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ETURBEV GD200A-018G 022P-4

ETURBEV GD200A Series Frequency Inverter User Manual

Model: GD200A-018G 022P-4 and other GD200A Series variants

1. Introduction

This user manual provides essential information for the safe and efficient operation of the ETURBEV GD200A Series Frequency Inverter. The GD200A series is a high-performance variable frequency drive designed for industrial applications, offering precise motor control and energy efficiency. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper use and to prevent damage or injury.

2. Safety Information

WARNING: Electrical Hazard. Only qualified personnel should perform installation, wiring, and maintenance.
Always observe the following safety precautions:

- Do not operate the inverter with wet hands.
- Ensure the power supply is disconnected before performing any wiring or maintenance. Wait at least 5 minutes after power-off for capacitors to discharge, as indicated by the 'DANGER 5 min' warning on the unit.
- Ground the inverter properly according to local electrical codes.
- Do not touch the internal components of the inverter.
- Protect the inverter from moisture, dust, and direct sunlight.
- Use appropriate personal protective equipment (PPE) when working with the inverter.



Image: Front panel of the GD200A inverter, highlighting the 'DANGER 5 min' warning, indicating the discharge time for internal capacitors after power is removed.

3. Product Overview

The GD200A series frequency inverter is designed for robust performance and ease of use. It features a user-friendly control panel, efficient heat dissipation, and a compact design suitable for various industrial environments.



Image: A clear view of the GD200A Frequency Inverter, showcasing its control panel with buttons for RUN, STOP/RST, PRG/ESC, DATA/ENT, QUICK JOG, and arrow keys, along with a digital display.



Image: A side perspective of the GD200A inverter, revealing its cooling fins and ventilation grilles, essential for heat dissipation during operation.



Image: A collection of GD200A series inverters in different sizes, illustrating the range of power capacities available within the product line.

4. Setup

4.1 Mounting

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

4.2 Wiring

Refer to the wiring diagram provided inside the inverter's terminal cover. Ensure all connections are secure and correctly phased. Use appropriate wire gauges for the power rating.

- **Power Input (R, S, T):** Connect the 380V AC power supply.
- **Motor Output (U, V, W):** Connect to the motor terminals.
- **Ground (PE):** Connect to a reliable ground point.
- **Control Terminals:** Connect external control signals (e.g., start/stop, speed reference) as required by your application.

5. Operating Instructions

5.1 Basic Operation

- **RUN Button:** Press to start the motor.
- **STOP/RST Button:** Press to stop the motor or reset an error.
- **PRG/ESC Button:** Enters/exits parameter setting mode or cancels current operation.

- **DATA/ENT Button:** Confirms parameter settings or enters sub-menus.
- **Up/Down Arrow Buttons:** Navigate through parameters or adjust values.
- **SHIFT Button:** Shifts cursor position during parameter editing.
- **QUICK JOG Button:** Initiates a quick jog operation for testing.

5.2 Parameter Settings

The GD200A inverter has a wide range of adjustable parameters to customize its operation. To access parameters:

1. Press the **PRG/ESC** button to enter parameter setting mode.
2. Use the **Up/Down Arrow** buttons to navigate to the desired parameter group (e.g., P00 for basic parameters).
3. Press **DATA/ENT** to enter the parameter group.
4. Use **Up/Down Arrow** buttons to select the specific parameter.
5. Press **DATA/ENT** to view or edit the parameter value.
6. Use **Up/Down Arrow** buttons to change the value, and**SHIFT** to move between digits.
7. Press **DATA/ENT** to save the new value.
8. Press **PRG/ESC** to exit parameter setting mode.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your GD200A inverter.

- **Daily Check:** Observe the inverter's operating status, display, and motor sound. Check for unusual vibrations or smells.
- **Weekly Check:** Clean the exterior of the inverter with a soft, dry cloth. Ensure ventilation openings are free from dust and debris.
- **Monthly Check:** Inspect all wiring connections for tightness. Check for signs of overheating or discoloration on terminals.
- **Annual Check:** Inspect cooling fans for proper operation and cleanliness. Replace if noisy or inefficient. Check capacitor condition (visual inspection for bulging or leakage).

Always disconnect power and wait for discharge before performing any maintenance inside the unit.

7. Troubleshooting

This section provides solutions for common issues encountered during operation.

Problem	Possible Cause	Solution
Inverter 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 incorrect; External control signal issue	Verify wiring; Check P00 group parameters; Inspect control signals
Overcurrent fault (OC)	Motor overload; Short circuit in motor/cables; Acceleration time too short	Reduce load; Check motor/cables; Increase acceleration time (P00.01)

Problem	Possible Cause	Solution
Overvoltage fault (OV)	Deceleration time too short; High input voltage; Regenerative load	Increase deceleration time (P00.02); Check input voltage; Add braking resistor
Overheat fault (OH)	Ambient temperature too high; Fan failure; Blocked ventilation	Improve ventilation; Check/replace fan; Clear obstructions

8. Specifications

Key technical specifications for the GD200A Series Frequency Inverter:

Specification	Value
Product Dimensions	1.18 x 0.79 x 0.79 inches (Note: This appears to be packaging dimensions, actual unit size varies by model)
Item Weight	1.76 ounces (Note: This appears to be packaging weight, actual unit weight varies by model)
Manufacturer	ETURBEV
Input Voltage	380V AC (Three-phase)
Series	GD200A
Assembly Required	No (Refers to the unit itself, installation requires assembly)
Number of Pieces	1

Note: Specific power ratings (e.g., 7.5kW, 11kW, 15kW, 18kW) and corresponding physical dimensions vary by exact model within the GD200A series. Refer to the product label for precise specifications of your unit.

9. Warranty and Support

ETURBEV products are manufactured to high quality standards. For information regarding warranty coverage, technical support, or service, please contact your authorized ETURBEV distributor or visit the official ETURBEV website. Please have your product model number and serial number ready when contacting support.

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