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Fan Industry Inverter Controller for Air Conditioning/ Fan



China Drive

Catalogue

China Drive Electric Co., LTD., located in Quzhou, Zhejiang, the holy land of south Kong at the border of Zhejiang, Fujian and Jiangxi provinces, advocates the business philosophy of gathering talents for win-win cooperation and focuses on the establishment of intelligent manufacturing industry chain to provide customized intelligent production overall solutions. China Drive was founded in 2011. After years of independent research and development and innovation, it has obtained dozens of authorized patents and also been awarded the honorary title of national high-tech Enterprise.

The company has built modern R&D centers and service teams in Quzhou, Hangzhou, Jinan and other places, bringing together professional R&D teams in various fields of intelligent manufacturing, so that China Drive has strong R&D strength; After ten years of development test of the production management system, so that China Drive have automatic drive production line, to ensure the efficiency and quality of delivery; The global strategic layout ensures that China Drive can tailor systematic intelligent manufacturing products and solutions for customers around the world, and provide efficient services.

The company focuses on the industry, among which the fan industry products include environmental protection air conditioning speed control controller, fan speed control controller, industrial fan speed control controller, centrifugal fan frequency converter, etc. Including 100L1 series, 101L3 series, 200L1 series, 200L3 series, 100F1 series, 200G series, etc., It can meet the diversified needs of users. Products are exported to domestic and foreign (throughout the United States, Mexico, India, Vietnam, Russia, Turkey, Brazil, Iran and other 39 countries and regions), with its superior performance and super high cost performance to occupy the industry market. The company is committed to becoming the core supplier of the fan industry, emphasizing the common growth of customer value and enterprise value, and achieving a win-win situation.

In the future, on the basis of continuing its business philosophy, China Drive Electric company will also keep in mind the vision of "empowering the intelligent manufacturing industry and liberating manual labor", implement the values of "learning, focus, teamwork, intelligence and dedication", and realize its own value by creating value for customers, employees and society.

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Inverter Controller for Air Conditioning

100L1 series 200L1 series

Product introduction

100L1 and 200L1 series environmental conditioning speed control controller is a professional frequency conversion control system integrating control motherboard and operation panel. This product adopts indoor installation, with remote control independent air duct performance superior, convenient installation and simple maintenance. By controlling the water pump pumping water flows between the wet curtain in the machine, and the large area of contact with the air evaporation heat dissipation, by controlling the speed of the fan to control the size of the air volume, the cooling and humidifying air into the room, so that the indoor temperature is reduced, and strengthen the indoor air flow, the replacement of fresh air. The system adopts frequency conversion technology, which can save energy and electricity, adjust the air volume, and realize the function of air supply and exhaust, which is an ideal cooling ventilation and humidification system for factory workshops, public places, office buildings, etc.

1. Speed range: 0-50HZ or 0-60HZ (60HZ must be specified when ordering).
2. Specifications and models: 1.5KW-220V, 2.2KW-220V, 4KW-220V
1.5KW- 380V, 2.2KW-380V, 3KW-380V
4KW-380V, 5.5KW-380V, 7.5KW-380V
11-30KW Customizable
3. It can realize refrigeration air supply and reverse exhaust air.
4. It can control the position of the swing leaves and control different wind directions.
5. It can control the drainage motor to realize the cleaning function.
6. Built-in infrared controller can realize remote control within 20m.
7. With low voltage, overvoltage, overcurrent, overtemperature, overload, output short circuit and other protection.
8. Adopt recoverable fuse, no need to replace the fuse frequently, reduce the failure rate.
9. The 200L1 supports permanent magnet synchronous motors.

Product features



Remote control
frequency control
protection fan
energy saving
compatible with
permanent magnet

100L1 series (1.5-7.5KW) 200L1 series (1.5-3KW)

Wiring diagram and instructions for use

1

100L1 -1: The terminal is under the controller, open the terminal cover, the terminal block is visible, and the two fixing holes in the upper left and lower right corners are fixed when installing.

100L1-2: The incoming end is above the controller and the outlet end is below the controller. Open the terminal cover to see the terminal block, and fix the two fixing holes in the upper left and lower right corners when installing.

200L1: The terminal block is under the controller, the terminal block is directly visible, and the two fixing holes in the upper right and lower left corners are fixed with screws during installation.

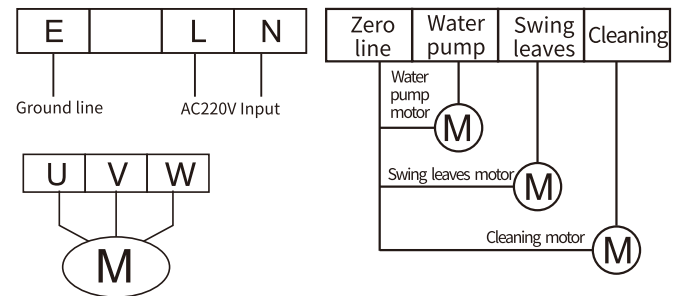
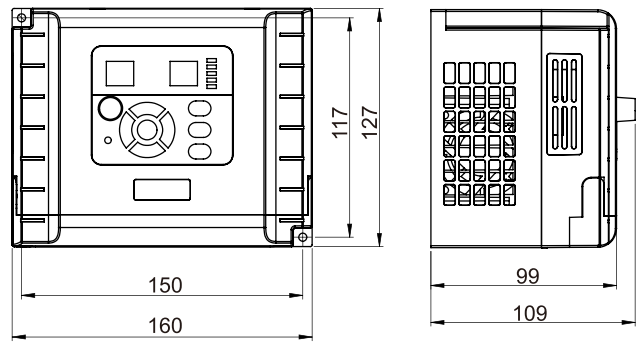
2

Correctly installed according to the wiring drawing, the 380V power supply line is connected to the "R, S, T" terminal, the 220V power supply line is connected to the "L, N" terminal, and the motor output line is connected to the "U, V, W" terminal.

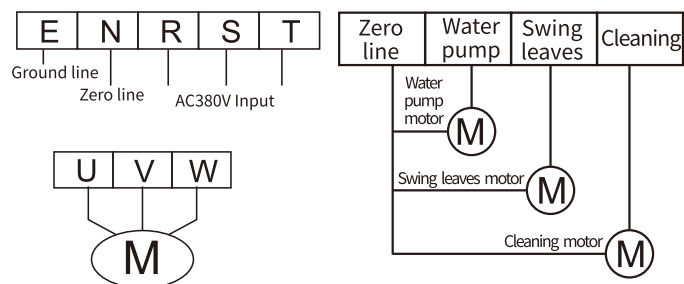
3

Wiring diagram

100L1-1:1.5-3KW

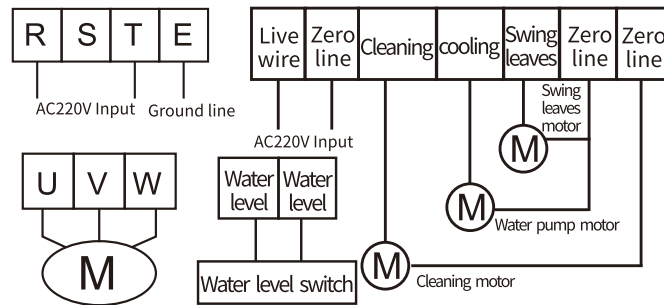
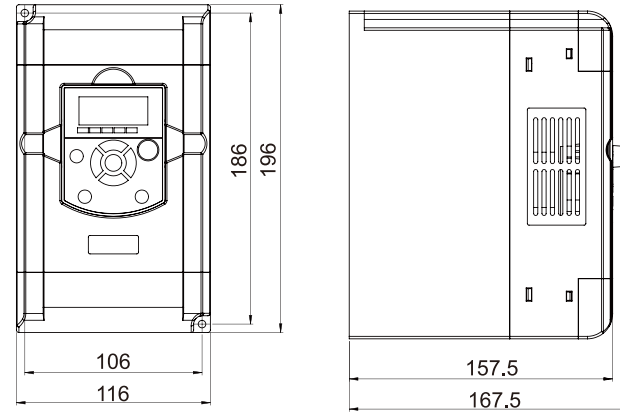


AC220V Three-phase asynchronous motor
Environmental protection air conditioning speed controller,
AC220V input, AC220V output wiring diagram

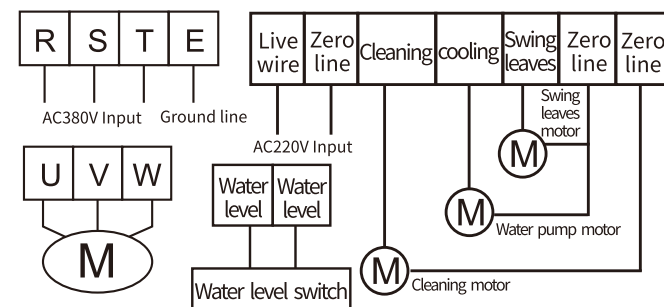


AC380V Three-phase asynchronous motor
Environmental protection air conditioning speed controller,
AC380V input, AC380V output wiring diagram

100L1-2:4-7.5KW

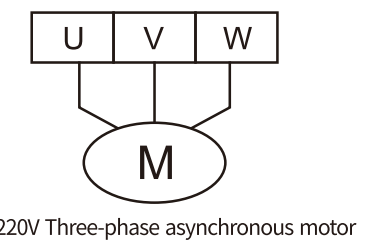
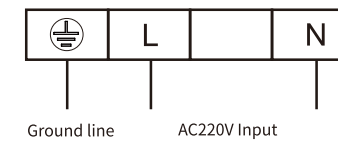
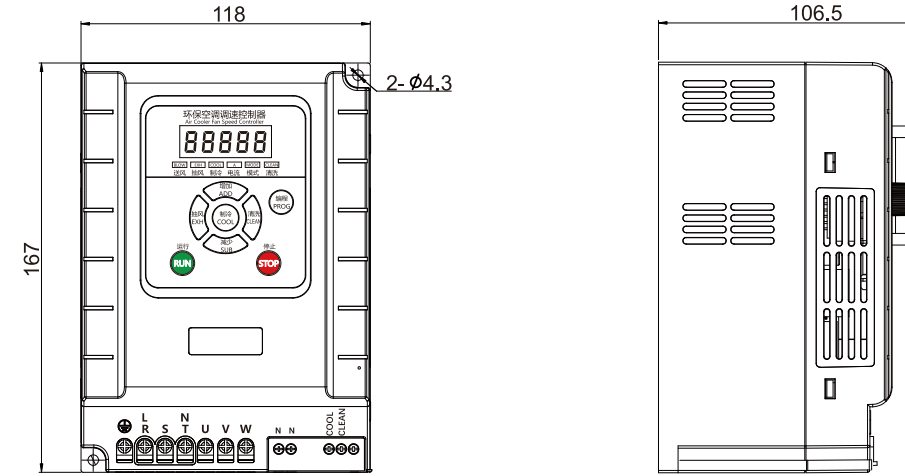


AC220V Three-phase asynchronous motor
Environmental protection air conditioning speed controller,
AC220V input, AC220V output wiring diagram

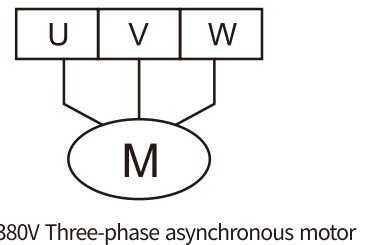
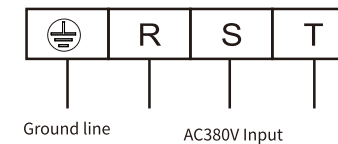
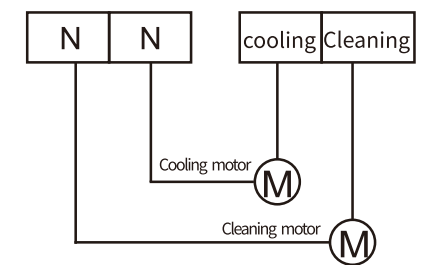


AC380V Three-phase asynchronous motor
Environmental protection air conditioning speed controller,
AC380V input, AC380V output wiring diagram

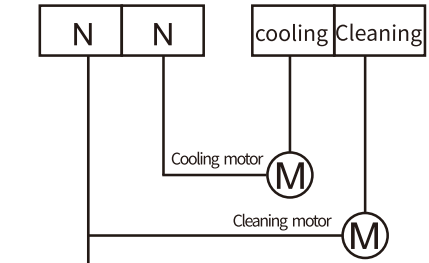
200L1:1.5-3KW



AC220V Three-phase asynchronous motor



AC380V Three-phase asynchronous motor



Note: When using a single-phase 380V motor for refrigeration, this position is connected to the live wire, do not connect it wrong.

External accessories



Inverter Controller for Air Conditioning

101L3 series 200L3 series

Product introduction

101L3 and 200L3 series environmental protection air conditioning speed control controller is a professional frequency conversion control system that controls the main board and the operation panel separately, remote control with machine key separation dust resistance and anti humidity (IP65) through RS485 communication control. The motherboard automatically detects the water level status and controls the water inlet by the inlet valve, The water pump circulates the water between the wet curtains in the machine, and evaporates and dissipates heat in large contact with the air. By controlling the speed of the fan, the air volume is controlled, and the air after cooling and humidification is sent into the room, so that the indoor temperature is reduced, and the flow of indoor air is strengthened. The system adopts frequency conversion technology, can save energy and electricity, the air volume is adjustable, and can realize the function of air supply and exhaust, temperature and humidity can be controlled, and is an ideal cooling ventilation and humidification system for factory workshops, public places, office buildings, etc.

1. Speed range: 0-50HZ or 0-60HZ (60HZ must be specified when ordering).
2. Specifications and models: 1.5KW-220V, 2.2KW-220V
1.5KW-380V, 2.2KW-380V, 3KW-380V
3. It can realize refrigeration air supply and reverse exhaust air.
4. It can control the position of the swing leaves and control different wind directions.
5. It can control the drainage motor to realize the cleaning function.
6. Built-in infrared controller can realize remote control within 20m.
7. With low voltage, overvoltage, overcurrent, overtemperature, overload, output short circuit and other protection.
8. Adopt recoverable fuse, no need to replace the fuse frequently, reduce the failure rate.
9. The 200L3 supports permanent magnet synchronous motors.



101L3 series 200L3 series (1.5-7.5KW)

Product features

- Machine key separation
- Remote control
- Multi-speed regulation
- Automatic temperature control
- Compatible with permanent magnets

Wiring diagram and instructions for use

1

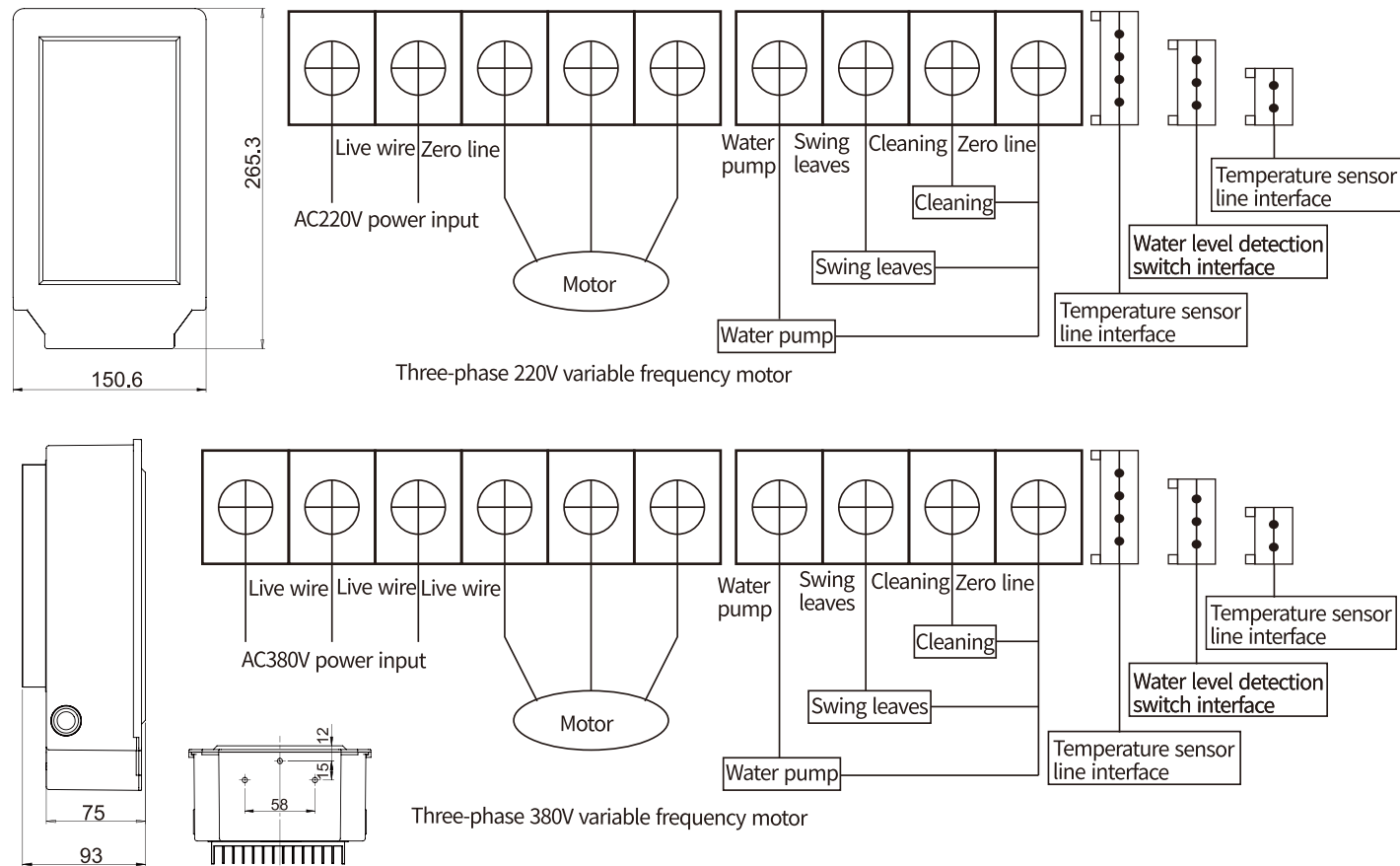
The cable outlet is connected to the left and right sides of the controller. The fixed mounting holes are at the bottom of the controller. The cable outlet can be installed vertically through the three mounting holes at the bottom.

2

According to the wiring drawings, the input wire of 380V power is connected to the R, S and T terminals, the input wire of 220V power is connected to the L and N terminals, and the output wire of the motor is connected to the U, V and W terminals.

3

Wiring diagram



External accessories

1. Display/Keyboard – JP7/JP8/JP9 (optional keyboard, standard)



The keyboard is divided into key keyboard and touch screen keyboard, please refer to the above instructions for each function introduction.

Keyboard extension cable length 6M (standard).

2. Ordinary remote control and LCD remote control (standard)



The remote control is divided into ordinary remote control and LCD remote control, and the infrared interface of the keyboard should be aligned when using the infrared remote control. The default is a normal remote control).

3. Temperature sensor (optional)



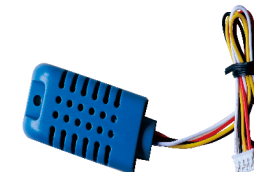
The temperature sensor is installed at the air outlet of the air cooler to detect the internal temperature of the air cooler.

4. Single float water level monitoring switch and double float water level monitoring switch (optional)



The water level monitoring switch is controlled by a float and mounted on a water level bracket. When the water level is high, the float floats up and contacts the internal magnetic induction switch under the action of buoyancy. At this time, the signal detection is disconnected and the water level is normal. When the water level is low, the float sinks under the action of gravity and contacts the internal magnetic induction switch. At this time, the signal detection is closed, and the water level alarms, and the refrigeration function cannot be realized. (Can be divided into single float water level switch and double float water level switch).

5. Temperature and humidity sensor (optional)



The temperature and humidity sensor works with the keyboard to monitor indoor temperature and humidity and automatically adjust the temperature and humidity.

Inverter Controller for Air Fan

100F1 series

Product introduction

100F1 series fan speed control controller is a professional frequency conversion control system integrating control board and operation panel. This product adopts indoor installation, easy installation, simple maintenance, good sealing, good dust/moisture-proof effect, simple and easy to understand, with power-off memory frequency, it can call self-start, low temperature shutdown and timer switch function. The control system adopts frequency conversion technology, which can save energy and electricity. The air volume can be adjusted manually or automatically.

Through the temperature sensor to detect the indoor temperature, to achieve automatic control of fan air volume, the indoor high temperature air is discharged to the outdoors, so that the indoor temperature is reduced, and the indoor air flow is strengthened, and the fresh air is replaced, which is an ideal cooling and ventilation control system for factory workshops, animal husbandry and other places.

1. Speed range: 0-50HZ or 0-60HZ (60HZ must be specified when ordering).
2. Specifications and models: 1.5KW-220V, 2.2KW-220V
1.5KW- 380V, 2.2KW-380V, 3KW-380V
3. The air volume can be controlled manually by the speed knob and the ▲/▼ keys.
4. External temperature sensor can realize PID control, according to the temperature set value, automatically control the air volume.
5. With low voltage, overvoltage, overcurrent, overload, output short circuit and other protection.

Product features

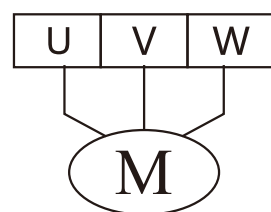
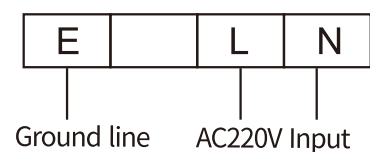
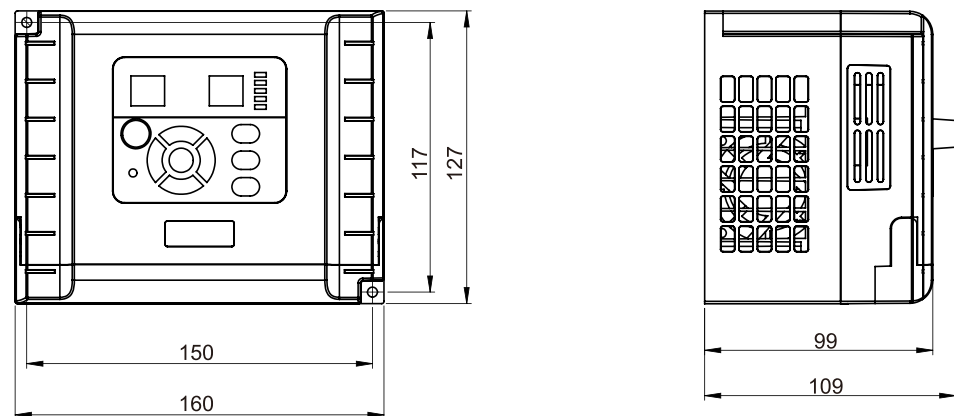
- Manual speed regulation
- Automatic speed regulation
- Low temperature shutdown
- Self-start
- Power-off memory



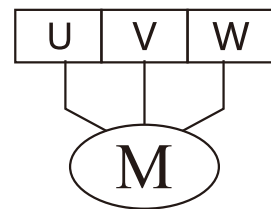
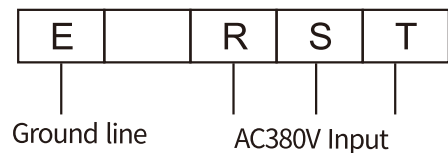
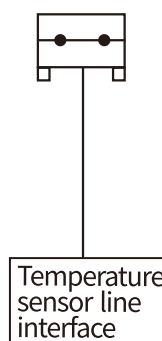
100F1 series (1.5-3KW)

Wiring diagram and instructions for use

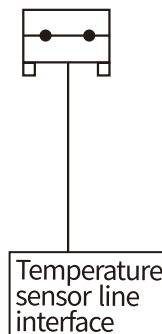
- 1 When installing, fix the two fixing holes in the upper left corner and the lower right corner, the terminal is under the controller, open the terminal cover, and start wiring.
- 2 According to the wiring drawings, the 380V power supply is connected to the R, S and T terminals, and the motor is connected to the U, V and W terminals.
- 3 The temperature sensor wire must be connected reliably, otherwise the automatic air volume control function will be affected.
- 4 Wiring diagram



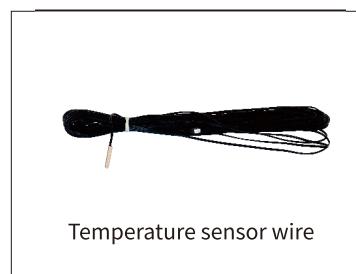
AC220V Three-phase asynchronous motor
AC220V input, AC220V output wiring diagram



AC380V Three-phase asynchronous motor
AC380V input, AC380V output wiring diagram



External accessories



Vision: Empower the intelligent manufacturing industry and liberate manual labor

Mission: To become a first-class intelligent manufacturing solution provider

Values: Learning, Focus, Teamwork, Intelligence, Dedication



Technical solution analysis, frequency conversion and selection; Products and software can be customized according to customer needs

Pre-sale service



In-sale service

Timely delivery, technical training, installation and commissioning

Use effect tracking, fault repair, software upgrade

After-sales service



www.zjqdq.com

The company is headquartered in Zhejiang Province

More than **20 offices** nationwide, UNPROFOR center, after-sales service center

24-hour quick response technical support service

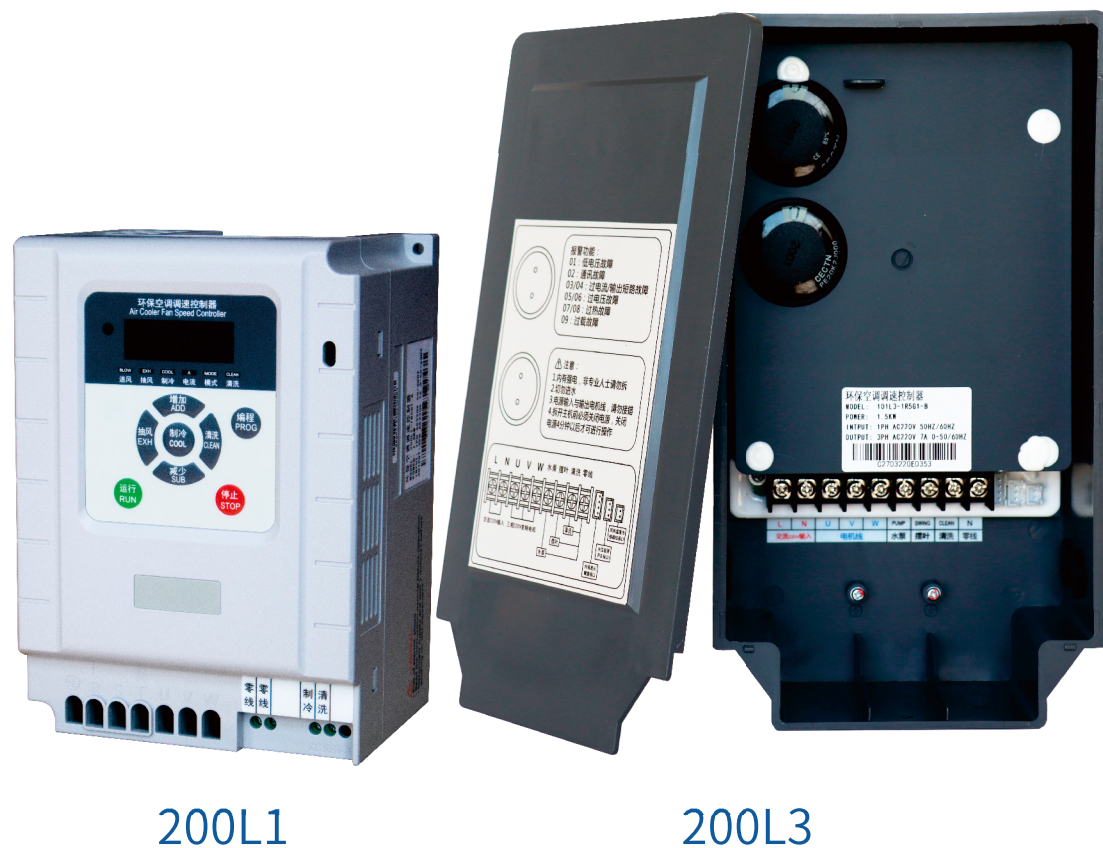
Contact within **30-minutes** and solution within **120 minutes**

Ensure the timely response to customer needs

Industry applications

Advantage

1. Applicable to various fan types
2. Energy saving, environmental protection, low noise, long life
3. Independent air duct, remote control
4. Customizable
5. Support **permanent magnet synchronous motor**



200L1

200L3

◆ Large assembly shop

For occasions with large space and complex structure, advanced air conditioning technology is adopted to create a good assembly space.



◆ Small assembly line workshop

Such as mechanical processing, automobile repair, electronic industry, food packaging and other workshop, comfortable environment to improve labor productivity.



◆ Large logistics warehouse and distribution center

Improve air quality, dehumidification and cooling, can prevent storage rust and decay, and improve the working environment.



◆ Densely staffed area

Such as shopping malls, stadiums, playgrounds, railway stations, airports and other places with a large flow of people, which can promote the circulation of air and air, disperse peculiar odors, and create a comfortable public place environment.



◆ Livestock sector

Promote air circulation, dispel odor, cooling and humidification, so that livestock herds have a good living environment.

