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› UOFKIPBA /

› MD310 Series Frequency Inverter Converter VFD User Manual

UOFKIPBA MD310T2.2B

MD310 Series Frequency Inverter Converter VFD User Manual

Model: MD310T2.2B | Brand: UOFKIPBA

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of the UOFKIPBA MD310 Series Frequency Inverter Converter VFD, specifically the MD310T2.2B model. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage or injury.



Figure 1: Front view of the MD310 Series Frequency Inverter Converter VFD, showing the control panel and warning labels.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent electric shock, injury, or damage to the equipment.

- **Risk of electric shock:** Before servicing, remove all power and wait 10 minutes for capacitors to discharge.
- Read the manual and follow all safety instructions before use.
- Only qualified personnel should perform installation, wiring, and maintenance.
- Ensure proper grounding of the device.
- Do not operate the inverter with wet hands or in wet conditions.



Figure 2: Side view of the MD310 Series Frequency Inverter Converter VFD, showing cooling fins and "QC PASSED" label.

3. SETUP AND INSTALLATION

3.1 Unpacking and Inspection

Carefully unpack the inverter and inspect it for any signs of damage during transit. Report any damage to the supplier immediately.

3.2 Mounting

Mount the inverter vertically on a flat, non-flammable surface. Ensure adequate ventilation around the unit to prevent overheating. Maintain a minimum clearance of 10 cm (4 inches) above and below the unit for airflow.

3.3 Wiring

All wiring must comply with local electrical codes and regulations. Connect the power input (L1, L2, L3 for 3-phase or L, N for single-phase) and motor output (U, V, W) terminals. Ensure proper grounding (PE) connection.

Refer to the wiring diagram provided with your specific model for detailed connection points. Use appropriate wire gauges for the current rating.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The control panel features a display screen, navigation buttons (PRG, ENTER, UP, DOWN, LEFT, RIGHT), and RUN/STOP buttons. The display shows operational parameters and error codes.

4.2 Basic Operation

- Power On:** Apply power to the inverter. The display will illuminate.
- Parameter Setting:** Use the PRG button to enter the parameter setting mode. Navigate through parameters using UP/DOWN arrows and modify values with LEFT/RIGHT arrows. Press ENTER to confirm.
- Start Motor:** Press the **RUN** button to start the motor.
- Stop Motor:** Press the **STOP/RES** button to stop the motor. This button also resets alarms.

4.3 Advanced Functions

The MD310 series supports various advanced functions including multi-speed control, PID control, and communication protocols. Refer to the detailed programming manual for specific parameter settings and configurations.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your inverter. Always disconnect power and wait 10 minutes before performing any maintenance.

- Cleaning:** Periodically clean the inverter's exterior and ventilation openings to prevent dust accumulation. Use a soft, dry cloth. Do not use liquid cleaners.
- Fan Inspection:** Check the cooling fan for proper operation and cleanliness. Replace if noisy or not functioning.
- Terminal Tightness:** Annually check all terminal connections for tightness to prevent loose connections and overheating.
- Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.

6. TROUBLESHOOTING

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

Common Issues and Solutions

Problem	Possible Cause	Solution
Inverter does not power on	No input power; Blown fuse	Check power supply; Replace fuse (by qualified personnel)
Motor does not run	Incorrect wiring; Parameter settings incorrect; Overload	Verify wiring; Check motor parameters; Reduce load
Overcurrent fault (OC)	Motor short circuit; Sudden load change; Acceleration time too short	Check motor and wiring; Adjust acceleration time; Reduce load
Overvoltage fault (OV)	Input voltage too high; Deceleration time too short	Check input voltage; Increase deceleration time

7. SPECIFICATIONS

Feature	Detail
Model	MD310T2.2B
Brand	UOFKIPBA
Type	Frequency Inverter Converter VFD
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Assembly Required	No
Number of Pieces	1

8. WARRANTY INFORMATION

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact UOFKIPBA customer support. Keep your proof of purchase for warranty claims.

Return Policy: The buybox winner indicates a return policy with a duration of 30 days for refund/replacement. Please refer to the seller's return policy on the platform of purchase for detailed information.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact UOFKIPBA customer support. Visit the official UOFKIPBA website for contact details or refer to your purchase documentation.

Note: Always provide your product model (MD310T2.2B) and ASIN (B0DBDBT6NC) when contacting support for faster service.

