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Neufday JH-S2-2T

Neufday JH-S2-2T Variable Frequency Drive User Manual

Model: JH-S2-2T

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Neufday JH-S2-2T Variable Frequency Drive (VFD). The JH-S2-2T is a universal mini single-phase 220V input to 3-phase 220V output inverter, designed for various industrial applications requiring precise motor speed control.

2. Safety Precautions

WARNING: Failure to observe these safety precautions may result in serious injury or property damage.

- Do not operate or request any cause death directly or indirectly. Injury or serious property loss.
- Before wiring, please ensure the power supply is off to prevent electric shock.
- Do not connect 380V input to AC power supply, otherwise it will cause the total damage of the inverter.
- The inverter is forbidden to install on flammable, otherwise it will cause the danger of fire.
- The ground terminal of the inverter must be grounded well.
- Only professional people may carry on the wiring. Internal of inverter has high pressure and prohibits casually opening the shell.

3. Product Overview

The JH-S2-2T Variable Frequency Drive is equipped with advanced features for reliable motor control.

3.1 Key Features

- Quick start and stop response.
- Large low-speed torsion.
- Internal protection functions: Undervoltage, Overvoltage, Overcurrent, Overheating.
- Built-in temperature detection.
- External control input: 0~5V/0~10V analog voltage, 0~20mA current signal for stepless speed control.
- Maximum output frequency range: 0.01~400Hz.

- Multi-function relay transmission, PID function, Constant pressure water supply function.

3.2 Components and Controls

The VFD features a user-friendly control panel and robust terminals for connections.



Figure 3.1: Overview of the JH-S2-2T VFD, showing the main unit, detachable control panel, and connection cable.



Figure 3.2: Front view of the VFD, highlighting the digital display and control buttons (PROG, OK, JOG, RUN, STOP/RESET, REV, and rotary knob).

4. Specifications

Parameter	Value
Item Type	Variable Frequency Driver Inverter
Model	JhS2-2T
Adapted Motor Power	0.75/1.5/2.2Kw (Optional)
Input Voltage	Single Phase AC 176-264V 50/60Hz
Output Voltage	3-Phase 0-220Vac

Frequency Range	0.01-400Hz
Application Range	Universal
Power Phase Number	Single Phase
Supply Voltage	Low Voltage
Filter	Without Filter
DC Power Supply Properties	Voltage Type
Control Mode	V/F Open Loop
Output Voltage Regulation Mode	PWM Control
Appearance	Molded Case
Rated Current	12 (A)
Dimensions	160 X 120 X 95mm / 6.3 X 4.72 X 3.74in
Application	Elevator Industry, Packaging Industry, Conveyor Machinery, Industrial Production Lines, Automotive Industry, Printing Machinery, Video Machinery, Textile Machinery, Office Equipment, Machine Tool Industry, Roasting Whole Sheep.

5. Setup and Installation

5.1 Unpacking and Inspection

Carefully unpack the VFD and inspect it for any signs of damage during transit. Ensure all components listed in the package list are present: 1 x Inverter, 1 x Panel Mounting Box, 1 x 1M Cable, 1 x Users Manual (English).

5.2 Mounting

Mount the VFD in a well-ventilated area, away from direct sunlight, excessive dust, moisture, and corrosive gases. Ensure adequate clearance around the unit for proper heat dissipation. The VFD is designed for molded case installation.

5.3 Wiring Connections

All wiring should be performed by qualified personnel and in accordance with local electrical codes. Ensure the main power supply is disconnected before making any connections.

- **Input Power (L, N):** Connect the single-phase 220V AC input to the designated input terminals.
- **Motor Output (U, V, W):** Connect the 3-phase motor to the output terminals U, V, W.
- **Ground (GND):** Ensure the VFD is properly grounded to prevent electric shock and ensure stable operation.

- **Control Terminals:** Connect external control signals (e.g., 0-5V/0-10V analog voltage, 0-20mA current signal) to the respective control terminals for speed control or other functions. Refer to the detailed wiring diagram in the included paper manual for specific terminal assignments.



Figure 5.1: View of the internal wiring terminals, showing connections for power input, motor output, and control signals.



Figure 5.2: Detailed view of the terminal block, indicating various connection points for power and control.

6. Operating Instructions

6.1 Basic Operation

1. **Power On:** After ensuring all connections are secure and correct, apply power to the VFD. The digital display on the control panel should illuminate.
2. **Frequency Setting:** Use the rotary knob on the control panel to adjust the desired output frequency. The display will show the current frequency setting.
3. **Start Motor:** Press the **RUN** button to start the motor. The motor will accelerate to the set frequency.
4. **Stop Motor:** Press the **STOP/RESET** button to stop the motor. The motor will decelerate and come to a halt.
5. **Reverse Direction:** Press the **REV** button to reverse the direction of motor rotation. Press it again to revert to the original direction.

6.2 Advanced Settings (PROG Menu)

The **PROG** button allows access to various parameters for advanced configuration. Use the **OK** button to confirm selections and the arrow buttons to navigate and adjust values. Refer to the comprehensive parameter list in the full user manual for detailed descriptions of each setting.

- **Acceleration/Deceleration Time:** Adjust the time it takes for the motor to reach the set frequency or come to a stop.
- **V/F Curve Settings:** Configure the voltage-to-frequency ratio for specific motor characteristics.
- **PID Control:** Enable and configure PID parameters for precise process control (e.g., constant pressure water supply).
- **Multi-function Relay Output:** Program the relay output for various alarm or status indications.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your JH-S2-2T VFD.

- **Cleaning:** Periodically clean the VFD's exterior with a soft, dry cloth. Ensure ventilation openings are free from dust and debris to maintain proper cooling. Do not use liquid cleaners.
- **Connections Check:** Regularly inspect all wiring connections for tightness and signs of corrosion. Loose connections can lead to poor performance or damage.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent internal component degradation.
- **Fan Inspection:** If applicable, check the cooling fan for proper operation and ensure it is not obstructed.

Note: For any internal maintenance or repair, contact qualified service personnel. Do not attempt to open the VFD casing unless explicitly instructed by a professional, as high voltages are present inside.

8. Troubleshooting

This section provides solutions to common issues you might encounter with the JH-S2-2T VFD. For problems not listed here, or if solutions do not resolve the issue, contact technical support.

Problem	Possible Cause	Solution
VFD does not power on	No input power; Loose power connection; Internal fuse blown.	Check power supply; Verify all power connections; Contact service for fuse replacement.
Motor does not run	Incorrect wiring; Motor overload; Frequency set to 0Hz; Emergency stop active.	Verify motor wiring (U, V, W); Check motor current; Increase frequency setting; Reset emergency stop.
Overcurrent (OC) error	Motor short circuit; Sudden load change; Acceleration time too short.	Check motor and wiring for shorts; Reduce load; Increase acceleration time parameter.
Overvoltage (OV) error	Input voltage too high; Deceleration time too short.	Verify input voltage is within range; Increase deceleration time parameter.
Overheating (OH) error	Insufficient ventilation; Ambient temperature too high; Fan malfunction.	Ensure proper ventilation; Reduce ambient temperature; Check cooling fan operation.

9. Warranty Information

The Neufday JH-S2-2T Variable Frequency Drive comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or contact Neufday customer service for specific terms and conditions regarding warranty coverage, duration, and claims procedures.

10. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Neufday customer support. You can typically find contact information on the product packaging, the official Neufday website, or through your point of purchase.

When contacting support, please have your product model number (JH-S2-2T) and purchase details ready to facilitate faster service.

Ask a question about this manual

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