SME series

EC Motors



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EC MOTORS

SME series is the new motors generation, with a higher efficency than the traditional motors assuring an energy saving up to 80% of power consumption.

Request ATEX certification for hazardous environments such as in commercial cooling system, supermarket refrigerated counters, cold rooms, ice cream machines and small condensing applications, where explosive gases might be generated.



SME

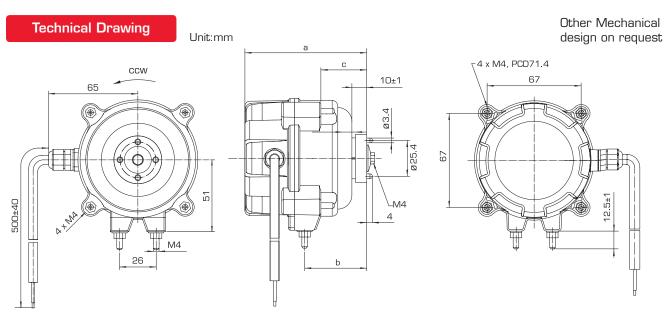


MAIN FEATURES

Voltage	100 ~120 V - 50/60Hz 220 ~240 V - 50/60Hz DC 24V
Motor Cover	Thermoplastic
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
Operating temperature	-30°C ~ 50°C
Protection class	Class II
Mounting position	Any
Duty cycle	Continuous operating (S1)
Protection	IP 65
Bearing Type	Ball Bearing
Life expectancy	50.000 hours
Certifications	CE, VDE(220~240 Vac), ATEX (on request) UL (pending)
Motor Protection	Via Electronics

Specifications

Nominal data		Voltage	Frequency Speed Output capacity		Dimensions			
Туре	Features	V	Hz	rpm	W	а	b	С
FL-SME108	Standard CW&CCW 2 Speeds	100 ~120 V 220 ~240 V	50/60 Hz	500 ~ 2300	5	83	43.5	32.5
FL-SME112	Standard CW&CCW 2 Speeds	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	Standard CW&CCW 2 Speeds	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			



1. Specifications might change without notice;

2. Special design on request



Connection Diagram

Standard

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



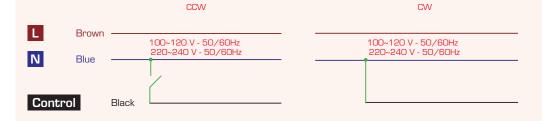
Standard

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

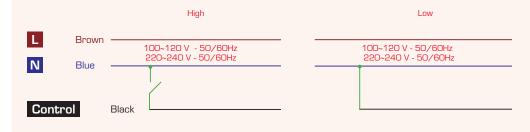
This function allows to determine the time and duration of reverse running. E.g. during defrost, the motor runs clockwise to blow dust or ice away.





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.





O-10 Vdc Vari-speed

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

24Vdc	Brown	
GND	Blue	24 Vdc
O-10Vdc	Black ————————————————————————————————————	



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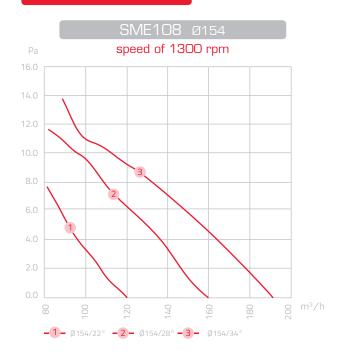
Coupling motor-fan blade

Motor	ALLUMINIUM FAN BLADE					
Speed	Ø 154	Ø 172	Ø 200	Ø 230	Ø 254	Ø 300
1300 rpm	22°	22°	22°	55.	22°	22°
	25°	25°	25°	25°	25°	25°
	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
	22°	22°	22°	22°	22°	22°
	25°	25°	25°	25°	25°	
1450 rpm	28°	28°	28°	28°	28°	
	31°	31°	31°	31°	31°	
	34°	34°	34°	34°	34°	
	22°	22°	22°	22°	22°	
	25°	25°	25°	25°	25°	
1550 rpm	28°	28°	28°	28°	28°	
	31°	31°	31°	31°		
	34°	34°	34°	34°		
	22°	22°	22°	22°	22°	
1800 rpm	25°	25°	25°	25°		
	28°	28°	28°	28°		
	31°	31°	31°	31°		
	34°	34°	34°			

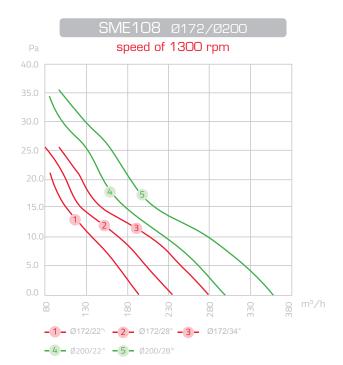
SME112

Airflow Curve

SME108







SME120

2. Special design on request



