JOJIDE 1005005969377119

JOJIDE Frequency Inverter User Manual

Model: 1005005969377119

1. Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your JOJIDE 0.75 kW to 5.5 kW Three-Phase Motor Frequency Inverter. Please read this manual thoroughly before using the product and retain it for future reference. This device is designed to control the speed of three-phase motors by varying the frequency and voltage of the power supplied to the motor.

2. Safety Information

WARNING: Electrical shock hazard. Only qualified personnel should perform installation and maintenance. Disconnect all power before servicing.

- Ensure proper grounding of the inverter and motor.
- Do not operate the inverter with damaged cables or if the casing is open.
- Verify input voltage matches the inverter's specifications.
- Allow at least 5 minutes after power disconnection for capacitors to discharge before touching internal components. A "DANGER 5 min" warning is present on the unit.
- Protect the inverter from moisture, dust, and corrosive gases.

3. Product Overview

The JOJIDE Frequency Inverter is a versatile AC frequency converter designed for precise motor speed control. It offers stable quality, reduced energy loss, and excellent low-frequency torque performance.

Image 3.1: Front view of the JOJIDE Frequency Inverter highlighting its vector control capabilities and key features such as stable quality, reduced loss, and low frequency with large torque.

3.1 Key Features

- Wide output frequency range: 0.1-400 Hz
- Output power: 750W-5500W
- Available for both 220V single-phase input (for 220V 3-phase output) and 380V three-phase input (for 380V 3-phase output).
- Compact design for space-saving installation.
- Easy installation and wiring.
- Strong parameter stability and user-friendly operation.

Image 3.2: Two JOJIDE Frequency Inverters, showcasing their compact design and highlighting advantages such as low repair rate, reduced volume, easy installation, and stable parameters.

4. Specifications

Parameter	Value
Model Number	1005005969377119
Output Frequency	0.1 - 400 Hz
Output Power Range	750W - 5500W
Type	AC Frequency Inverter
Weight	1 - 1.5 kg

Parameter	Value
Dimensions (L x W x H)	20 cm x 13 cm x 10 cm
Output Voltage	220V 3-phase / 380V 3-phase
Input Voltage	220V single-phase / 380V three-phase
Output Current (Examples)	SU300-0R75G2: 4A; SU300-1R5G2: 7A; SU300-2R2G2: 9.6A; SU300-4R0G2: 17A; SU300-0R75G3: 2.5A; SU300-1R5G3: 4.1A; SU300-2R2G3: 5.8A; SU300-4R0G3: 9A; SU300-5R5G3: 13A

Image 4.1: Physical dimensions of the frequency inverter, showing approximate measurements of 9.5 cm width, 18.0 cm height, and 11.3 cm depth.

5. Setup and Installation

5.1 Mounting

The inverter can be mounted using a guide rail for easy installation.

Image 5.1: Illustration of the guide rail mounting method, allowing for quick and secure installation of the inverter.

5.2 Wiring

Refer to the following diagrams for correct wiring of the frequency inverter. Ensure all connections are secure and comply with local electrical codes.

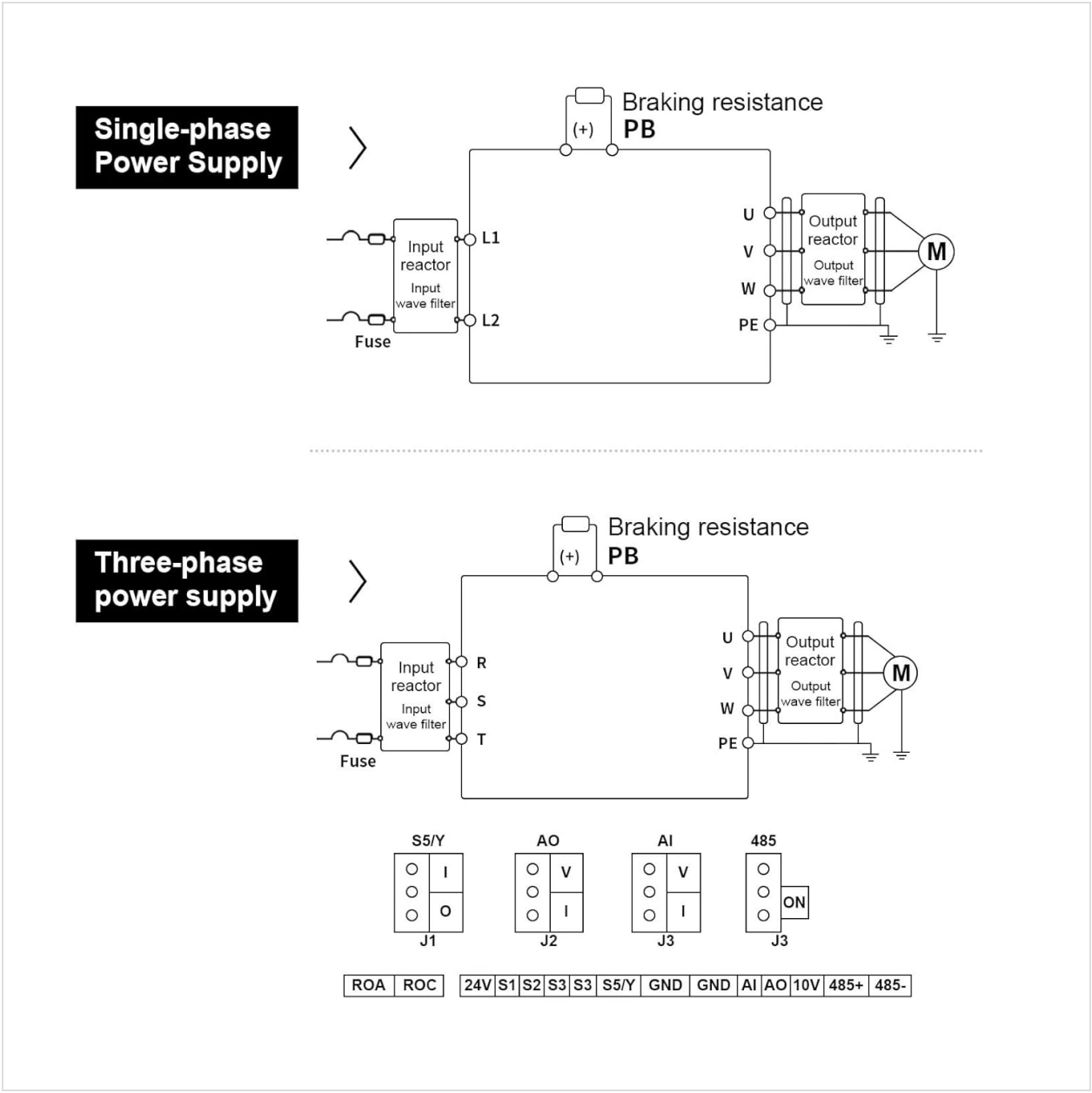

Image 5.2: Detailed wiring diagrams for connecting the frequency inverter to both single-phase and three-phase power supplies, along with connections for braking resistance and motor. Control terminal connections (S5/Y, AO, AI, 485) are also shown.

Input Terminals:

- **Single-phase:** L1, L2
- **Three-phase:** R, S, T

Output Terminals:

- U, V, W (to motor)
- PE (Protective Earth)

Control Terminals:

- S5/Y, AO, AI, 485 (for external control and communication)
- PB, P+ (for braking resistance)

Note on External Panel: If you have purchased an external panel and cable, it is designed exclusively for JOJIDE SU300 series frequency inverters purchased from our store. It is not compatible with inverters from other manufacturers.

6. Operating Instructions

The inverter features a control panel with a display, function buttons (PRO, M-FUN, SHIFT, ENTER, RUN, STOP/RESET), and a rotary knob for parameter adjustment.

Image 6.1: Close-up of the inverter's control panel, showing the digital display, control buttons (PRO, M-FUN, SHIFT, ENTER, RUN, STOP/RESET), and a rotary potentiometer for frequency adjustment.

6.1 Basic Operation

1. **Power On:** Connect the inverter to the appropriate power supply. The display will illuminate.
2. **Start Motor:** Press the **RUN** button to start the motor.
3. **Stop Motor:** Press the **STOP/RESET** button to stop the motor.
4. **Adjust Frequency/Speed:** Use the rotary knob to adjust the output frequency, thereby controlling the motor speed.

6.2 Parameter Setting

Detailed parameter settings are typically covered in a separate programming manual. Generally, the **PRO** and **M-FUN** buttons are used to navigate menus, **SHIFT** to change digit selection, and **ENTER** to confirm selections.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your frequency inverter.

- **Cleaning:** Keep the inverter clean and free from dust. Use a soft, dry cloth. Do not use liquid cleaners.
- **Ventilation:** Ensure adequate airflow around the inverter. Keep ventilation openings clear of obstructions.
- **Connections:** Periodically check all electrical connections for tightness. Loose connections can cause overheating or malfunction.
- **Environmental Conditions:** Operate the inverter within specified temperature and humidity ranges.

8. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Inverter does not power on	No input power; Blown fuse	Check power supply; Replace fuse (after disconnecting power)
Motor does not run	Incorrect wiring; Parameter settings; Overload	Verify wiring; Check motor parameters; Reduce load
Overcurrent fault	Motor overload; Short circuit in motor/cables	Check motor load; Inspect motor and cables for damage
Overvoltage/Undervoltage fault	Unstable input voltage	Check input power supply stability

For persistent issues or error codes not listed, please contact customer support.

9. Warranty and Support

Warranty information for this product is not provided in the available data. For specific warranty details and technical support, please refer to the product packaging or contact your point of purchase. Ensure you have your model number (1005005969377119) ready when seeking support.