

# Type 2 surge protective modules



Type 2 surge products are permanently connected devices that are installed on the load side of the service entrance overcurrent protective device, including surge protective devices (SPDs) located at the branch panel. These devices can be used as replacements for what were previously known as secondary surge arresters. Eaton's Type 2 surge protective modules are NEC® 230.67 compliant as well as UL® 1449 and cUL® listed. They are tested to the highest industry standards for ultimate safety.

## Applications

- Loadcenters/electrical panels
- Residential service entrances

## Features

- Clear, visible LED indication displays protective status of device
- Can be applied universally to any manufacturer's equipment
- Plug-on neutral (PON) and legacy designs for new and retrofit applications
- Adhere to the 2020 National Electrical Code® (NEC) change mandating the use of an SPD to provide overvoltage protection for all dwelling unit services (refer to NEC 230.67 for additional information)

## Benefits

- Protects single- and split-phase configurations
- Eliminates the potential for incorrect installation of externally mounted surge devices (longer "lead" lengths can reduce protection levels)
- Provides superior protection for sensitive electronics with low-voltage protection rating values
- Offers a 1-year product warranty



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## Product selection

All products below have an input power frequency of 50/60 Hz.

| Catalog number <sup>1</sup> | Voltage | Phase              | MCOV <sup>2</sup> | VPR <sup>3</sup> | I <sub>n</sub> <sup>4</sup> | SCCR <sup>5</sup> | Surge current capacity, per phase rating <sup>6</sup> |
|-----------------------------|---------|--------------------|-------------------|------------------|-----------------------------|-------------------|---|
| <b>BRPSURGE</b>             | 120/240 | Single split-phase | L-L 300, L-N 150  | 500 V            | 3 kA                        | 10 kA             | 18 kA   |
| <b>BRNSURGE</b>             | 120/240 | Single split-phase | L-L 300, L-N 150  | 600 V            | 3 kA                        | 10 kA             | 18 kA   |
| <b>CHPSURGE</b>             | 120/240 | Single split-phase | L-L 300, L-N 150  | 500 V            | 3 kA                        | 10 kA             | 18 kA   |
| <b>CHNSURGE</b>             | 120/240 | Single split-phase | L-L 300, L-N 150  | 600 V            | 3 kA                        | 10 kA             | 18 kA   |
| <b>CLNSURGE</b>             | 120/240 | Single split-phase | L-L 300, L-N 150  | 600 V            | 3 kA                        | 10 kA             | 18 kA   |

<sup>1</sup> Captured blister packaging available with CS modification code on the end of catalog number.

<sup>2</sup> MCOV: maximum continuous operating voltage that may be applied to the device per mode.

<sup>3</sup> VPR: voltage protection rating is the measured limiting voltage after a surge event.

<sup>4</sup> I<sub>n</sub>: nominal discharge current is the current that the device can withstand for 15 impulses.

<sup>5</sup> SCCR: short-circuit current rating is the amount of current the product can withstand under short-circuit conditions.

<sup>6</sup> Surge current capacity: the maximum amount of surge current the device can shunt to ground during a surge event on one phase.

## Surge module cross reference

| Legacy catalog number | Pigtail catalog number | PON catalog number |
|-----------------------|------------------------|--------------------|
| BRSURGE               | BRNSURGE               | BRPSURGE           |
| CHSA                  | CHNSURGE               | CHPSURGE           |
| CLSURGE               | CLNSURGE               | Pigtail only       |
| CHQSA                 | Unchanged pigtail only | Pigtail only       |
| CH230SUR              | CHN230SUR              | Pigtail only       |
| CH250SUR              | CHN250SUR              | Pigtail only       |
| BR230SUR              | Unchanged              | Pigtail only       |
| BR250SUR              | Unchanged              | Pigtail only       |

For more information, please contact your local Eaton sales representative or visit [Eaton.com/residential](http://Eaton.com/residential)

**Eaton**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
Eaton.com

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