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## Eaton CHPSURGE

# Eaton CHPSURGE Plug-On Neutral Surge Protective Device

## INSTRUCTION MANUAL

### 1. Introduction

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This manual provides essential information for the safe and effective installation, operation, and maintenance of the Eaton CHPSURGE Plug-On Neutral Surge Protective Device (SPD). This Type 2 SPD is designed to protect your home's electrical system and connected equipment from damaging power surges. Please read this manual thoroughly before installation or use.

### 2. Safety Information

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**WARNING:** Risk of electric shock. Installation and servicing of this device must be performed by qualified electrical personnel only. Failure to follow these instructions may result in serious injury or death.

- Always disconnect power at the main service panel before installing or servicing the surge protective device.
- Verify that the power is off using a voltage tester before proceeding.
- Ensure all local and national electrical codes are followed during installation.
- Do not install this device in a wet or damp location.

### 3. Product Overview

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The Eaton CHPSURGE is a 2-pole, plug-on neutral surge protective device designed for use in Eaton CH series load centers. It provides whole-home surge protection by diverting harmful transient voltages away from sensitive electronics. The device features a green LED indicator to confirm operational status.



Image 1: Front view of the Eaton CHPSURGE device. This image shows the compact, black housing of the surge protective device, with the Eaton logo and 'SURGE PROTECTOR' label visible. A green indicator light is present, labeled 'PROTECTED WHEN LIT', signifying operational status. The model number 'CHPSURGE' is also clearly displayed.



Image 2: Eaton CHPSURGE device alongside its retail packaging. The packaging displays the Eaton logo, 'CHPSURGE', 'QTY. 1', and 'SURGE-PROTECTIVE DEVICE TYPE 2', along with voltage ratings '120 / 240 V~' and '2 POLE'. A barcode with the number 786689353674 is also visible.

## 4. Setup (Installation)

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The Eaton CHPSURGE is a permanently connected device designed for installation within a compatible Eaton CH series load center. It is installed on the load side of the service entrance overcurrent protective device.

1. **Power Disconnection:** Locate your main electrical panel and turn off the main breaker to completely de-energize the panel. Verify power is off using a voltage tester.
2. **Panel Access:** Carefully remove the cover of your electrical panel.
3. **Device Placement:** Identify two adjacent available spaces in your Eaton CH series load center. The CHPSURGE device is a 2-pole breaker form factor.
4. **Installation:** Insert the CHPSURGE device into the two available breaker slots. Ensure it is firmly seated on the bus bar. The plug-on neutral feature simplifies connection to the neutral bus.

5. **Wiring:** Connect the neutral wire from the surge protective device to the neutral bus bar in the panel. Connect the ground wire to the ground bus bar. Ensure all connections are tight and secure.
6. **Panel Closure:** Replace the electrical panel cover, ensuring all wires are clear of the cover and screws.
7. **Power Restoration:** Turn the main breaker back on. The green LED indicator on the CHPSURGE device should illuminate, indicating it is operational and providing protection.

## 5. Operating

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Once properly installed and power is restored, the Eaton CHPSURGE device operates continuously to protect your electrical system. The green LED indicator on the front of the device signifies that the surge protection is active and functioning correctly. The device automatically detects and diverts harmful voltage surges, protecting your home's electrical circuits and connected appliances.

## 6. Maintenance

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The Eaton CHPSURGE device requires minimal maintenance. Periodically check the green LED indicator on the front of the device. As long as the LED is illuminated, the device is providing surge protection.

- **LED Indicator Check:** Visually inspect the device's LED indicator at least once a month.
- **Device Replacement:** If the green LED indicator is off, it signifies that the device has absorbed a significant surge event and is no longer providing protection. The device must be replaced immediately to restore surge protection.

## 7. Troubleshooting

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Problem	Possible Cause	Solution
Green LED indicator is off.	The device has absorbed a surge and is no longer functional.	Replace the Eaton CHPSURGE device with a new one.
No power to the panel after installation.	Main breaker is off or tripped.	Ensure the main breaker in your electrical panel is in the 'ON' position. If it tripped, reset it.
Device does not fit in panel.	Incorrect panel type.	This device is designed for Eaton CH series panels only. Verify your panel type. Do not attempt to force installation into incompatible panels.

## 8. Specifications

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- **Product Type:** Type CH Circuit Breaker Surge Protective Device
- **Poles:** Two Pole
- **Connection Type:** Plug-On Neutral
- **Surge Protection Type:** Type 2 SPD
- **Short Circuit Rating:** 10 kA
- **Interrupt Rating:** 10 kAIC
- **Frequency Rating:** 50/60 Hz
- **Surge Current:** 18 kA
- **Maximum Continuous Operating Voltage (MCOV):** 150 V L-N, 300 V L-L
- **Voltage:** 240 Volts
- **Certifications:** UL 1449 3rd Edition Listed

- **Product Dimensions:** Approximately 7 x 4 x 0.01 inches
- **Item Weight:** Approximately 7 ounces

## 9. Warranty and Support

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Eaton products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, terms, and conditions, please refer to the documentation included with your purchase or visit the official Eaton website. For technical assistance, troubleshooting beyond the scope of this manual, or to inquire about replacement parts, please contact Eaton customer support. Have your product model number (CHPSURGE) and purchase information ready when contacting support.

**Eaton Official Website:** [www.eaton.com](http://www.eaton.com)