

JFUDJKLI EAPDX-63V AE

JFUDJKLI EAPDX-63V AE 230V 3IN1 Protection Device User Manual

Model: EAPDX-63V AE

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the JFUDJKLI EAPDX-63V AE 230V 3IN1 Adjustable Overvoltage, Current, and Undervoltage Protection Device. This device is designed to protect electrical circuits and equipment from damage caused by voltage fluctuations and excessive current. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. SAFETY INFORMATION

WARNING: Electrical installation and maintenance should only be performed by qualified personnel. Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before installing, wiring, or servicing the device.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the device if it appears damaged.
- Keep the device away from moisture and extreme temperatures.
- Verify the rated voltage and current of your electrical system match the device's specifications.

3. PRODUCT OVERVIEW

The JFUDJKLI EAPDX-63V AE is a versatile 3-in-1 protection device designed for Din Rail mounting. It integrates overvoltage, undervoltage, and overcurrent protection functions into a single unit. The device features a digital display for real-time voltage and current readings, as well as adjustable settings for protection thresholds and reconnection time. It is suitable for protecting various electrical appliances and systems operating at 220V AC.



Figure 1: JFUDJKLI EAPDX-63V AE Protection Device. This image displays the JFUDJKLI EAPDX-63V AE protection device. It features a compact white housing

designed for Din Rail mounting, with visible terminals for electrical connections and a display area (though not clearly visible in this specific angle) for settings and readings.

4. SETUP & INSTALLATION

4.1 Din Rail Mounting

The device is designed for standard 35mm Din Rail installation. To mount, align the device's mounting clip with the Din Rail and press firmly until it clicks into place. Ensure it is securely fastened.

4.2 Wiring Connections

Refer to the wiring diagram provided on the device or in the packaging for specific connection points. Generally, connect the incoming AC 220V power supply to the designated input terminals (L and N) and connect the load to the output terminals. Ensure proper polarity and secure all wire connections using appropriate tools.

- **Input:** Connect the main power supply (Live and Neutral).
- **Output:** Connect the protected load (Live and Neutral).
- Use appropriate wire gauges for the rated current.

4.3 Initial Power-Up

After completing all wiring, restore power to the circuit. The device's display should illuminate, indicating it is operational. The display will typically show the current voltage or current readings.

5. OPERATING INSTRUCTIONS

5.1 Display and Buttons

The device features a digital display and control buttons (usually UP, DOWN, and SET/OK) for configuration. The display cycles through various parameters such as real-time voltage, current, and protection status.

5.2 Adjusting Protection Parameters

To enter the setting mode, press and hold the SET/OK button for a few seconds. Use the UP and DOWN buttons to navigate through the parameters and adjust their values. Press SET/OK again to confirm a setting and move to the next, or to exit the setting mode.

Adjustable Parameters

Parameter	Adjustable Range	Description
Undervoltage Protection (UVP)	80V - 210V	Sets the minimum voltage threshold. If voltage drops below this, the device will trip.
Overvoltage Protection (OVP)	230V - 300V	Sets the maximum voltage threshold. If voltage exceeds this, the device will trip.
Overcurrent Protection (OCP)	1A - 63A	Sets the maximum current threshold. If current exceeds this, the device will trip.
Reconnection Time (RT)	1s - 600s	Sets the delay before the device automatically reconnects power after a protection event.

Note: Default settings are typically pre-configured. Adjust these values according to your specific application requirements and local electrical standards.

6. MAINTENANCE

The JFUDJKLI EAPDX-63V AE device requires minimal maintenance. Regular checks can help ensure its continued reliable operation.

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connection Checks:** Annually, or as needed, verify that all wiring connections are tight and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your protection device, refer to the following common problems and solutions:

Troubleshooting Guide

Problem	Possible Cause	Solution
Device does not power on.	No power supply; incorrect wiring; device fault.	Check power source. Verify wiring connections. If problem persists, contact support.
Device trips frequently.	Voltage/current outside set limits; sensitive settings.	Check actual voltage/current. Adjust OVP/UVP/OCp settings if necessary, ensuring they are appropriate for your system.
Device does not reconnect after tripping.	Fault condition still present; reconnection time too long.	Verify the fault condition has cleared. Check Reconnection Time (RT) setting. Manual reset may be required if automatic reconnection fails.
Display shows error code.	Internal fault or specific protection event.	Refer to the device's specific error code list (if available) or contact technical support with the error code.

8. SPECIFICATIONS

Technical Specifications

Parameter	Value
Rated Voltage	220V AC
Working Voltage Range	80V - 400V AC
Working Frequency	50/60Hz
Undervoltage Protection Range	80V - 210V (Adjustable)
Overvoltage Protection Range	230V - 300V (Adjustable)

Parameter	Value
Overcurrent Protection Range	1A - 63A (Adjustable)
Reconnection Time	1s - 600s (Adjustable)
Tolerance Range	±2%
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces
Mounting Type	Din Rail

9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: JFUDJKLI

