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Bewinner A2-8015

Bewinner A2-8015 1.5KW Variable Frequency Drive User Manual

Model: A2-8015 | Brand: Bewinner

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Bewinner A2-8015 1.5KW Variable Frequency Drive (VFD). Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and prevent potential hazards.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Only qualified personnel should install, operate, and maintain this device. Disconnect all power before servicing.

- Ensure the input voltage matches the VFD's specifications (AC180-250V).
- Do not operate the VFD with damaged wiring or casing.
- Install the VFD in a well-ventilated area, away from direct sunlight, moisture, and corrosive gases.
- Proper grounding is essential to prevent electrical shock.
- Avoid touching internal components when power is connected.

3. PRODUCT OVERVIEW AND FEATURES

The Bewinner A2-8015 is a 1.5KW Variable Frequency Drive designed for precise motor speed control. It features a robust design and user-friendly interface.

Key Features:

- Industrial-grade ABS plastic casing for heat resistance, flame retardancy, and shock protection.
- Equipped with standard inverter functions suitable for diverse applications.
- User-friendly design with a clear display and intuitive keyboard for easy operation.
- Efficient heat dissipation system featuring a large aluminum-based heat sink and a powerful cooling fan.
- Manufactured under strict quality control for high safety and reliability.

Product Views:



Front view of the Bewinner A2-8015 VFD, showing the control panel and product label with model A2-8015 and serial number.



Top view of the VFD, highlighting the wiring terminals for input, output, and control signals, along with the user interface panel.



Side view of the VFD, illustrating the cooling fins designed for efficient heat dissipation.



Angled view of the VFD, providing a clear perspective of both the wiring terminals and the product identification label.



Close-up of the VFD's control panel, showing the display and various control buttons including RUN, STOP/RESET, SET, JOG, and directional keys.



Side view of the VFD, highlighting the integrated cooling fan for active thermal management.

4. SPECIFICATIONS

Parameter	Value
Item Type	Variable Frequency Drive
Model	A2-8015
Material	Plastic Shell (ABS)
Input Voltage	1-phase/3-phase AC180-250V, 7.5A, 40-60Hz
Output Voltage	3-phase 220V, 10A, 0-400Hz

Power	1.5KW
Applicable Motor	180-250V Motor
Product Dimensions	Approx. 140 x 115 x 80 mm (5.5 x 4.5 x 3.1 inches)
Typical Applications	Spindle motors, lathes, milling machines, pumps, treadmills, conveyors, winders, mixers, extruders, separators, compressors, fans, elevators, centrifuges, and other machinery.

5. SETUP AND INSTALLATION

5.1 Wiring Diagram

Refer to the internal wiring diagram on the device and the following general guidelines for connection. Ensure all connections are secure and insulated.



Angled view of the VFD, clearly showing the input (POWER) and output (MOTOR) terminal blocks for electrical connections.

- **Power Input (L1, L2, L3 or L, N):** Connect the AC180-250V power supply to the designated input terminals. For single-phase input, connect to L and N.
- **Motor Output (U, V, W):** Connect the three-phase motor to the output terminals U, V, W.
- **Grounding (GND):** Ensure the VFD is properly grounded to a reliable earth ground.
- **Control Terminals:** Connect external control signals (e.g., start/stop, speed reference, emergency stop) to the corresponding control terminals as per your application requirements. Consult the detailed wiring diagram provided with the product for specific terminal functions.

5.2 Mounting

Mount the VFD vertically on a stable, non-flammable surface. Ensure adequate clearance around the unit for proper airflow and heat dissipation. Avoid mounting in areas with excessive vibration or dust.

6. OPERATING INSTRUCTIONS

The VFD features a humanized keyboard and clear display for easy operation.



Close-up of the VFD's control panel, showing the display and various control buttons including RUN, STOP/RESET, SET, JOG, and

directional keys.

6.1 Basic Operation

1. **Power On:** Apply power to the VFD. 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 **UP** and **DOWN** arrow buttons to adjust the output frequency, thereby controlling the motor speed.
5. **Change Direction:** Use the **REV/FWD** button to toggle the motor rotation direction.
6. **Jog Operation:** Press the **JOG** button for momentary motor operation.

6.2 Parameter Settings

To access and modify advanced parameters, press the **SET** button. Navigate through the menus using the arrow keys and confirm selections with the **SET** button. Refer to the comprehensive parameter list in the included physical manual for detailed descriptions and adjustment ranges.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your VFD.

- **Cleaning:** Periodically clean the VFD's exterior and cooling fins to prevent dust accumulation, which can hinder heat dissipation. Use a soft, dry cloth. Do not use liquid cleaners.
- **Fan Inspection:** Check the cooling fan for obstructions or unusual noise. Ensure it operates freely.
- **Terminal Connections:** Periodically inspect all wiring terminals for tightness. Loose connections can cause overheating or intermittent operation.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.

8. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact technical support.

Problem	Possible Cause	Solution
Motor does not start	No power, incorrect wiring, emergency stop active, parameter error.	Check power supply, verify wiring, release emergency stop, check motor parameters.
VFD displays an error code	Overcurrent, overvoltage, undervoltage, overheat, motor overload.	Refer to the physical manual's error code section for specific meanings and remedies. Address the underlying cause (e.g., reduce load, check input voltage).
Motor runs erratically or at incorrect speed	Incorrect frequency setting, motor parameter mismatch, poor connection.	Adjust frequency, verify motor parameters (e.g., rated frequency, poles), check motor wiring.
Excessive noise or vibration	Motor imbalance, mechanical issue, VFD parameter settings.	Inspect motor and load for mechanical issues. Adjust VFD carrier frequency or other motor control parameters if applicable.

9. PACKAGE CONTENTS

Upon unpacking, ensure all items listed below are present:

- 1 x Variable Frequency Drive (Bewinner A2-8015)
- 1 x User Manual (Chinese and English)

10. WARRANTY AND SUPPORT

Information regarding specific warranty terms and conditions is typically provided with the product documentation. For technical support or service inquiries, please refer to the contact information provided in the included physical user manual or contact your point of purchase.

Note: Spare parts availability information is not available at this time.