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Walfront Walfrontxgm7f6na2w6572

Walfront Voltage Phase Sequence Protector User Manual

Model: Walfrontxgm7f6na2w6572

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Walfront Voltage Phase Sequence Protector. This device is designed to monitor 3-phase AC voltage systems and provide protection against overvoltage, undervoltage, voltage unbalance, phase error, phase loss, and zero line disconnection. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

2. SAFETY INFORMATION

Always adhere to local electrical codes and safety regulations during installation and operation. Disconnect power before performing any wiring or maintenance. Only qualified personnel should install and service this device.

- Ensure power is disconnected before wiring or servicing.
- Verify voltage and current ratings match the application.
- Do not operate the device if it is damaged.
- Keep the device away from moisture and extreme temperatures.

3. PRODUCT OVERVIEW

The Walfront Voltage Phase Sequence Protector (Model: Walfrontxgm7f6na2w6572) is a compact and versatile device designed for industrial electrical systems. It features a standard 35mm DIN rail mounting for easy integration into control cabinets.



Figure 3.1: Front view of the Voltage Phase Sequence Protector, showing the LCD display and control buttons.

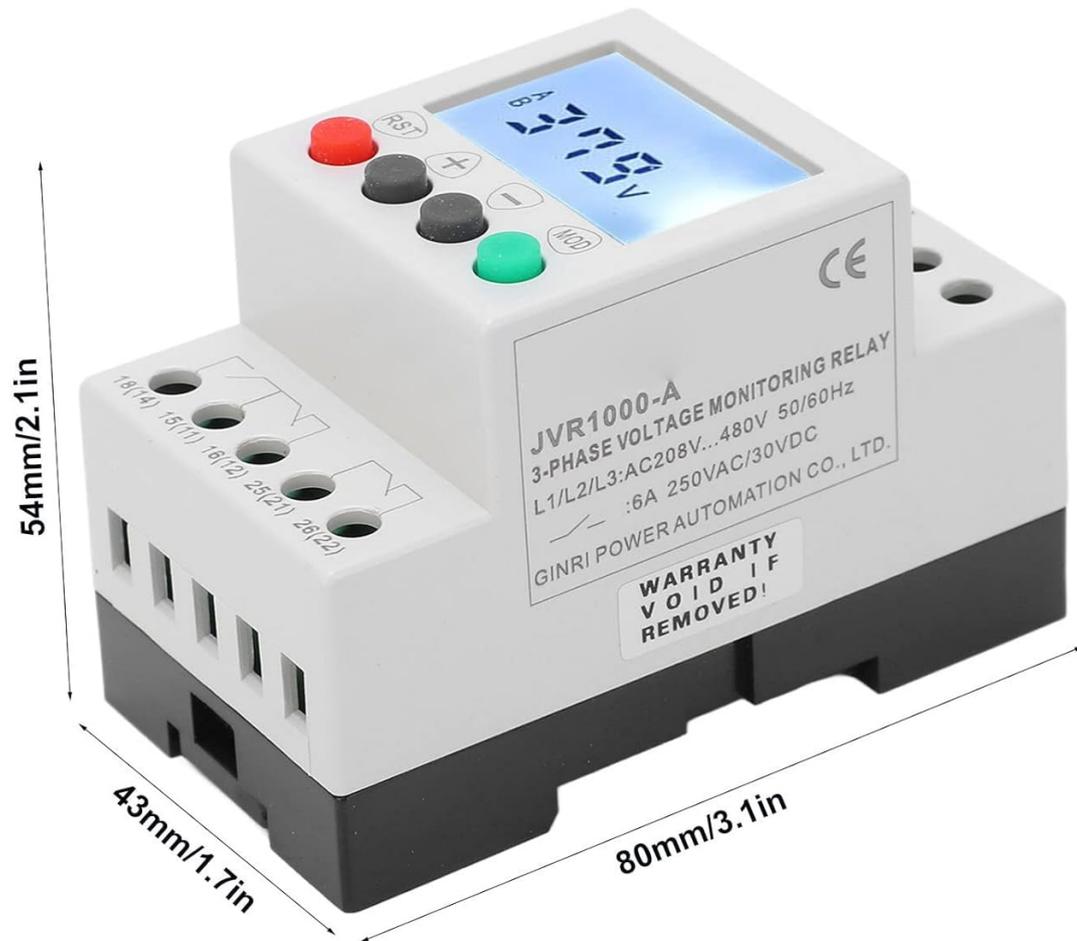


Figure 3.2: Dimensions of the Voltage Phase Sequence Protector (approx. 80x43x54mm).

Key Features:

- **Standard and Universal:** Modular structure with 35mm rail installation, suitable for a wide range of voltage applications (AC 208 to 480V).
- **Multiple Reset Methods:** Supports both automatic and manual reset modes.
- **Adjustable Values:** Overvoltage, undervoltage, and unbalance thresholds, along with action times, are adjustable.
- **Comprehensive Protection:** Real-time monitoring for overvoltage, undervoltage, voltage unbalance, phase error, phase loss, and zero line disconnection.
- **Wide Application:** Ideal for machine tools, cranes, control cabinets, compressors, cutting machines, elevators, air conditioners, freezers, charging piles, and motors.

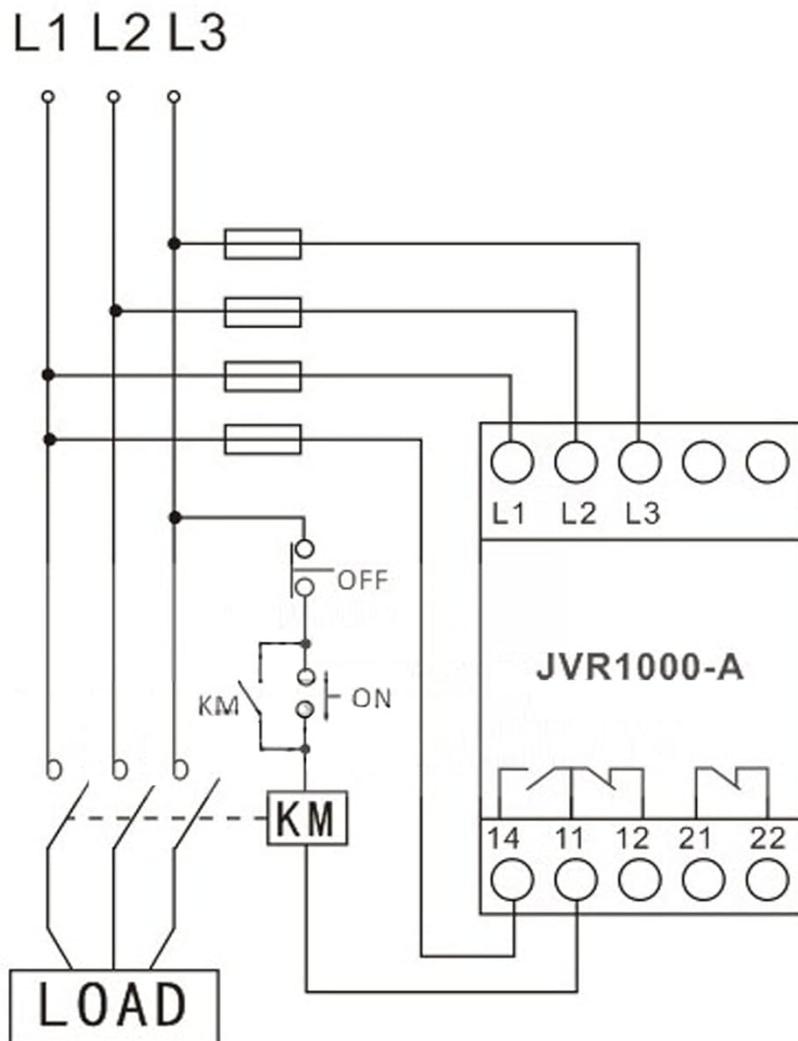
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Video 3.1: A demonstration of the Walfront Voltage Phase Sequence Protector, showcasing its physical appearance and handling.

4. SETUP AND INSTALLATION

The Voltage Phase Sequence Protector is designed for 35mm DIN rail installation. Follow the steps below for proper setup.

4.1 Wiring Diagram



The contact shown is the state of the protector when it is de energized or faulty

Figure 4.1: Standard wiring diagram for the Voltage Phase Sequence Protector. The contact shown is the state of the protector when it is de-energized or faulty.

4.2 Installation Steps

1. **Mounting:** Securely attach the protector to a standard 35mm DIN rail in your control cabinet.
2. **Power Connection:** Connect the L1, L2, and L3 input circuits to the corresponding terminals on the protector. Ensure correct phase sequence.
3. **Output Connection:** Connect the output contacts (1CO and 1NC) to your control circuit as per your application's requirements. Refer to the wiring diagram (Figure 4.1).
4. **Verify Connections:** Double-check all wiring for correctness and secure connections before applying power.

5. OPERATING INSTRUCTIONS

The protector features an LCD display and control buttons for configuration and monitoring.

5.1 Display and Controls

- **LCD Display:** Shows real-time voltage readings, fault indicators, and menu options.
- **RST Button (Red):** Used for manual reset of the protector after a fault.
- **'+' Button (Black):** Used to increase values or navigate menu options.
- **'-' Button (Black):** Used to decrease values or navigate menu options.
- **MOD Button (Green):** Used to enter menu, confirm selections, or switch display modes.

5.2 Parameter Adjustment

To adjust parameters such as overvoltage/undervoltage thresholds, unbalance rate, and action times:

1. Press and hold the **MOD** button to enter the settings menu.
2. Use the '+' and '-' buttons to navigate through the parameters.
3. Press **MOD** to select a parameter for editing.
4. Use '+' and '-' to adjust the value.
5. Press **MOD** again to confirm the new value and exit the editing mode for that parameter.
6. Repeat for other parameters or press and hold **MOD** to exit the settings menu.

5.3 Reset Methods

- **Automatic Reset:** If configured for automatic reset, the protector will clear the fault and resume operation after the fault condition is resolved and the reset delay time has elapsed.
- **Manual Reset:** If configured for manual reset, or if an automatic reset fails, press the **RST** button to clear the fault and restore operation.

6. MAINTENANCE

The Walfront Voltage Phase Sequence Protector requires minimal maintenance. Regular checks ensure optimal performance and longevity.

- **Periodic Inspection:** Visually inspect the device and its connections regularly for any signs of damage, loose wiring, or overheating.
- **Cleaning:** Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent malfunction.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Device not powering on.	No input voltage; incorrect wiring; internal fault.	Check input power supply (L1, L2, L3). Verify wiring connections. If problem persists, contact support.

Problem	Possible Cause	Solution
Protector trips frequently.	Voltage fluctuations; incorrect parameter settings; actual fault condition.	Monitor input voltage stability. Adjust overvoltage/undervoltage/unbalance thresholds if necessary. Investigate and resolve actual electrical faults.
Cannot reset after a trip.	Fault condition still present; device set to manual reset and not pressed; internal error.	Ensure the fault condition is resolved. Press the RST button. If auto-reset is enabled, check reset delay. If problem persists, contact support.
Display is blank or erratic.	Power issue; display damage; internal fault.	Check power supply. Gently tap the device to see if display recovers (may indicate loose connection). If problem persists, contact support.

8. SPECIFICATIONS

Detailed technical specifications for the Walfront Voltage Phase Sequence Protector.

Parameter	Value
Item Type	Voltage Phase Sequence Protector
Material	ABS
Input Circuit	L1, L2, L3 (3-Phase)
Working Voltage Range	AC 208 to 480V
Working Frequency	45-65Hz
Output Type	1CO and 1NC (Normally Open and Normally Closed)
Overvoltage/Undervoltage Action Time	0.1-999s (Adjustable)
Unbalance Rate	1-50% (Adjustable)
Unbalanced Hysteresis	1-10%
Unbalanced Delay	0.1-999s (Adjustable)
Phase Loss Action Time	0.1-30s
Phase Error Action Time	0.1-30s
Power On Delay	0-999s
Reset Mode	Auto / Manual
Reset Delay	0.1-999s
Display Mode	LCD display each action status
Contact Form	1 group NO, 1 group NC
Contact Capacity	6A 250VAC / 30VDC (resistive)
Dimensions (LxWxH)	Approx. 80x43x54mm / 3.1x1.7x2.1in

Parameter	Value
Installation Method	35mm guide rail
Protection Class	IP20
Working Environment	-25°C to 65°C, ≤85%RH
Mechanical Durability	1,000,000 times
Dielectric Strength	>2kVAC 1min

9. WARRANTY AND SUPPORT

Walfront products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Walfront customer service through the retailer where you purchased the product or visit the official Walfront store on Amazon:

[Visit the Walfront Store on Amazon](#)

Please have your product model number (Walfrontxgm7f6na2w6572) and purchase information ready when contacting support.