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› Wisoqu VFD 7.5KW Frequency Converter User Manual

Wisoqu Wisoqup4qcdke0in7507

Wisoqu VFD 7.5KW Frequency Converter User Manual

Model: Wisoqup4qcdke0in7507

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Wisoqu VFD 7.5KW Frequency Converter. This device is designed to convert single-phase or three-phase input power (AC180-250V) into three-phase 220V output, enabling precise speed control for various motors, particularly for general fan applications.

Please read this manual thoroughly before installation, operation, or maintenance to ensure proper usage and prevent potential hazards.



Figure 1.1: Wisoqu VFD 7.5KW Frequency Converter with control panel highlighted.

2. SAFETY INFORMATION

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

- **High Voltage Inside:** The frequency converter contains high voltage components. Do not open the casing unless you are a qualified professional.
- **Discharge Time:** After disconnecting power, wait at least 5 seconds for internal capacitors to discharge before touching any internal components. Do not inspect the circuit unless the internal "CHARGE" lamp is off.
- **Grounding:** Ensure the unit is properly grounded according to local electrical codes.
- **Power Disconnection:** Always disconnect all power sources before performing any wiring, inspection, or maintenance.
- **Environment:** Install the unit in a clean, dry, and well-ventilated area, away from flammable materials, direct sunlight, and excessive dust or moisture.

- **Qualified Personnel:** Installation, wiring, and maintenance should only be performed by qualified electricians or technicians.



Figure 2.1: Front view of the converter, displaying the high voltage warning label.

3. PRODUCT FEATURES

The Wisoqu VFD 7.5KW Frequency Converter incorporates several design elements for reliability and ease of use:

- **Durable Construction:** Manufactured from industrial flame-retardant ABS material, providing heat resistance, flame retardancy, and impact resistance for enhanced safety and durability.
- **User-Friendly Interface:** Features a humanized keyboard design for straightforward operation and a clear display for monitoring parameters.
- **Comprehensive Functionality:** Equipped with common functions found in conventional inverters, making it suitable for a wide range of applications.
- **Efficient Heat Dissipation:** Utilizes an all-aluminum base heat sink combined with a powerful imported fan,

ensuring rapid and effective heat dissipation.



Figure 3.1: Key features of the Wisoqu VFD 7.5KW Frequency Converter.

4. SETUP AND INSTALLATION

4.1. Mounting

Mount the frequency converter vertically on a stable, non-flammable surface. Ensure adequate clearance around the unit for proper ventilation and heat dissipation. Avoid mounting in direct sunlight or areas with excessive vibration.

4.2. Wiring

All wiring must be performed by a qualified electrician. Ensure power is disconnected before starting any wiring procedures.

1. **Input Power:** Connect the AC180-250V single-phase or three-phase input power to the designated input terminals (typically R, S, T for three-phase, or L, N for single-phase).

2. **Output Power:** Connect the motor to the three-phase 220V output terminals (typically U, V, W).
3. **Grounding:** Connect the ground terminal of the frequency converter to a reliable earth ground.
4. **Control Wiring:** If external control signals (e.g., start/stop, speed reference) are used, connect them to the appropriate control terminals as per the detailed wiring diagram in the full product manual (not included here).

Verify all connections are secure and correct before applying power.

5. OPERATING INSTRUCTIONS

5.1. Control Panel Overview

The frequency converter features a digital display and several control buttons for operation and parameter setting.



Figure 5.1: Detailed view of the control panel.

- **Digital Display:** Shows operating frequency, output current, voltage, and error codes.

- **RUN/STOP Button:** Initiates or halts motor operation.
- **RESET Button:** Resets error conditions.
- **SET Button:** Enters parameter setting mode.
- **Up/Down Arrows:** Adjust frequency, navigate menus, or change parameter values.
- **FWD/REV Button:** Changes motor rotation direction (Forward/Reverse).
- **JOG Button:** Provides momentary motor operation for testing or precise positioning.

5.2. Basic Operation

1. **Power On:** Apply power to the frequency converter. The display will illuminate.
2. **Start Motor:** Press the **RUN** button to start the motor.
3. **Adjust Speed:** Use the **Up/Down Arrow** buttons to increase or decrease the output frequency, thereby adjusting the motor speed.
4. **Stop Motor:** Press the **STOP** button to halt the motor.
5. **Change Direction:** Press the **FWD/REV** button to toggle the motor's rotation direction.

For advanced parameter settings and specific application configurations, refer to the detailed programming guide in the complete product manual.

6. APPLICATIONS

The Wisoqu VFD 7.5KW Frequency Converter is versatile and suitable for a wide range of industrial and commercial applications requiring precise motor speed control. Common uses include:

- Lathes
- Treadmills
- Mixers
- Dividers
- Elevators
- Centrifuges
- Spindle motors
- Milling machines
- Pumps
- Conveyors
- Winding machines
- Extruders
- Compressors
- Fans

Ampliamente Usado en Varios Escenarios

Usado en motores de husillo, tornos, fresado, bombas, caminadoras, transportadores, máquinas bobinadoras, mezcladoras, extrusoras, divisoras, compresores, ventiladores, elevadores, centrífugas y otras máquinas.

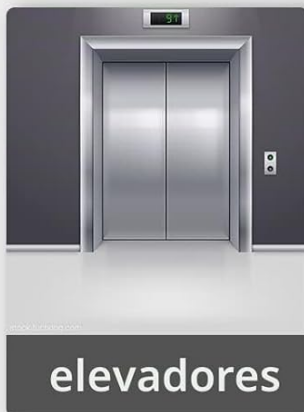
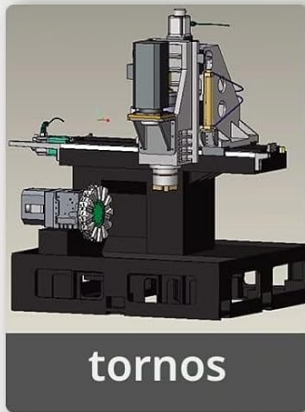


Figure 6.1: Examples of applications where the frequency converter can be used.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your frequency converter.

- **Cleaning:** Periodically clean the exterior of the unit and ventilation openings to prevent dust accumulation. Use a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or damage. Check for any unusual noises or odors during operation.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Fan Check:** Verify that the cooling fan is operating correctly and is free from obstructions.

Always disconnect power before performing any cleaning or inspection tasks.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit does not power on	No input power; loose wiring; internal fuse blown.	Check power supply; verify all wiring connections; inspect internal fuse (by qualified personnel only).
Motor does not run	Incorrect wiring; motor parameters not set; emergency stop active; overload.	Verify motor and output wiring; check motor parameters in settings; release emergency stop; check for motor overload.
Motor runs erratically or at wrong speed	Incorrect frequency setting; unstable input voltage; motor or load issue.	Adjust frequency setting; check input power stability; inspect motor and load for mechanical issues.
Overload error displayed	Motor drawing too much current; incorrect motor parameters; mechanical binding.	Reduce motor load; verify motor parameters (current, power); check for mechanical obstructions in the motor/load system.

If the problem persists after attempting these solutions, contact customer support or a qualified technician.

9. SPECIFICATIONS

The following are the general specifications for the Wisoqu VFD 7.5KW Frequency Converter:



Figure 9.1: Dimensions of the Wisoqu VFD 7.5KW Frequency Converter.

Specification	Value
Part Number	Wisoqup4qcdke0in7507
Voltage	250 Volts (Input AC180-250V)
Wattage	7.5 KW
Number of Units in Package	1
Batteries Required	No
Package Dimensions	27.8 x 22.7 x 20.1 cm; 2.93 kg
ASIN	B09CV4VMC4

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Wisoqu website. If you encounter any issues or require technical assistance, please contact Wisoqu customer support through their official channels.

Keep your purchase receipt and product model number (Wisoqup4qcdke0in7507) handy when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question