

NUZEZCJG EAPDX-40/63

NUZEZCJG EAPDX-40/63 Din Rail Adjustable Over/Under Voltage & Over Current Protective Device User Manual

Model: EAPDX-40/63 | Brand: NUZEZCJG

1. INTRODUCTION

The NUZEZCJG EAPDX-40/63 is a versatile Din Rail mounted protective device designed to safeguard electrical circuits and connected equipment from various power anomalies. It integrates over voltage, under voltage, and over current protection functions, along with real-time voltage and current monitoring. This device is suitable for 220V, 50Hz/60Hz systems and is available in 40A and 63A variants.

This manual provides essential information for the safe installation, operation, and maintenance of your protective device. Please read it thoroughly before use.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing or servicing the device.
- Ensure proper wiring according to local electrical codes and the provided diagrams.
- Do not operate the device if it appears damaged.
- This device is designed for indoor use in a dry environment.
- Verify that the device's rated voltage and current match your application requirements.

3. PRODUCT OVERVIEW

The EAPDX-40/63 protective device features a clear digital display for voltage and current, along with intuitive buttons for setting parameters. The device is designed for easy mounting on a standard Din Rail.

EAPDX-40 EAPDX-63 EAPDX-40-RG EAPDX-63-RG

Function Setting

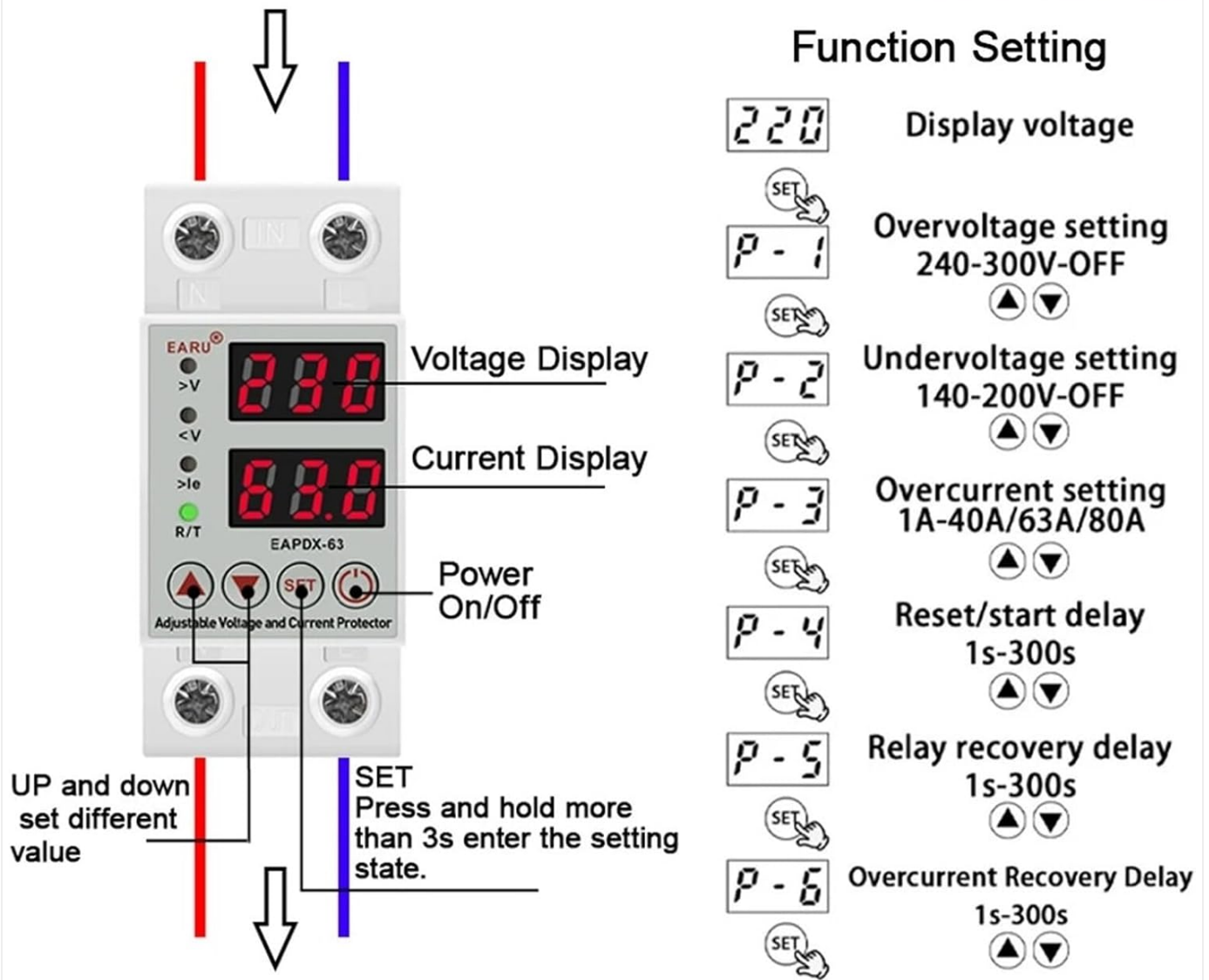


Figure 3.1: Front panel and function setting overview of the EAPDX-40/63 device. It shows the Voltage Display, Current Display, Power On/Off button, and UP/DOWN/SET buttons for parameter adjustment. The diagram also illustrates input (IN) and output (OUT) terminals.

Key Features:

- **Under Voltage Protection:** Adjustable from 140V to 200V.
- **Over Voltage Protection:** Adjustable from 240V to 300V.
- **Over Current Protection:** Adjustable from 1A to 40A (for 40A model) or 1A to 63A (for 63A model).
- **Reconnect Time (Delay On Time):** Adjustable from 1s to 300s.
- **Voltage Meter:** Real-time display of circuit voltage.
- **Ammeter:** Real-time display of circuit current.
- **Relay Recovery Delay:** Adjustable from 1s to 300s.
- **Overcurrent Recovery Delay:** Adjustable from 1s to 300s.

4. SPECIFICATIONS



Technical parameter

Setting range

Overvoltage trip value

240~300V

Undervoltage trip value

140~200V

Overcurrent trip value

1~63A

Reset/start delay

1s~300s

Relay recovery delay

1s~300s

Overcurrent Recovery Delay

1s~300s

Figure 4.1: Technical parameters and setting ranges.

Parameter	Value/Range
Rated Voltage	220V AC
Frequency	50Hz/60Hz
Overvoltage Trip Value	240V - 300V (Adjustable)
Undervoltage Trip Value	140V - 200V (Adjustable)
Overcurrent Trip Value	1A - 40A / 1A - 63A (Adjustable, depending on model)
Reset/Start Delay	1s - 300s (Adjustable)

Parameter	Value/Range
Relay Recovery Delay	1s - 300s (Adjustable)
Overcurrent Recovery Delay	1s - 300s (Adjustable)
Voltage/Current Error	±5%
Installation	Din Rail Mount
Model Number	EAPDX-40/63

5. SETUP AND INSTALLATION

The EAPDX-40/63 device is designed for installation on a standard 35mm Din Rail within an electrical enclosure.

Installation Steps:

- Power Disconnection:** Before starting, ensure that the main power supply to the circuit where the device will be installed is completely disconnected and locked out.
- Mounting:** Clip the device onto a standard 35mm Din Rail. Ensure it is securely fastened.
- Wiring:**
 - Connect the incoming live (L) and neutral (N) wires to the "IN" terminals at the top of the device.
 - Connect the outgoing live (L) and neutral (N) wires to the "OUT" terminals at the bottom of the device, leading to the protected load.
 - Ensure all connections are tight and secure to prevent loose contacts and overheating.
- Initial Power-Up:** After verifying all connections, restore power to the circuit. The device's display should illuminate, showing the current voltage and current readings.



Figure 5.1: Example of EAPDX-40/63 devices installed on a Din Rail, illustrating the input (IN) and output (OUT) terminals.

6. OPERATING INSTRUCTIONS AND FUNCTION SETTINGS

The device displays real-time voltage and current. To access and modify protection parameters, use the **SET**, **UP (▲)**, and **DOWN (▼)** buttons.

Entering Setting Mode:

- Press and hold the **SET** button for more than 3 seconds to enter the setting state. The display will show "P-1" (Overvoltage Setting).

Adjusting Parameters:

1. Once in setting mode, use the **UP (▲)** and **DOWN (▼)** buttons to navigate through the different parameter settings (P-1 to P-6).
2. Press the **SET** button briefly to select a parameter for adjustment. The current value will flash.
3. Use the **UP (▲)** and **DOWN (▼)** buttons to change the value.
4. Press **SET** again to confirm the new value and move to the next parameter, or wait a few seconds for the device to automatically save and exit setting mode.

Parameter List:

- **P-1: Overvoltage Setting (240V-300V)** - Set the upper voltage limit. If the voltage exceeds this, the device will trip. "OFF" disables this protection.

- **P-2: Undervoltage Setting (140V-200V)** - Set the lower voltage limit. If the voltage drops below this, the device will trip. "OFF" disables this protection.
- **P-3: Overcurrent Setting (1A-40A/63A)** - Set the maximum current limit. If the current exceeds this, the device will trip. "OFF" disables this protection.
- **P-4: Reset/Start Delay (1s-300s)** - Time delay before the device reconnects after a voltage fault (over/under voltage).
- **P-5: Relay Recovery Delay (1s-300s)** - Time delay for the relay to recover after a trip.
- **P-6: Overcurrent Recovery Delay (1s-300s)** - Time delay before the device reconnects after an overcurrent fault.

To exit the setting mode without saving changes, simply do not press any button for several seconds, and the device will revert to normal operation.

7. MAINTENANCE

The EAPDX-40/63 protective device requires minimal maintenance. Regular inspection can help ensure its continued reliable operation.

- **Periodic Inspection:** Visually inspect the device and its wiring connections periodically for any signs of damage, loose connections, or discoloration.
- **Cleaning:** If necessary, gently clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure power is disconnected before cleaning.
- **Function Test:** Periodically test the protection functions by simulating fault conditions (if safely possible and recommended by a qualified electrician) to ensure the device trips as expected.

8. TROUBLESHOOTING

If you encounter issues with your EAPDX-40/63 protective device, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring; device fault.	Check main power supply. Verify wiring connections. If power is present and wiring is correct, the device may be faulty.
Device trips frequently.	Actual over/under voltage or over current condition; sensitive settings.	Check the connected load and power supply for actual faults. Review and adjust the over/under voltage and over current settings (P-1, P-2, P-3) to appropriate levels for your application.
Device does not trip during fault.	Protection settings are "OFF" or set too high/low; device fault.	Verify that protection settings (P-1, P-2, P-3) are enabled and set to appropriate values. If settings are correct, the device may be faulty.
Display shows incorrect readings.	Wiring issue; device fault.	Check wiring connections for proper contact. Note that there is a $\pm 5\%$ error margin. If readings are significantly off, the device may be faulty.
Cannot enter setting mode.	SET button not held long enough; button malfunction.	Ensure the SET button is pressed and held for at least 3 seconds. If the issue persists, the button may be faulty.

If the problem persists after attempting these solutions, please contact customer support.

9. WARRANTY AND SUPPORT

Specific warranty details for the NUZEZCJG EAPDX-40/63 protective device are typically provided at the point of purchase or within the product packaging. Please refer to your purchase documentation for warranty terms and conditions.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact your retailer or the manufacturer directly. Contact information can usually be found on the product packaging or the seller's website.

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