



Fans-tech Electric Co ., Ltd

Precision air conditioner series





Company Introduction

Fans-tech Electric Co., Ltd., was established in 2004. which is a modern enterprise integrating research and development, marketing and manufacturing of small and medium-sized intelligent fans.

Based on accumulation of high and new technology, the company has completed its products planning in very short time, which includes AC/DC external rotor fans, bus evaporative fans, and special pumps.



Fan requirements of precision air conditioning industry

Precision air conditioner is a new type of air conditioner which has been developed gradually in the past 30 years. It is characterized by large air volume and heat load variation, and it is applied in high-precision environment such as large data center, computer room, program switch room, satellite mobile communication station, large medical equipment room, laboratory, test room, production workshop of precision electronic instruments, etc.

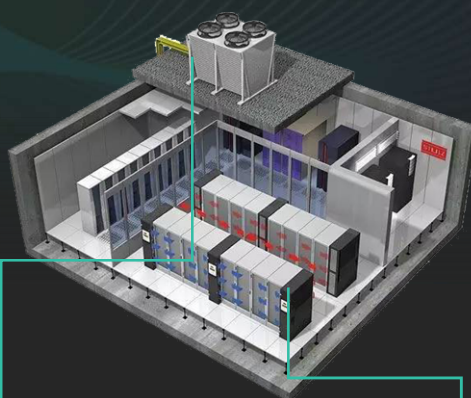
Characteristic



large air volume



Heat load variation



Outdoor Unit

Indoor Unit



Temperature and humidity



Life



Protect level



Certification

Other

Amb.Temp: -40~70°C
Max humidity: 95%

40000H

IP54

Safety standard
& EMC certification

Adapt to chopper speed regulation or frequency conversion speed regulation (shaft current protection)

If chopping speed regulation, it should adapt to wide frequency power supply ($\pm 3\text{Hz}$)

Low resonance pitch of speed regulation

High reliability, high efficiency, energy efficiency pass ERP

Amb.Temp: -25°C ~ 70°C
Relative humidity: 5 ~ 95%

40000H@40°C(Centrifugal)
60000H@40°C(Axial flow)

IP42

Safety standard
& EMC certification

High efficiency
High reliable

Fans-tech Solution

Fans-tech precision air conditioning fan series products can not only adapt to the industry characteristics of large air volume and heat load change, but also achieve high efficiency and energy saving. It is a wise choice for industry customers.



Large axial series

Φ500~Φ900



**EC centrifugal
blower backward
curved series**

Φ190~Φ630



DC axial series

Φ167
Φ180

 **High efficiency and energy saving**

Energy efficiency pass ERP

 **Product life**

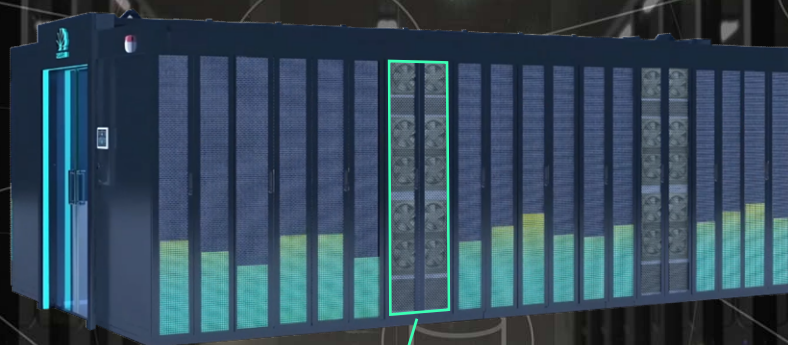
40000H@40°C(centrifugal)

60000H@40°C(axial)

 **Protect level**

IP54

 **EMC certification**



Application of fan in machine room



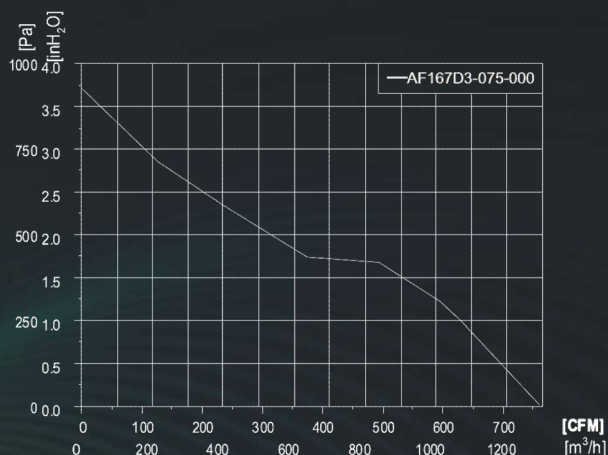
Partners



Products List

 Diameter	 Type	 Power(W)	 Airflow(CFM)/(m³/h)	 Page
167	AF167D3-075-000	167	694/1180	6
180	AF180E3-075-000	158.5	736/1251	7
190	SC190E2-055-A00	68	424/720	8
225	SC225E2-AGT-05	135	718/1220	9
250	SC250E5-AGT-03	205	989/1680	10
310	SC310E5-AQT-00	800	2179/3700	11
355	SC355F5-AGT-03	350	3200/5440	12
400	SC400E5-AGT-02	310	1942/3300	13
500	SC500F5-AKT-00	1350	6180/10500	14
560	SC560F5-AKT-00	1750	7357/12500	15
630	SC630F5-AKT-00	1600	9417/16000	16
630	AF630F5-AKT-00	580	7181/12200	17
710	AF710B3-AL5-00	880	9123/15500	18
800	AF800B3-AL5-00	1800	13537/23000	19

Type: AF167D3-075-000



Material: Impeller made of plastic PA66

Type Of Protection : IP20

Technical Features: Control input 0~10VDC/PWM

Bearing: Ball bearing

Protection: Tach output, Locked-rotor protection, Current limited, Soft start

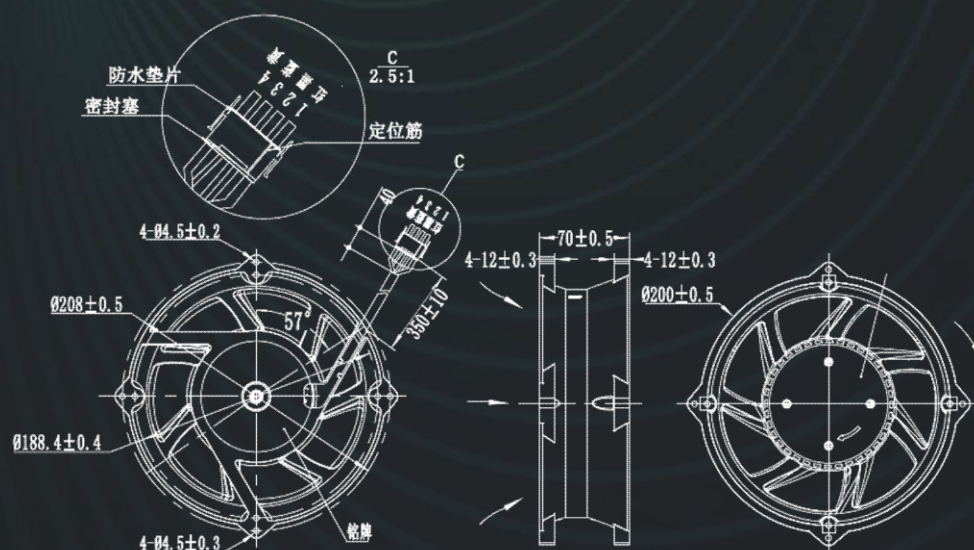
Motor Insulation Class: B

Direction Of Rotation: Clockwise, see on the leads.

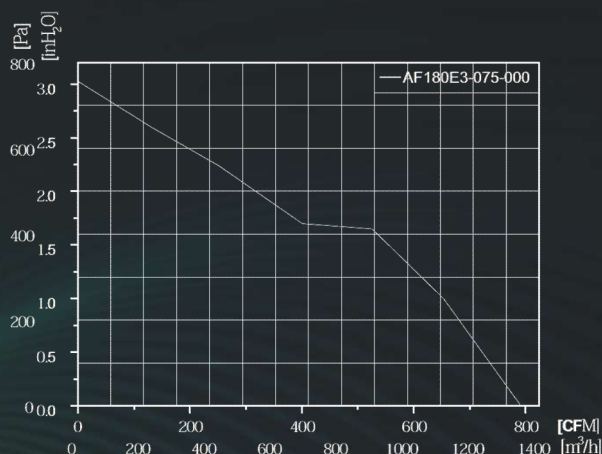
Approvals: CCC: 2015010401753627、CE: WTF18F01100558E

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
AF167D3-075-000	DE075D3-00001	48	-	694/1180	6100	197	4.1	73



Type: AF180E3-075-000



Material: Impeller made of plastic PA66

Type Of Protection : IP20

Technical Features: Control input 0~10VDC/PWM

Bearing: Ball bearing

Protection: Tach output, Locked-rotor protection, Current limited, Soft start

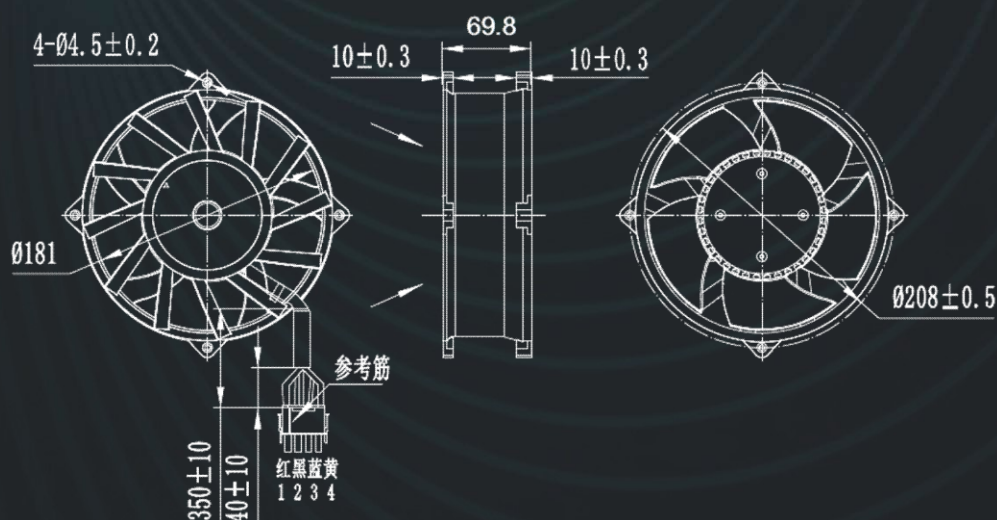
Motor Insulation Class: B

Direction Of Rotation: Clockwise, see on the leads.

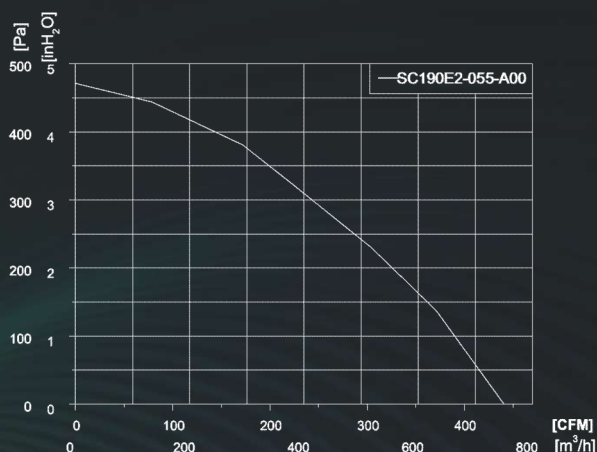
Approvals : CCC: 2015010401753627、CE: WTF18F12134389E

Amb.Temp : -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m ³ /h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
AF180E3-075-000	DE075E3-00001	48	-	736/1251	5300	158.5	3.1	73

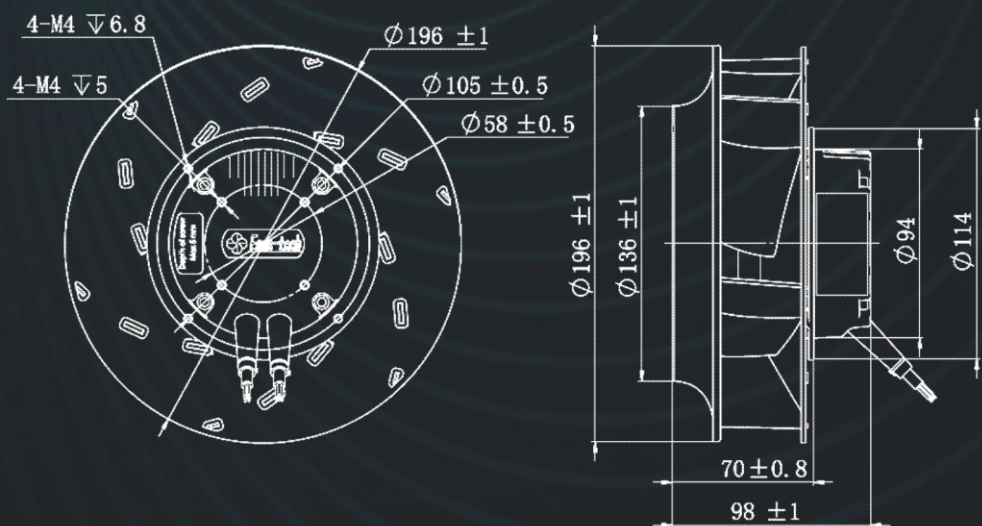


Type: SC190E2-055-A00

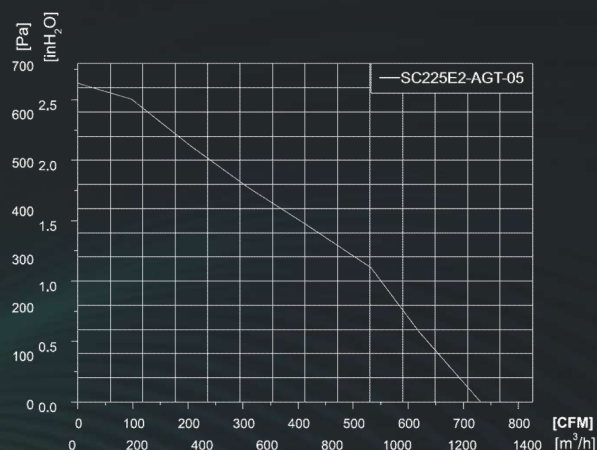


Material: Impeller made of plastic PA66
Type Of Protection: IP42
Technical Features: Control input 0~10VDC/PWM, Tach output
Bearing: Ball bearing
Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.
Motor Insulation Class: F
Direction Of Rotation: Anticlockwise, see on the leads.
Approvals: CE, CCC
Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC190E2-055-A00	DE055E2-A0000	1~230	50/60	424/720	3150	68	0.55	65



Type: SC225E2-AGT-05



Material: Impeller made of plastic PA66

Type Of Protection: IP54

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

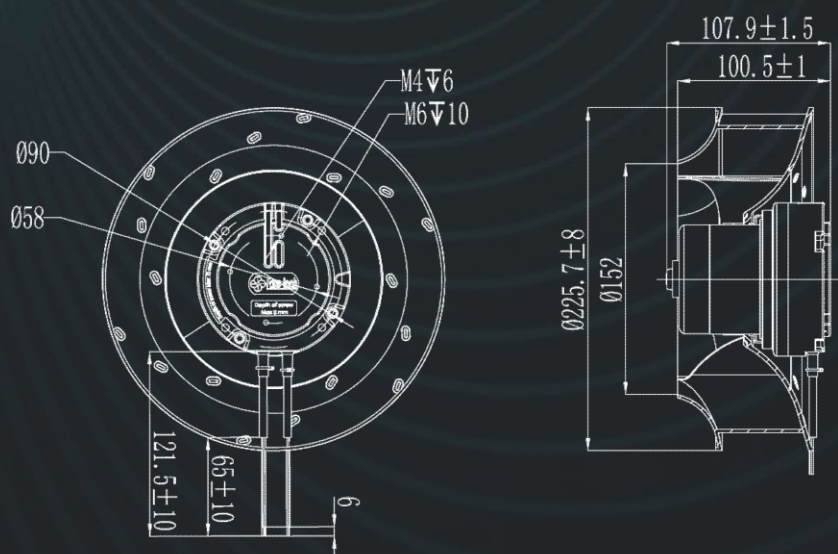
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

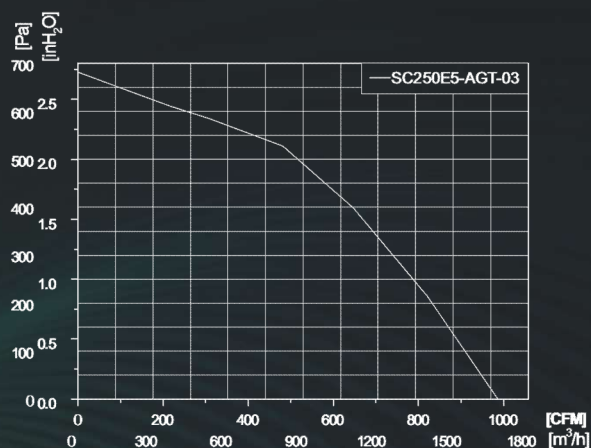
Approvals: CCC:2012010401544876、CE:WWTF17F0475898X1R1S

Amb.Temp : -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC225E2-AGT-05	DM055E2-AGT-19	1~230	50/60	718/1220	3200	135	1.03	78



Type: SC250E5-AGT-03



Material: Impeller made of plastic PA66

Type Of Protection: IP44

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

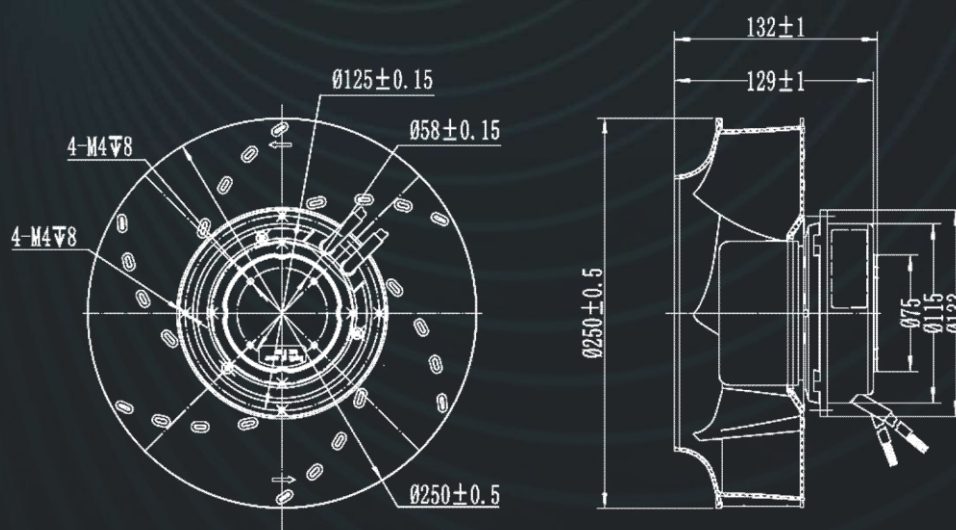
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

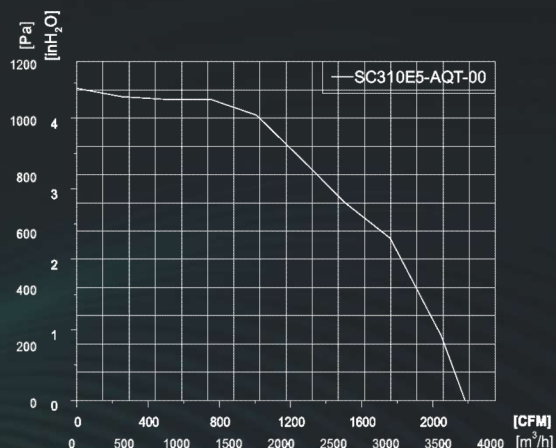
Approvals : CE, CCC

Amb.Temp : -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC250E5-AGT-03	DM075E5-AGT-11	1~230	50/60	989/1680	2900	205	1.5	72



Type: SC310E5-AQT-00



Material: Impeller made of aluminum alloy

Type Of Protection: IP44

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

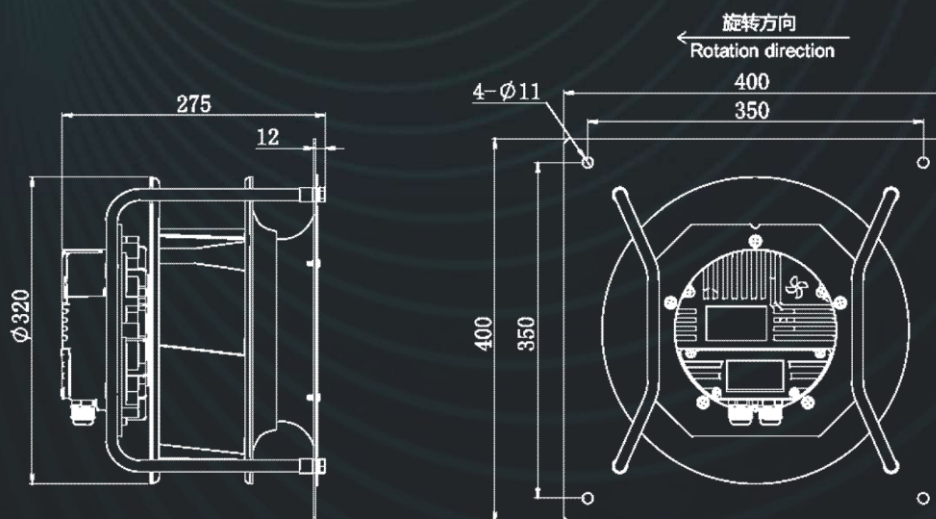
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

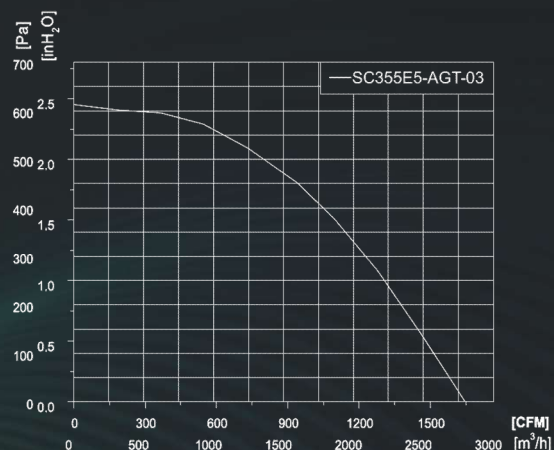
Approvals: CE, CCC

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC310E5-AQT-00	DM088E5-AQT-00	3~380~480	50/60	2179/3700	3150	800	1.5	82



Type: SC355F5-AGT-03



Material: Impeller made of aluminum alloy

Type Of Protection: IP44

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

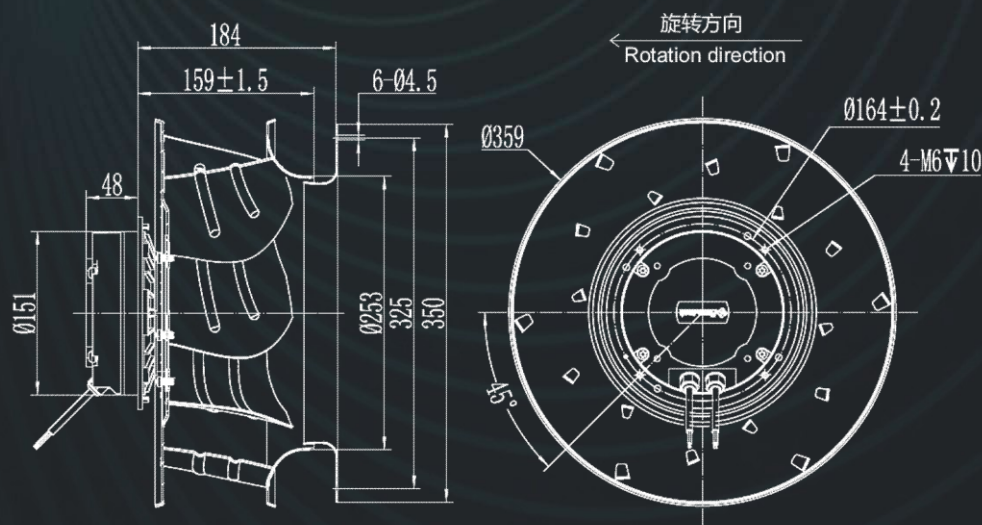
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

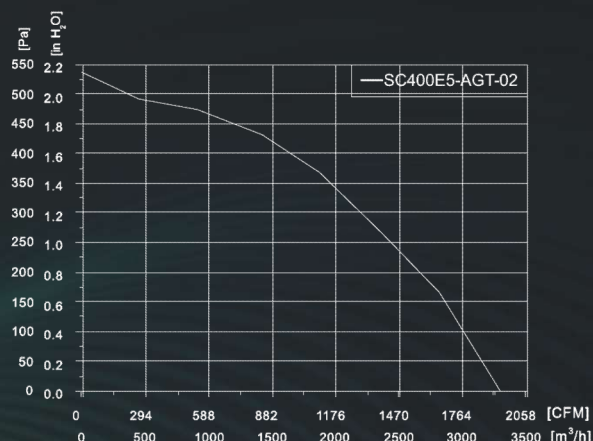
Approvals: CCC: 2014010401692125

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC355E5-AGT-03	DM088E5-AGT-07	1~230	50/60	3200/5440	1800	350	2.1	80



Type: SC400E5-AGT-02



Material: Impeller made of aluminum alloy

Type Of Protection: IP44

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

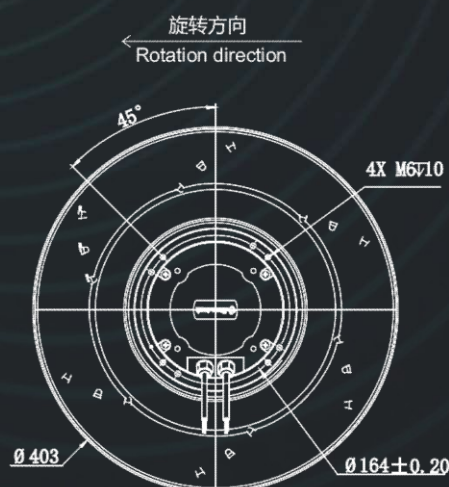
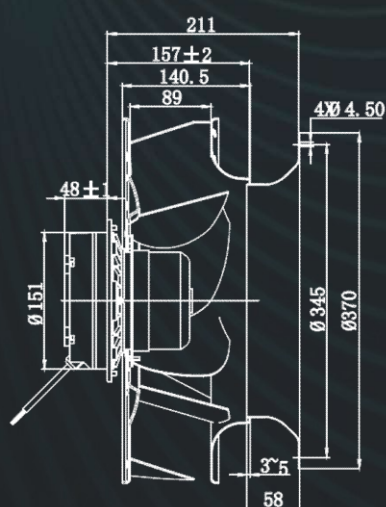
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

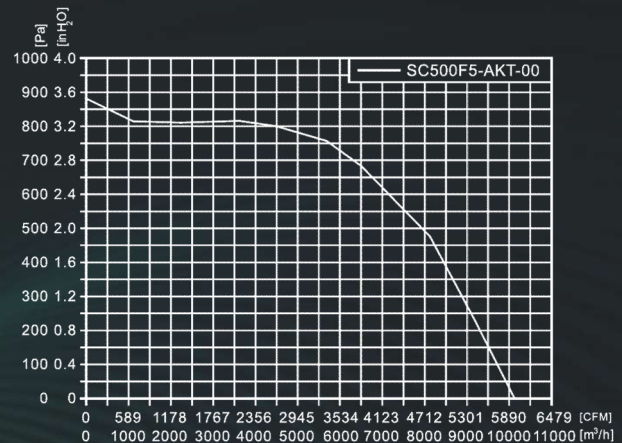
Approvals: CE, CCC

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC400E5-AGT-02	DM088E5-AGT-15	1~230	50/60	1942/3300	1480	310	2.0	80



Type: SC500F5-AKT-00



Material: Impeller made of aluminum alloy

Type Of Protection: IP44

Technical Features: Control input 0~10VDC/PWM, Tach output

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start.

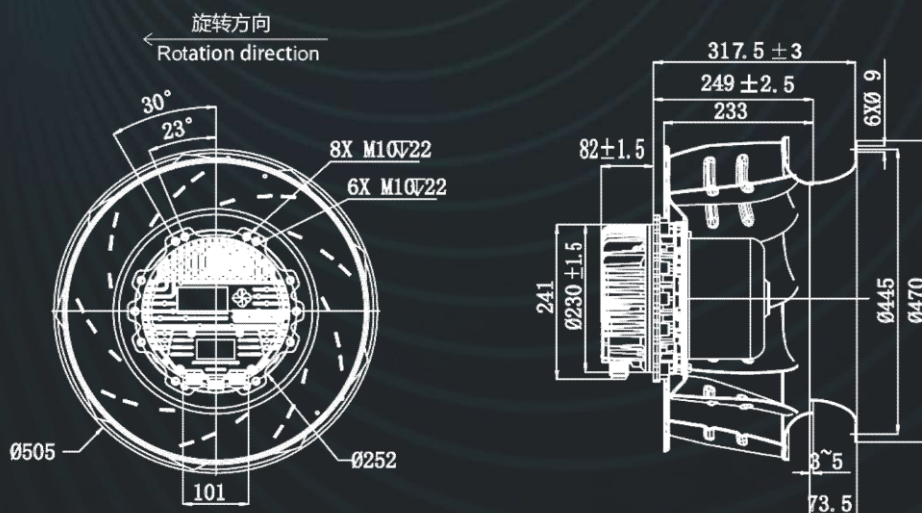
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

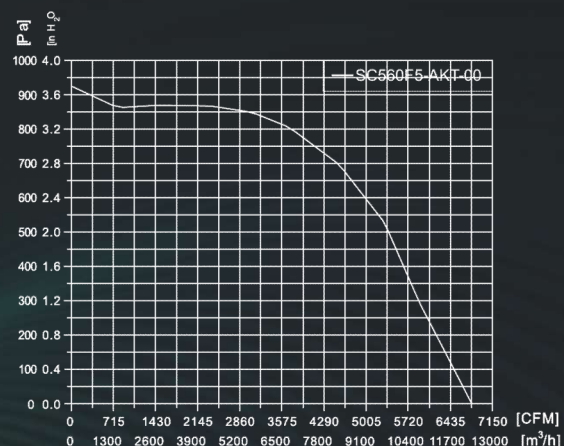
Approvals: CQC11006057817

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC500F5-AKT-00	DM150F5-AKT-01	3~380	50/60	6180/10500	1650	1350	2.2	85



Type: SC560F5-AKT-00



Material: Impeller made of aluminum alloy

Type Of Protection: IP54

Technical Features: Control input 0~10VDC/PWM, Tach output, RS485 MODBUS

Bearing: Ball bearing

Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start, phase failure detection.

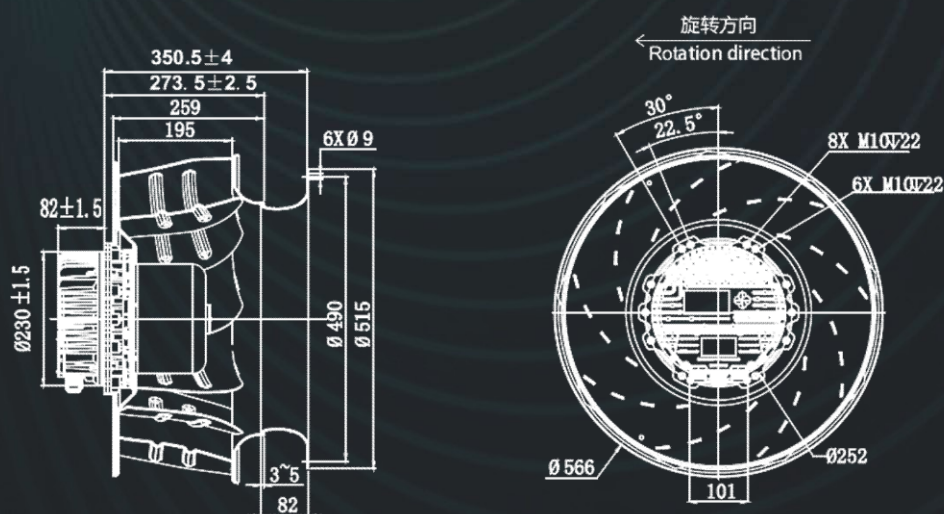
Motor Insulation Class: F

Direction Of Rotation: Anticlockwise, see on the leads.

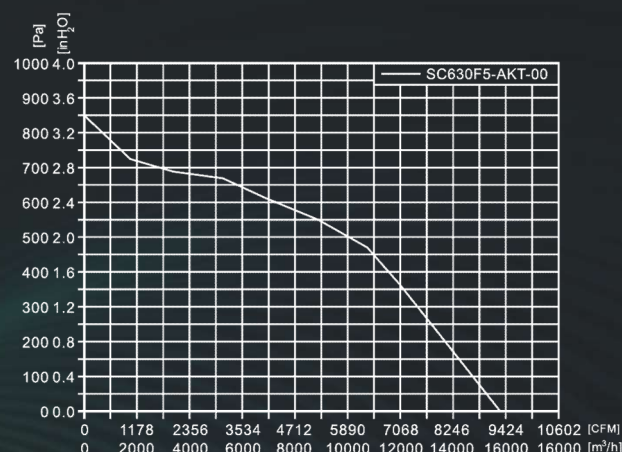
Approvals: CE, CCC

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC560F5-AKT-00	DM150F5-AKT-02	3~380	50/60	7357/12500	1500	1750	2.7	85

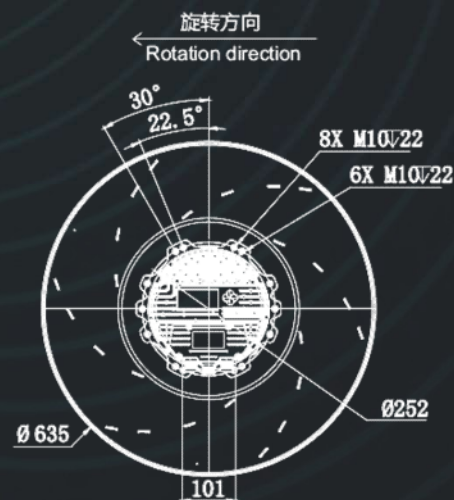
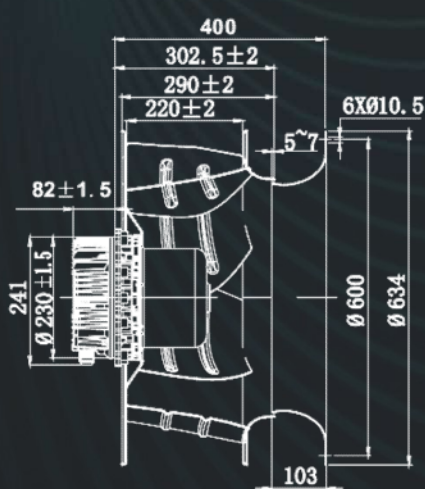


Type: SC630F5-AKT-00

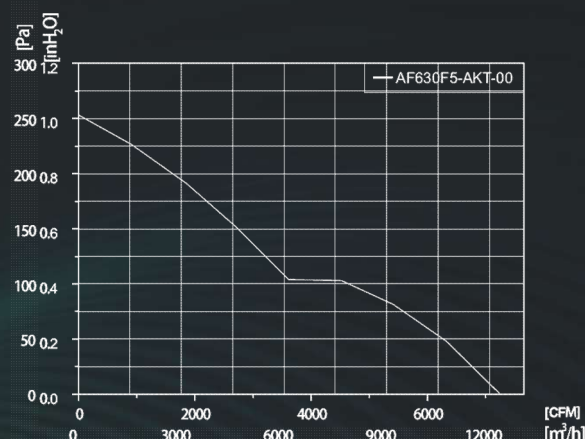


Material: Impeller made of aluminum alloy
Type Of Protection: IP54
Technical Features: Control input 0~10VDC/PWM, Tach output, RS485 MODBUS
Bearing: Ball bearing
Protection: Locked-rotor protection, current limited, under-voltage and over-voltage lockout protection, soft start, phase failure detection.
Motor Insulation Class: F
Direction Of Rotation: Anticlockwise, see on the leads.
Approvals: CE, CCC
Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
SC630F5-AKT-00	DM150F5-AKT-03	3~380	50/60	9417/16000	1200	1600	2.6	85



Type: AF630F5-AKT-00



Material:

Fan guard: Steel, and coated in matt black
 Inlet ring: Cold-roll sheet steel and coated in black or white plastic
 Impeller: Completely made of aluminum metal
 Rotor: Coated in black
 Electronics enclosure: Die-cast aluminium
 Number of blades: 5
 Direction of rotation: Anti-clockwise
 Type of protection: IP54
 Mounting position: Shaft horizontal or rotor on bottom
 Rotor on top on request
 Operation mode: (S1)

Bearing : Ball bearing

Technical features: Control input 0~10VDC/PWM
 Output 10VDC+10%, max, 10mA
 Integrated PID controller
 Tach output, Alarm relay
 RS485 MODBUS

Protection: Line undervoltage, Motor current limitation,
 Locked-rotor protection, Soft start, Phase failure detection, Thermal protector

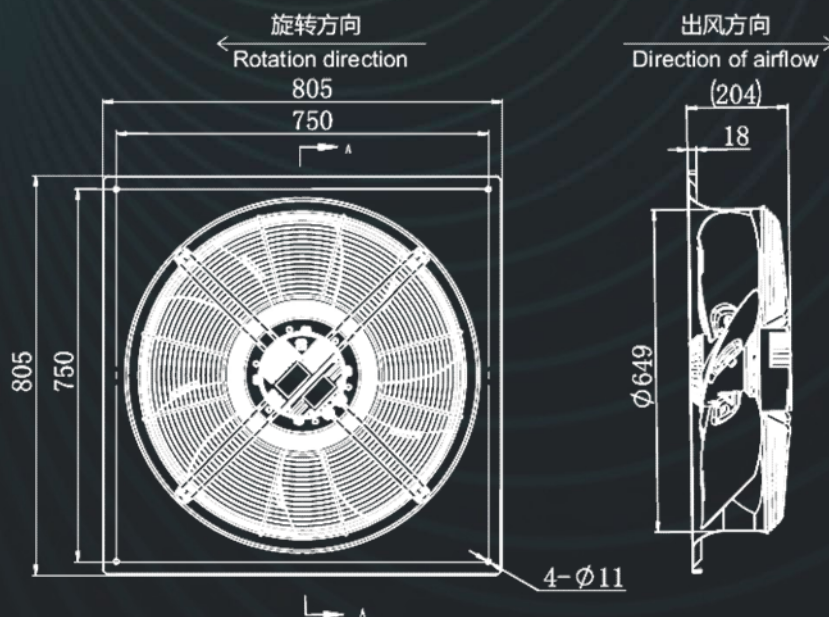
Motor Insulation Class: F

EMC: According to EN61000-6-3/2, EN61000-3-2/3

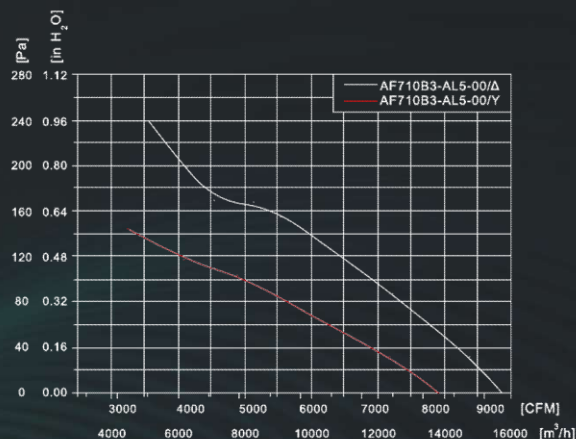
Approvals: CCC: 2015010401765795

Amb.Temp: -25~60°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
AF630F5-AKT-00	DM112F5-AKT-00	3~380	50/60	7181/12200	930	580	1.15	75



Type: AF710B3-AL5-00



Material: Impeller completely made of aluminum metal

Number of blades: 5

Optional Parts: Fan guard , inlet ring

Type of protection: IP54

Bearing: Ball bearing

Protection: Thermal Overload Protector wired internally

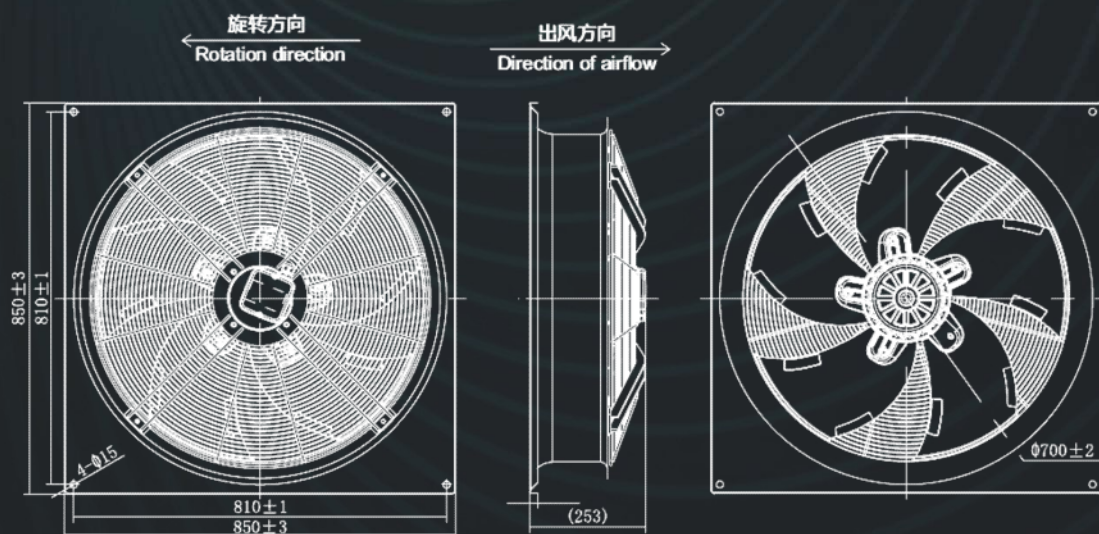
Motor Insulation Class: F

Direction of rotation: Anti-clockwise, see on the leads

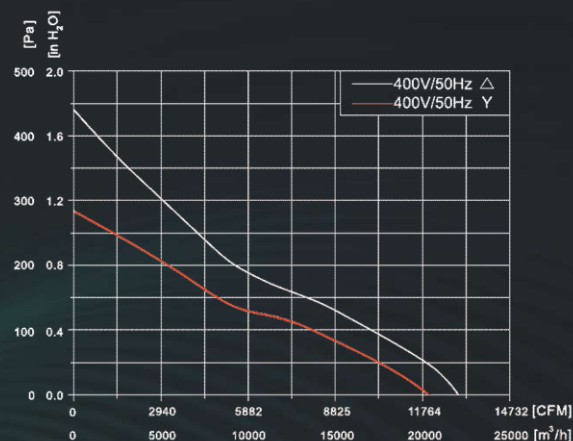
Approvals: CE: WTF15F0628501R1R3S

Amb.Temp:-40~+65°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Connection way	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
AF710B3-AL5-00	AM137B3-AL5-05	3~400	50	Δ	9123/15500	930	880	2.2	76
				Y	8240/14000	830	720	1.3	74



型号： AF800B3-AL5-00



Material: Impeller completely made of aluminum metal

Number of blades: 5

Optional Parts: Fan guard , inlet ring

Type of protection: IP54

Bearing: Ball bearing

Protection: Thermal Overload Protector wired internally

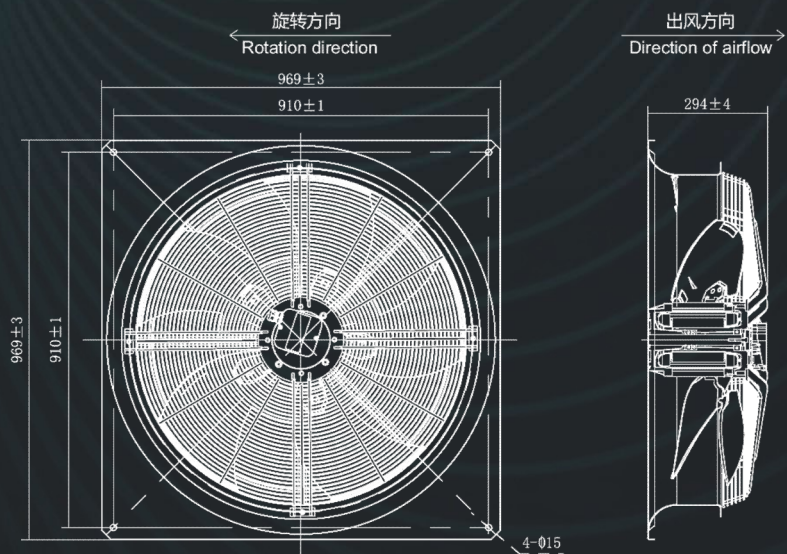
Motor Insulation Class: F

Direction of rotation: Anti-clockwise, see on the leads

Approvals: CE: WTF15F0628501R1R3S

Amb.Temp:-40~+65°C

Type	Motor	Voltage (VAC)	Frequency (Hz)	Connection way	Airflow (CFM)/(m³/h)	Speed (rpm)	Power (W)	Current (A)	Noise Lp:dB(A)
AF800B3-AL5-00	AM137B3-AL5-03	3~400	50	△	13537/23000	940	1750	4.2	79
				Y	12360/21000	850	1350	2.3	74





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