

Operating Instructions for the Stepless variable frequency speed controller of Environmental protection air conditioning

1. Functional specifications

- 1.1 Speed range : 0HZ-60HZ (A scale of 0-1440 to a 4 pole motor).
- 1.2 Achieve the supply of cooling air and inversion of convulsions.
- 1.3 Control the position of leaf to change the wind direction.
- 1.4 Control the drainage of motor to achieve the cleaning effect.

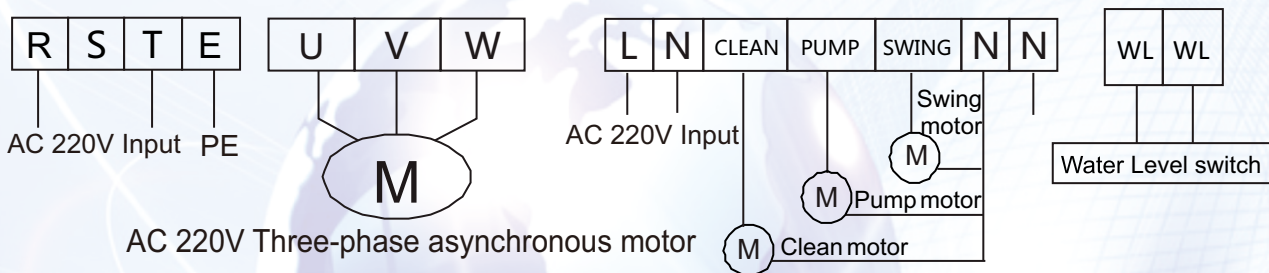


2. Directions for use

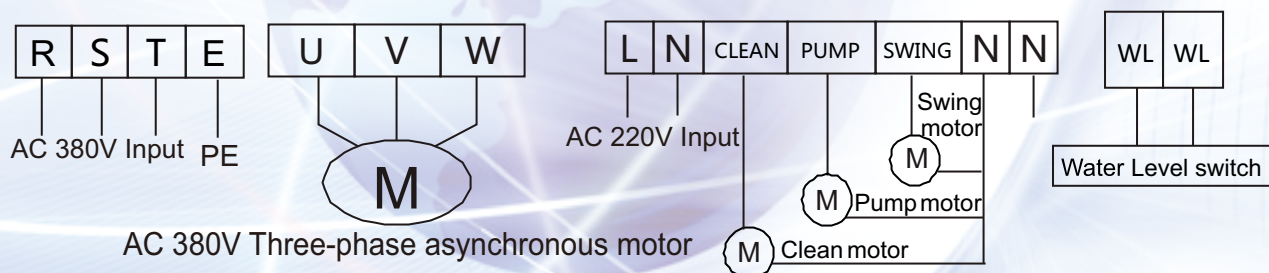
- 2.1 Do correct wiring according to the wiring diagram as below, please pay attention that the connection of motor output line and the power line must be correct , the voltage of zero line and firing line of 380 v controller must be AC220V.
- 2.2 After correct connection, keep power on, and then press the key, the power lights are turned on, other operations can be performed.
- 2.3 Refrigeration motor operation control is set by **制冷 COOL** , **水泵 PUMP** light up to show working .
- 2.4 leaf motor operation control is set by **摆叶 SWING** , **摆叶 SWING** light up to show working
- 2.5 Convulsions control is set by **抽风 EXHAUST** , **抽风 EXHAUST** light up to show working
- 2.6 Drainage motor operation control is set by **清洗 CLEAN** , **清洗 CLEAN** light up to show working
- 2.7 The power switch is controlled by **运行 RUN** / **停止 STOP**
- 2.8 Main motor is controlled by **开 ON** / **关 OFF**
- 2.9 Speed can be adjusted by addition key **减少 SUB** and reduction key **增加 ADD** , or adjusted by speed control knob.



3. Wiring diagram



AC 220V Input, AC 220V Output wiring diagram



AC 380V Input, AC 380V Output wiring diagram

4. Protection function

- 4.1 Over voltage protection;
- 4.2 Low voltage protection;
- 4.3 Instantaneous stop and restart;
- 4.4 Stall prevention;
- 4.5 Protect the software and hardware when output short circuit;
- 4.6 Other functions: overheating protection for the cooling fin, and etc.

5. Special considerations

5.1 Storage

- Must be placed in clean, dry place;
- The temperature range of storage environment is between -20°C to $+65^{\circ}\text{C}$; And no condensation;
- Storage environment is free of corrosive gas and liquid.
- It is better to put it on the shelf, and package appropriately
- Do not leave the Inverters unused for long time, or will lead to the degradation of electrolytic capacitors. If needs to be unused for a long time, must ensure that it is electrified one time in one year, the time of electrifying should be over 5 hours at least, and input voltage should be increased slowly to the rated voltage with a voltage regulator.

5.2 Installation site and the environment

- Environment temperature is between -5°C to 40°C ;
- Avoid the electromagnetic interference, keep away from the interference sources;
- Avoid the invasion of water, steam, dust, lint, metal powder;
- Avoid the invasion of oil, salt and corrosive gas;
- Avoid the vibration;
- Avoid the high temperature and high humidity, and ensure no rain drenched, humidity is less than 90% (Don't connect in dew weather);
- It is prohibited to use in the dangerous environment of flammable, combustible and explosive gas and liquid.

Note: the environment situation of installation site will affect the service life of inverter. It can be only installed by professional persons.

5.3 The installation space and direction

- For cooling and ventilation, need to leave enough space around the inverter;
- In order to ensure the good effect of cooling, the inverter must be installed vertically, and maintain the smooth circulation of air;
- If installation is not strong enough, please set a tablet under of the foundation of the frequency converter before installation. It may cause the damage of main circuit parts and damage of frequency converter if the inverter is installed in the loose surface.
- The wall of installation need to be incombustible material such as iron;
- More than one frequency converters are installed on the same cupboard, using upper and lower installation, we should note the space between them while please find flow partition.

Do not wet or hand in hand with the metal contact when inverter with metal parts

Warranty card

Model: _____ Factory barcode: _____

The name of the company: _____

Address: _____

Purchase date: _____ Contact: _____

Phone: _____ Mobile phone: _____

Fax: _____ E-MAIL: _____