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Fafeicy Fafeicysuan6evi3x

Fafeicy 100A Automatic Over Under Voltage Protector Device User Manual

Model: Fafeicysuan6evi3x | Brand: Fafeicy

Introduction

This manual provides instructions for the installation, operation, and maintenance of the Fafeicy 100A Automatic Recovery Over & Under Voltage Protector Device. This device is designed to safeguard electrical equipment from damage caused by voltage fluctuations, specifically over-voltage and under-voltage conditions, ensuring stable and reliable power supply.

Product Features

- **Automatic Voltage Recovery:** Automatically restores power after voltage returns to normal levels, without manual intervention.
- **Over-Voltage Protection:** Disconnects power when voltage exceeds 275V ± 5V.
- **Under-Voltage Protection:** Disconnects power when voltage drops below 170V ± 5V.
- **Fast Protection Response:** Protective action time is ≤1 second.
- **Delay Connection:** Features a delay connection time of ≤60 seconds to prevent immediate re-connection after a fault, protecting connected equipment.
- **Modular Design:** Complies with industry standards for easy integration into electrical systems.
- **High Performance:** Utilizes premium electronic components for stable and reliable operation.

Technical Specifications

Parameter	Value
Rated Current	100A
Working Voltage	AC230V 50Hz
Over-Voltage Protection Value	275V ± 5V
Under-Voltage Protection Value	170V ± 5V
Protective Action Time	≤1s

Parameter	Value
Delay Connection Time	≤60s
Package Dimensions	3.94 x 3.94 x 2.36 inches
Item Weight	5.8 ounces
Model Number	Fafeicysuan6evi3x
Brand	Fafeicy
Manufacturer	Fafeicy

Safety Information

- Installation and maintenance should only be performed by qualified electricians.
- Ensure the main power supply is disconnected before any installation or wiring work.
- Verify that the device's specifications (rated current, voltage) match your electrical system requirements.
- Do not operate the device if it appears damaged.
- This product is designed for indoor use in dry environments. Avoid exposure to moisture or extreme temperatures.
- The device provides protection against over and under voltage. It does not protect against short circuits or ground faults; appropriate circuit breakers must be installed upstream.

Installation Instructions

The voltage protector is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Power Disconnection:** Before beginning, ensure the main power supply to the circuit is completely disconnected at the main breaker.
2. **Mounting:** Mount the device securely onto a standard DIN rail within your electrical panel.
3. **Wiring - Input:** Connect the incoming AC230V 50Hz power supply to the " " (Input Terminal) at the bottom of the device. Ensure correct polarity (Live and Neutral).
4. **Wiring - Output:** Connect the load (electrical equipment to be protected) to the " " (Output Terminal) at the top of the device. Ensure correct polarity.
5. **Secure Connections:** Tighten all terminal screws firmly to prevent loose connections, which can cause overheating or malfunction.
6. **Verification:** Double-check all wiring connections for correctness and security.
7. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.



Figure 1: Front view of the Fafeicy voltage protector, highlighting the " " (Input Terminal) at the bottom and " " (Output Terminal) at the top. The device also features red (protection) and green (power) indicator lights.



Figure 2: Detailed view of the device's front panel, showing specifications and terminal labels. Ensure wiring matches the designated input and output terminals.

Operation

Once correctly installed and powered, the Fafeicy voltage protector operates automatically:

- **Power On:** Upon power restoration, the device will initiate a delay connection sequence (≤60 seconds). The green indicator light will illuminate, indicating power is supplied to the device. After the delay, power will be supplied to the load.
- **Normal Operation:** During normal voltage conditions (within 170V-275V), the device allows power to pass through to the connected equipment. The green indicator light remains on.
- **Over-Voltage Protection:** If the voltage exceeds 275V ± 5V, the device will automatically cut off the power supply to the load within ≤1 second. The red indicator light will illuminate, indicating a protection state.
- **Under-Voltage Protection:** If the voltage drops below 170V ± 5V, the device will also automatically cut off the power

supply to the load within ≤1 second. The red indicator light will illuminate.

- **Automatic Recovery:** When the voltage returns to the normal range, the device will automatically re-engage after the delay connection time (≤60 seconds), restoring power to the load. The red light will turn off, and the green light will illuminate.

Maintenance

- Periodically inspect the device and its connections for any signs of damage, loose wiring, or discoloration.
- Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- Do not attempt to open or repair the device yourself. Refer to qualified personnel for service.

Troubleshooting

Problem	Possible Cause	Solution
No power to load, green light off.	No incoming power.	Check main circuit breaker and power supply.
No power to load, red light on.	Over-voltage or under-voltage condition detected.	Wait for voltage to stabilize. Device should automatically reset after delay. If problem persists, consult an electrician to check line voltage.
Device does not reset after voltage stabilizes.	Internal fault or severe voltage fluctuation.	Disconnect power, wait a few minutes, then restore. If issue persists, contact support.
Loose connections or overheating.	Improper wiring.	Disconnect power immediately. Re-tighten all terminal screws. If damage occurred, replace the device.

Warranty and Support

For warranty information and technical support, please contact the manufacturer, Fafeicy, or your point of purchase. Keep your purchase receipt as proof of purchase.

Manufacturer: Fafeicy

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