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MDWXDOFP GD10 Series

MDWXDOFP GD10 Series 3 Phase 380V Mini Economical Inverter User Manual

Models: GD10-0R7G-4-B, GD10-1R5G-4-B, GD10-2R2G-4-B

1. Introduction

This user manual provides essential information for the safe and efficient operation of your MDWXDOFP GD10 Series 3 Phase 380V Mini Economical Inverter. The GD10 series Variable Frequency Drives (VFDs) are designed for controlling the speed of AC motors in various industrial applications. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and prevent potential hazards.

Keep this manual accessible for future reference.

2. Product Overview

The MDWXDOFP GD10 Series Inverter is a compact and economical solution for motor speed control. It supports 3-phase 380V input and is available in several power ratings:

- GD10-0R7G-4-B
- GD10-1R5G-4-B
- GD10-2R2G-4-B

Key features include precise motor control, energy efficiency, and a user-friendly interface.





Figure 2.1: Front view of the MDWXDOFP GD10 Series Inverter, showing the control panel and display.

3. Safety Information

WARNING: Improper installation or operation can lead to serious injury or death. Always observe the following safety precautions:

- Only qualified personnel should install, operate, and maintain this equipment.
- Disconnect all power before performing any wiring or maintenance. Wait at least 5 minutes after power-off for capacitors to discharge.
- Ensure proper grounding of the inverter and motor.
- Do not touch electrical components when power is applied.
- Protect the inverter from moisture, dust, and corrosive gases.

- Do not operate the inverter with damaged cables or components.



Figure 3.1: Side view of the MDWXDOFP GD10 Series Inverter, showing ventilation and a "DANGER 5 min" warning label, indicating the discharge time for internal capacitors.

4. Setup and Installation

4.1 Unpacking and Inspection

Upon receiving the inverter, carefully unpack it and inspect for any signs of damage during transit. Verify that all

components are present according to the packing list (not provided in this manual, refer to product packaging).

4.2 Mounting

Mount the inverter vertically on a stable, non-flammable surface. Ensure adequate ventilation space around the unit (at least 10 cm on all sides) to allow for proper heat dissipation. Avoid mounting in direct sunlight or areas with excessive vibration, dust, or humidity.

4.3 Wiring

All wiring must be performed by a qualified electrician in accordance with local and national electrical codes. Ensure power is disconnected before wiring.

- **Power Input (R, S, T):** Connect the 3-phase 380V AC power supply to the designated input terminals.
- **Motor Output (U, V, W):** Connect the 3-phase motor to the output terminals.
- **Grounding (PE):** Connect the ground terminal to a reliable earth ground.
- **Control Terminals:** Refer to the detailed wiring diagram (typically found on the unit or in a separate wiring guide) for connecting external control signals such as start/stop, speed reference, and fault outputs.

Use appropriate wire gauges for all connections to prevent overheating and ensure safe operation.

5. Operating Instructions

5.1 Control Panel Overview



Figure 5.1: Detailed view of the MDWXDOFP GD10 Series Inverter control panel, showing the display and various function buttons.

The control panel features an LED display and several buttons for operation and parameter setting:

- **RUN:** Starts the motor.
- **STOP/RST:** Stops the motor and resets fault conditions.
- **PRG/ESC:** Enters/exits parameter setting mode, or cancels current operation.
- **DATA/ENT:** Confirms parameter settings or enters sub-menus.

- **JOG:** Initiates jog operation (momentary run at a preset frequency).
- **Up/Down Arrows:** Navigate through parameters or adjust values.
- **SHIFT:** Shifts cursor position during parameter editing.

5.2 Basic Operation

1. **Power On:** Apply 3-phase 380V power to the inverter. The display will illuminate.
2. **Start Motor:** Press the **RUN** button. The motor will accelerate to the set frequency.
3. **Stop Motor:** Press the **STOP/RST** button. The motor will decelerate and stop.
4. **Adjust Frequency:** Use the Up/Down arrow buttons to adjust the output frequency (and thus motor speed) while the inverter is running, if configured for keypad control.

5.3 Parameter Settings

To access and modify operational parameters (e.g., acceleration/deceleration times, maximum frequency, control mode):

1. Press **PRG/ESC** to enter parameter setting mode.
2. Use the Up/Down arrow buttons to navigate through parameter groups and individual parameters.
3. Press **DATA/ENT** to select a parameter or enter a sub-menu.
4. Use Up/Down arrows and **SHIFT** to modify the parameter value.
5. Press **DATA/ENT** to save the new value.
6. Press **PRG/ESC** repeatedly to exit parameter setting mode.

Refer to the detailed parameter list (not included in this general manual) for specific parameter functions and ranges.

6. Maintenance

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

- **Cleaning:** Periodically clean the inverter'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 tightness and signs of wear or damage. Check for any unusual noises or odors during operation.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Inverter does not power on	No input power; Blown fuse; Loose wiring.	Check power supply; Inspect fuses; Verify all power connections.
Motor does not run	Inverter in STOP mode; Fault condition; Incorrect parameter settings; Motor wiring issue.	Press RUN; Check for fault codes and reset; Verify parameter settings (e.g., control mode, frequency); Inspect motor wiring.

Problem	Possible Cause	Solution
Overcurrent fault	Motor overload; Short circuit in motor or wiring; Rapid acceleration/deceleration.	Reduce motor load; Check motor and wiring for shorts; Adjust acceleration/deceleration times.
Overvoltage/Undervoltage fault	Unstable input power; Regenerative braking (overvoltage).	Check input voltage stability; Consider adding a braking resistor if regenerative braking is an issue.

If a fault code appears on the display, consult the specific fault code section of the full product manual (if available) for detailed explanations and remedies.

8. Specifications

Parameter	Value
Product Series	GD10 Series
Input Voltage	3 Phase, 380V AC
Manufacturer	MDWXDOFP
Item Model Number	MDWXDOFP (refer to specific GD10 variant for power rating)
ASIN	B0DC3YG4G5 (for GD10-0R7G-4-B)
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Assembly Required	No
Number of Pieces	1

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact your original point of purchase or the manufacturer directly. Keep your purchase receipt and product model information handy when contacting support.

Manufacturer: MDWXDOFP

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