

# SHADED POLE

2023

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North Blade Air Refrigeration Engineering B.V designs electric motors and axial fans according to European quality standards. NBARE Specialized in designed external-rotor motor fans, EC fans, shaded pole motors and ECQ motors. We set out with the aim of transferring our 16 years of experience in refrigeration engineering, which started in 2007, to our customers by establishing our own company in 2023.

Whether you are planning a new ventilation concept, or looking for a replacement for existing hardware, our Multiple Airflow Direction system provides customized solutions to your needs, by combining ventilation- and drive technology in a modular manner.

NBARE product range provides cost efficient, adaptable systems with high protection classes and fulfills national and international requirements (ErP2015, CE, UL). Our worldwide operating team is looking forward to support you with fast solutions to your ventilation and drive technology requirements.

Our products are produced in first-class automatic production lines in accordance with ISO9001:2015 quality standards. Its quality is guaranteed.

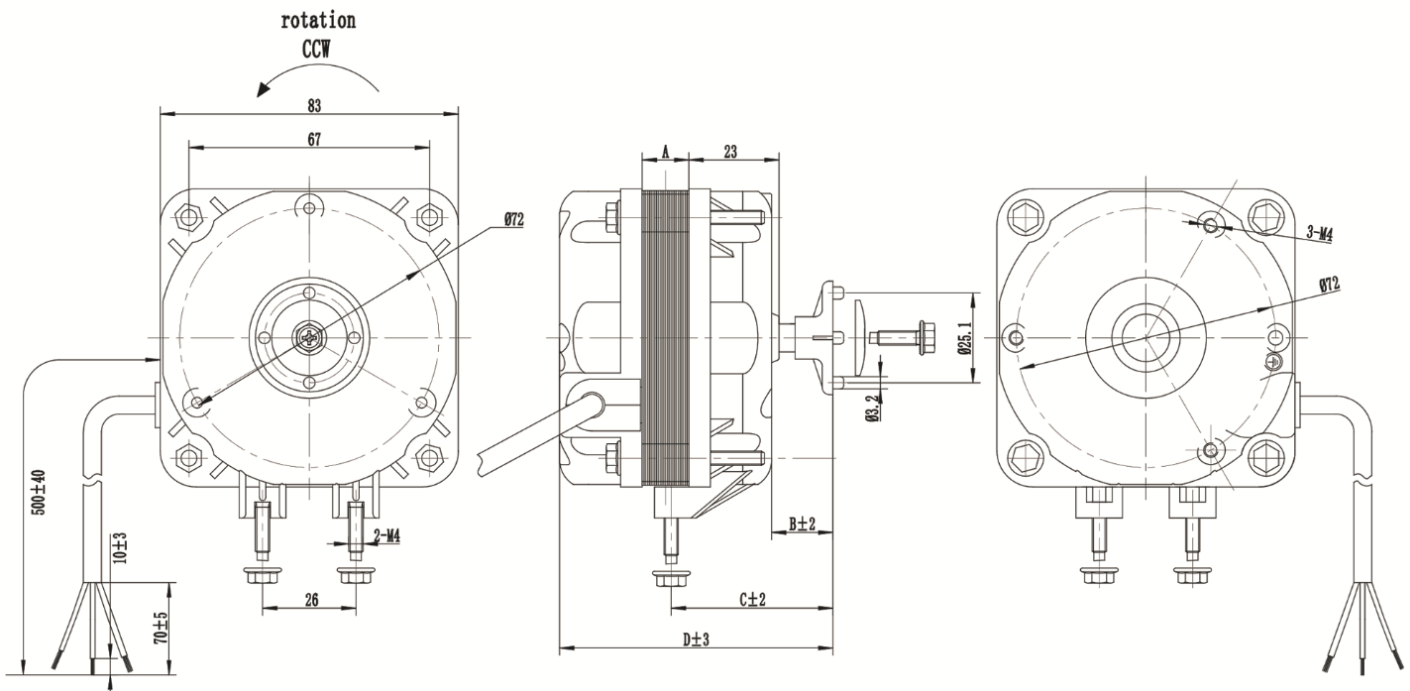
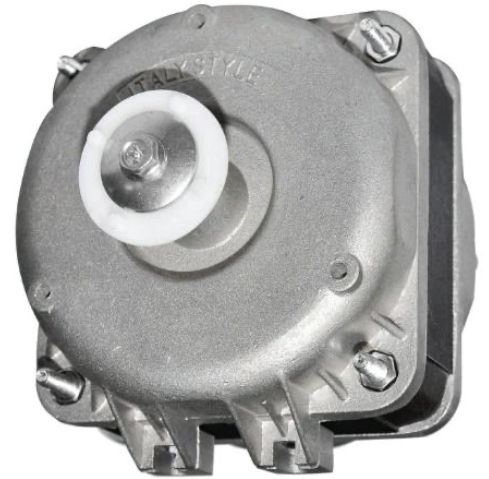
NBARE offers:

- high efficiency
- high protection classes
- low noise levels
- flexible air flow direction
- high durability
- special corrosion-resistant materials

Note: Performance curve is tested with our wall plate.

## SHADED POLE MOTORS

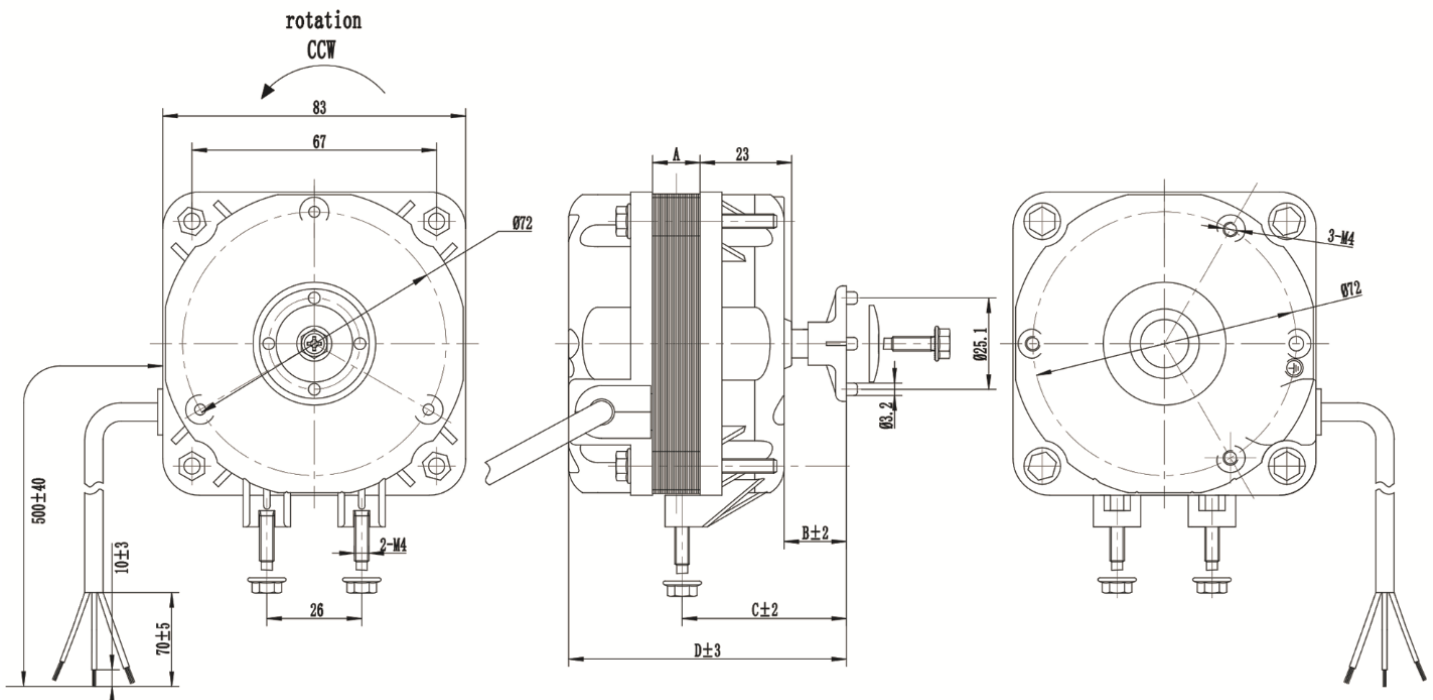
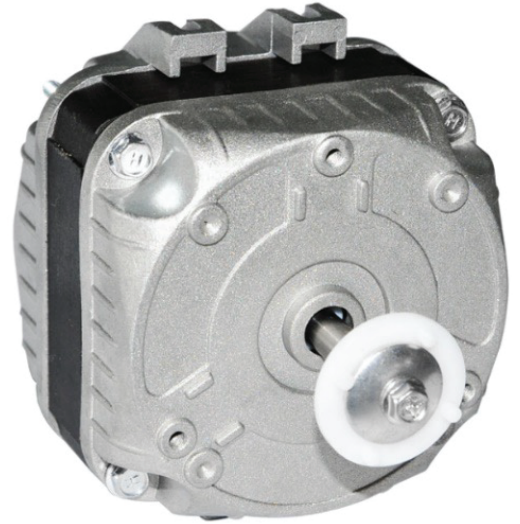
- Suitable for the refrigeration and industrial ventilation,
- Voltage/Frequency of 220-240V/50-60Hz or 110-120V/60Hz,
- Output power is from 5W to 34W,
- Protection class IP42,
- Applicable environment temperature of the motor is from -30C to +60C,
- Average working life of the motors is over 20.000 hours,



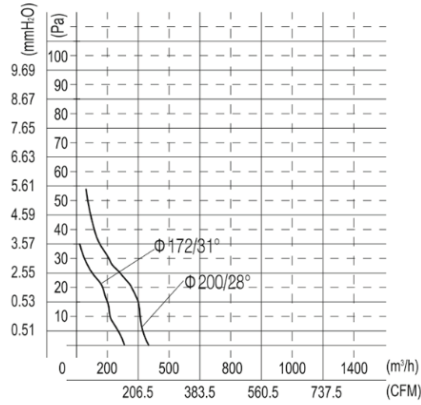
Model	Volt (V)	Hz	Out/In Watt (W)	Insulation Class	RPM min-1	A mm	B mm	C mm	D mm	Certification
NB5-13-26	220-240	50/60	5/33	F	1300	13	16	44	75	CE, VDE
NB10-20-26	220-240	50/60	10/40	F	1300	19	20	45	85.5	CE, VDE
NB16-25-26	220-240	50/60	16/70	F	1300	25	22	50	93.4	CE, VDE
NB18-30-26	220-240	50/60	18/75	F	1300	30	23	51	95	CE, VDE
NB25-40-26	220-240	50/60	25/100	F	1300	40	25	53	111.4	CE, VDE
NB34-45-26	220-240	50/60	34/120	F	1300	45	30	58	122	CE, VDE

## SHADED POLE MOTORS

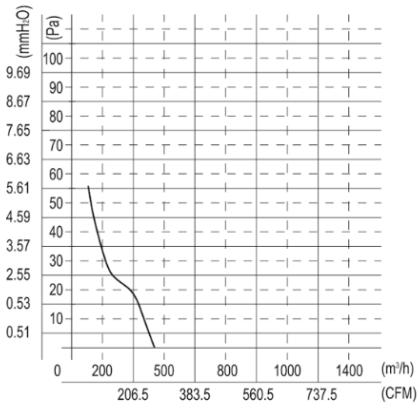
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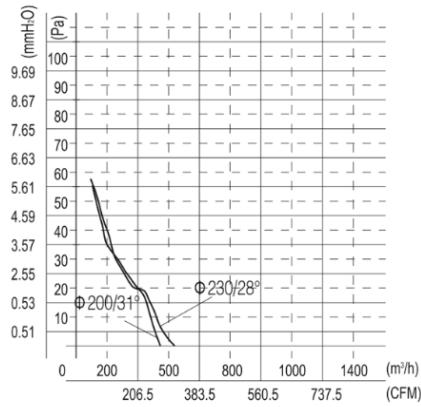
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NB5-13-26	220-240	50/60	5/33	F	1300	13	13	46	75	CE, VDE
NB10-20-26	220-240	50/60	10/40	F	1300	19.5	13.5	53	84	CE, VDE
NB16-25-26	220-240	50/60	16/70	F	1300	25	20	48.5	96	CE, VDE
NB18-30-26	220-240	50/60	18/75	F	1300	30	20	53	106	CE, VDE
NB25-40-26	220-240	50/60	25/100	F	1300	40	22	56.5	114	CE, VDE
NB34-45-26	220-240	50/60	34/120	F	1300	45	26.5	58.5	124.5	CE, VDE



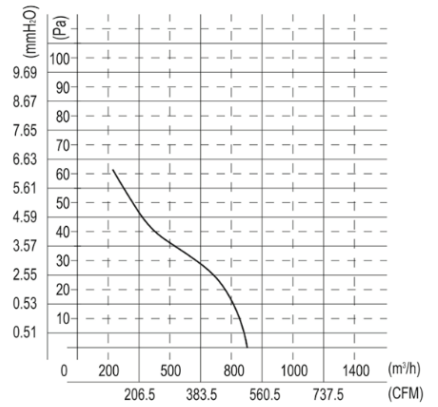
5-13 50Hz Air Flow



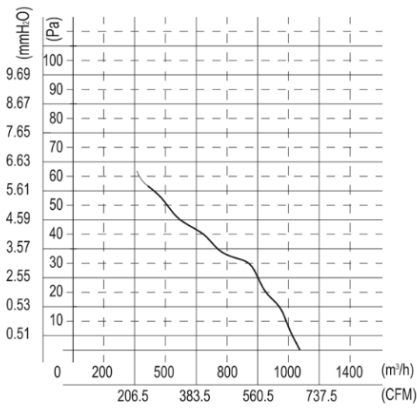
7-20 50Hz Ø200/31° Air Flow



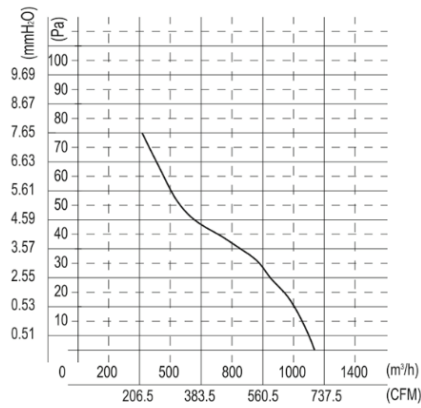
10-20 50Hz Air Flow



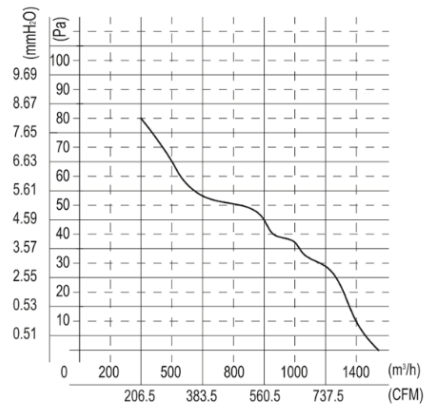
16-25 50Hz Ø254/28° Air Flow



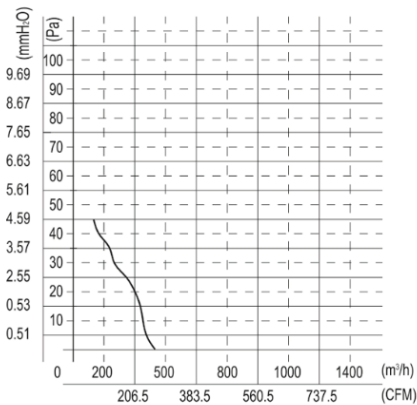
18-30 50Hz Ø300/22° Air Flow



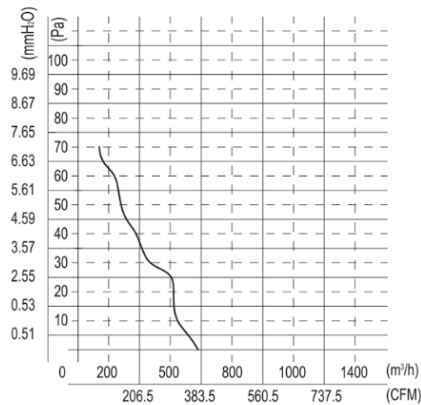
25-40 50Hz Ø300/25° Air Flow



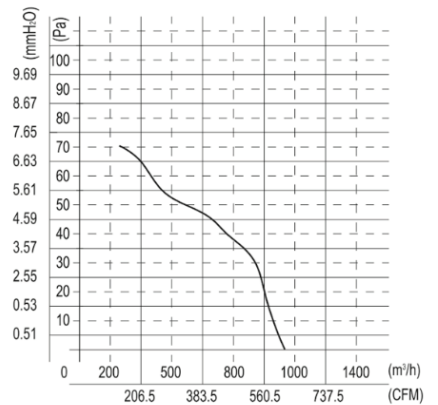
34-45 50Hz Ø300/28° Air Flow



6-13 60Hz Ø200/28° Air Flow



10-20 60Hz Ø230/28° Air Flow



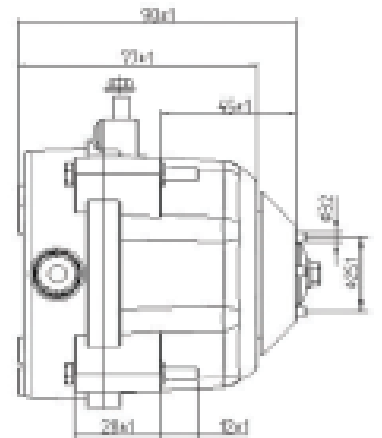
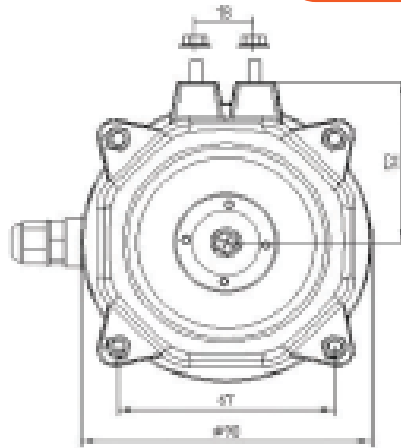
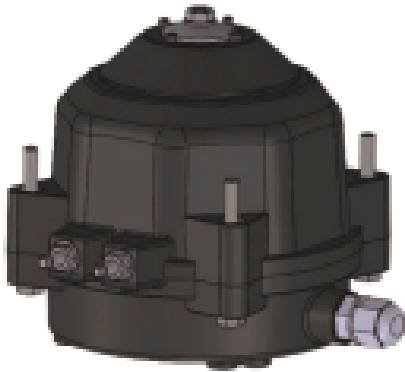
18-25 60Hz Ø254/28° Air Flow





# EC FAN MOTORS

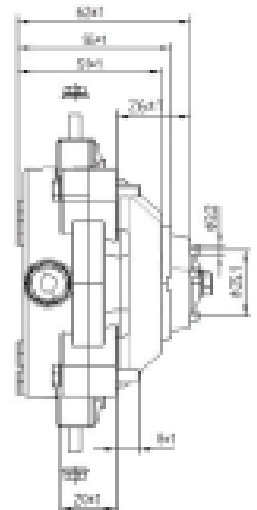
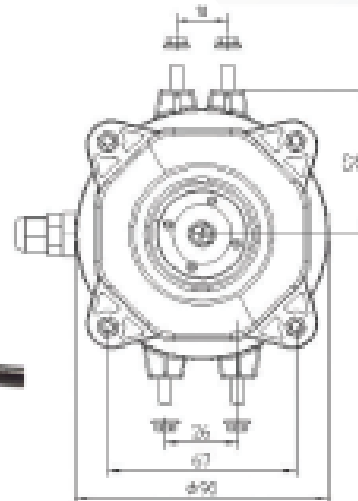
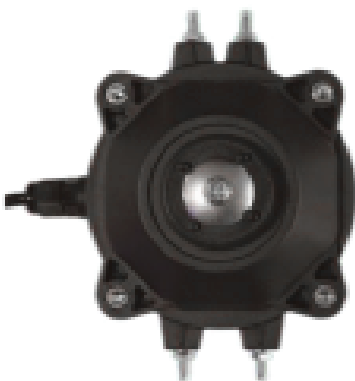
## MODEL: NBEC7120A



LOAD	RPM	db	mm/s	W	%
250 28°	300-2300	43.2	2.9	25	63

LOAD/SPEED	200mm 28°	blade 34°	230mm 28°	blade 34°	250mm 28°	blade 34°
1300RPM	√	√	√	√	√	×
1500RPM	√	√	√	×	×	×
1800RPM	√	×	×	×	×	×

## MODEL: NBEC4810



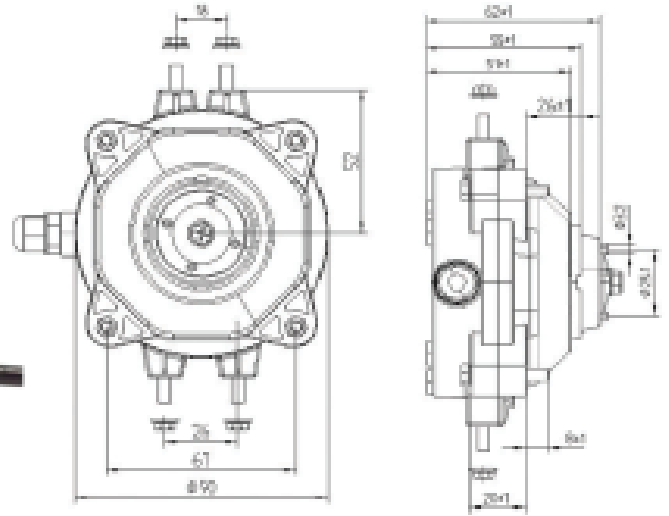
LOAD	RPM	db	mm/s	W	%
230 28°	300-1800	38.8	1.1	15	70

LOAD/SPEED	200mm	blade	230mm	blade
	28°	34°	28°	34°
1300RPM	√	√	√	×
1500RPM	√	√	√	×
1800RPM	√	×	×	×



# EC FAN MOTORS

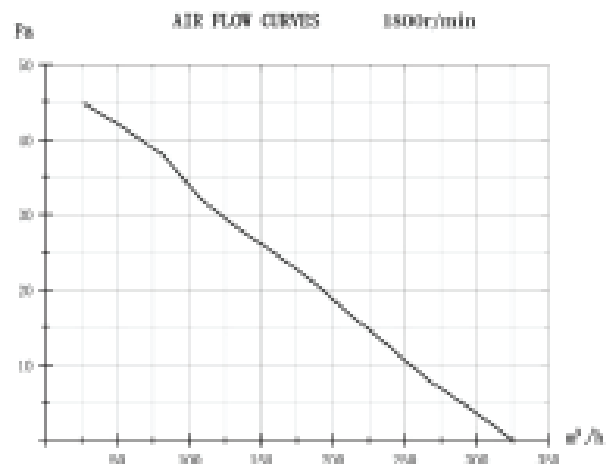
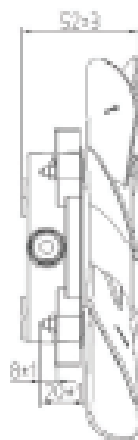
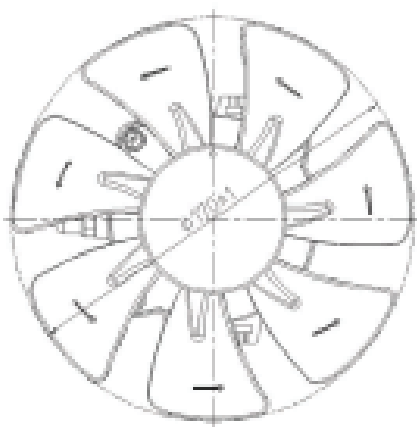
## MODEL: NBEC4810PRO



LOAD	RPM	db	mm/s	W	%
230 34°	300~1800	38.8	1.1	18	73

LOAD/SPEED	200mm blade		230mm blade	
	28°	34°	28°	34°
1300RPM	√	√	√	√
1500RPM	√	√	√	×
1800RPM	√	×	×	×

## MODEL: NBEC4810-R170



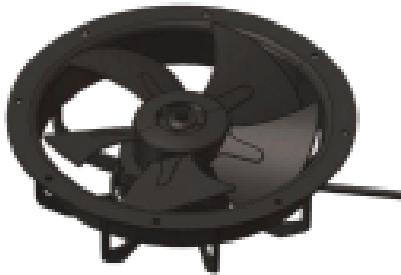
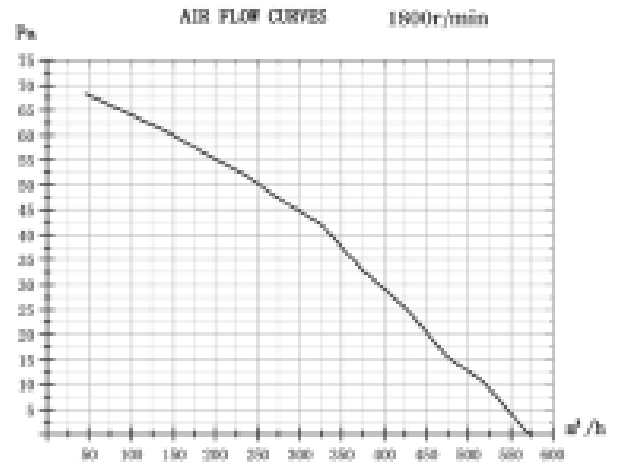
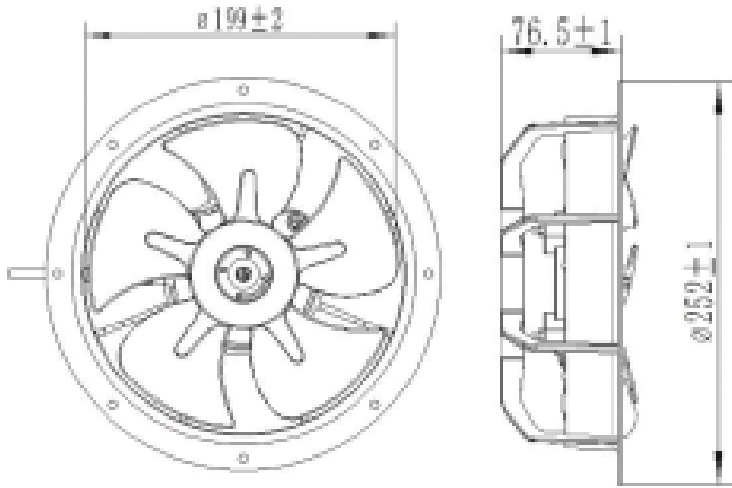
LOAD	RPM	db	mm/s	W	%
170	300~1800	39.5	1.3	15	68





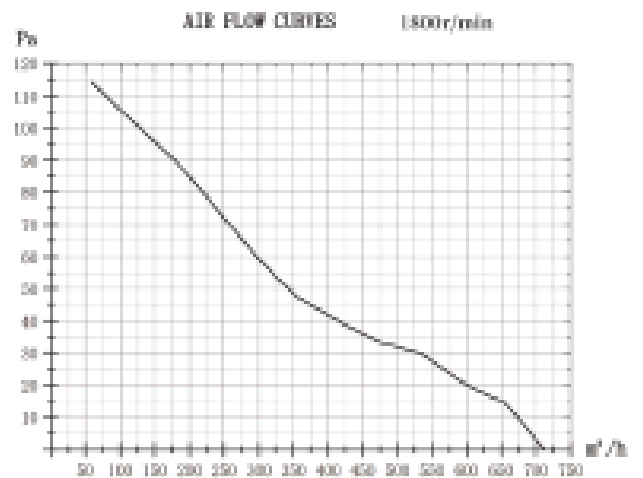
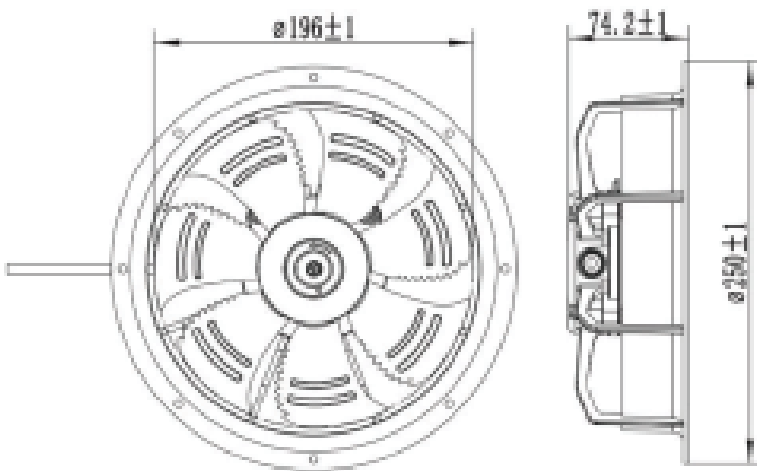
# EC FAN MOTORS

## MODEL: NBEC6115-R200-5



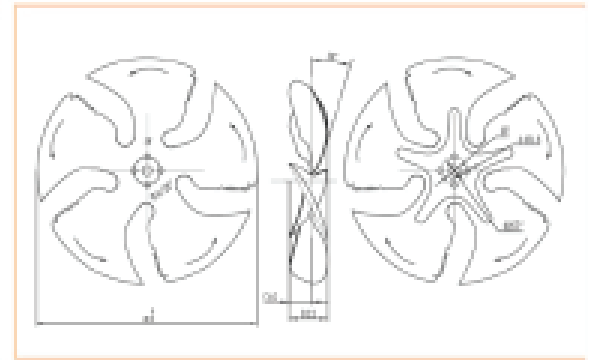
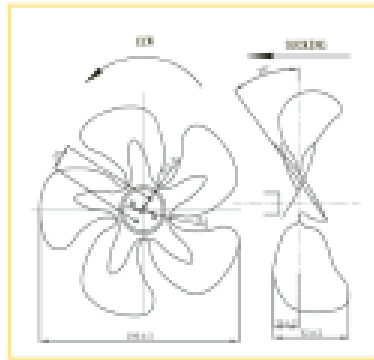
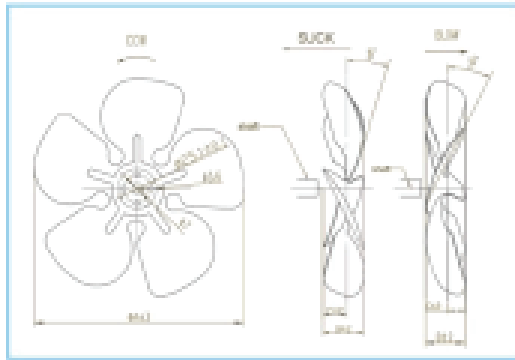
LOAD	RPM	db	mm/s	W	%
200 34°	300~2200	40.8	1.2	30	72

## MODEL: NBEC6115-R200-7



LOAD	RPM	db	mm/s	W	%
200 42°	300~2200	41	1.2	30	72

# FAN MOTOR BLADE

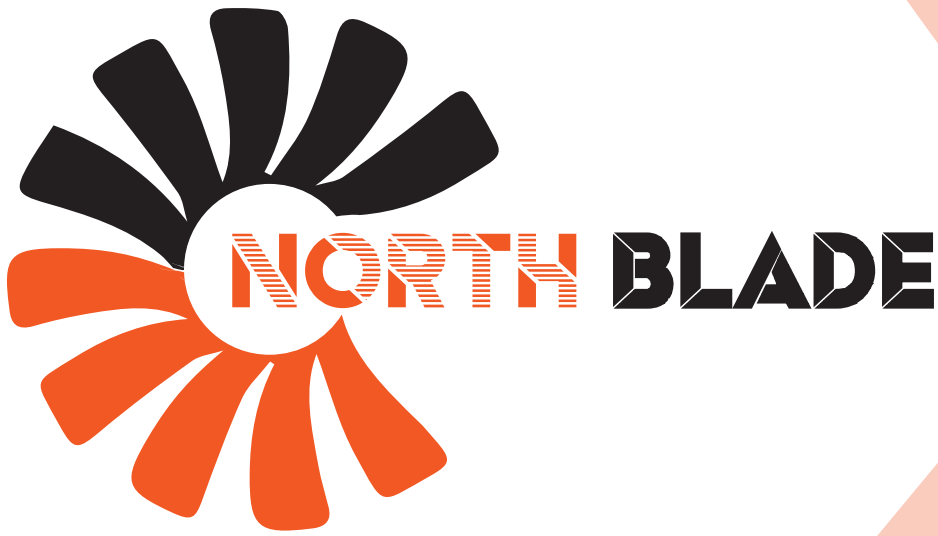


FAN TYPE	A°		19°		22°		25°		28°		31°		34°		B
	A	B/C	B	C	B	C	B	C	B	C	B	C	B	C	
φ 154	154		24	13	27	14	31	16	34	17	37	19	40	21	0.8±0.03
φ 172	170		25	13	28	15	31	16	35	18	40	20	42	21	0.8±0.03
φ 200	198		27	14	30	16	33	17	37	19	41	21	44	23	0.8±0.03
φ 230	230		31	15	33	16	37	19	41	21	43	22	45	23	0.8±0.03
φ 250	248		31	15	34	17	37	19	40	21	43	22	45	23	0.8±0.03
φ 254	254		32	15	35	17	38	19	41	21	44	22	47	23	0.8±0.03
φ 300	298		31	16	35	17	41	22	44	23	48	25	52	27	1±0.03

TEETH PLASTIC BLADE

Model	A	B	C	
Φ170	170	37	21	28°
Φ200	200	40/45	21/22	28°,34°
Φ230	230	45	23	28°
Φ250	250	45	23	28°

FAN TYPE	5-13		7-20		10-20		16-25		18-30		25-40		34-45	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B
φ 154	28	31												
φ 172	28	31												
φ 200	28		28	31	28	31	31							
φ 230			20		20									
φ 250						22	28		28	31				
φ 254							25	28	31	31				
φ 300								22	22	25	25	25	25	28



Regus-Schiphol Airport Tetra  
Siriusdreef 17 2132WT Hoofddorp  
Amsterdam / Netherlands



+31 23 744 0235



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