



MOTORS & FANS



Professional  
Cooling Fan  
Manufacturer

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EC Motors  
Shaded Pole Motors

[www.fanlab.com](http://www.fanlab.com)

## COMPANY PROFILE

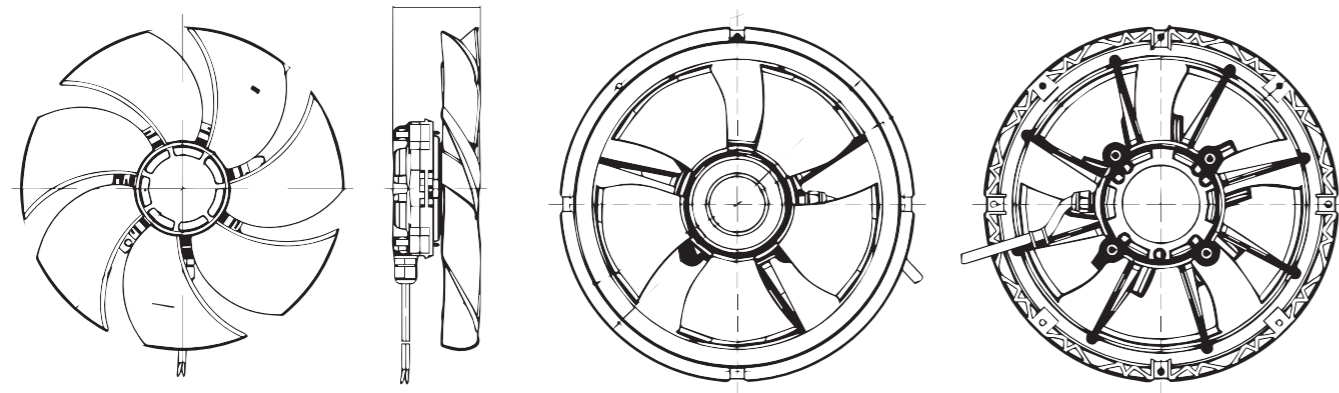
### ABOUT US

Fanlab is a professional manufacturer with 15 years of experience in the refrigeration market, specializing in shaded pole motors, EC motors, and axial fans.

The company's goal is to meet all customer requirements through a high level of customization.

Thanks to dedicated investments in high-tech solutions, Fanlab is able to study, develop, and implement continuous improvements to its products.

This approach allows the company to ensure high performance, reliability, and efficiency across a wide range of applications.



## OUR CATALOGUES



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## FANLAB CODIFICATION Model Numbering System

### SME Motor

Type	Power output	Speed Type	Foot Installation	Nut Installation	Rated Voltage	Motor Speed	Customization
FL-SME	108	A	A	A	1	DA	*

**SME=** Electronically Commutated Motor  
**108=** 5W(out)  
**112=** 12W(out)  
**120=** 25W(out)  
**A=** Single speed  
**B=** Reverse on start  
**C=** Reverse on demand  
**D=** 2 Speed  
**E=** Vari-speed  
**A=** With screw  
**B=** Without screw  
**D=** 3 provided  
**E=** 4 provided  
**H=** 7 provided  
**0=** 24V DC  
**1=** 100~120V  
**2=** 220~240V  
 On request  
 e.g. accesories, cable lenght, connector

## SME series

### EC Motors



RoHS CE DfE cULus

#### ELECTRONICALLY COMMUTATED MOTORS

SME series is the new motors generation, with a higher efficiency than shaded pole motors ensuring energy saving up to 80% of power consumption.

All models are certified and updated for use in A2L and A3 environments, such as commercial cooling system, supermarket refrigerated counters, cold rooms, ice cream machines and small condensing applications, where explosive gases might be generated.

## SME serie



### MAIN FEATURES

Voltage	100 ~120 V - 50/60Hz 220 ~240 V - 50/60Hz 24V DC (on request)
Motor Cover	Thermoplastic
Motor Speed	500 - 2300 rpm
Insulation class	B ("F" on request)
Coupling Motor-Fan Blade	Diameter from 154 to 300 mm
Rotation direction	Single rotation CCW Reverse on start Reverse on demand
Speed	Single speed, 2 Speeds, Reversible, 0-10 Vdc, Vari-speed
Operating temperature	-30°C ~ 50°C
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 65
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certifications	CE, VDE, UL
Motor Protection	Via Electronics
Standard	EN 60335-1 - EN 60335-2-24 - EN 60335-2-89

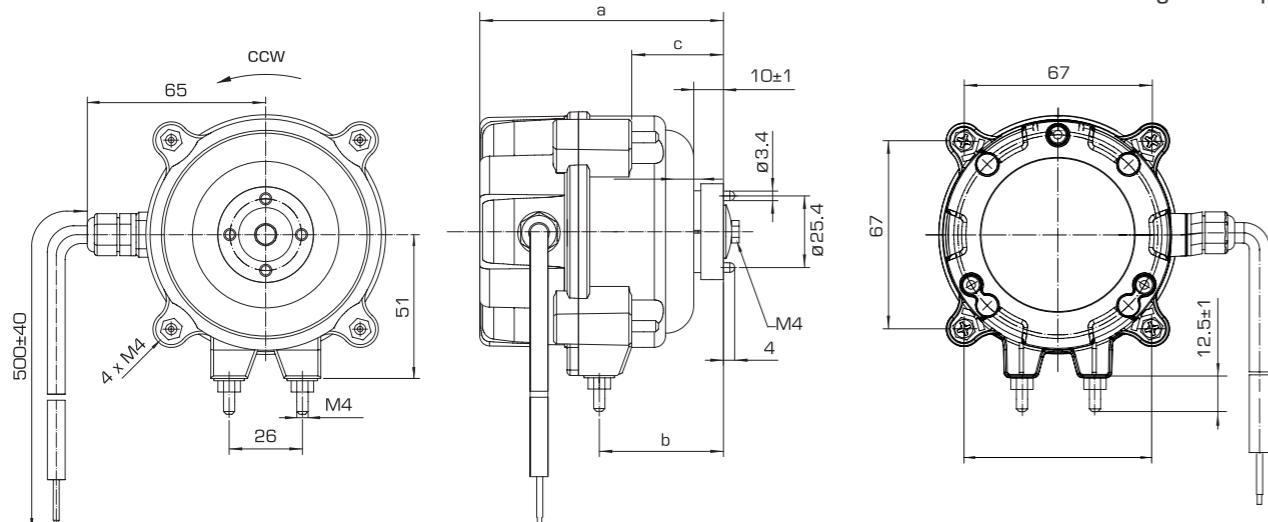
### Specifications

Nominal data		Voltage	Frequency	Speed	Output capacity	Dimensions		
Type	Features	V	Hz	rpm	W	a	b	c
FL-SME108	Single Speed CW&CCW 2 Speeds Vari-speed	100 ~120 V 220 ~240 V	50/60 Hz	500 ~ 2300	5	83	43.5	32.5
	Vari-speed	DC 24 V	—	500 ~ 2300	15			
FL-SME112	Single Speed CW&CCW 2 Speeds Vari-speed	100 ~120 V 220 ~240 V	50/60 Hz	500 ~ 2300	15	87	43.5	32.5
	Vari-speed	DC 24 V	—	500 ~ 2300	15			
FL-SME120	Single Speed CW&CCW 2 Speeds Vari-speed	100 ~120 V 220 ~240 V	50/60 Hz	500 ~ 2300	22	95	43.5	32.5
	Vari-speed	DC 24 V	—	500 ~ 2300	20			

### Technical Drawing

Unit:mm

Other Mechanical design on request



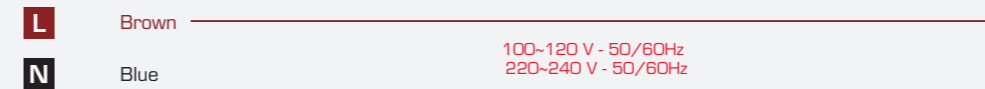
1. Specifications might change without notice;

2. Special design on request

### Connection Diagram

#### Single Speed

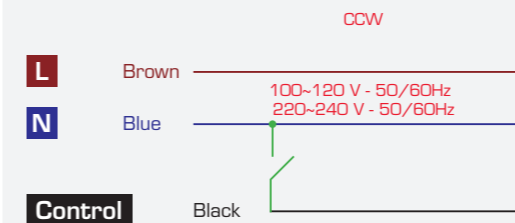
The standard version maintains a constant speed control pre-set. This feature helps the cooling system work properly and avoiding noise generated by the fluctuation of motor speed.



Standard

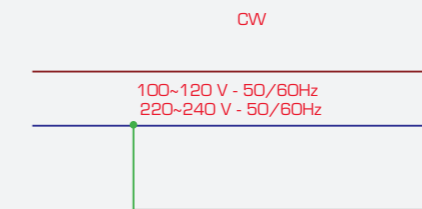
#### Reverse on Start

At power up, the motor runs clockwise, there is no extra signal control needed to achieve this function. This function is used to blow dust away from the heat exchanger to make the refrigeration system more efficient.



#### Reverse on Demand

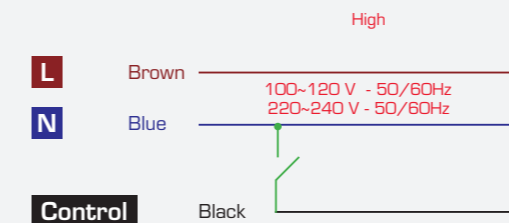
This function allows to determine the time and duration of reverse running. E.g. during defrost, the motor runs clockwise to blow dust or ice away.



Reversible

#### Two Speeds

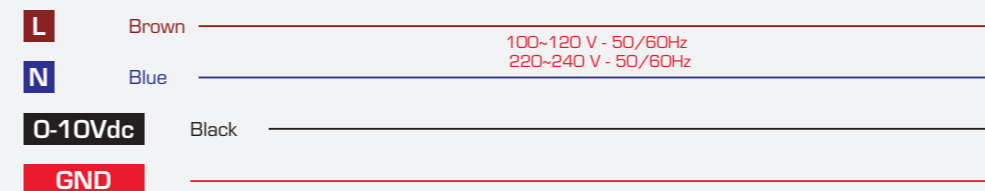
SME motors can run both in high-speed and low-speed through pre-set programmed by supplier, this function is very useful where daytime and nighttime are required, thus to save more energy and reduce the noise.



2 Speeds

#### 0-10 Vdc Vari-speed

SME motors step-less full control of the speed between min and max pre-set range (0-10Vdc)



Vari-speed

1. Specifications might change without notice;

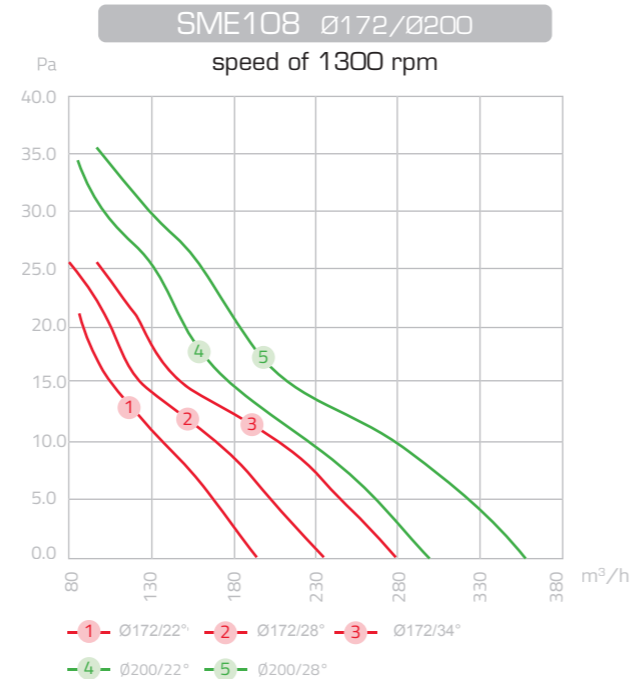
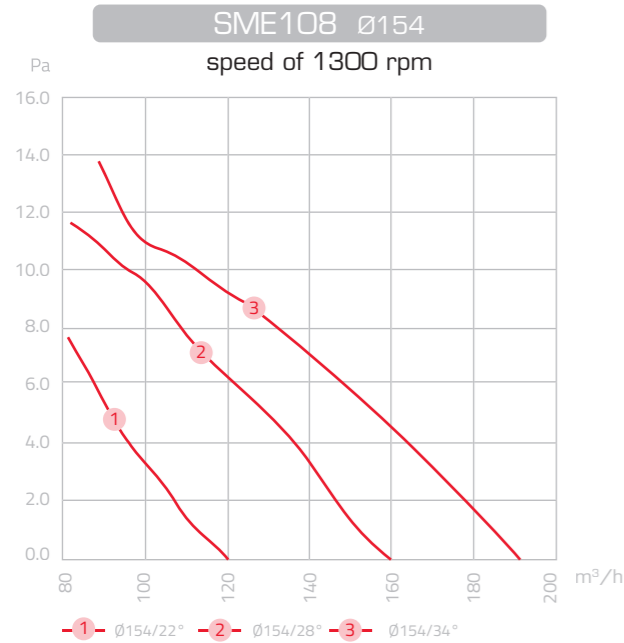
2. Special design on request

**Coupling motor-fan blade**

Motor Speed	ALLUMINIUM FAN BLADE					
	Ø 154	Ø 172	Ø 200	Ø 230	Ø 254	Ø 300
1300 rpm	22°	22°	22°	22°	22°	22°
	25°	25°	25°	25°	25°	25°
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
1450 rpm	22°	22°	22°	22°	22°	22°
	25°	25°	25°	25°	25°	
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
1550 rpm	22°	22°	22°	22°	22°	
	25°	25°	25°	25°	25°	
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
1800 rpm	22°	22°	22°	22°	22°	
	25°	25°	25°	25°	25°	
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	

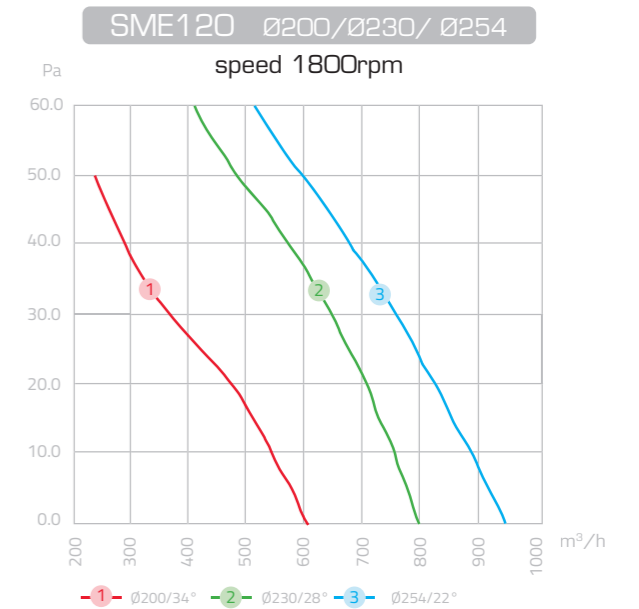
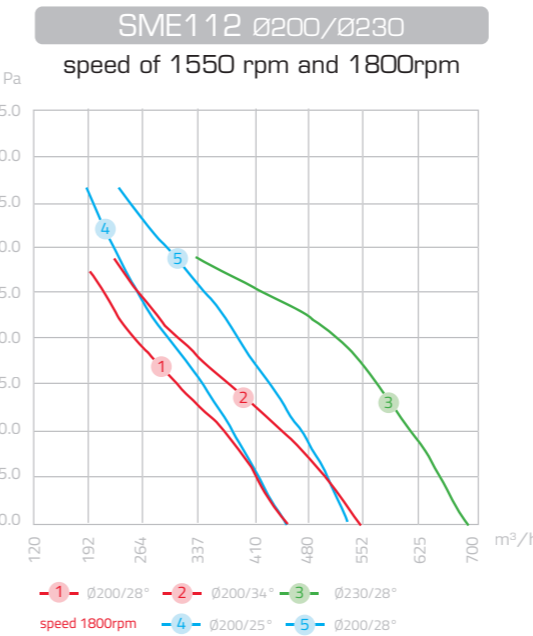
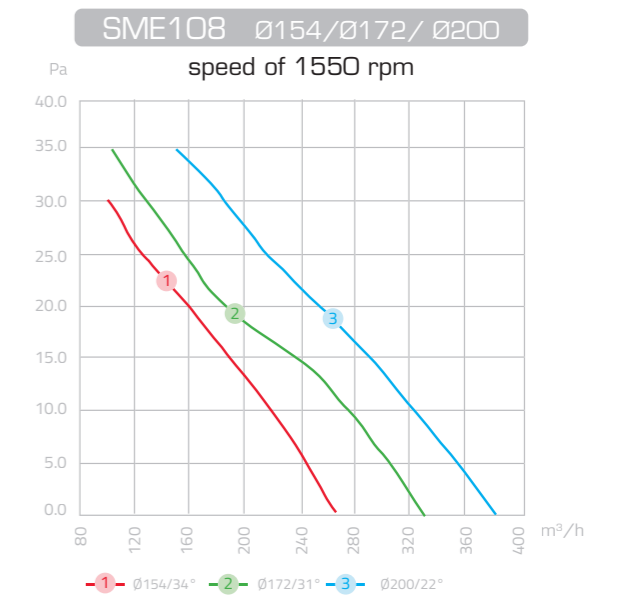
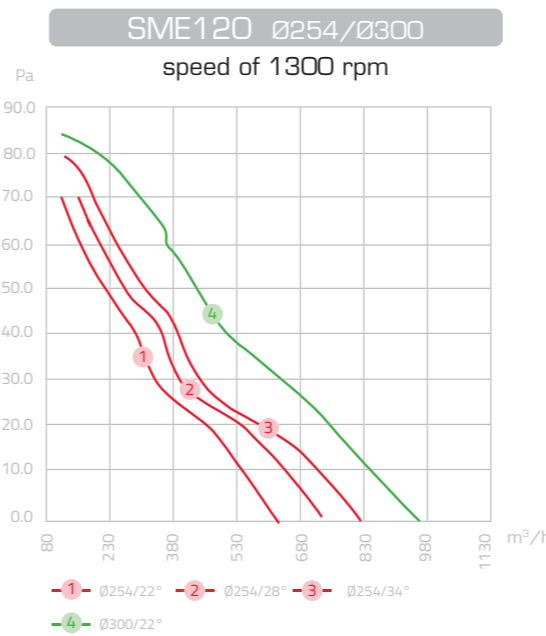
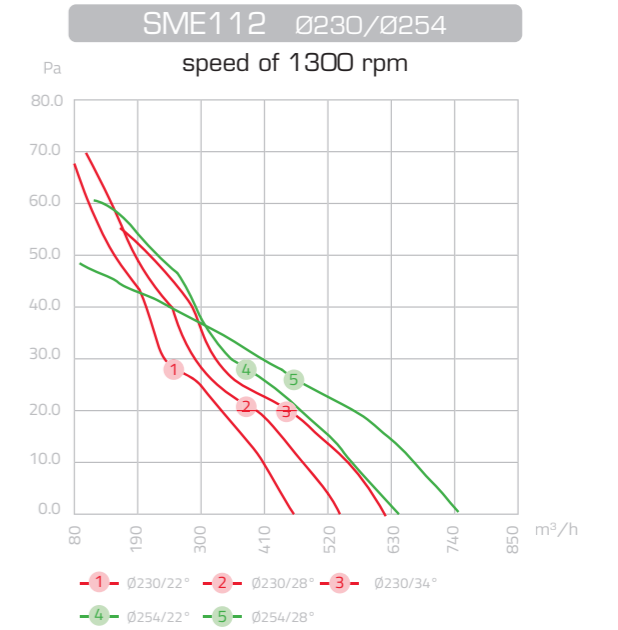
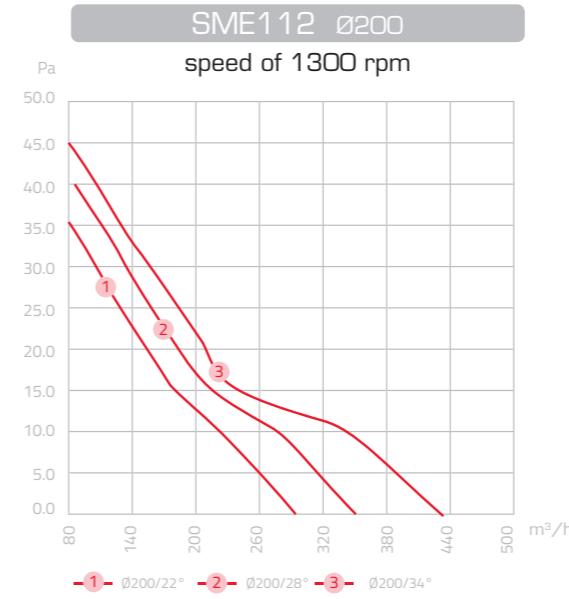
SME108
SME112
SME120

**Airflow Curve**



1. Specifications might change without notice;

2. Special design on request



1. Specifications might change without notice;

2. Special design on request



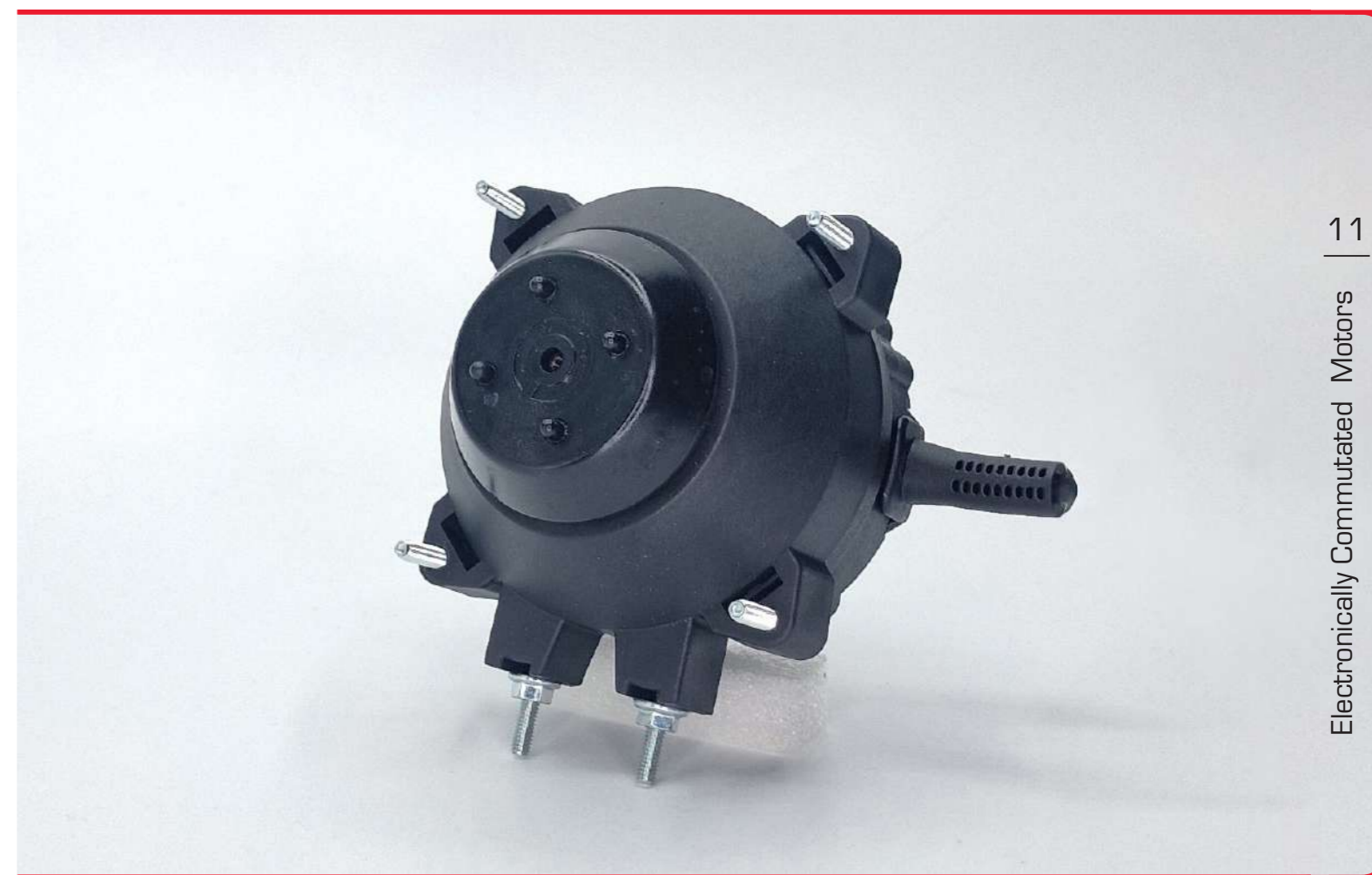
## FANLAB CODIFICATION Model Numbering System

### SME31 Motor

Type	Power output	Speed Type	Foot Installation	Nut Installation	Motor Speed	Customization
FL-SME31	2H	A	A	A	DA	*
<b>SME=</b> Electronically Commutated Motor	<b>0S</b> =4W(out) <b>0H</b> =7W(out) <b>2L</b> =9W(out) <b>2M</b> =12W(out) <b>2H</b> =16W(out) <b>2Z</b> =25W(out)	<b>A</b> = Single speed <b>B</b> = CW&CCW <b>C</b> = Timed reverse <b>D</b> = 2 Speed	<b>A</b> = No Hole <b>B</b> = With Hole	<b>A</b> = 0 provided <b>B</b> = 1 provided <b>C</b> = 2 provided <b>D</b> = 3 provided <b>E</b> = 4 provided <b>F</b> = 6 provided <b>G</b> = 7 provided <b>H</b> = 7 provided	from 500rpm to 2300rpm  e.g. DA=1300rpm	e.g. accessories, cable length, connector

## SME31 series

### EC Motors



RoHS CE cULus

#### ELECTRONICALLY COMMUTATED MOTORS

The SME31 motor than SM series features a more compact design while delivering high performance and maximum efficiency, ensuring excellent cost-effectiveness.

This new energy-saving solution is ideal for a wide range of applications in the professional and commercial refrigeration sector.

All models are certified and fully compliant for use in A2L and A3 environments.

**FL-SME31 serie**

**MAIN FEATURES**



Voltage	100 ~240 V - 50/60Hz 24 V DC (on request)
Motor Cover	Thermoplastic
Motor Speed	500 - 2300 rpm
Insulation class	F
Coupling Motor-Fan Blade	Diameter from 154 to 300 mm
Rotation direction	Standard Single rotation CCW Reverse on start CW&CCW Reverse on demand CW&CCW
Speed	Single speed, 2 Speeds, Stepless speed (Model FL-SME312H/Z)
Operating temperature	-30°C ~ 60°C
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 65
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certifications	CE, UL
Motor Protection	Via Electronics
Standard	EN 60335-1 - EN 60335-2-24 - EN 60335-2-89 EN 55014-1/2 - EN 61000-3-2/3

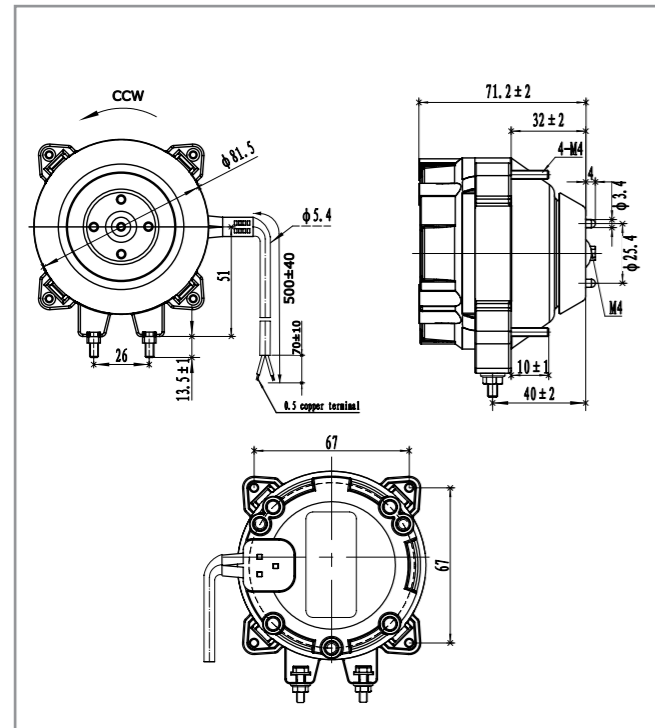
**Specifications**

Nominal data		Voltage	Frequency	Speed	Output capacity
Type	Features	V	Hz	rpm	W
FL-SME310S	Single Speed CW&CCW 2 Speeds	100 ~240 V AC 24 VDC (on request)	50/60 Hz /	500 ~ 2300	4
FL-SME310H					7
FL-SME312L					9
FL-SME312M					12
FL-SME312H	Single Speed CW&CCW 2 Speeds Stepless speed	100 ~240 V AC 24 VDC (on request)	50/60 Hz /	500 ~ 2300	16
FL-SME312Z					25

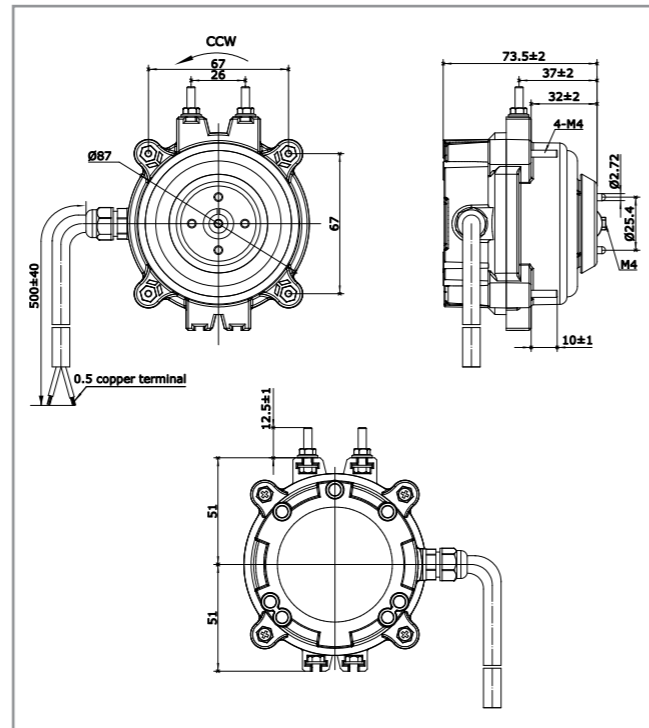
**Technical Drawing**

Unit:mm

**Model FL-SME310S/H e FL-SME312L/M/H**



**Model FL-SME312Z**



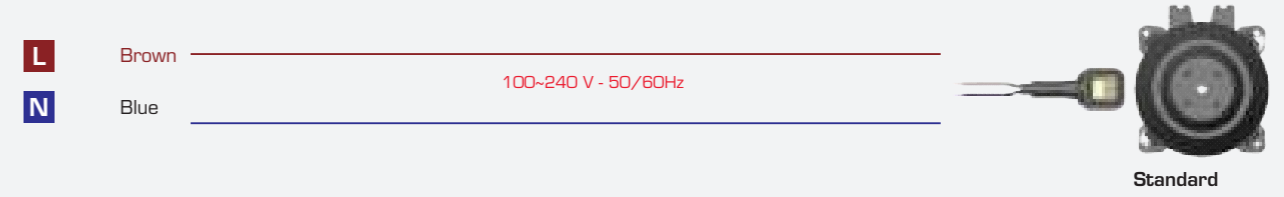
1. Specifications might change without notice;

2. Special design on request

**Connection Diagram**

**Single Speed**

The standard version maintains a constant speed control pre-set. This feature helps the cooling system work properly and avoiding noise generated by the fluctuation of motor speed.

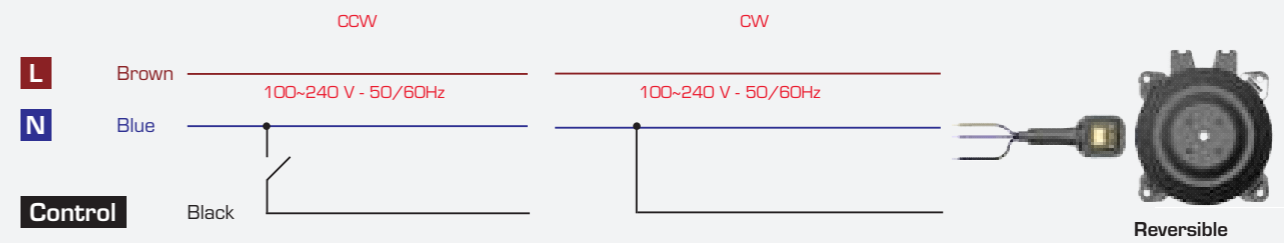


**Reverse on start**

**Reverse on demand**

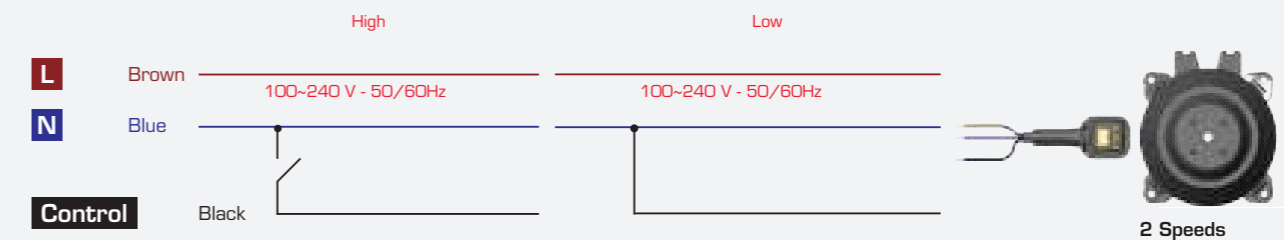
At power up, the motor runs clockwise, there is no extra signal control needed to achieve this function. This function is used to blow dust away from the heat exchanger to make the refrigeration system more efficient.

This function allows to determine the time and duration of reverse running. E.g. during defrost, the motor runs clockwise to blow dust or ice away.



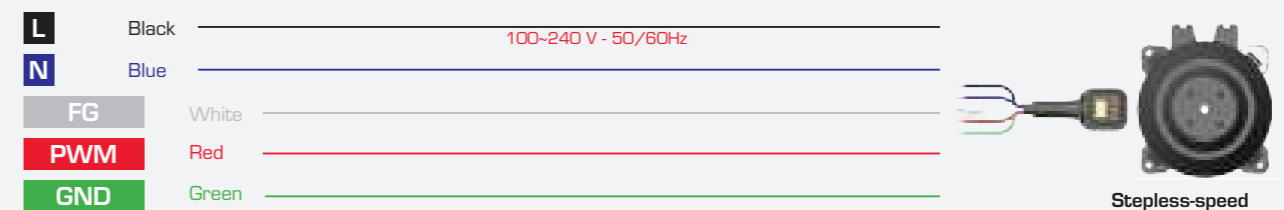
**Two Speeds**

SME motors can run both in high-speed and low-speed through pre-set programmed by supplier, this function is very useful where daytime and nighttime are required, thus to save more energy and reduce the noise.



**Stepless-speed**

SME motors step-less full control of the speed between min and max pre-set range.




1. Specifications might change without notice;

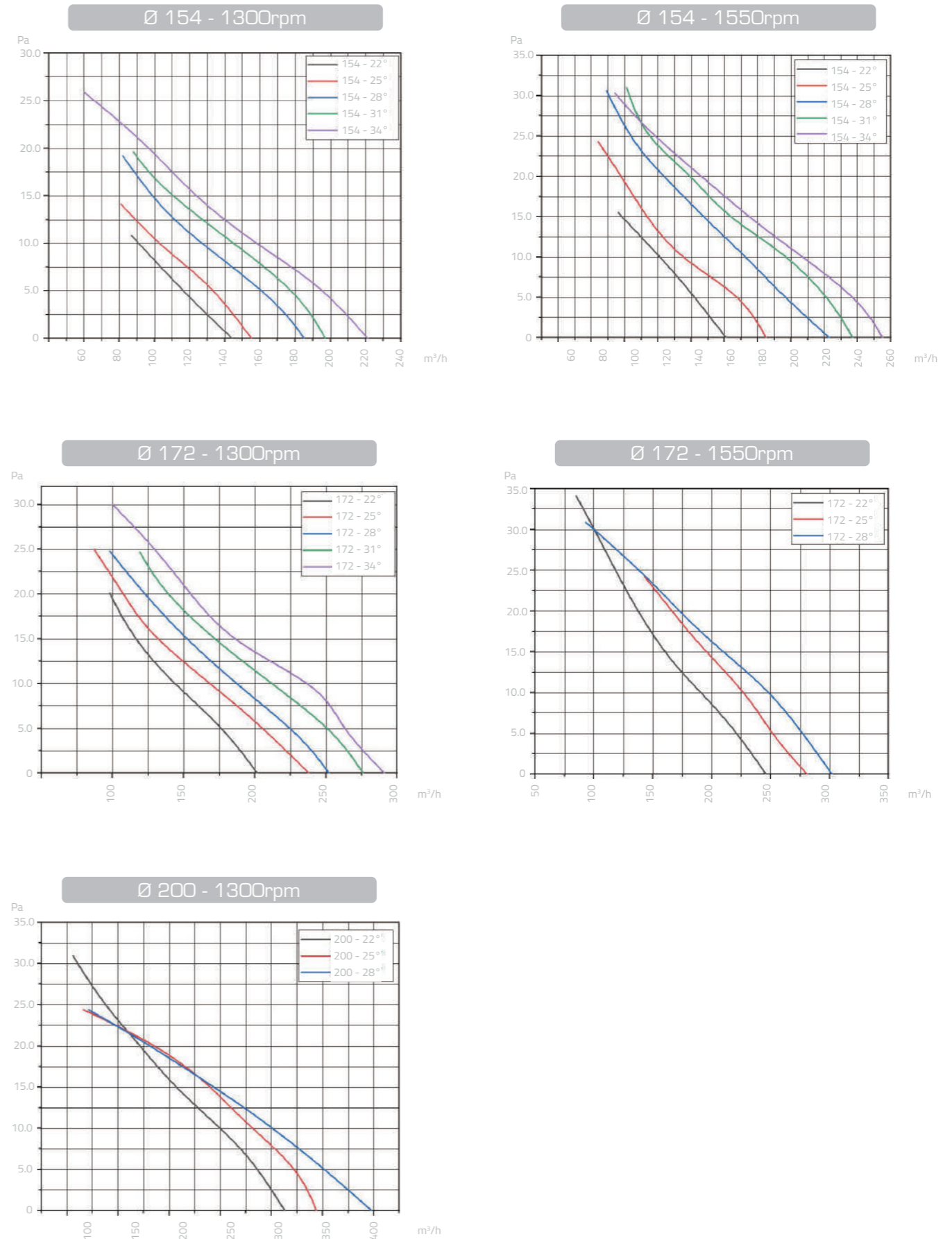
2. Special design on request

**Coupling motor-fan blade**

Motor Speed	ALLUMINIUM FAN BLADE					
	Ø 154	Ø 172	Ø 200	Ø 230	Ø 254	Ø 300
1300 rpm	22°	22°	22°	22°	22°	22°
	25°	25°	25°	25°	25°	25°
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
1450 rpm	22°	22°	22°	22°	22°	22°
	25°	25°	25°	25°	25°	
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
1550 rpm	22°	22°	22°	22°	22°	
	25°	25°	25°	25°	25°	
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°		
	34°	34°	34°	34°		
1800 rpm	22°	22°	22°	22°	22°	
	25°	25°	25°	25°		
	28°	28°	28°	28°		
	31°	31°	31°	31°		
	34°	34°	34°			

 FL-SME310S	 FL-SME312M
 FL-SME310H	 FL-SME312H
 FL-SME312L	 FL-SME312Z

**Airflow Curves FL-SME310S**



**Airflow Curves FL-SME310H**

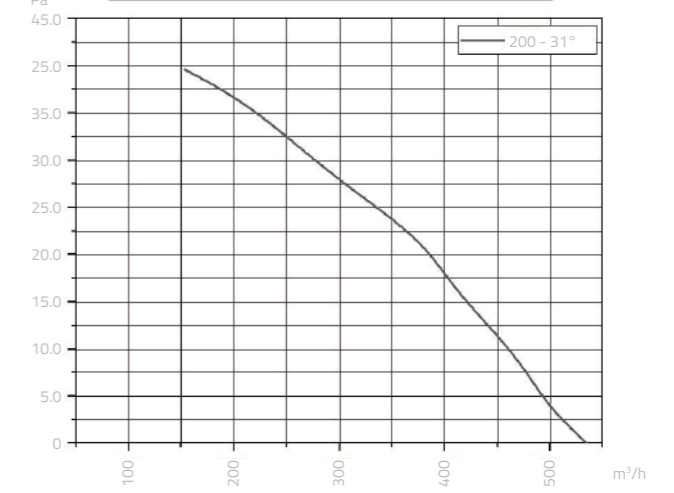
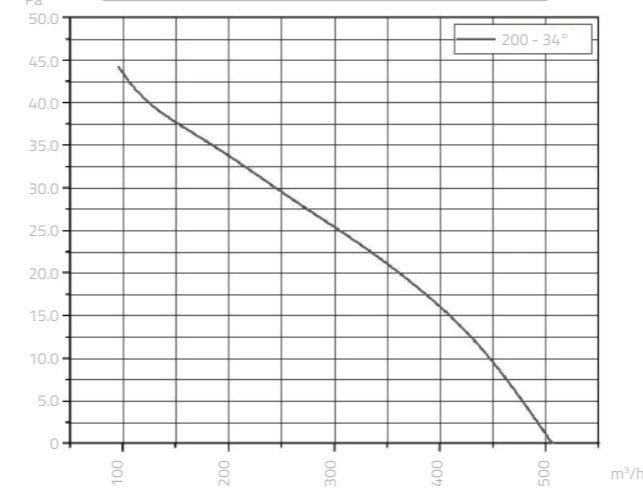
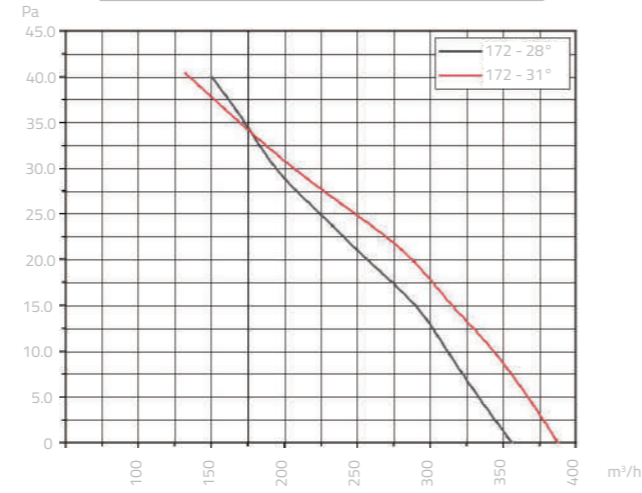
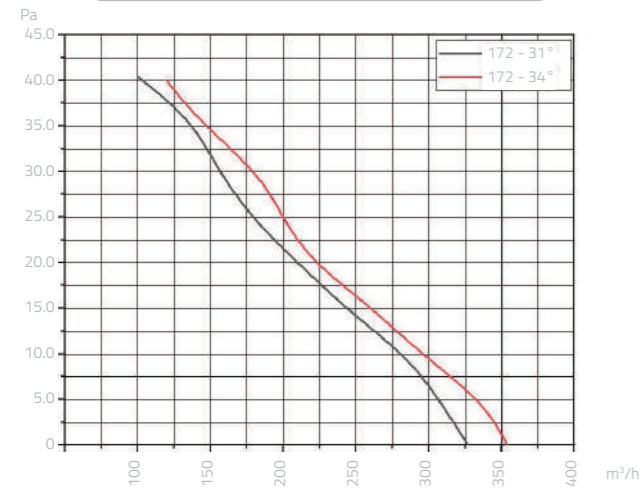
**Airflow Curves FL-SME312L**

Ø 172 - 1550rpm

Ø 172 - 1800rpm

Ø 200 - 1450rpm

Ø 200 - 1550rpm

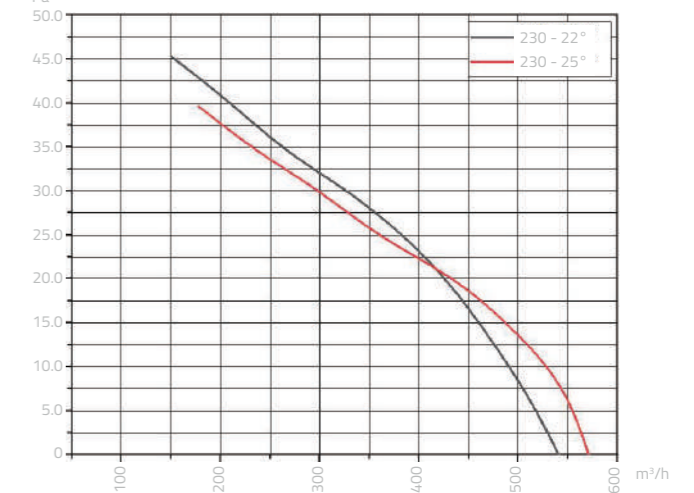
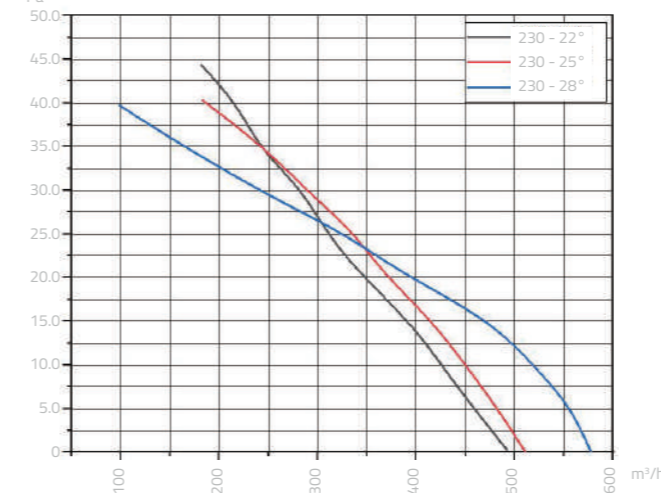
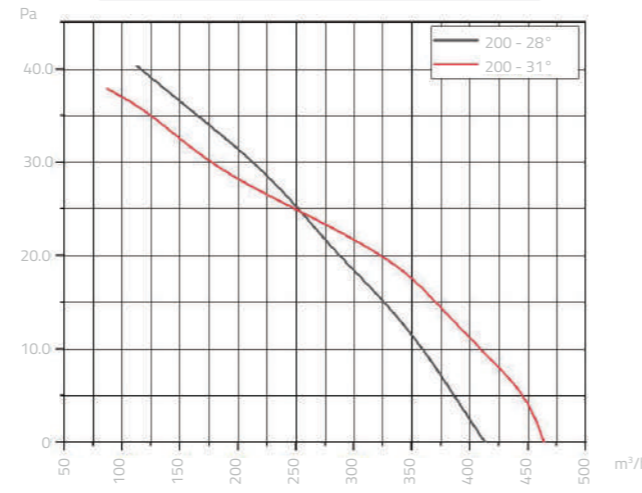
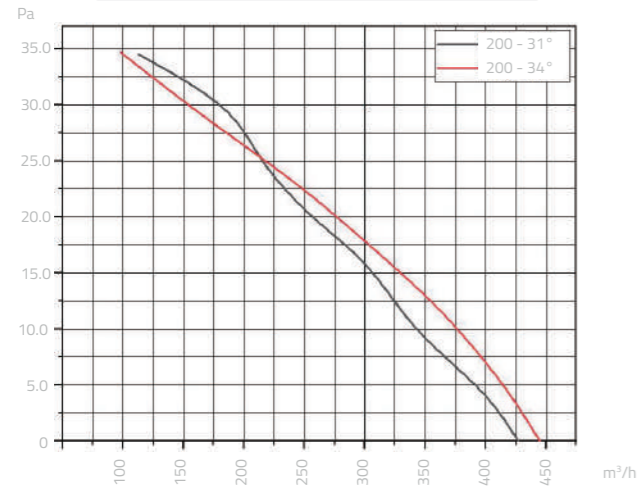


Ø 200 - 1300rpm

Ø 200 - 1450rpm

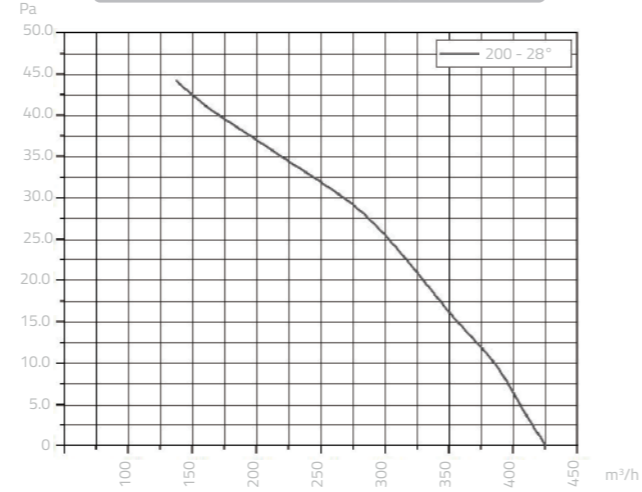
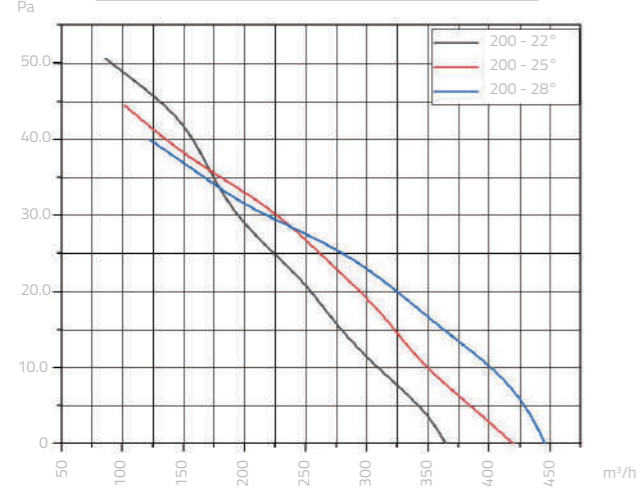
Ø 230 - 1300rpm

Ø 230 - 1450rpm

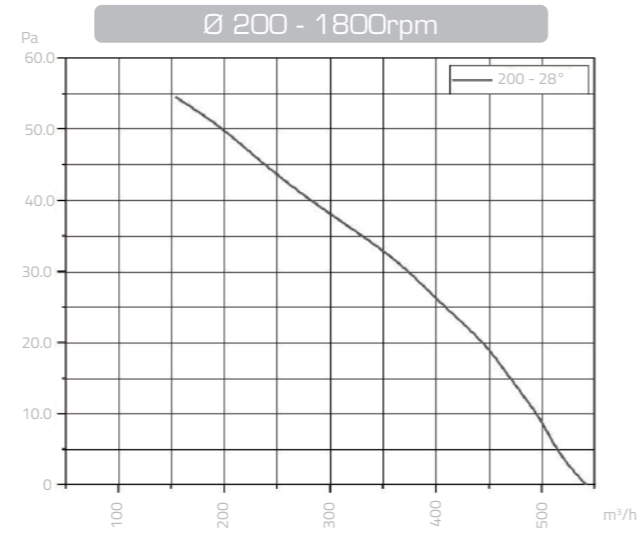
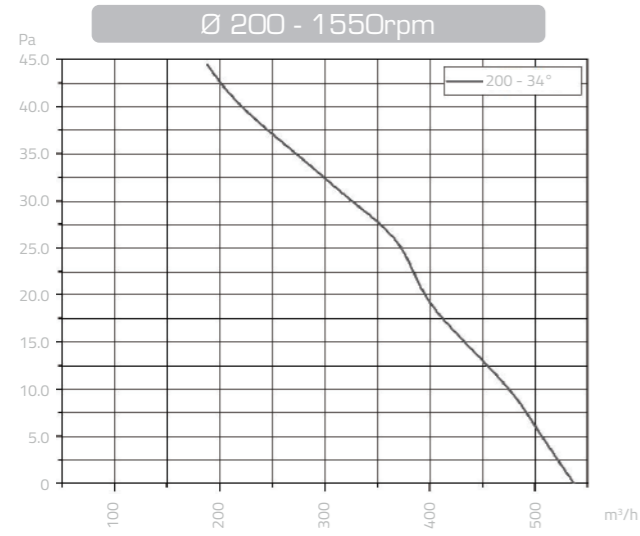


Ø 200 - 1550rpm

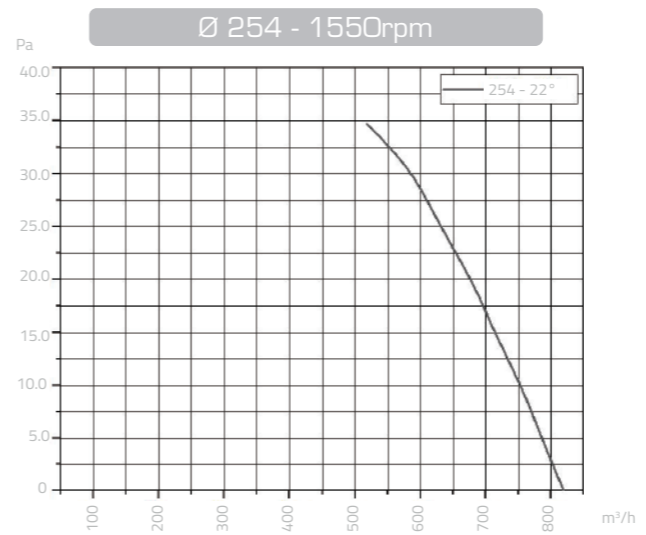
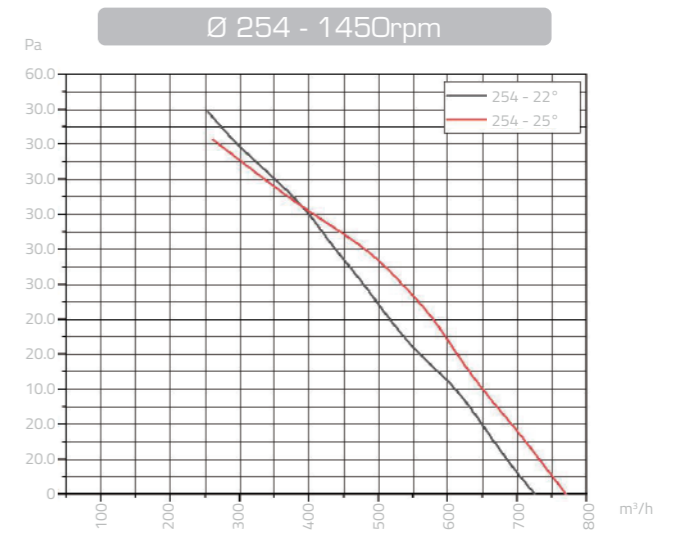
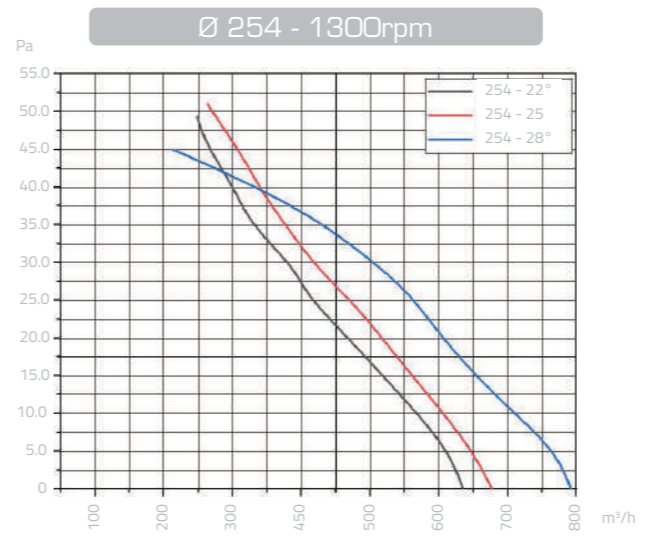
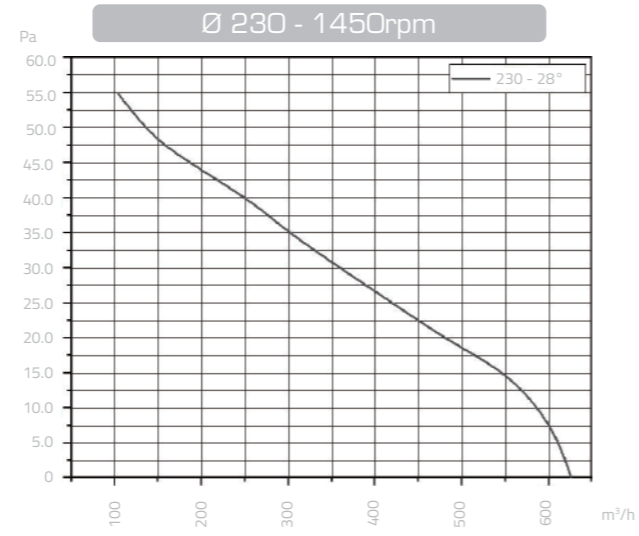
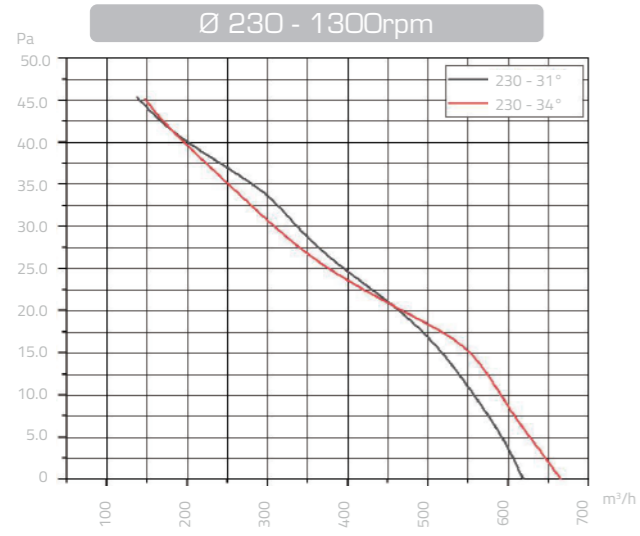
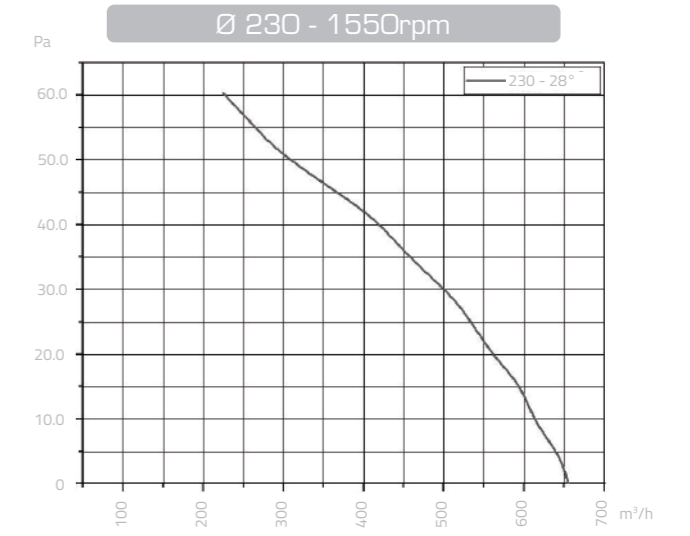
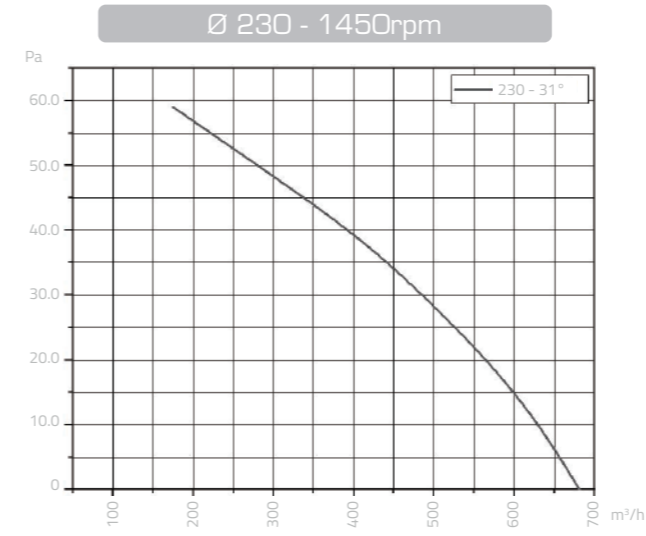
Ø 200 - 1800rpm



**Airflow Curves FL-SME312M**



**Airflow Curves FL-SME312H**



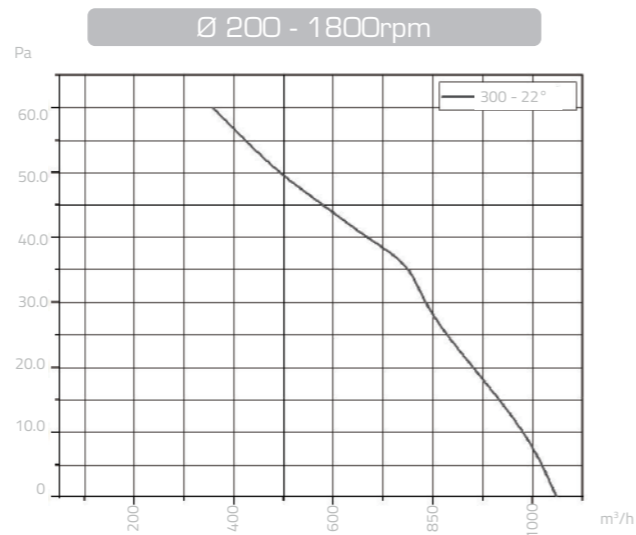
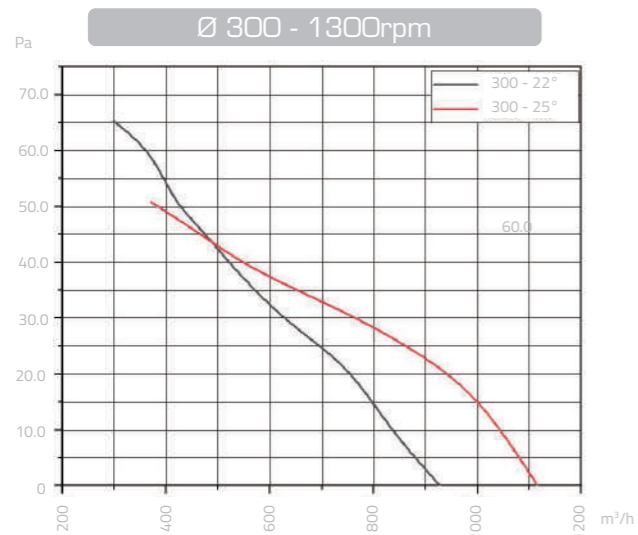
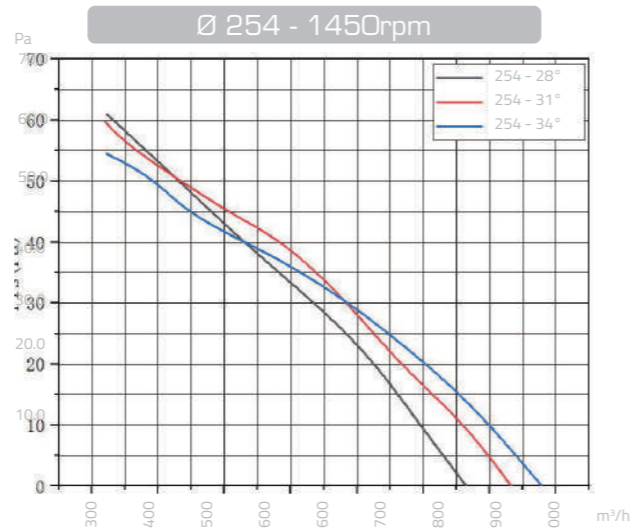
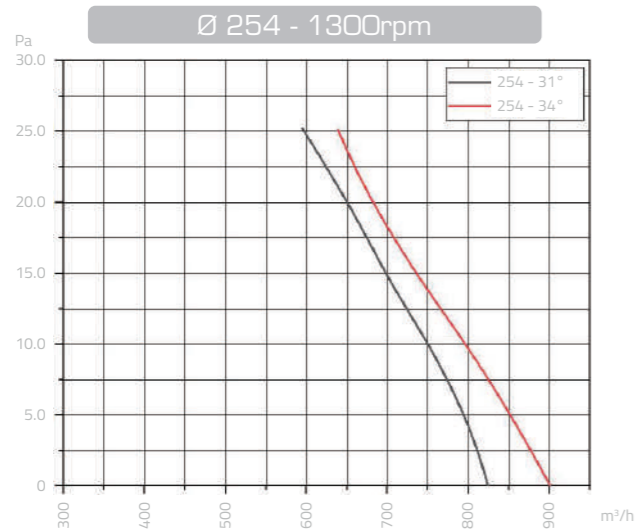
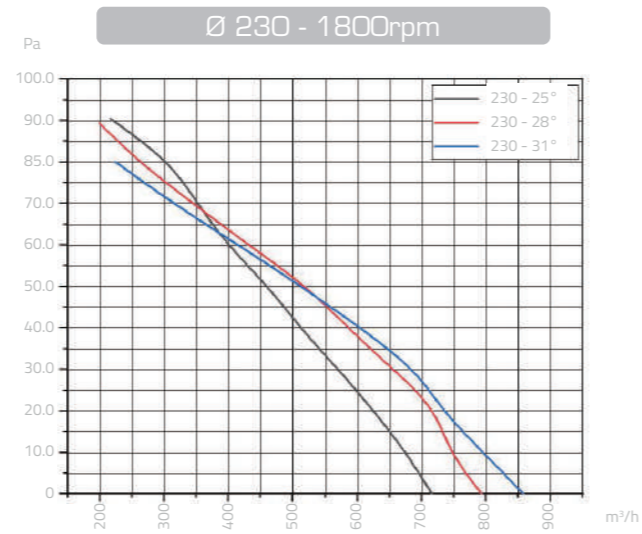
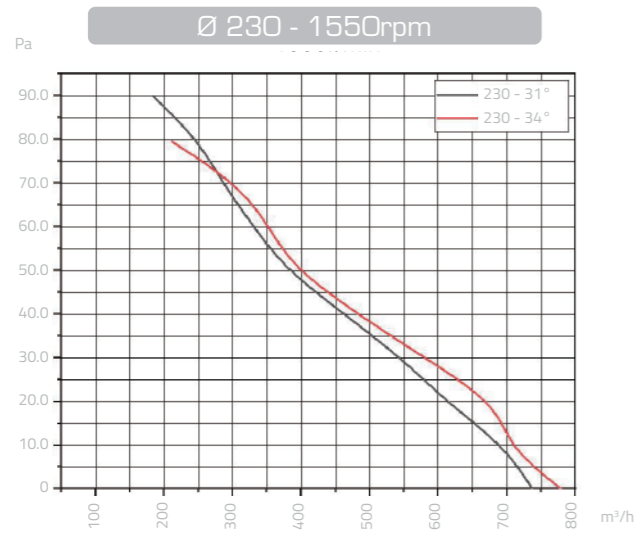
1. Specifications might change without notice;

2. Special design on request

1. Specifications might change without notice;

2. Special design on request

**Airflow Curves FL-SME312Z**



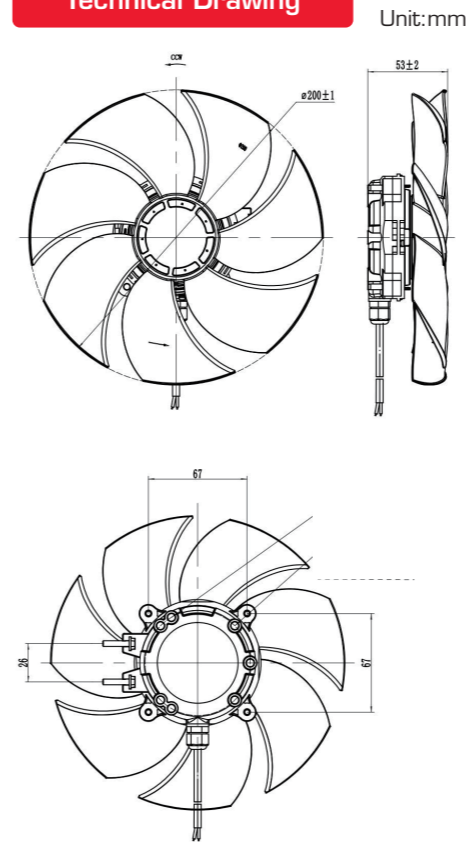
**SME312I serie**



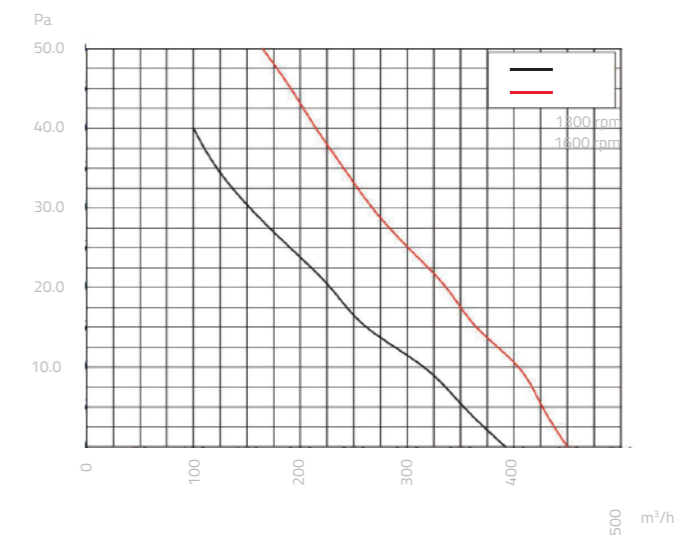
**MAIN FEATURES**

Voltage	100 ~240 V - 50/60Hz
Motor Cover	Plastic
Motor Speed	1300 - 1600 rpm
Motor Insulation class	F
Speed	Single speed, 2 Speeds
Operating temperature	-30°C ~ 60°C
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 65
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certifications	CE, UL
Motor Protection	Via Electronics
Standard	EN 60335-1 - EN 60335-2-24 EN 60335-2-89 - EN 55014-1/2 EN 61000-3-2 - EN 61000-3-3

**Technical Drawing**



**Airflow Curve**



**Specifications**

Type	Voltage	Frequency	Input Current	Input Power	Speed	Airflow	Noise
	VAC	Hz	A	W	rpm	m³/h	dBA
FL-SME312I	100 ~240 V	50/60	0,10	15	1300	400	≤40
			0.15		1600	450	≤45



## FANLAB CODIFICATION Model Numbering System

### Combinated Motor

Type	Speed Type	Mechanical Design	Motor Speed	Impeller Diameter	Customization
FL-SME312C	A	BA	DA	200	*
Combinated Electronically Commutated Motor with blade and ring base on motor SME31	A= Single speed D= 2 Speed	On request	from 1000rpm to 2150rpm e.g. DA=1300rpm	172= blank 200= Ø 200mm 230= Ø 230mm	on request

Type	Impeller Diameter	Air Direction	Winding Design	Voltage	Impeller Material	Customization
FL-EC	172	A	M	230	P	*
Combinated Electronically Commutated Motor with blade and ring base on motor SME	172= Ø 172mm 200= Ø 200mm 230= Ø 230mm	A= Axial Blow V= Axial Suck	M=Single phase	230= 230VAC	P= Plastics	on request

## Combinated series

### EC Combinated Motors



RoHS CE cULus

#### EC MOTORS COMBINATED

The combination of motor, ring, and blade is ideal for systems requiring a balance between size and power. Available sizes: Ø 172, Ø 200, and Ø 230.

This configuration is perfect for applications that require powerful and efficient ventilation, but without sacrificing the silence and energy savings that are characteristics of the EC motor.

Motor certified and fully compliant for use in A2L and A3 environments.

**SME312C serie**



Ø 172 / Ø 200 / Ø 230

Ø 200S

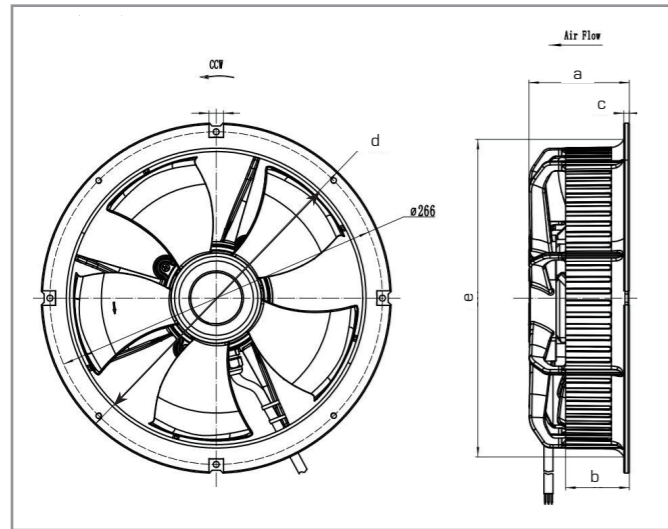
**MAIN FEATURES**

Voltage	100 ~240 V - 50/60Hz
Motor Cover	Plastic
Motor Speed	1000 - 2150 rpm
Motor Insulation class	F
Coupling Motor-Fan Blade	Ø172; Ø200; Ø230
Speed	Single speed, 2 Speeds
Operating temperature	-30°C ~ 60°C
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 65
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certifications	CE, UL
Motor Protection	Via Electronics
Standard	EN 60335-1 - EN 60335-2-24 EN 60335-2-89 - EN 55014-1/2 EN 61000-3-2 - EN 61000-3-3

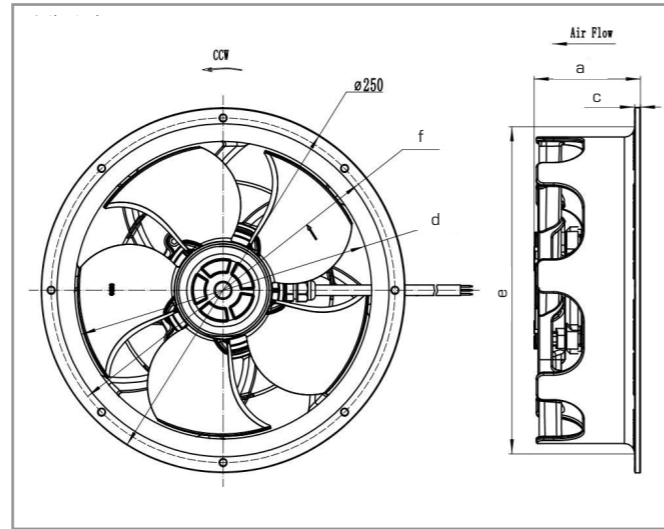
**Technical Drawing**

Unit:mm

**Model FL-SME312C**  
Ø 172 / Ø 200 / Ø 230



**Model FL-SME312C**  
Ø 200S



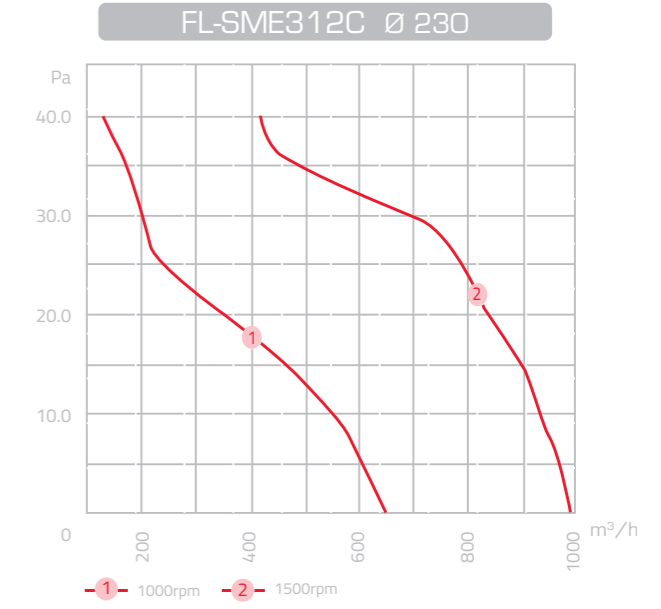
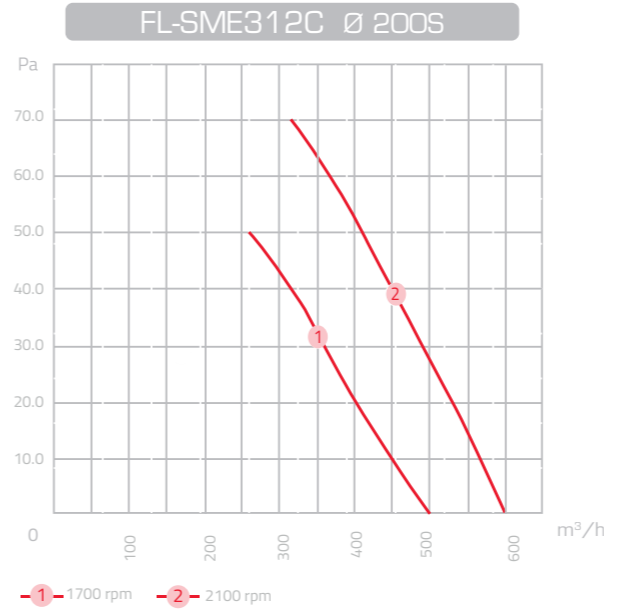
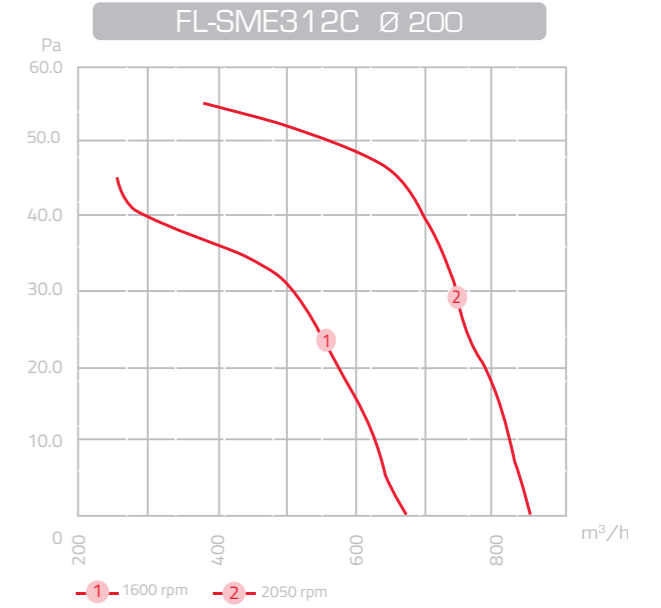
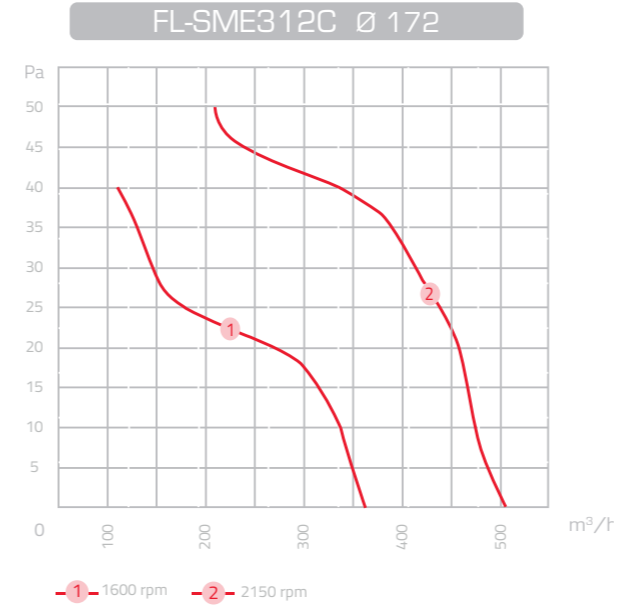
**Specifications**

Type	Voltage	Frequency	Input Current	Input Power	Speed	Airflow	Noise	Dimensions (mm)					
	VAC	Hz	A	W	rpm	m³/h	dBA	a	b	c	Ø d	Ø e	Ø f
FL-SME312C Ø 172	100 ~240 V	50/60	0,20	9	1600	380	≤42	78.5	34.0	3.5	172	190	208
			0,30	21	2150	500	≤50						
FL-SME312C Ø 200	100 ~240 V	50/60	0,30	15	1600	680	≤50	79.0	42.0	4.5	200	220	236
			0,50	28	2050	850	≤60						
FL-SME312C Ø 200S	100 ~240 V	50/60	0,10	35	1700	500	≤45	73.0	-	4.0	200	220	236
			0,15		2100	600	≤50						
FL-SME312C Ø 230	100 ~240 V	50/60	0,20	28	1000	650	≤38	81.0	51.0	4.5	230	250	266
			0,50		1500	990	≤50						

1. Specifications might change without notice;

2. Special design on request

**Airflow Curve**



**DESCRIPTION**

These compact axial fans, based on SME312 motor, are suitable for refrigeration market, such as refrigerated display cases, refrigeration chests or condensing units. The fans incorporate a new plastic rotor which is aerodynamically efficient and more silent.

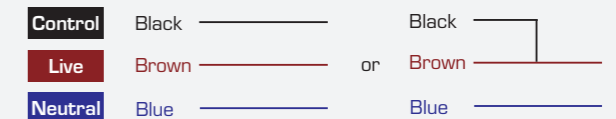
- External EC Motor, efficiency up to 70%
- NFC technologies making possible to set up the speed directly on the application without opening the motor.
- Soft connection between motor and ring, reducing vibrations.
- Compact design suitable for limited space in the application.
- More powerful output.

1. Specifications might change without notice;

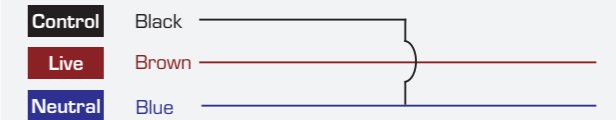
2. Special design on request

**Connection Diagram**

**WIRING DIAGRAM - SPEED n1**



**WIRING DIAGRAM - SPEED n2**



**EC serie**

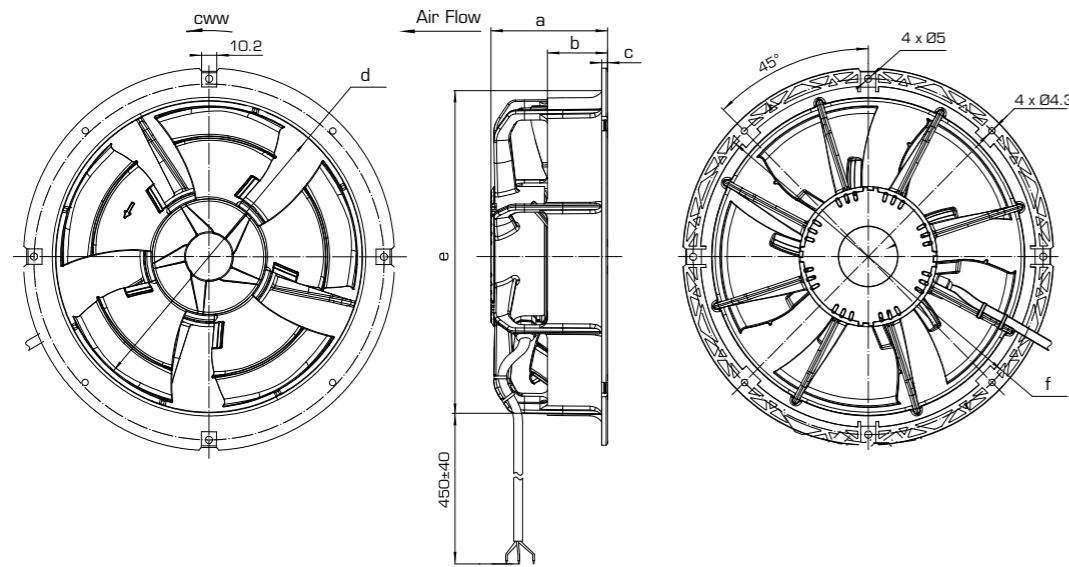


**MAIN FEATURES**

Voltage	100 ~120 V - 50/60Hz 220 ~240 V - 50/60Hz
Motor Cover	Plastic
Motor Speed	900 - 2500 rpm
Motor Insulation class	B
Coupling Motor-Fan Blade	Ø172, Ø200; Ø230
Speed	Single speed, 2 Speeds
Operating temperature	-30°C ~ 50°C
Protection class	Class II
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 54
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certification	CE
Motor Protection	Via Electronics
Standard	EN 60335-1 - EN 60335-2-89

**Technical Drawing**

Unit:mm



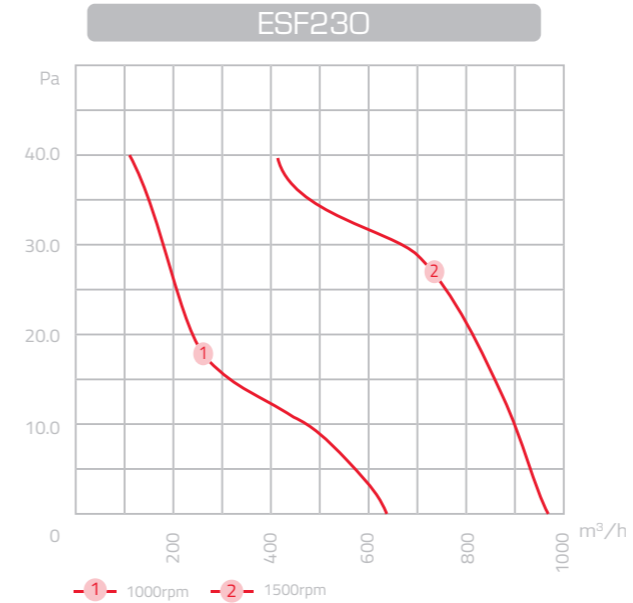
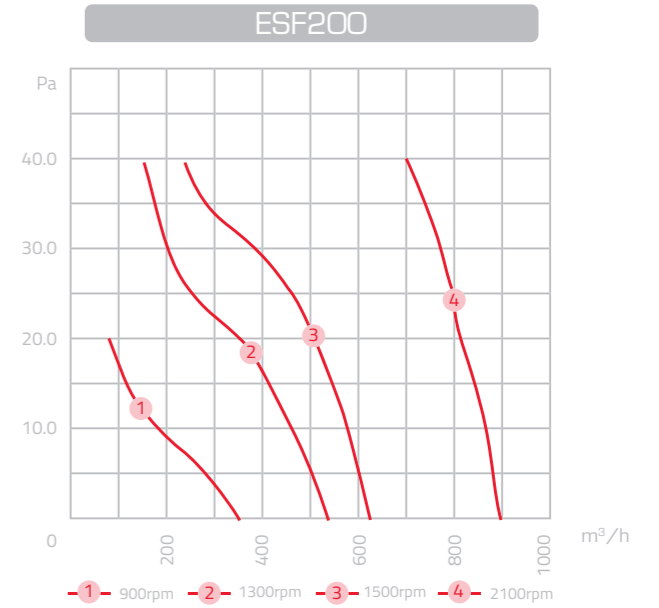
**Specifications**

Type	Voltage	Frequency	Input Current	Input Power	Speed	Airflow	Noise	Dimensions (mm)					
	VAC	Hz						A	W	rpm	m³/h	dBA	a
FL-EC172	230	50/60	0,08	9	1700	400	≤54	78.5	35.0	3.5	172	189	208
			0.18	21	2500	550	≤63						
FL-EC200	230	50/60	0.05	4	900	350	≤42	78.5	40.5	4.0	200	221	236
			0.08	9	1300	540	≤52						
			0.10	12	1500	620	≤55						
			0.25	28	2100	900	≤62						
FL-EC230	230	50/60	0.08	9	1000	400	≤48	81.0	50.0	4.5	230	250	266
			0.20	26	1500	960	≤59						

1. Specifications might change without notice;

2. Special design on request

**Airflow Curve**



**DESCRIPTION**

These compact axial fans, based on SME motor, are suitable for refrigeration market, such as refrigerated display cases, refrigeration chests or condensing units. The fans incorporate a new plastic rotor which is aerodynamically efficient and more silent.

- External EC Motor, efficiency up to 70%
- NFC technologies making possible to set up the speed directly on the application without opening the motor.
- Soft connection between motor and ring, reducing vibrations.
- Compact design suitable for limited space in the application.
- More powerful output.



1. Specifications might change without notice;

2. Special design on request



## FANLAB CODIFICATION Model Numbering System

### SM Motor Codification

Type	Output Power	Screw Mounting	Voltage	Customization
FL-SM	5	- 18	/	*
Shaded Pole Motor	5=5W 6=6W 10=10W 16=16W 18=18W 25=25W 34=34W	blank= No screw 18= 18mm 26= 26mm 26/18= 26/18 mm	none= 240V 120= 120V	*on request  e.g. accessories, IP protection, wire length, connector, ball bearing

## SM series

### Shaded Pole Motors



#### SHADED POLE MOTORS

Single phase shaded pole motors belong to SM series. They are widely used in the radiator, evaporator and other refrigeration equipment.

All models are certified and updated for use in A2L and A3 environments.

5W and 10W motors are protected by impedance, while 16W, 18W, 25W and 34W motors are thermal protected.

Standard design is supplied with sleeve bearings, while ball bearings are available on request.

**SM serie**



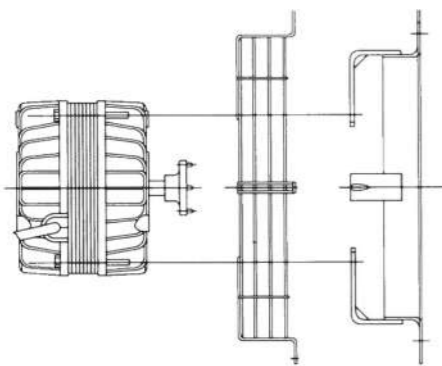
Voltage	100 ~120 V - 50/60Hz 220 ~240 V - 50/60Hz
Motor Cover	Alluminium alloyd
Output power	from 5W to 18W
Speed	1300 - 1550 rpm
Insulation class	B ("F" on request)
Coupling Motor-Fan Blade	Diameter from 154 to 300 mm
Operating temperature	-30°C ~ 50°C
Protection class	Class I
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 42 (IP44 on request)
Bearing Type	Sleeve Bearing
Life expectancy	20.000 hours
Certifications	CE, VDE, UL
Motor Protection	5W - 10W Impedance protection 16W,18W,25W,34W Thermal protected
Standard	EN 60335-1 - EN 60335-2-89

**Specifications**

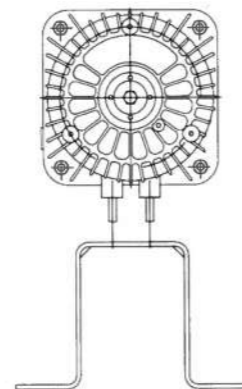
Model	Rated Voltage	Frequency	Rated Current	Input Power	Output Power	Speed	Air Volume	Fan Blade	Weight
	VAC	Hz	A	W	W	RPM	m³/h	mm	Kg
FL-SM5	220/240	50/60	0.20	29	5	1300	455	Ø 200	0.08
FL-SM6	110/120	60	0.55	33	6	1550	510	Ø 200	0.08
FL-SM10	220/240	50/60	0.25	36	10	1300	650	Ø 230	1.1
	110/120	60	0.80	55	10	1550	800		
FL-SM16	220/240	50/60	0.45	60	16	1300	760	Ø 254	1.4
FL-SM18	110/120	60	1.01	70	18	1550	940	Ø 254	1.4
	220/240	50/60	0.50	70	18	1300	1000	Ø 254	1.5
FL-SM25	220/240	50/60	0.70	90	25	1300	1030	Ø 300	1.8
FL-SM34	220/240	50/60	0.85	110	34	1300	1210	Ø 300	2.0

**Installation of Shaded Pole Motor**

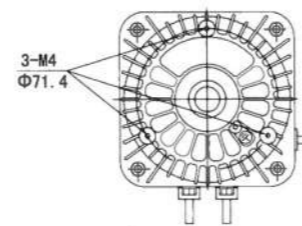
With Grid or Ring



With Bracket



With 3 holes on endshield



1. Specifications might change without notice;

2. Special design on request

**Screw Mounting**

Unit:mm

**No Screw [00]**

Output power	A	B	D
5W	16.5	35.5	81
6W	16.5	35.5	87
10W	16.5	35.5	87
16W	15.5	34.5	92
18W	15.5	34.5	92
18W*	18	38	101
25W	19	39	112
34W	23	43	121

**18mm [18]**

Output power	A	B	C	D
5W	16.5	35.5	46	81
6W	16.5	35.5	46	87
10W	16.5	35.5	46	87
16W	15.5	34.5	45	92
18W	15.5	34.5	45	92
18W*	18	38	48.5	101
25W	19	39	49.5	112
34W	23	43	53.5	121

**26mm [26]**

Output power	A	B	C	D	E
5W	16.5	35.5	46	81	-
6W	16.5	35.5	46	87	-
10W	16.5	35.5	46	87	-
16W	15.5	34.5	45	92	-
18W	15.5	34.5	45	92	-
18W*	18	38	48.5	101	21
25W	19	39	49.5	112	31
34W	23	43	53.5	121	36

**26/18 mm [26/18]**

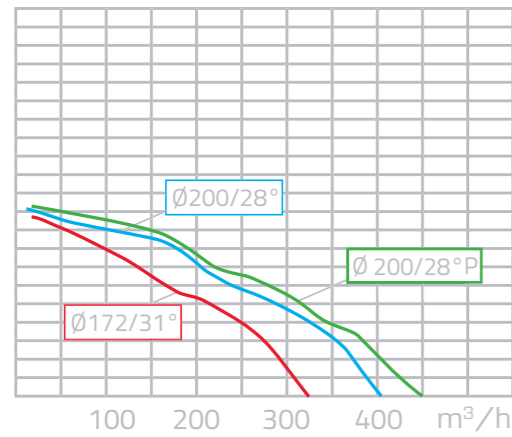
Output power	A	B	C	D	F
5W	16.5	35.5	46	81	45
6W	16.5	35.5	46	87	51
10W	16.5	35.5	46	87	51
16W	15.5	34.5	45	92	56
18W	15.5	34.5	45	92	56
18W*	18	38	48.5	101	64.5
25W	19	39	49.5	112	75.7
34W	23	43	53.5	121	84.5

1. Specifications might change without notice;

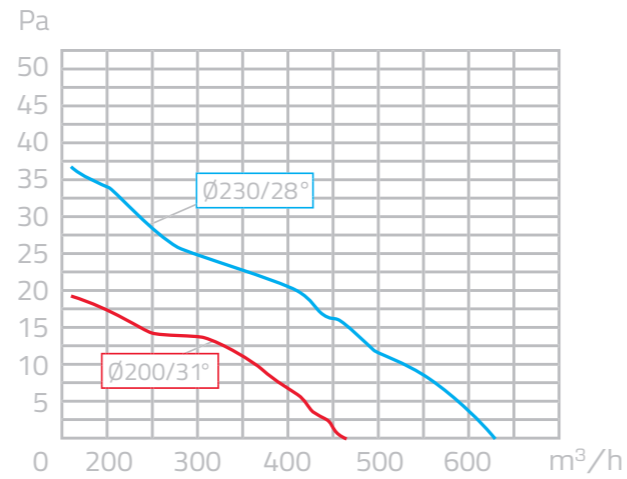
2. Special design on request

**Airflow Curves**

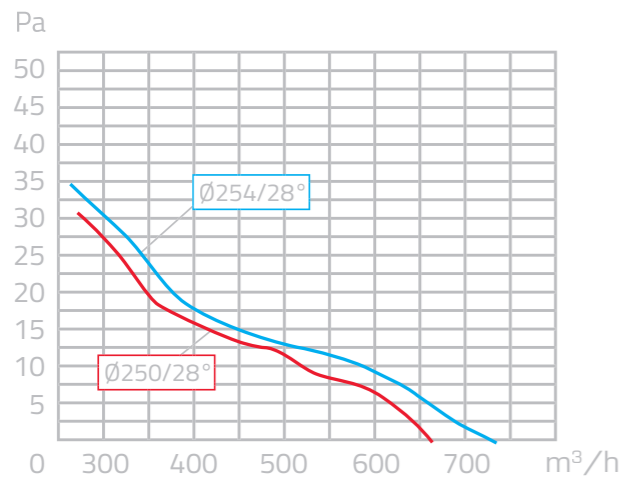
**SM5 50Hz**



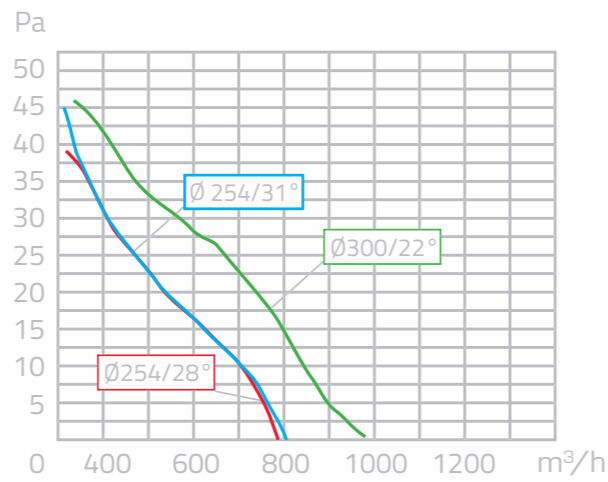
**SM10 50Hz**



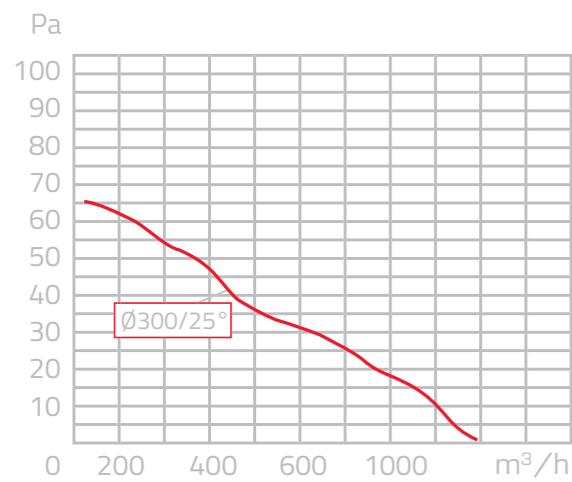
**SM16 50Hz**



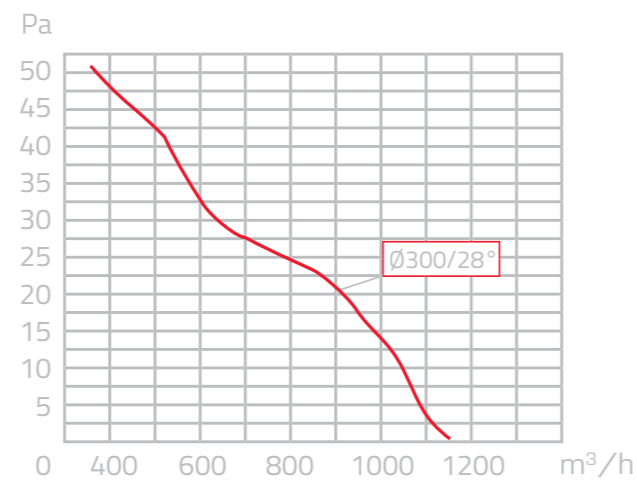
**SM18 50Hz**



**SM25 50Hz**



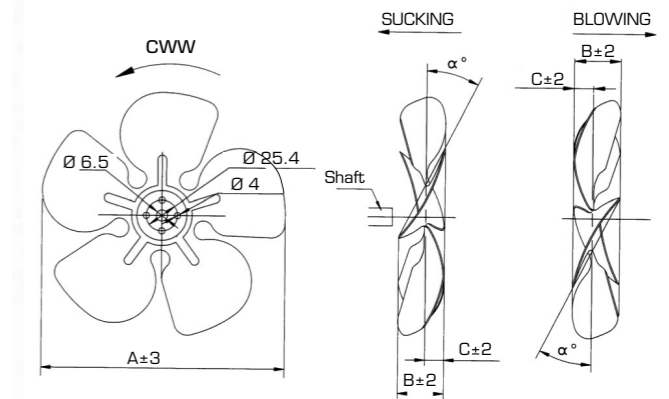
**SM34 50Hz**



1. Specifications might change without notice;

2. Special design on request

**METAL FAN BLADE**



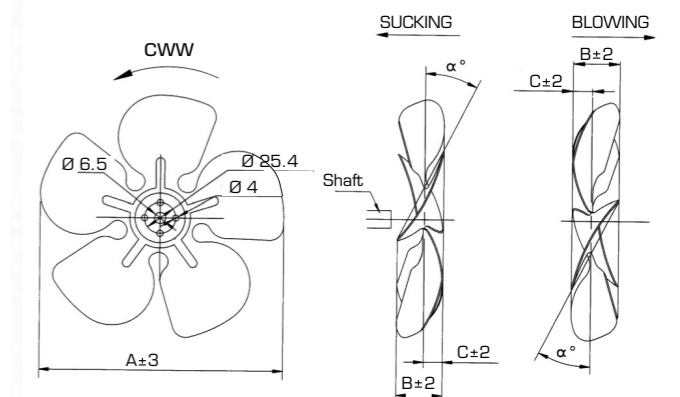
FAN-BLADE	F154	F172	F200	F230	F250	F254	F300	
α	Ø A	Ø154	Ø172	Ø200	Ø230	Ø250	Ø254	Ø300
19°	B	23	25	27	30	31	32	35
	C	12	13	14	15	15	15	16
22°	B	26	28	30	33	34	35	35
	C	13	14	15	16	16	16	17
25°	B	29	31	33	36	37	38	41
	C	15	16	17	19	19	19	21
28°	B	32	34	36	39	40	41	44
	C	17	17	19	21	20	21	22
31°	B	36	38	40	42	43	44	48
	C	18	19	21	20	21	22	24
34°	B	39	41	43	45	45	47	52
	C	21	21	24	23	23	23	26

TYPE	SM5	SM10	SM16	SM18	SM25	SM34
FAN BLADE	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr
MAX FAN BLADE ANGLE						
F172	31°	31°				
F200	28°	28°	31°	31°		
F230		28°	28°			
F250		22°	22°	28°	28°	
F254			28°	25°	31°	28°
F300				22°	22°	25°

**PLASTIC FAN BLADE**

FAN-BLADE	F154	F172	F200	F230	F250	F254	F300	
α	Ø A	Ø154	Ø172	Ø200	Ø230	Ø250	Ø254	Ø300
19°	B	23	25	27	30	31	32	35
	C	12	13	14	15	15	15	16
22°	B	26	28	30	33	34	35	35
	C	13	14	15	16	16	16	17
25°	B	29	31	33	36	37	38	41
	C	15	16	17	19	19	19	21
28°	B	32	34	36	39	40	41	44
	C	17	17	19	21	20	21	22
31°	B	36	38	40	42	43	44	48
	C	18	19	21	20	21	22	24
34°	B	39	41	43	45	45	47	52
	C	21	21	24	23	23	23	26

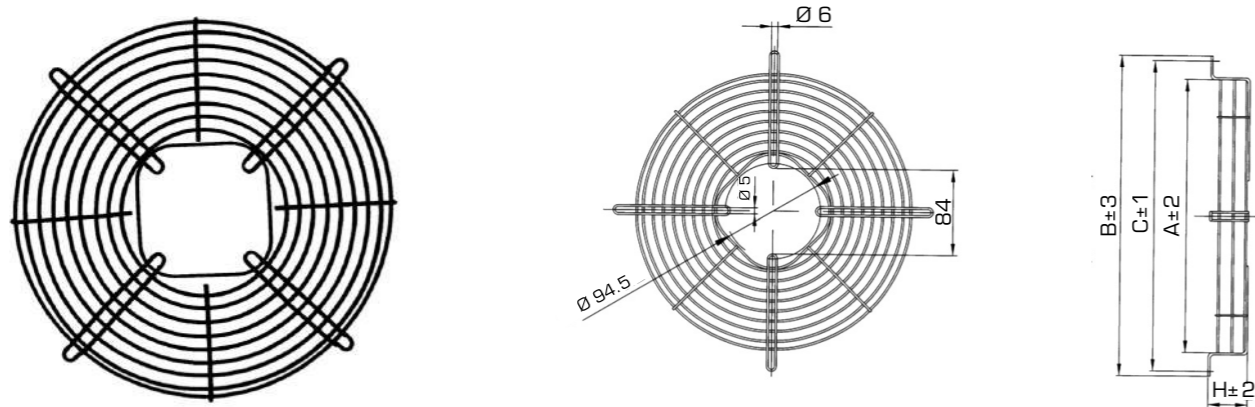
TYPE	SM5	SM10	SM16	SM18	SM25	SM34
FAN BLADE	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr	50tr, 60tr
MAX FAN BLADE ANGLE						
F172	31°	31°				
F200	28°	28°	31°	31°		
F230		28°	28°			
F250		22°	22°	28°	28°	
F254			28°	25°	31°	28°
F300				22°	22°	25°



1. Specifications might change without notice;

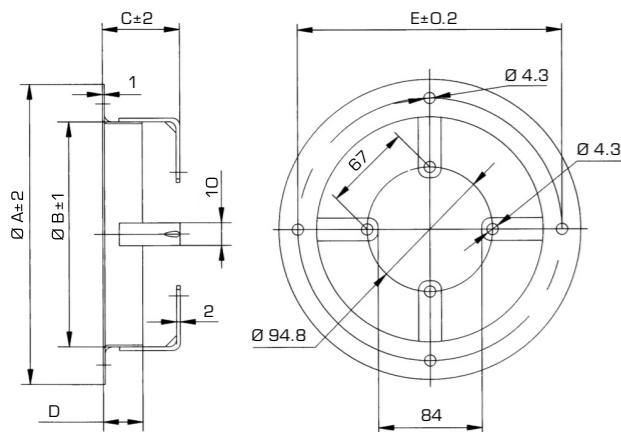
2. Special design on request

**GRID**



TYPE	GM154	GM172	GM200	GM230	GM254	GM300
A	170	188	214	246	270	324
B	202	220	248	278	302	356
C	190	208	236	266	290	344
H	11	11	25	27	17	17

**RING**



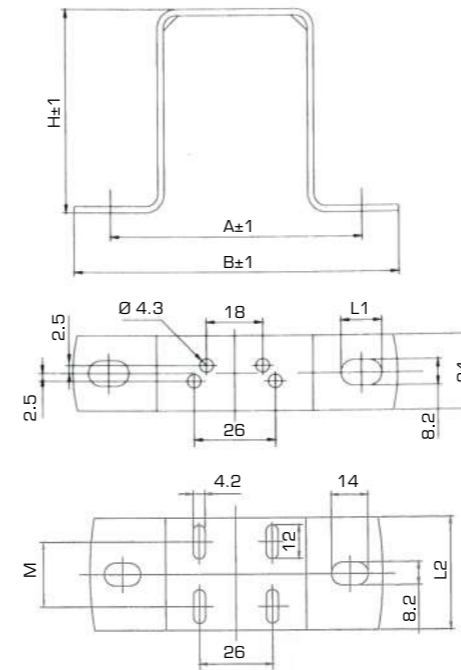
TYPE	Ø A	Ø B	C	D	Ø E	Material*
R154	200	162	49	25	190	M
R172	223	180	49	25	208	M
R200	246	208	49	25	236	M/P
R230	278	238	49	25	266	M/P
R254	300	268	49	25	290	M/P
R300	378	308	49	30	365	M

\*M=Metal  
P=Plastic

1. Specifications might change without notice;

2. Special design on request

**BRACKET**

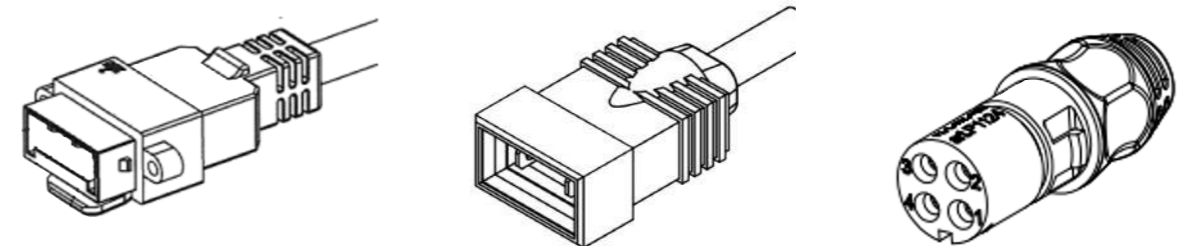


TYPE	H	A	B	L1	L2	M
B39	39	78	100	14	-	-
B55	55	81	106	13	-	-
B72	72	81	106	13	-	-
B84	84	81	106	20	-	-
B92	92	81	106	14	-	-
B109-1	109	81	106	14	-	-
B109-2	109	78	100	14	39	21
B109-3	109	78	100	14	49	29

**CABLE CUSTOMIZATION**

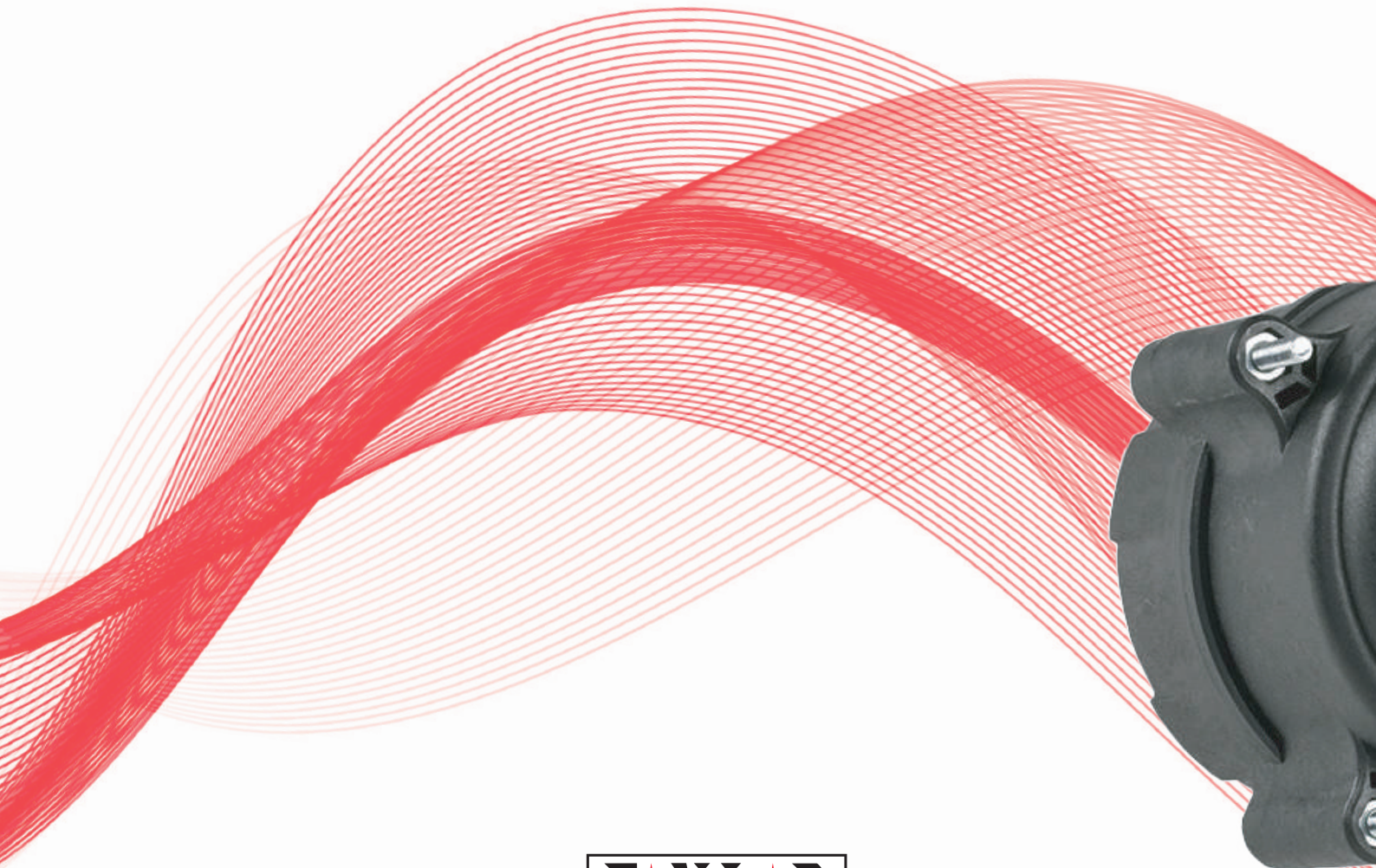
With the support of long-standing and trusted partners, we offer a complete cable customization service. We provide tailor-made solutions with plugs, sockets, overmolded connectors, wiring, and dedicated assemblies, designed to ensure quality and maximum flexibility in every application.

E.g.



1. Specifications might change without notice;

2. Special design on request



MOTORS & FANS

## SALES NETWORK

### Contacts

For any further info please contact us at the following address

如果您对我们的产品或服务有任何问题，请给我们留言，谢谢！

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info@fanlab.com  
www.fanlab.com