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ETURBEV SU800-WJMB

ETURBEV SU800-WJMB High-Performance VFD Inverter User Manual

Model: SU800-WJMB

1. Introduction

This manual provides essential information for the safe and efficient operation of your ETURBEV SU800-WJMB High-Performance Variable Frequency Drive (VFD) Inverter. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and prevent potential hazards.
The SU800-WJMB VFD is designed to control the speed and torque of 3-phase AC motors, offering precise control and energy savings in various industrial applications.

2. Safety Information

WARNING: Improper installation or operation may result in electric shock, fire, or serious injury. Always follow safety precautions.

- Only qualified personnel should install, operate, and maintain this VFD.
- Ensure the power supply is disconnected before performing any wiring or maintenance. Wait at least 5 minutes after power-off for capacitors to discharge.
- Verify correct voltage and current ratings before connecting to the motor and power supply.
- Do not touch internal components or circuit boards when power is applied.
- Install the VFD in a clean, dry, well-ventilated area, away from direct sunlight, corrosive gases, and excessive vibration.
- Proper grounding is essential to prevent electric shock.

3. Product Overview

The ETURBEV SU800-WJMB VFD features a compact design with an integrated control panel for easy operation and monitoring.

3.1. External View and Components



Figure 3.1: Front view of the ETURBEV SU800-WJMB VFD Inverter. This image displays the main unit with its digital display, control buttons, and ventilation grilles. The display shows "50.00 Hz" and "23.0 A", indicating typical operating parameters.



Figure 3.2: Side view of the ETURBEV SU800-WJMB VFD Inverter. This image highlights the robust cooling fins on the side of the unit, essential for heat dissipation, and provides a glimpse of the large capacitors inside, which are crucial for power filtering.

3.2. Control Panel

The control panel allows for parameter setting, status monitoring, and manual operation. Key elements include:

- **Digital Display:** Shows frequency, current, voltage, and other operational data.
- **RUN/STOP Buttons:** To start and stop the motor.
- **Directional Keys (▲ ▼ ◀ ▶):** For navigation and value adjustment.
- **PRG/FUNC Button:** To enter/exit programming mode and select functions.
- **ENTER Button:** To confirm selections and save parameters.



Figure 3.3: Two ETURBEV SU800-WJMB VFD Inverters. This image provides a clear view of the control panel on one unit, detailing the digital display, RUN/STOP buttons, directional keys, and PRG/FUNC/ENTER buttons.

4. Setup and Installation

4.1. Mounting

Mount the VFD vertically on a flat, non-flammable surface. Ensure adequate clearance around the unit for proper ventilation (at least 10 cm above and below, 5 cm on sides).

4.2. Wiring

CAUTION: All wiring must be performed by a qualified electrician. Ensure power is OFF before wiring.
Refer to the internal wiring diagram for terminal connections. The main power terminals are typically labeled R, S, T (input) and U, V, W (output to motor). Ensure proper grounding (PE terminal).



Figure 4.1: Disassembled ETURBEV SU800-WJMB VFD. This image shows the internal circuit boards, the terminal block for power and control wiring, and the removable control panel. The terminal block is clearly labeled for input (L, N, G) and output (U, V, W) connections.



Figure 4.2: Internal circuit boards of the ETURBEV SU800-WJMB VFD. This image displays the intricate electronic components and layout of the VFD's main control and power boards, indicating the complexity of its internal design.

Input Power: Connect the appropriate 220V or 380V AC power supply to the input terminals (R, S, T or L1, L2, L3 depending on model/region).
Motor Connection: Connect the 3-phase motor to the output terminals (U, V, W).
Control Wiring: Connect external control signals (e.g., start/stop, speed reference, fault reset) to the designated control terminals as per your application requirements. Refer to the detailed wiring diagram in the full product manual for specific terminal functions.

5. Operating Instructions

5.1. Initial Power-Up

1. After verifying all wiring is correct and secure, apply power to the VFD.
2. The digital display will illuminate, showing the default frequency or a status code.

5.2. Basic Operation (Panel Control)

- Press the **RUN** button to start the motor. The display will show the output frequency.
- Use the ▲ and ▼ buttons to adjust the output frequency (motor speed).
- Press the **STOP** button to stop the motor.

5.3. Parameter Setting

To access and modify parameters:

1. Press the **PRG/FUNC** button to enter programming mode.
2. Use the ▲ and ▼ buttons to navigate through parameter groups and individual parameters.
3. Press **ENTER** to select a parameter and view its current value.
4. Use ▲ and ▼ to change the parameter value.
5. Press **ENTER** again to save the new value.
6. Press **PRG/FUNC** to exit programming mode.

Common parameters include:

- **Motor Parameters:** Rated power, rated voltage, rated current, rated frequency.
- **Acceleration/Deceleration Time:** Time taken for the motor to reach/stop from maximum speed.
- **Max/Min Frequency:** Upper and lower limits for output frequency.
- **Control Mode:** V/F control, vector control (if supported).

Refer to the complete product manual for a detailed list of all parameters and their functions.

6. Maintenance

WARNING: Disconnect all power before performing any maintenance. Wait for capacitors to discharge.

- **Regular Cleaning:** Keep the VFD clean and free from dust and debris. Use compressed air to clean ventilation openings and cooling fins.
- **Inspection:** Periodically check for loose connections, damaged wiring, or signs of overheating (discoloration).
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Fan Check:** Ensure cooling fans are operating correctly and are not obstructed.

7. Troubleshooting

This section provides solutions for common issues. For complex problems, contact technical support.

Problem	Possible Cause	Solution
VFD does not power on	No input power; Blown fuse; Internal fault	Check power supply; Replace fuse; Contact support
Motor does not run	Incorrect wiring; Parameter settings; Emergency stop active	Verify wiring; Check motor parameters; Reset emergency stop
Overcurrent fault	Motor overload; Short circuit; Rapid acceleration/deceleration	Reduce load; Check motor/cables; Increase Accel/Decel time
Overvoltage fault	High input voltage; Rapid deceleration with high inertia load	Check input voltage; Increase Decel time; Consider braking resistor
Overheat fault	Poor ventilation; Ambient temperature too high; Fan failure	Improve ventilation; Reduce ambient temp; Check/replace fan

8. Specifications

The following are general specifications for the ETURBEV SU800-WJMB VFD Inverter. Specific ratings may vary by model variant (e.g., 0.75KW, 1.5KW, 2.2KW, 5.5KW).

- **Model:** SU800-WJMB
- **Input Voltage:** 220V / 380V AC (depending on specific model)
- **Output Voltage:** 0-Input Voltage (3-phase)
- **Output Frequency:** 0-400 Hz
- **Rated Power:** 0.75KW, 1.5KW, 2.2KW (for 220V/380V models), up to 5.5KW (for 380V models)
- **Control Method:** V/F control, Vector control (sensorless)
- **Protection:** Overcurrent, Overvoltage, Undervoltage, Overheat, Overload, Short circuit, etc.
- **Operating Temperature:** -10°C to 40°C (14°F to 104°F)
- **Humidity:** < 90% RH (non-condensing)
- **ASIN:** B0F9SL1X8Y

Note: The product dimensions and weight provided in some listings (e.g., 0.39 x 0.39 x 0.39 inches, 1.76 ounces) are generic placeholders and do not reflect the actual physical characteristics of this industrial device. Actual dimensions and weight will be significantly larger and heavier.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or contact your authorized ETURBEV distributor or customer service. Please have your model number (SU800-WJMB) and purchase details ready when contacting support.
For further assistance, visit the official ETURBEV website or contact their customer service department.

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