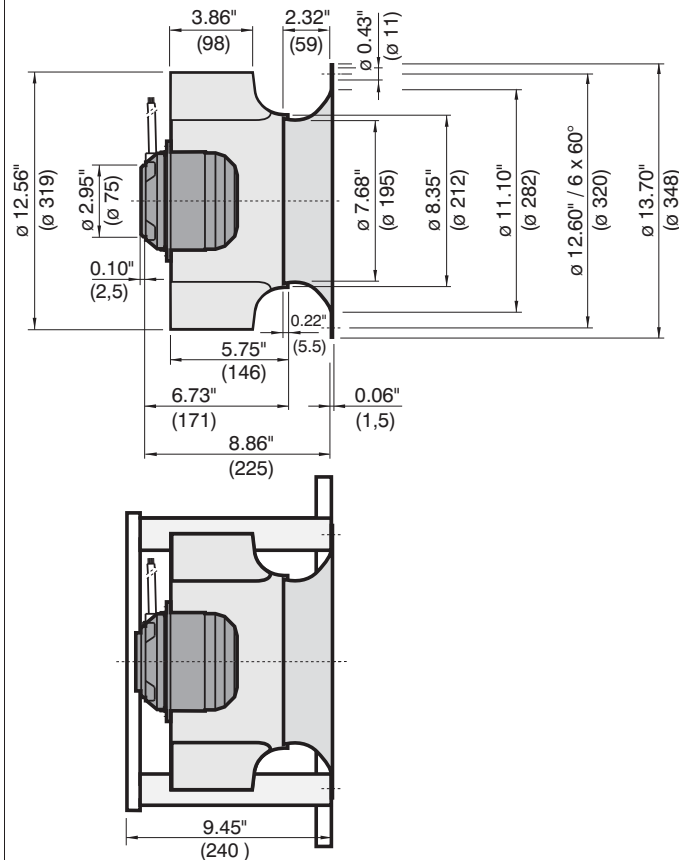


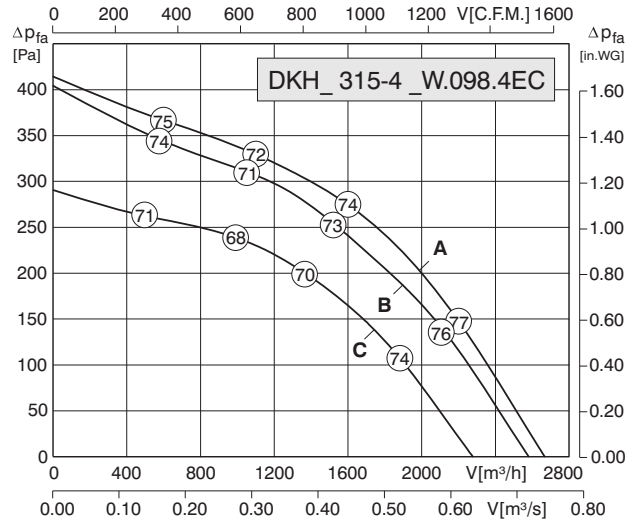
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	📦 [kg]
3 ~460 Y	60	A	2.33	3.30	3185	104	40	-	12	3.4	54	01.005	15 / 23.5
3 ~230 Δ	60	B	2.10	6.00	3040	104	40	-	7	3.4	54	01.006	15 / 23.5
3 ~400 Y	50	C	1.52	2.55	2750	158	70	-	18	4.2	54	01.005	15 / 23.5



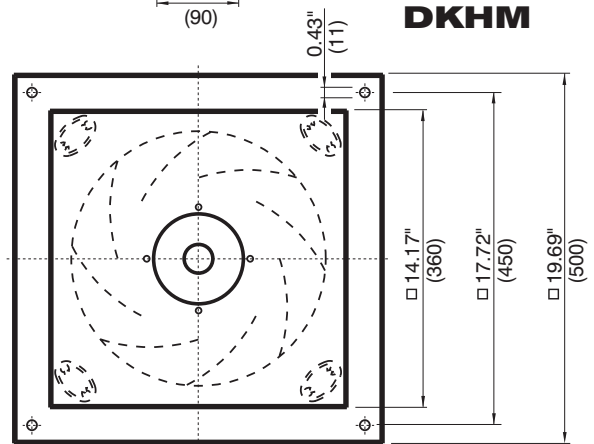
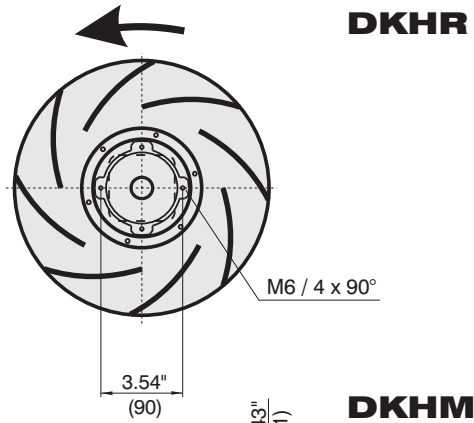
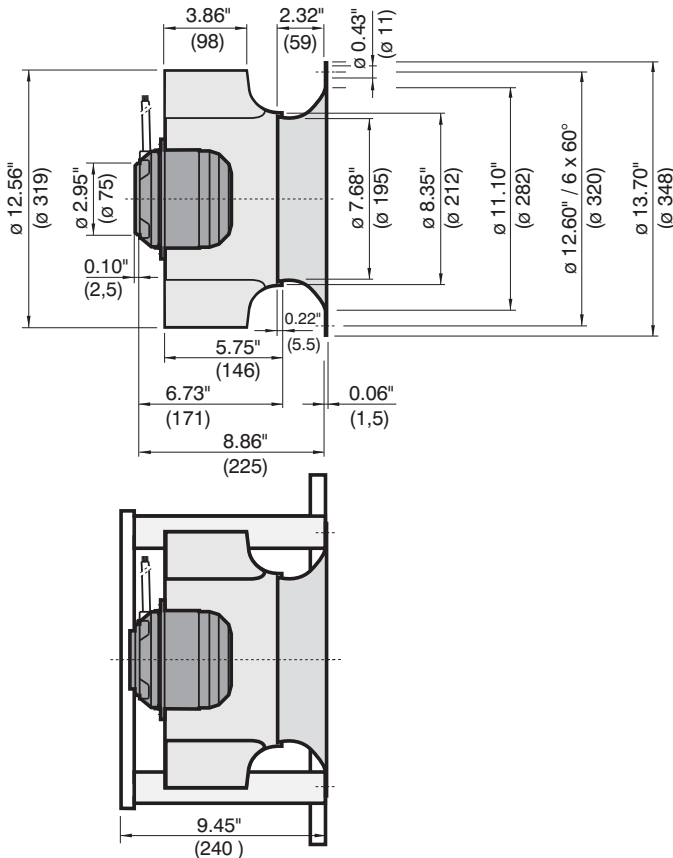


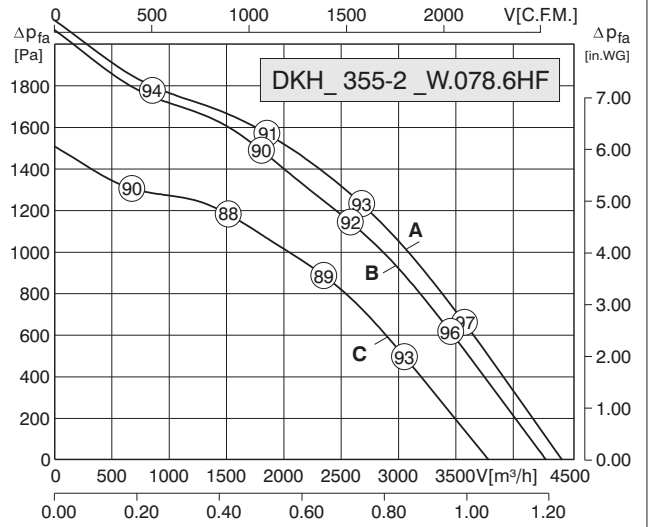
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	★	⊞ [kg]
1 ~ 115	60	A	0.29	2.60	1480	113	50	20	-	1.6	54	01.024	5 / 12.5
1 ~ 230	60	A	0.29	1.30	1480	113	50	5	-	1.6	54	01.024	5 / 12.5
1 ~ 230	50	B	0.22	1.00	1350	140	60	5	18	1.6	54	01.024	5 / 12.5



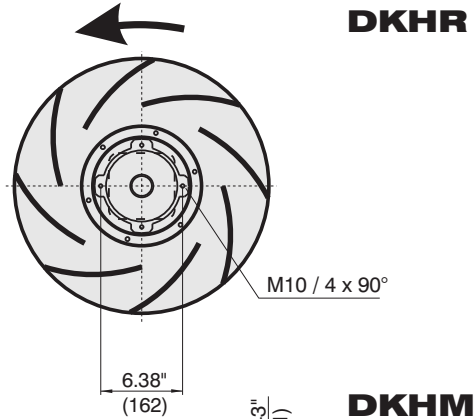
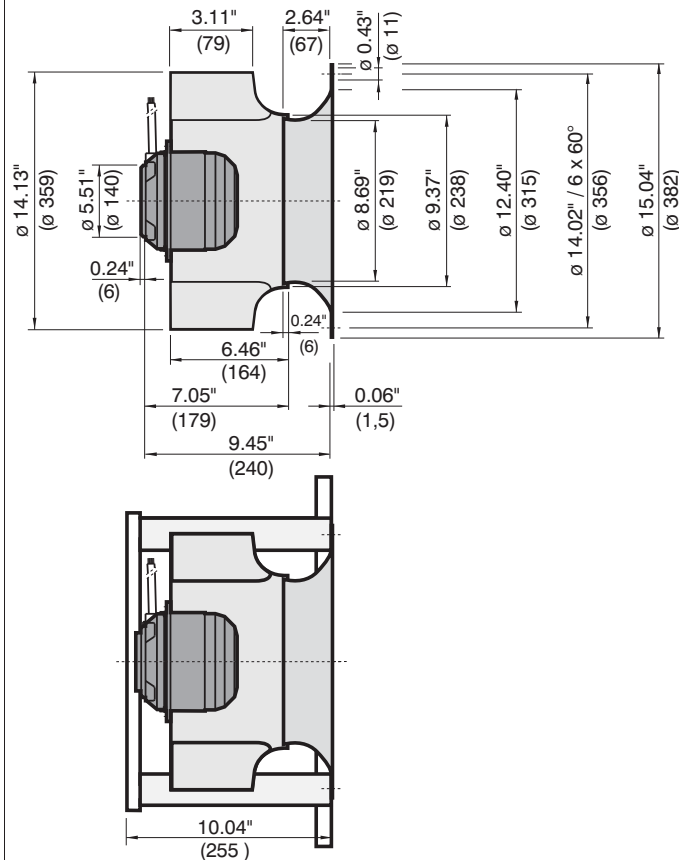


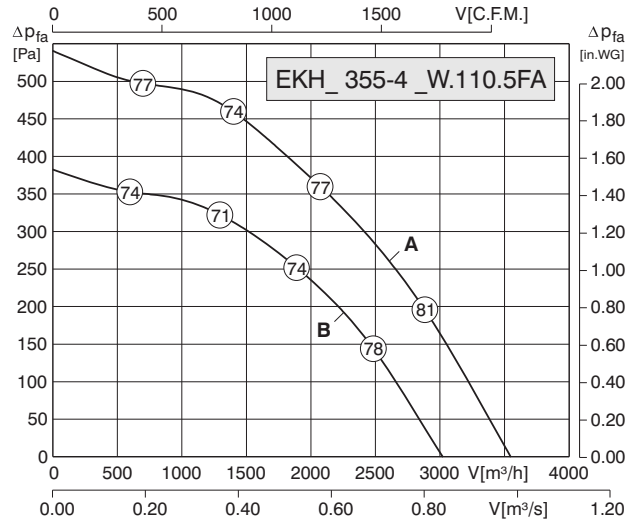
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
3 ~460 Y	60	A	0.32	0.55	1600	140	60	-	-	3.0	54	01.005	5 / 12.5
3 ~230 Δ	60	B	0.29	0.92	1530	158	70	-	-	3.0	54	01.006	5 / 12.5
3 ~400 Y	50	C	0.21	0.48	1370	140	60	-	-	3.0	54	01.005	5 / 12.5



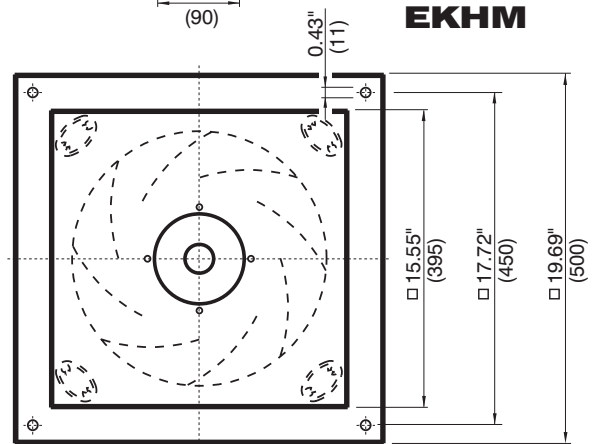
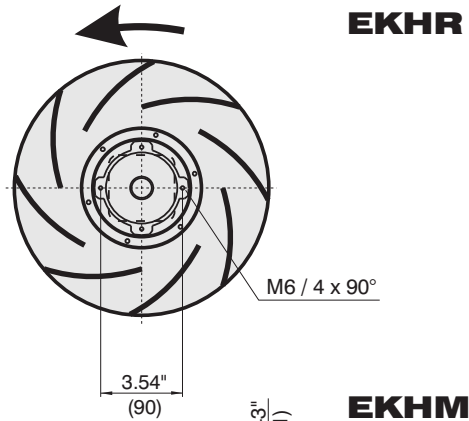
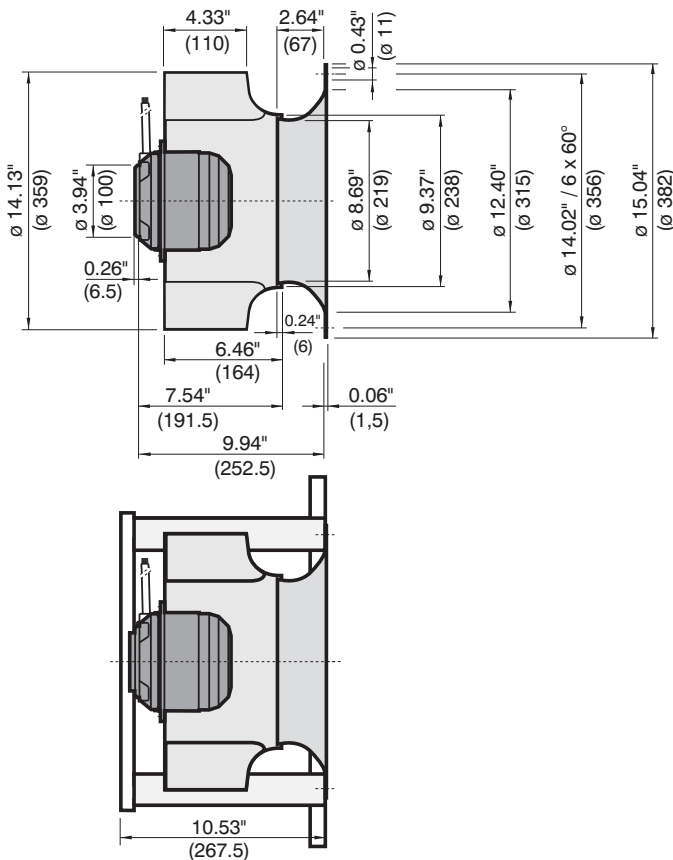


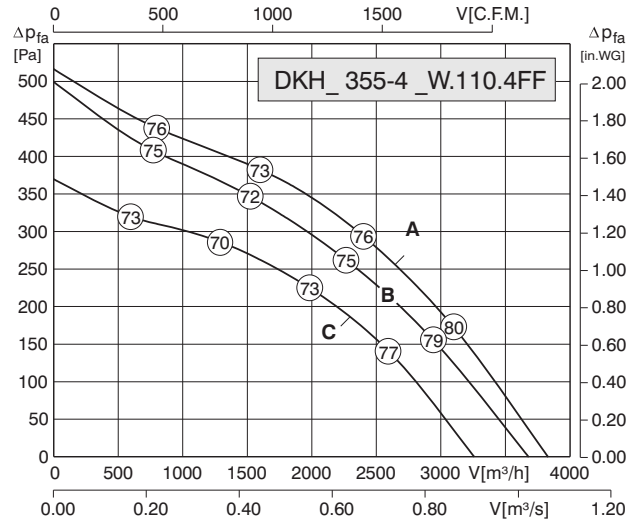
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	2.65	3.85	3260	122	50	-	13	4.1	54	01.005	18 / 27
3 ~230 Δ	60	B	2.45	6.90	3150	122	50	-	10	4.1	54	01.006	18 / 27
3 ~400 Y	50	C	1.60	3.00	2800	158	70	-	23	5.1	54	01.005	18 / 27



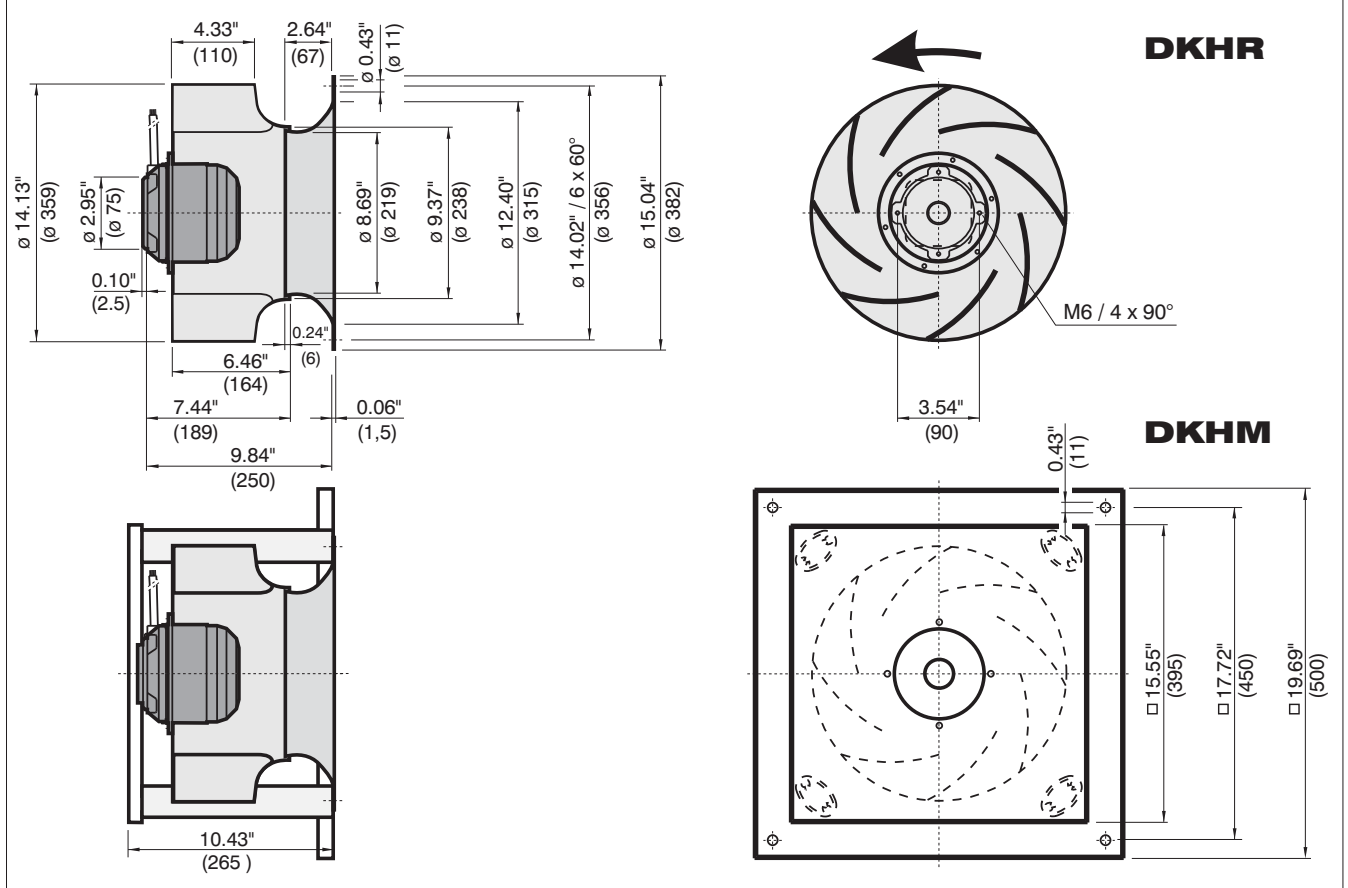


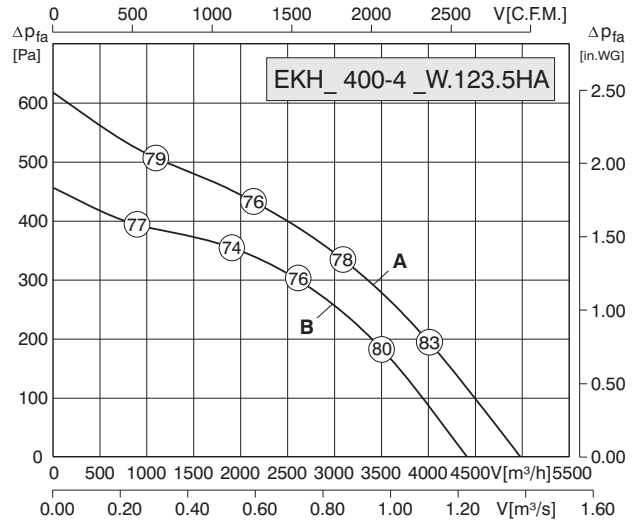
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	0.57	5.00	1640	140	60	40	17	2.2	54	01.024	8 / 16.5
1 ~230	60	A	0.57	2.50	1640	140	60	10	17	2.2	54	01.024	8 / 16.5
1 ~230	50	B	0.40	2.10	1410	140	60	10	22	3.0	54	01.024	8 / 16.5



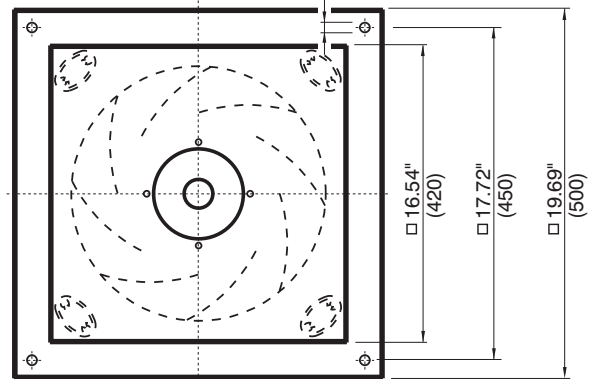
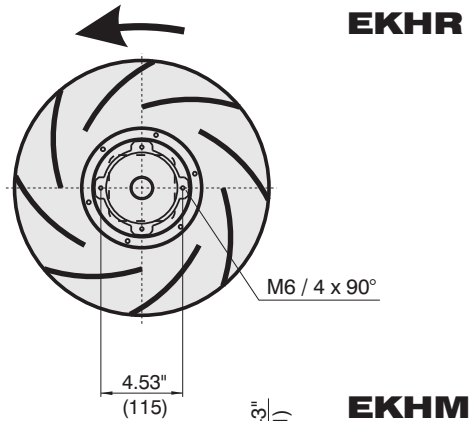
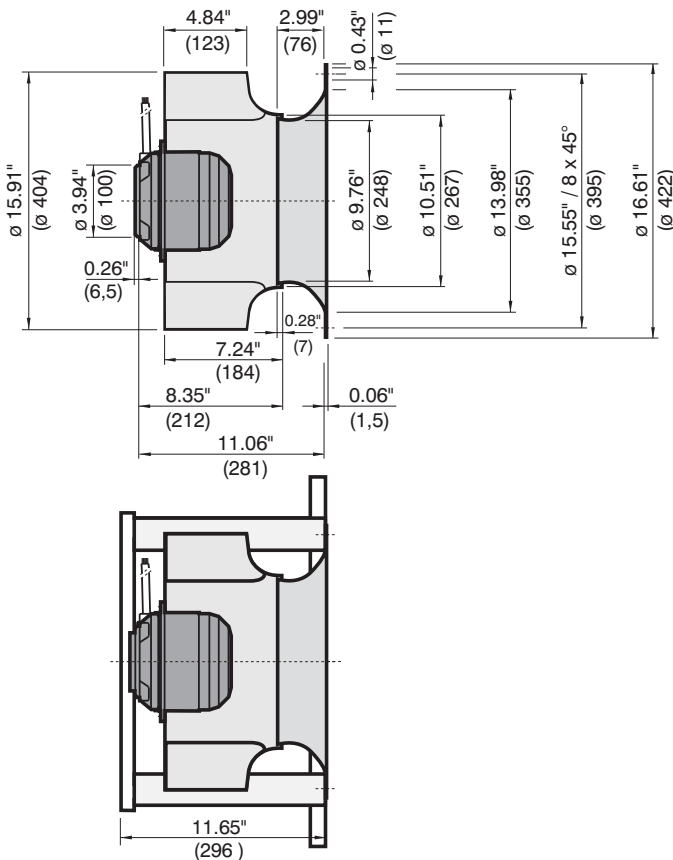


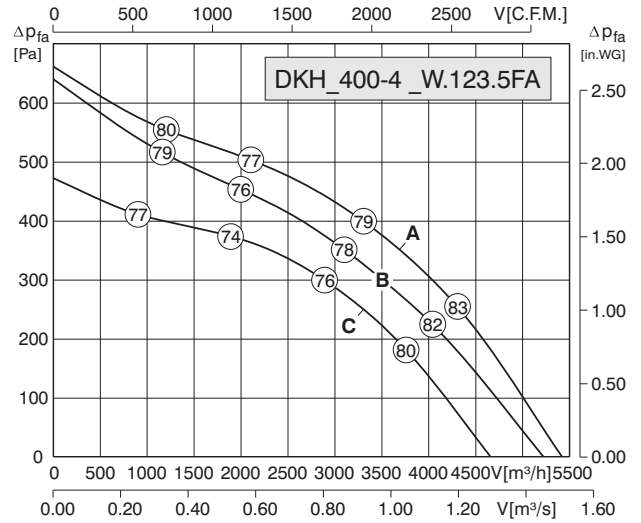
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	★	⊞ [kg]
3 ~460 Y	60	A	0.51	0.82	1540	104	40	-	-	2.5	54	01.005	5.5 / 14
3 ~230 Δ	60	B	0.47	1.40	1420	122	50	-	-	2.5	54	01.006	5.5 / 14
3 ~400 Y	50	C	0.33	0.70	1340	122	50	-	-	2.6	54	01.005	5.5 / 14



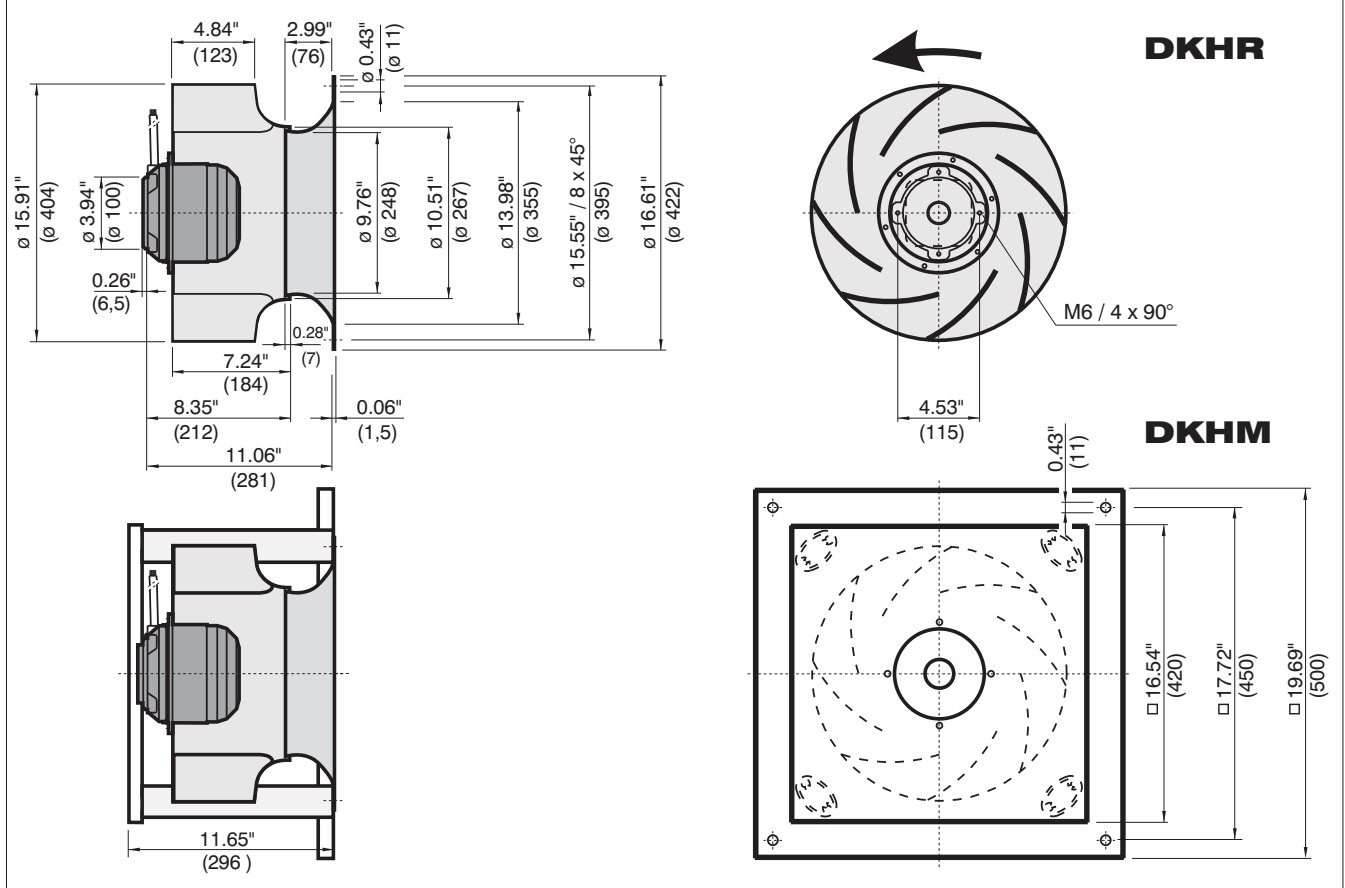


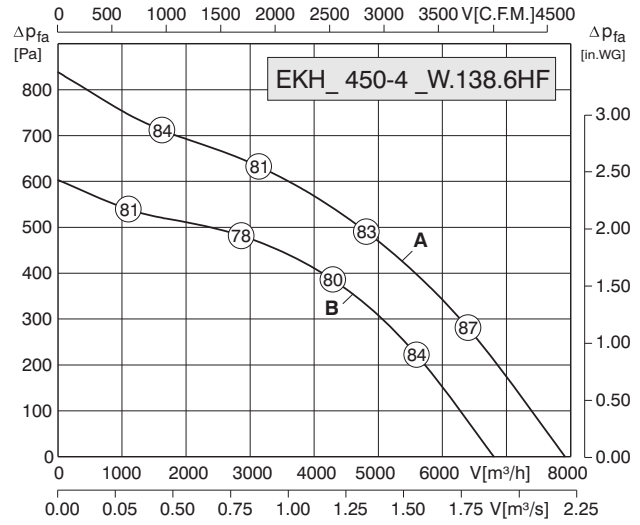
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	0.81	7.00	1460	122	50	50	-	1.8	54	01.024	11 / 20
1 ~230	60	A	0.81	3.50	1460	122	50	14	-	1.8	54	01.024	11 / 20
1 ~230	50	B	0.57	2.70	1320	167	75		-	2.5	54	01.024	11 / 20



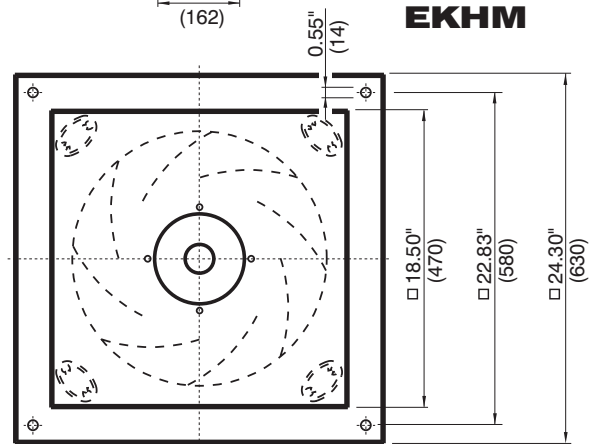
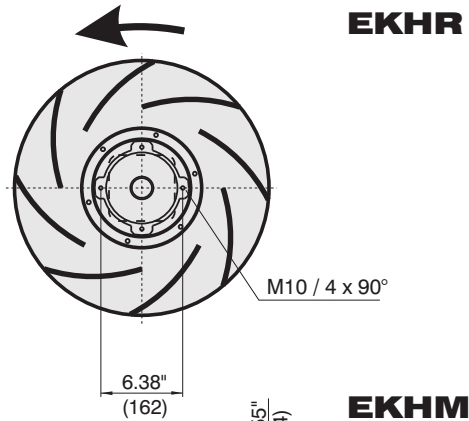
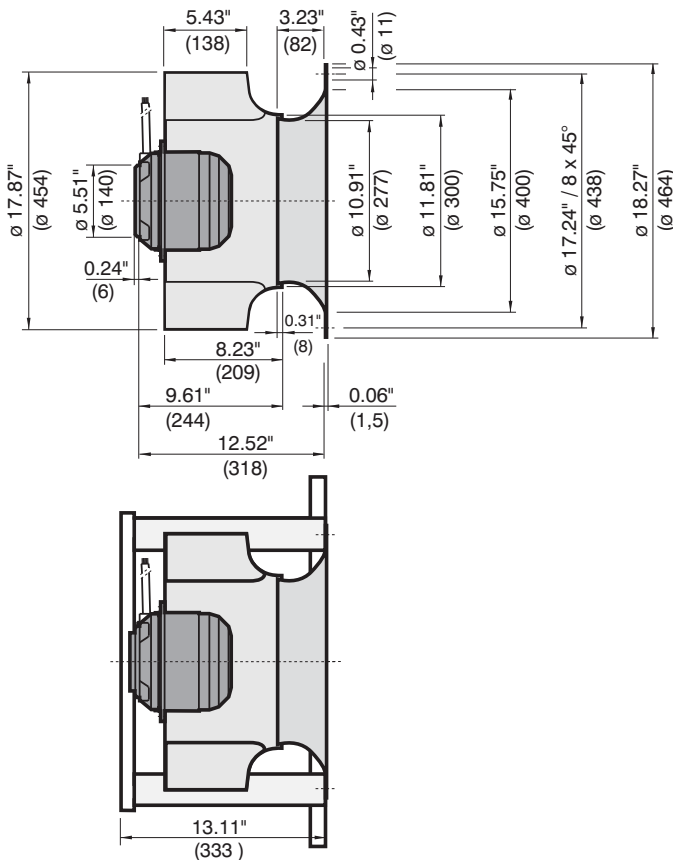


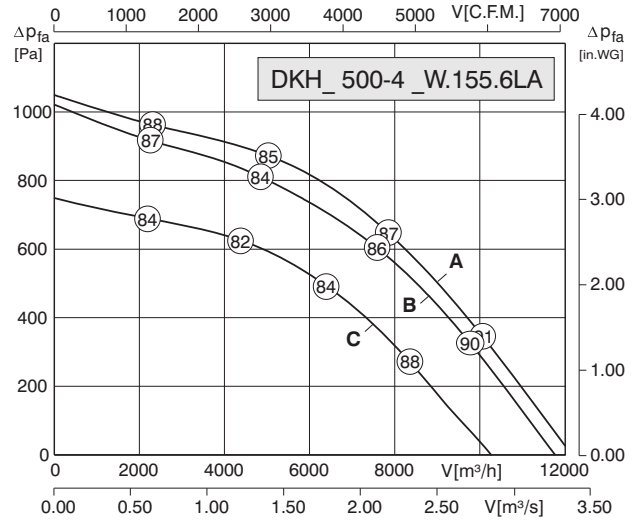
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	0.86	1.45	1530	104	40	-	-	2.7	54	01.005	9 / 18
3 ~230 Δ	60	B	0.77	2.50	1445	104	40	-	-	2.7	54	01.006	9 / 18
3 ~400 Y	50	C	0.54	1.15	1340	140	60	-	-	3.1	54	01.005	9 / 18



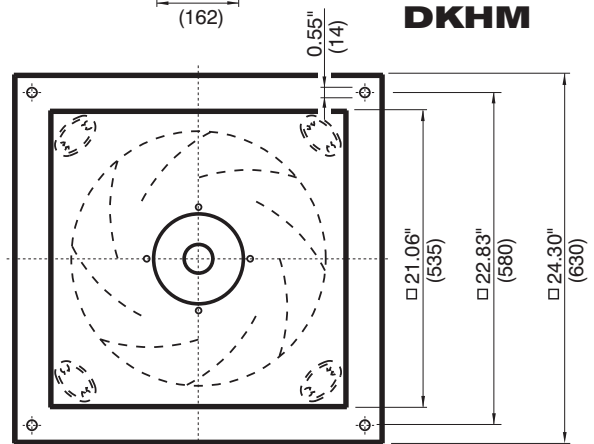
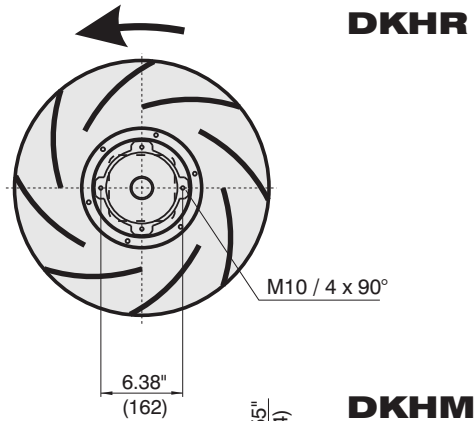
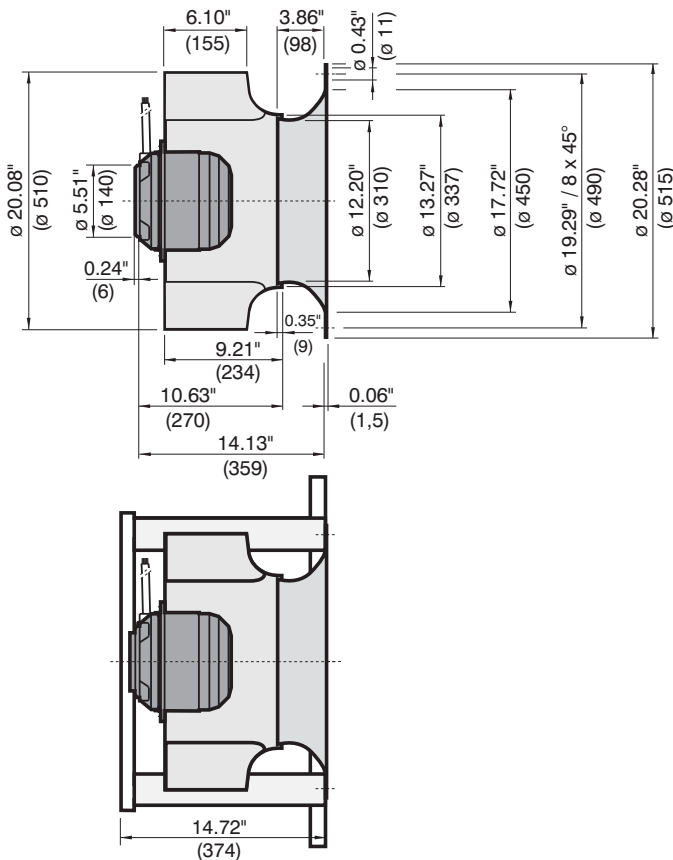


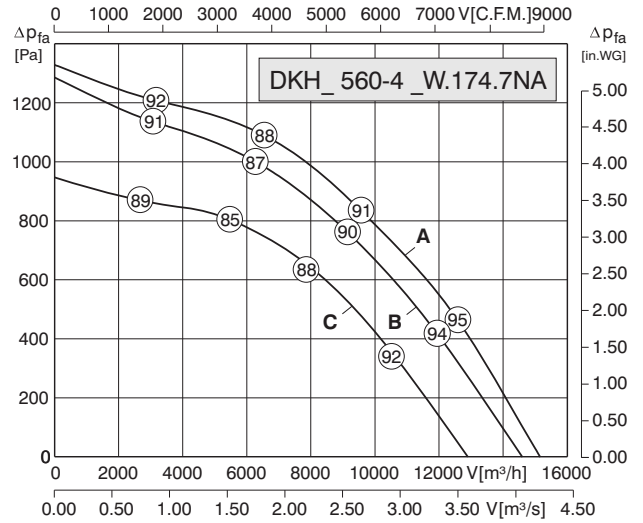
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
1 ~115	60	A	1.57	13.80	1545	122	50	100	7	2.0	54	01.024	21 / 35
1 ~230	60	A	1.57	6.90	1545	122	50	25	7	2.0	54	01.024	21 / 35
1 ~230	50	B	1.10	5.40	1380	149	65	25	29	2.7	54	01.024	21 / 35



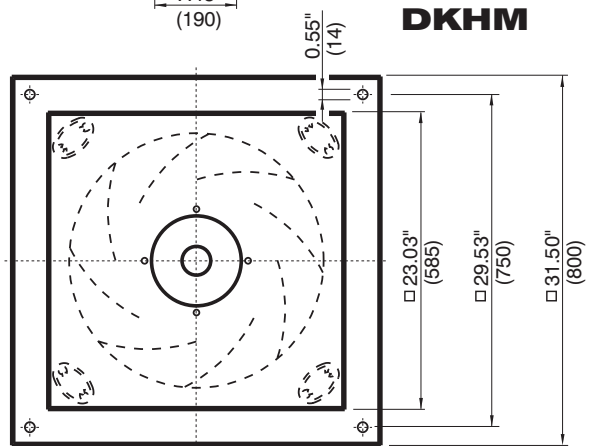
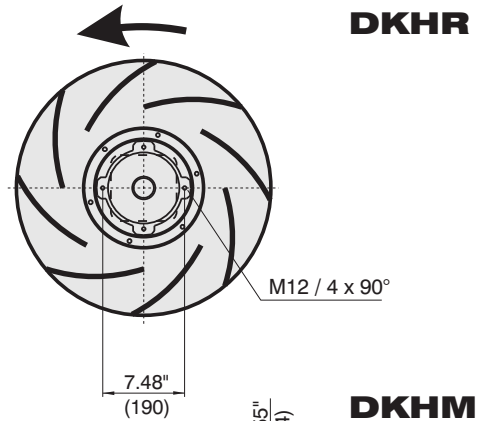
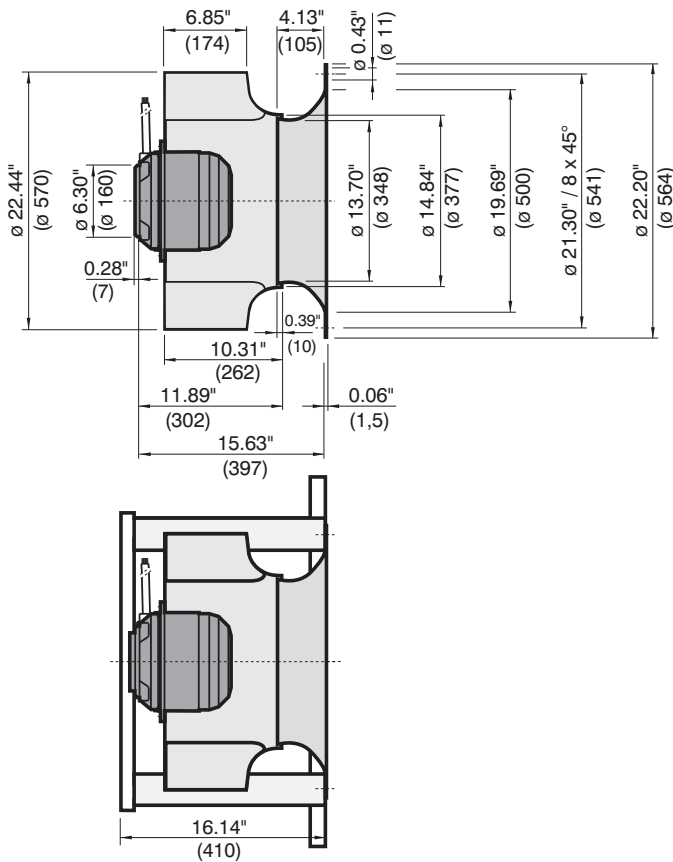


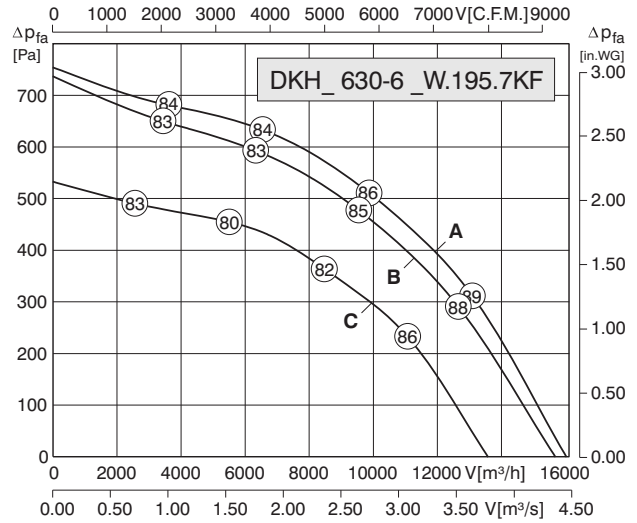
U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
3 ~460 Y	60	A	2.78	4.65	1625	131	55	-	-	4.6	54	01.005	27 / 45.5
3 ~230 Δ	60	B	2.57	8.00	1550	131	55	-	-	4.6	54	01.006	27 / 45.5
3 ~400 Y	50	C	1.72	3.95	1390	158	70	-	-	4.8	54	01.005	27 / 45.5





U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	▲	✱	⊞ [kg]
3 ~460 Y	60	A	4.80	7.20	1630	104	40	-	20	4.2	54	01.005	42/ 68.5
3 ~230 Δ	60	B	4.50	13.30	1520	104	40	-	13	4.2	54	01.006	42/ 68.5
3 ~400 Y	50	C	2.90	5.30	1400	122	50	-	25	4.8	54	01.005	42/ 68.5





U [V]	f [Hz]	Curve	P ₁ [kW]	I _N [A]	n [min ⁻¹]	t _R [°F]	t _R [°C]	C [μF]	ΔI [%]	I _A / I _N	⚠	✳	🔋 [kg]
3 ~460 Y	60	A	2.60	4.30	1090	131	55	-	16	3.9	54	01.005	38.5 / 69
3 ~230 Δ	60	B	2.50	7.90	1050	131	55	-	8	3.9	54	01.006	38.5 / 69
3 ~400 Y	50	C	1.60	3.50	930	158	70	-	-	5.1	54	01.005	38.5 / 69

