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> DEWIN 220V 0.75kW VFD Frequency Converter User Manual

DeWin KMCBLFKLL-GS109479-01

DEWIN 220V 0.75kW VFD Frequency Converter User Manual

Model: KMCBLFKLL-GS109479-01

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the DEWIN 220V 0.75kW Variable Frequency Drive (VFD). This device is designed to control the speed of three-phase motors using a single-phase 220V input. Please read this manual thoroughly before using the product to ensure safe and efficient operation.

2. SAFETY INSTRUCTIONS

WARNING: Risk of electrical shock. Wait 10 minutes after removing power before servicing.

Always adhere to the following safety precautions to prevent injury or damage to the equipment:

- Ensure the power supply is disconnected before any installation, wiring, or maintenance work.
- Only qualified personnel should perform installation and wiring.
- Verify that the input voltage matches the specifications of the VFD.
- Properly ground the unit to prevent electrical hazards.
- Do not connect the power supply to the output terminals (U, V, W).
- Avoid operating the VFD in environments with excessive dust, moisture, or corrosive gases.
- Do not touch internal components immediately after power-off, as residual voltage may be present.



Image: The DEWIN VFD unit, showing the front panel and a warning label indicating electrical shock risk and the need to wait 10 minutes after power removal before servicing.

3. PRODUCT OVERVIEW

3.1 Key Features

- Single-phase 220V input, three-phase 220V output.
- Motor protection features.
- Energy-saving capabilities.
- Adjustable output frequency (0-999Hz).
- Strong security and stable operation.
- Removable control panel for flexible installation.
- Equipped with a radiator for efficient heat dissipation.

CNC inverter

Single-phase input Three-phase output

220V 0.75KW

Protect The Motor

Energy Saving

Frequency

Strong Security



Image: The DEWIN VFD highlighting its core benefits: motor protection, energy saving, frequency control, and strong security.

3.2 Components and Control Panel

The VFD consists of the main unit and a detachable control panel. The control panel allows for easy operation and parameter setting.

The Panel can be removed freely

Operation and wiring, connection to cables via easier screw terminals



Image: The DEWIN VFD demonstrating its removable control panel, which can be connected via a cable for remote operation and easier wiring access.

Operation interface



Image: A close-up of the VFD's operation interface, clearly labeling the status indication lights (RUN, DIR, TRIP, HZ), digital display, electric current (A) and voltage (V) indicators, Multifunction key (MF), Menu key (PRG), Shift key, up and down selection keys, Run key, Enter key, Stop button, and Reset button, along with the Speed knob.

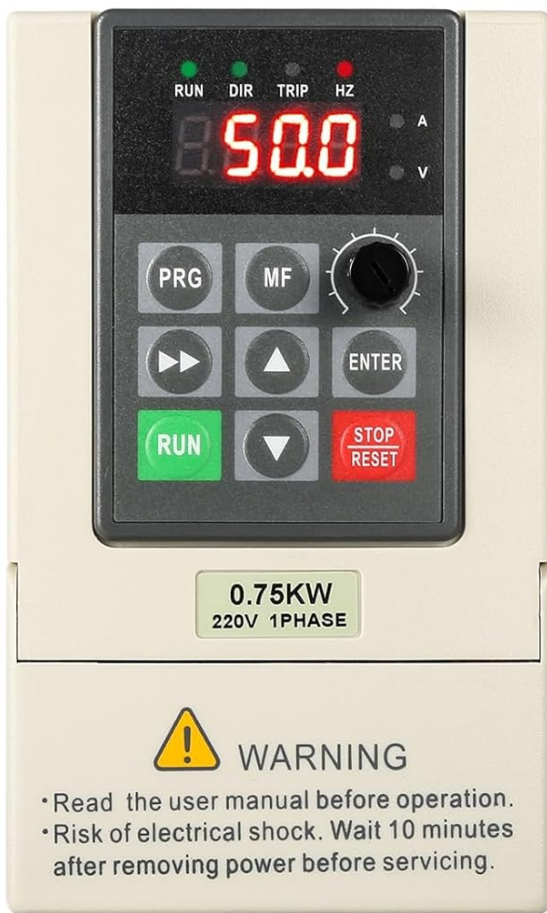
4. SPECIFICATIONS

DEWIN VFD Specifications (Model: JLS-E-2S-0.75G)

Parameter	Value
Model	JLS-E-2S-0.75G
Material	Process flame retardant ABS plastic
Color	White
Rated Input Voltage	Single Phase 220V
Rated Output Voltage	Three-phase 220V
Rated Power	0.75KW
Output Current	5A
Factory Frequency	50Hz

Parameter	Value
Output Frequency Range	0~999Hz
Installation Method	Wall-mounted, cabinet
Nature of DC Power Supply	Voltage Type
Control Mode	V/F closed loop
Output Voltage Regulation Method	PAM control
Dimensions (W x H x D)	85mm x 140mm x 115mm
Weight	1.12 Kilograms

Product information



Model:	JLS-E-2S-0.75G
Material:	Process flame retardant ABS plastic
Color:	White
Rated input voltage:	Single Phase 220V
Rated output Voltage:	Three-phase 220V Rated Power: 0.75KW
Output current:	5A
Factory frequency:	50Hz
Output frequency:	0~999Hz
Installation Method:	Wall-mounted, cabinet
The nature of DC Power supply:	Voltage Type
Control mode:	V/F closed loop
Output voltage regulation method:	PAM control

Image: A table detailing the product specifications including model, material, color, input/output voltages, power, current, frequency range, installation method, and control modes.

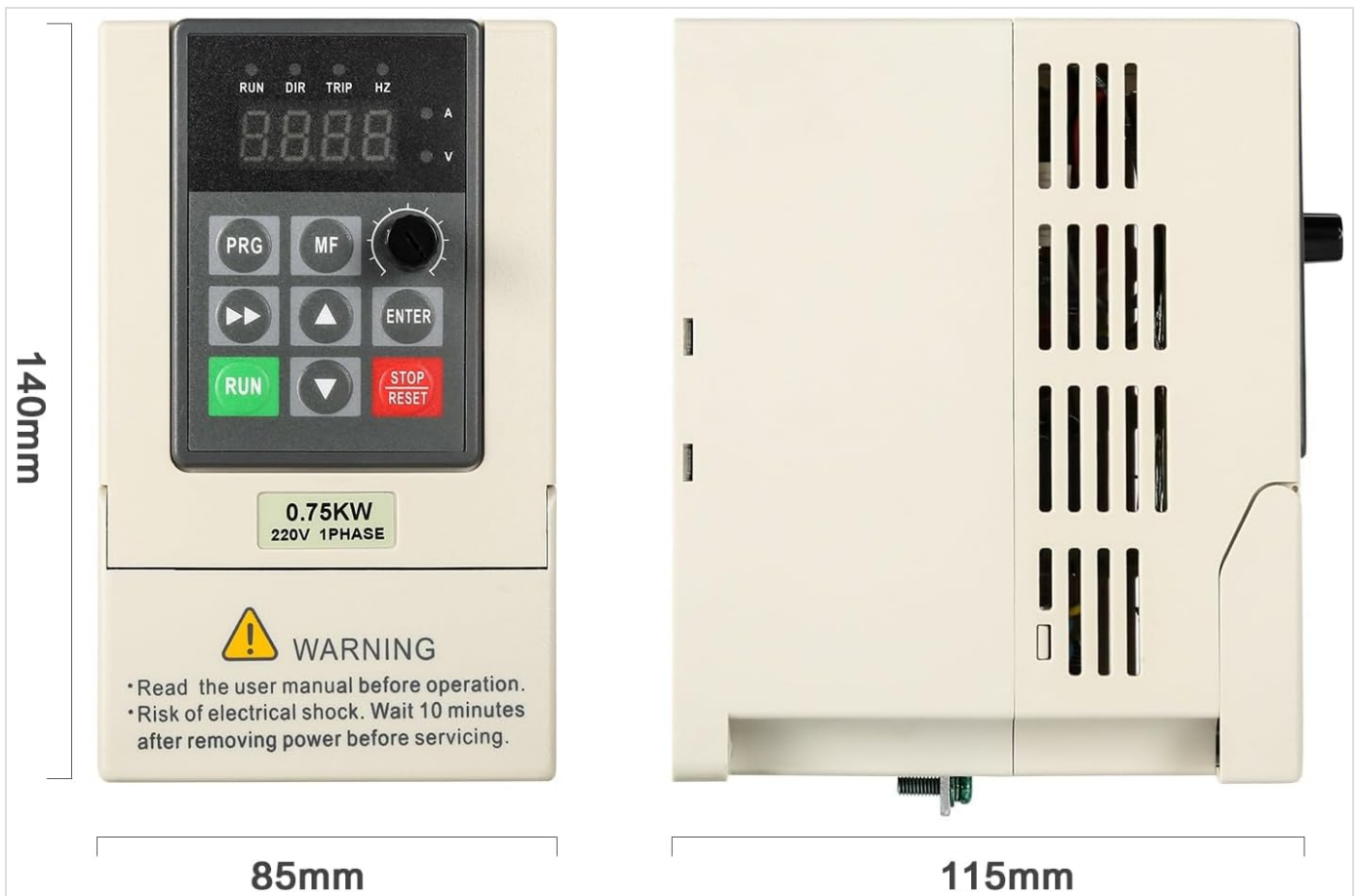


Image: Diagram showing the physical dimensions of the DEWIN VFD, with measurements of 85mm width, 140mm height, and 115mm depth.

5. SETUP AND INSTALLATION

5.1 Mounting

The VFD can be wall-mounted or installed within a cabinet. Ensure adequate ventilation around the unit for proper heat dissipation.

Equipped With Radiator

To further reduce heat, good heat dissipation, and ensure long-term stable operation



Image: The DEWIN VFD showcasing its integrated radiator and cooling fan, with blue arrows illustrating the airflow path for effective heat dissipation, ensuring stable long-term operation.

5.2 Wiring

Follow the wiring diagram carefully. Incorrect wiring can damage the unit or connected equipment.

- **L1, L2:** Connect to the single-phase 220V power supply.
- **P, PB:** These terminals are typically for braking resistors if required (refer to advanced manual for details).
- **U, V, W:** Connect to the three-phase motor terminals.
- **Ground:** Ensure a proper ground connection for safety.

220V inverter Wiring

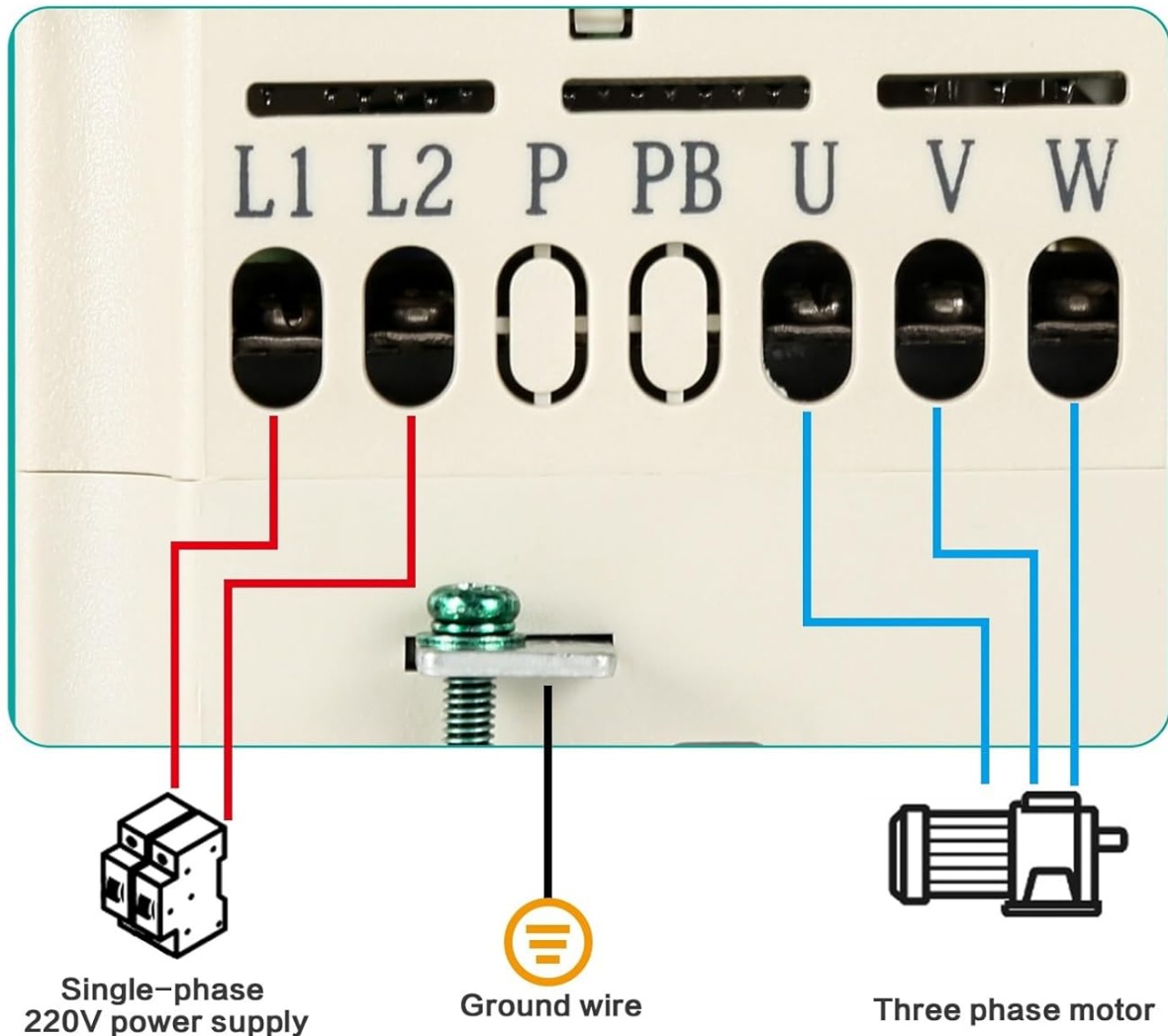


Image: A clear wiring diagram for the 220V inverter, illustrating the connections for the single-phase 220V power supply (L1, L2), the ground wire, and the three-phase motor (U, V, W).

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

1. **Power On:** After completing all wiring, apply power to the VFD. The display will light up.
2. **Set Frequency/Speed:** Use the **Speed knob** on the control panel to adjust the desired output frequency, which directly controls the motor speed.
3. **Start Motor:** Press the **RUN** button to start the motor. The "RUN" indicator light will illuminate.
4. **Stop Motor:** Press the **STOP/RESET** button to stop the motor. The "RUN" indicator light will turn off.
5. **Reset Faults:** If a fault occurs (e.g., "TRIP" indicator lights up), address the cause, then press the **STOP/RESET** button to clear the fault and reset the VFD.

6.2 Advanced Parameter Settings

The VFD offers a wide range of programmable parameters for fine-tuning performance. Refer to the detailed parameter list (often provided in a separate, more comprehensive manual) for specific settings related to acceleration/deceleration times, motor parameters, control modes, etc.

- Use the **PRG (Program/Menu)** button to enter the parameter setting mode.
- Use the **Up/Down arrows** to navigate through parameters.
- Use the **ENTER** button to select a parameter and confirm changes.
- Use the **Shift key** (left/right arrows) to move the cursor when editing numerical values.
- The **MF (Multifunction)** key may be used for quick access to frequently used functions or to switch display modes.

7. MAINTENANCE

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

- **Cleaning:** Periodically clean the VFD's exterior and ventilation openings to prevent dust accumulation, which can hinder heat dissipation. Use a soft, dry cloth. Do not use liquid cleaners.
- **Inspection:** Regularly inspect wiring connections for looseness or signs of damage. Check for any unusual noises or smells during operation.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Capacitor Discharge:** Remember the 10-minute waiting period after power-off before touching internal components due to residual capacitor charge.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
VFD does not power on	No input power; incorrect wiring	Check power supply and input wiring (L1, L2).
Motor does not run	Incorrect motor wiring (U, V, W); VFD in fault state; parameters not set correctly	Verify motor connections; check for fault codes on display and reset; review basic operating parameters.
"TRIP" indicator is on	Overcurrent, overvoltage, undervoltage, overload, overheating	Identify the specific fault code (if displayed); check motor load, input voltage, and VFD temperature. Press STOP/RESET to clear.
Motor speed is unstable	Improper V/F curve setting; motor parameters incorrect; external interference	Adjust V/F curve parameters; ensure motor data is correctly entered; check for electromagnetic interference.

9. WARRANTY AND SUPPORT

DEWIN products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or contact your local distributor. You may also visit the official DEWIN website for further assistance.

For general inquiries, you can visit the [DEWIN Brand Store on Amazon](#).

