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ETURBEV AC110V 1-63A

ETURBEV Din Rail Adjustable Voltage Protector User Manual

Model: AC110V 1-63A

1. Introduction

The ETURBEV Din Rail Adjustable Voltage Protector is designed to safeguard electrical equipment from damage caused by over-voltage, under-voltage, and over-current conditions. This device features a digital display for real-time monitoring of voltage and current, along with adjustable protection parameters. It is suitable for AC 110V systems with a current rating of 1-63A. This manual provides essential information for the safe and effective installation, operation, and maintenance of your voltage protector.

2. Product Overview

The voltage protector integrates protection functions into a compact, DIN rail-mountable unit. It features a clear digital display and intuitive buttons for setting various protection thresholds and recovery delays.



Figure 2.1: Front view of the ETURBEV Din Rail Adjustable Voltage Protector. The device features an upper digital display for voltage

(V) and a lower display for current (A). Indicator lights show status for over-voltage (>V), under-voltage (<V), over-current (A), and power (P). Control buttons include SET, Up arrow, Down arrow, and Power.

Key Features:

- **Over-Voltage Protection:** Automatically disconnects power when voltage exceeds a set limit.
- **Under-Voltage Protection:** Automatically disconnects power when voltage drops below a set limit.
- **Over-Current Protection:** Automatically disconnects power when current exceeds a set limit.
- **Adjustable Parameters:** User-configurable voltage, current, and recovery delay settings.
- **Digital Display:** Real-time display of voltage and current.
- **Automatic Recovery:** Restores power automatically after fault conditions clear and delay expires.
- **DIN Rail Mounting:** Easy installation in standard electrical enclosures.

3. Safety Instructions

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Installation and maintenance should only be performed by qualified electricians.
- Ensure the main power supply is disconnected before installing or servicing the device.
- Verify that the voltage and current ratings of the protector match your electrical system requirements.
- Do not operate the device in wet or damp conditions.
- Ensure all wire connections are secure and properly insulated.
- Do not attempt to modify or disassemble the device.

4. Setup and Installation

The voltage protector is designed for DIN rail mounting within an electrical distribution box or panel.

4.1 Mounting

1. Ensure the main power supply to the installation area is turned off.
2. Clip the device onto a standard 35mm DIN rail. Ensure it is securely fastened.

4.2 Wiring Connections

Connect the input and output wires as shown in the diagram below. Pay close attention to the 'IN' (input) and 'OUT' (output) terminals, as well as the Neutral (N) and Live (L) connections.

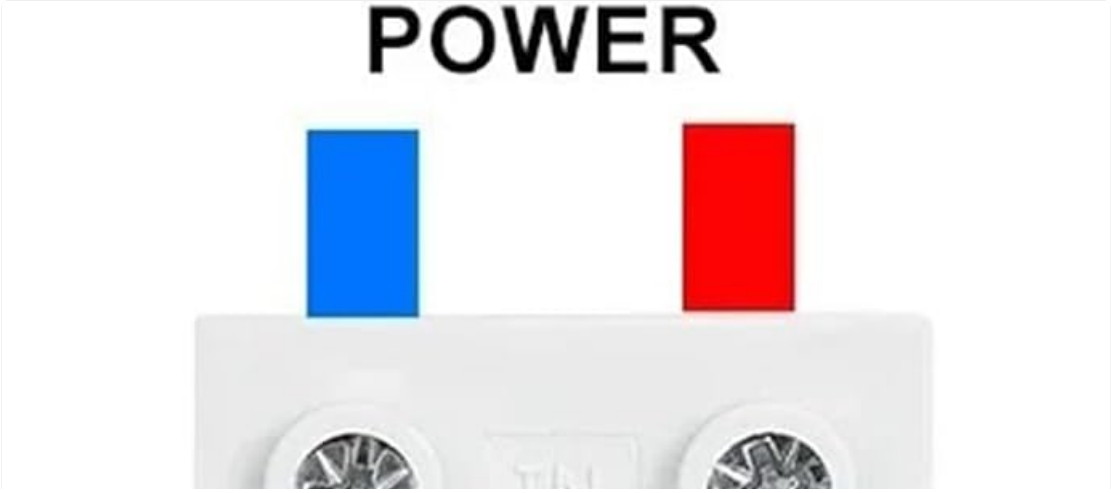



Figure 4.1: Wiring diagram. The 'IN' terminals connect to the main power supply (POWER), and the 'OUT' terminals connect to the protected load (LOAD). Ensure correct polarity for Neutral (N) and Live (L) connections.

1. Connect the incoming power supply (POWER) to the 'IN' terminals at the top of the device. Connect the Neutral wire to

'N' and the Live wire to 'L'.

2. Connect the load (LOAD) to be protected to the 'OUT' terminals at the bottom of the device. Connect the Neutral wire to 'N' and the Live wire to 'L'.
3. Ensure all connections are tight and secure to prevent loose contacts and overheating.

4.3 Dimensions

The device is designed to fit standard circuit breaker sizes for easy integration into existing panels.

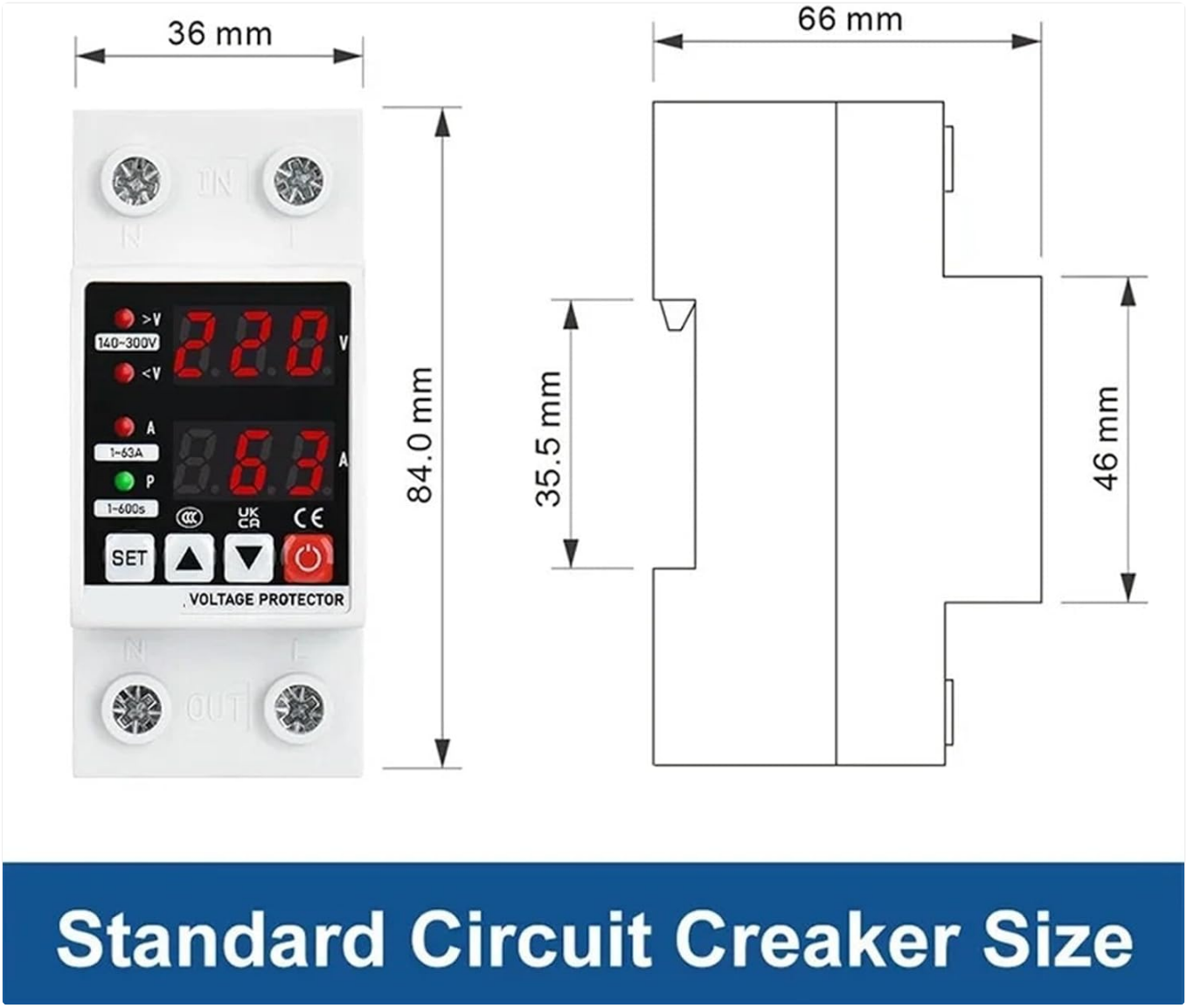

Figure 4.2: Device dimensions. The protector has a width of 36mm and a height of 84mm, with a depth of 66mm, conforming to standard circuit breaker sizes for DIN rail mounting.

5. Operating Instructions

After installation, restore power to the circuit. The device will power on and display the current voltage and current readings. Use the control buttons to adjust protection parameters.

5.1 Button Functions

- **SET Button:** Enters parameter setting mode. Press repeatedly to cycle through different parameters.
- **Up Arrow (▲) Button:** Increases the value of the selected parameter.
- **Down Arrow (▼) Button:** Decreases the value of the selected parameter.
- **Power Button ( ):** Manually turns the output power ON/OFF.

5.2 Setting Protection Parameters

To adjust the protection values, follow these steps:

1. Press the **SET** button to enter the setting mode. The first parameter will flash.
2. Use the **Up (▲)** and **Down (▼)** buttons to adjust the value.
3. Press **SET** again to confirm the current parameter and move to the next one.
4. Repeat steps 2 and 3 for all desired parameters.
5. After setting the last parameter, press **SET** one more time to exit the setting mode. The device will save the new settings automatically.

5.3 Parameter Descriptions

- **>V (Over-Voltage Protection Value):** Set the maximum allowable voltage. If the measured voltage exceeds this value, the device will trip.



Figure 5.1: Example of over-voltage setting range (140-300V).

- **<V (Under-Voltage Protection Value):** Set the minimum allowable voltage. If the measured voltage drops below this value, the device will trip.



Figure 5.2: Example of under-voltage setting range (70-160V).

- **A (Over-Current Protection Value):** Set the maximum allowable current (1-63A). If the measured current exceeds this value, the device will trip.
- **P (Recovery Delay Time):** Set the delay time (1-600 seconds) before the device automatically restores power after a fault condition has cleared. This prevents rapid cycling during unstable conditions.

6. Maintenance

The ETURBEV Din Rail Adjustable Voltage Protector requires minimal maintenance. Regular checks can help ensure its

continued reliable operation.

- **Periodic Inspection:** Visually inspect the device and its connections periodically for any signs of damage, loose wiring, or discoloration.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Functionality Test:** Periodically test the protection functions by simulating fault conditions if safely possible, or by observing its operation during minor fluctuations.

7. Troubleshooting

If you encounter issues with your voltage protector, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Device does not power on / Display is off	No input power; Incorrect wiring; Device fault.	Check main power supply. Verify wiring connections (IN/OUT, N/L). If power is present and wiring is correct, the device may be faulty.
Device trips frequently	Protection parameters set too low/high; Unstable power supply; Overloaded circuit.	Review and adjust over-voltage, under-voltage, and over-current settings. Check for power fluctuations. Reduce load on the circuit.
Device does not trip during fault	Protection parameters set too high/low; Device fault.	Verify protection settings are appropriate for your system. If settings are correct, the device may be faulty.
Power does not restore after fault clears	Recovery delay (P) is too long; Fault condition still present; Device fault.	Wait for the set recovery delay time to elapse. Ensure the fault condition (voltage/current) has genuinely returned to normal. Check 'P' setting.
Display shows error code or abnormal readings	Internal fault; Sensor issue.	Disconnect power, wait a few minutes, then reconnect. If the issue persists, the device may be faulty.

If troubleshooting steps do not resolve the issue, contact the seller or a qualified electrician for assistance.

8. Specifications

Parameter	Value
Brand	ETURBEV
Model	AC110V 1-63A
Rated Voltage	AC 110V
Current Rating	1-63 Amps
Over-Voltage Protection Range	Adjustable (e.g., 140-300V for 220V models, specific range for 110V model)

Parameter	Value
Under-Voltage Protection Range	Adjustable (e.g., 70-160V for 220V models, specific range for 110V model)
Over-Current Protection Range	1-63 Amps
Recovery Delay Time	1-600 seconds (Adjustable)
Mounting Type	DIN Rail Mount
Operation Mode	Automatic
Item Weight	Approximately 50 Grams

9. Warranty and Support

For specific warranty information, please refer to the product packaging or contact your point of purchase. If you require technical support or have questions regarding the operation of your ETURBEV Din Rail Adjustable Voltage Protector, please reach out to the seller or manufacturer directly.

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