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FANGZHNHT EAPDX 40A

FANGZHNHT EAPDX 40A 230V Over Under Voltage Relay Protective Device

USER MANUAL

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your FANGZHNHT EAPDX 40A 230V Over Under Voltage Relay Protective Device. This device is designed to protect electrical equipment from damage caused by voltage fluctuations and over-current conditions by automatically disconnecting the power supply when parameters exceed set limits and reconnecting when conditions return to normal.

2. Safety Information

- **Electrical Hazard:** Installation and maintenance must be performed by qualified personnel only. Ensure power is disconnected before any wiring or servicing.
- **Voltage Rating:** Do not exceed the specified voltage and current ratings of the device.
- **Proper Grounding:** Ensure the electrical system is properly grounded according to local electrical codes.
- **Environmental Conditions:** Do not expose the device to moisture, extreme temperatures, or corrosive environments.

3. Product Features

The FANGZHNHT EAPDX 40A protective device offers the following key features:

- **Dual Digital Display:** Real-time monitoring of voltage and current.
- **Over-Voltage Protection:** Automatically disconnects power when voltage exceeds a preset upper limit.
- **Under-Voltage Protection:** Automatically disconnects power when voltage drops below a preset lower limit.
- **Over-Current Protection:** Automatically disconnects power when current exceeds a preset limit.
- **Adjustable Self-Resetting:** Configurable delay for automatic reconnection after fault conditions clear.
- **Status Indicators:** LED indicators for over-voltage (>V), under-voltage (e) status.

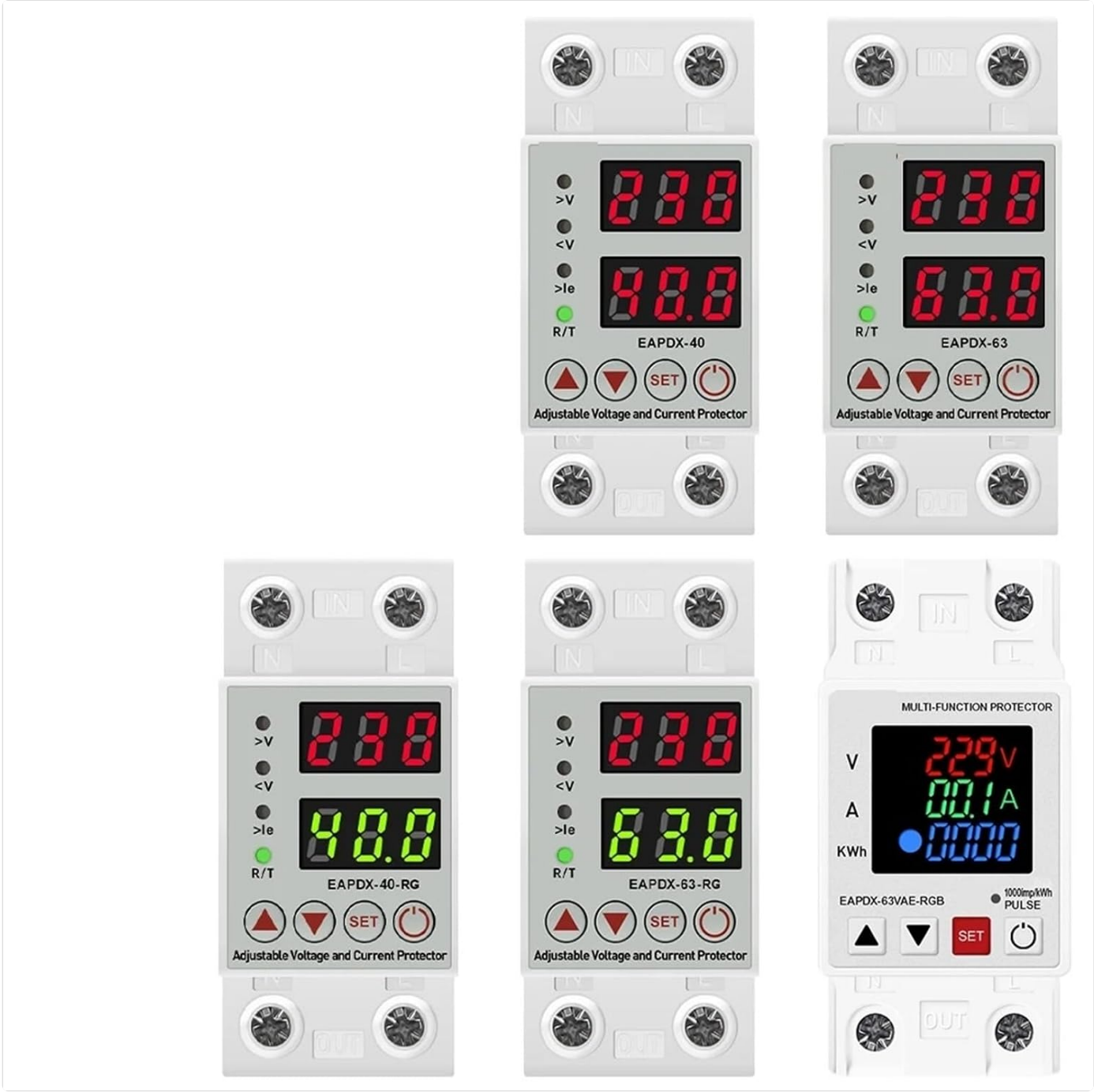


Image 1: Overview of FANGZHNHT EAPDX models. This image displays six different models of the protective device, each featuring a dual digital display for voltage and current, along with indicator lights for various fault conditions. Control buttons for setting parameters are visible at the bottom of each unit. The models include EAPDX-40, EAPDX-63, EAPDX-40-RG, EAPDX-63-RG, and EAPDX-63VAE-RGB, highlighting the range of available options and their common interface elements.



Image 2: Adjustable Self-Resetting Protection. This close-up image focuses on the display and controls of an EAPDX-63 model, emphasizing its core functionality as an adjustable self-resetting over-voltage, under-voltage, and over-current protector. The text overlay explains that the device displays current and voltage usage, automatically disconnecting when either current or voltage exceeds predefined limits.

4. Setup and Installation

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

1. **Mounting:** Securely attach the device to a standard 35mm DIN rail in an appropriate electrical enclosure.
2. **Wiring:** Connect the incoming power supply (Line and Neutral) to the 'IN' terminals and the load to the 'OUT' terminals. Ensure correct polarity and tight connections.
3. **Power On:** After verifying all connections, restore power to the circuit. The device display should illuminate.

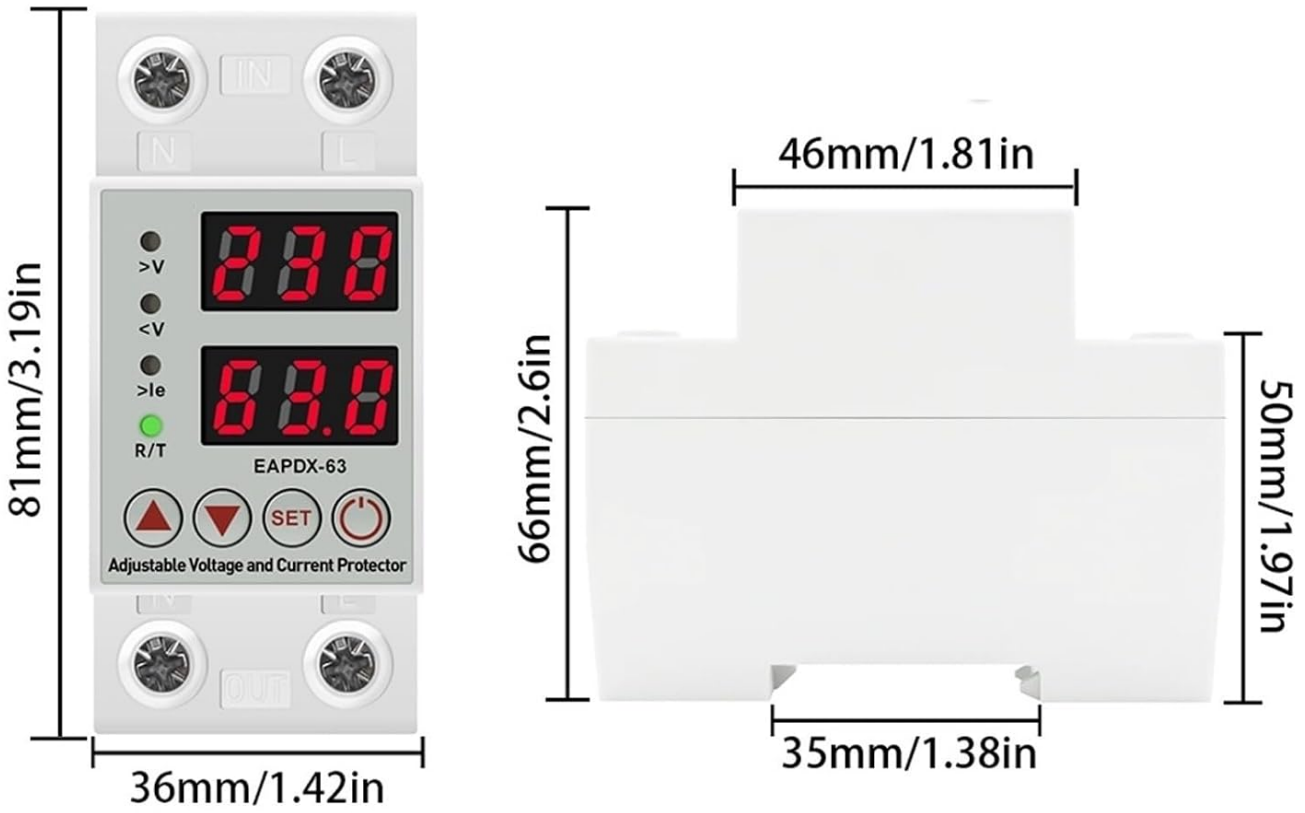


Image 3: Device Dimensions. This image provides detailed measurements for the EAPDX-63 model, which is representative of the series. The front view shows a height of 81mm (3.19in) and a width of 36mm (1.42in). A side view indicates a depth of 66mm (2.6in) and a height of 50mm (1.97in) from the DIN rail mounting surface, with a 35mm (1.38in) width for the DIN rail clip. These dimensions are critical for planning installation space.

5. Operating Instructions

Once powered on, the device will display the current voltage and current readings. The LED indicators will show the status of the protection functions.

- **Normal Operation:** The display shows real-time voltage and current. All indicator LEDs are off.
- **Protection Activated:** If voltage or current exceeds set limits, the device will trip, disconnecting the load. The corresponding LED indicator (>V, Ie) will illuminate.
- **Self-Resetting:** After a fault, the device will wait for the preset recovery delay time. If the fault clears, it will automatically reconnect the load.
- **Manual Reset:** In some models, a 'R/T' button may be present for manual reset or to view recovery time settings.

6. Parameter Settings

To adjust the protection parameters, use the 'SET', 'Up Arrow', and 'Down Arrow' buttons:

1. **Enter Setting Mode:** Press and hold the 'SET' button for approximately 3-5 seconds until the display starts flashing or indicates a setting parameter.
2. **Navigate Parameters:** Briefly press the 'SET' button to cycle through different adjustable parameters (e.g., over-

voltage threshold, under-voltage threshold, over-current threshold, recovery delay time).

3. **Adjust Values:** Use the 'Up Arrow' and 'Down Arrow' buttons to increase or decrease the value of the currently selected parameter.
4. **Save Settings:** After adjusting all desired parameters, press and hold the 'SET' button again for 3-5 seconds, or wait for the device to automatically exit setting mode (usually after 10-15 seconds of inactivity). The new settings will be saved.

Refer to the specific model's detailed parameter list for default values and adjustment ranges.

7. Maintenance

- **Cleaning:** Keep the device clean and free from dust. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Connection Checks:** Periodically inspect wiring connections to ensure they are secure and free from corrosion.
- **Environmental Check:** Ensure the operating environment remains within specified temperature and humidity ranges.

8. Troubleshooting

Problem	Possible Cause	Solution
No display/No power	No input power; Incorrect wiring	Check power supply; Verify wiring connections.
Device trips frequently	Voltage/current consistently outside set limits; Sensitive settings	Check power quality; Adjust protection thresholds if appropriate.
Device does not trip	Fault condition not severe enough; Device malfunction	Verify fault condition; Contact support if malfunction suspected.
Incorrect readings	Wiring error; Device malfunction	Check wiring; Compare with external meter; Contact support.

9. Specifications

- **Model:** EAPDX 40A
- **Rated Voltage:** 230V AC
- **Rated Current:** 40A
- **Protection Functions:** Over-Voltage, Under-Voltage, Over-Current
- **Display:** Dual Digital (Voltage, Current)
- **Mounting:** 35mm DIN Rail
- **Approximate Dimensions (L x W x H):** 81mm x 36mm x 66mm (3.19in x 1.42in x 2.6in)
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 1.76 ounces

10. Warranty and Support

This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. For warranty claims or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt

as proof of purchase.

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