

AXAUCHOZ WK600D-0007-MIT

AXAUCHOZ Single Phase Frequency Inverter User Manual

Models: WK600D-0007-MIT, WK600D-0015-MIT, WK600D-0022-MIT, WK600D-0040-G1T

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your AXAUCHOZ Single Phase Frequency Inverter. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage or injury. This inverter is designed to convert single-phase 220V input to single-phase 220V output, suitable for various applications, including water pumps.

2. SAFETY INFORMATION

Warning: Improper installation or operation can lead to electric shock, fire, or equipment damage. Always follow safety guidelines.

- Ensure all power is disconnected before installation or maintenance.
- Only qualified personnel should perform electrical connections.
- Verify input and output voltage ratings match your application requirements.
- Do not operate the inverter in wet or excessively dusty environments.
- Ensure proper grounding of the inverter and connected equipment.
- Do not touch internal components while power is applied.

3. PRODUCT OVERVIEW

3.1 General Description

The AXAUCHOZ Frequency Inverter is a device designed to control the speed of single-phase motors by varying the frequency and voltage supplied to them. It accepts a single-phase 220V input and provides a single-phase 220V output, making it suitable for applications such as water pumps. This inverter is designed to operate single-phase motors without requiring the removal of capacitors.

3.2 Key Features

- Single-phase 220V input and output.
- Designed for single-phase motors, eliminating the need to remove capacitors.
- Frequency control for motor speed adjustment.
- Compact design for various installation environments.

3.3 Component Identification



Figure 1: Front view of the AXAUCHOZ Single Phase Frequency Inverter. This image displays the control panel with buttons (PRG/ESC, RD/WT, MF.K/REV, RUN, STOP/RESET), a frequency adjustment knob, and an LED display. Terminal blocks for input and output wiring are visible at the bottom.

The inverter features a user-friendly control panel for setting parameters and controlling motor operation. Key components include:

- **LED Display:** Shows operational status and parameter values.
- **RUN Button:** Initiates motor operation.
- **STOP/RESET Button:** Stops motor operation and clears errors.
- **Frequency Adjustment Knob:** Used to manually adjust the output frequency.
- **Terminal Blocks:** For connecting input power, motor, and control signals.

4. SPECIFICATIONS

Refer to the table below for detailed technical specifications of various models.



Figure 2: Dimensions and detailed specifications for the WK600D-0007-M1T model. This image provides a side view with measurements and a table outlining input/output voltage, power, rated current, and control method.

Type Selection Table

Parameter	WK600D-0007-MIT (0.75KW/1HP)	WK600D-0015-MIT (1.5KW/2HP)	WK600D-0022-MIT (2.2KW/3HP)	WK600D-0040-G1T (4KW/5HP)
Input Voltage	Single phase 220V±10% 50Hz/60Hz			Single phase 220V±15% 50Hz/60Hz
Output Voltage	Single phase 220V or Three phase 0-220V 0-500Hz			
Power	0.75KW/1HP	1.5KW/2HP	2.2KW/3HP	4KW/5HP
Rated Current	4A	7A	10A	16A
Shape Size (mm)	155*82*135	155*82*135	155*82*135	170*130*160
Packing Size (mm)	220*150*130	220*150*130	220*150*130	225*190*230
Weight	1.2KG	1.2KG	1.2KG	2KG

Note: The output voltage can be configured for single-phase 220V or three-phase 0-220V (0-500Hz). For single-phase motor applications, ensure the inverter's output mode is correctly set for single-phase operation.

5. SETUP AND INSTALLATION

5.1 Mounting

- Mount the inverter vertically on a flat, stable surface.
- Ensure adequate ventilation around the unit to prevent overheating. Maintain at least 10cm clearance on all sides.
- Avoid locations exposed to direct sunlight, high temperatures, humidity, or corrosive gases.

5.2 Wiring Connections

Important: All wiring must be performed with power disconnected. Consult a qualified electrician if unsure.

1. **Input Power (L, N, G):** Connect the single-phase 220V AC power supply to the designated input terminals (L, N). Connect the ground wire to the ground terminal (G).
2. **Motor Connection (U, V, W):** Connect the single-phase motor to the output terminals (U, V, W). For single-phase motors, typically two wires are connected to U and V, or U and W, depending on the motor type and desired rotation. Refer to your motor's manual for specific wiring. The inverter is designed to work with single-phase motors without capacitor removal.
3. **Control Terminals:** If external control (e.g., remote start/stop, external potentiometer) is desired, connect to the respective control terminals as per the detailed wiring diagram in the full technical manual (not provided here).

Ensure all connections are secure and insulated. Double-check wiring before applying power.

6. OPERATING INSTRUCTIONS

6.1 Initial Power-Up

1. After verifying all connections, apply power to the inverter. The LED display should illuminate.
2. The inverter may display a default frequency or a standby message.

6.2 Basic Operation

- **Starting the Motor:** Press the **RUN** button. The motor should begin to operate, and the display will show the output frequency.
- **Stopping the Motor:** Press the **STOP/RESET** button. The motor will decelerate and stop.
- **Adjusting Frequency/Speed:** Rotate the frequency adjustment knob (typically labeled "LOC/REM" or similar) to increase or decrease the output frequency, thereby controlling the motor speed.
- **Parameter Settings:** Use the **PRG/ESC**, **RD/WT**, and arrow buttons (up/down) to navigate through parameters and adjust settings. Refer to the full technical manual for a complete list of parameters and their functions.

6.3 Single Phase Motor Configuration

This inverter is specifically designed to drive single-phase motors. Ensure that the inverter's output mode is correctly set for single-phase operation. This setting is typically found within the parameter menu. Consult the detailed parameter list in the comprehensive manual for specific parameter numbers and values related to single-phase output configuration.

7. MAINTENANCE

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

- **Cleaning:** Periodically clean the inverter's exterior with a soft, dry cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of damage or corrosion. Check for any unusual noises or odors during operation.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Fan Check:** Verify that the cooling fan (if present) is operating correctly and not obstructed.

Always disconnect power before performing any maintenance or inspection.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Inverter does not power on.	No input power; incorrect wiring; internal fault.	Check power supply and input wiring. Ensure circuit breaker is on.
Motor does not run when RUN is pressed.	Incorrect motor wiring; parameter settings incorrect; fault condition.	Verify motor connections. Check display for fault codes. Review parameter settings for motor type and control mode.
Motor runs at incorrect speed.	Frequency adjustment knob setting; parameter settings.	Adjust the frequency knob. Check frequency range parameters.
Inverter displays a fault code.	Overcurrent, overvoltage, undervoltage, overheat, etc.	Note the fault code and refer to the comprehensive manual for specific fault definitions and remedies. Press STOP/RESET to clear.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. For technical support, inquiries, or to report issues, please contact AXAUCHOZ customer service through the vendor's contact information provided at the point of purchase.