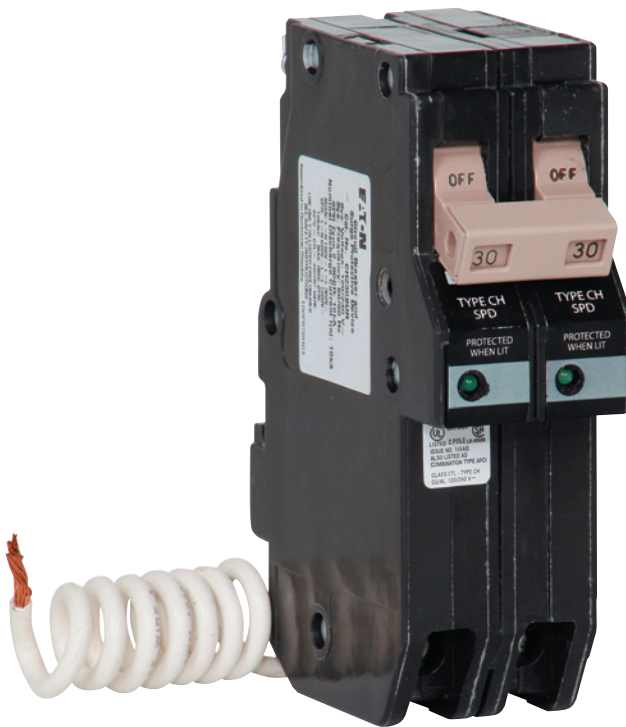


# CH Surge Breaker



The CH surge breaker is designed to provide complete home surge protection for sensitive electronics and appliances from the damaging effects of surges. In addition to surge protection, the CH surge breaker is a functional 2-pole thermal magnetic breaker providing protection for overloads and short circuits.

The combination of circuit protection and surge protection provides flexibility and space savings in the loadcenter.

#### Features & Benefits:

- Complete home surge protection for all circuits plus a functional 2-pole thermal magnetic breaker
- Direct connection to the busbar provides superior protection and easy installation for new construction or renovation
- Meets both UL 489 as well as UL 1449 3rd Edition for Surge protection
- LEDs provide protection status
- Exclusive "Trip to OFF" and simple 1-Step Breaker Reset feature eliminates the need to turn the breaker off before turning to the ON position
- Eliminates the potential for incorrect installation of externally mounted surge devices - (longer "lead" lengths can reduce protection levels)
- Available in 30 and 50 amp versions
- 36kA surge current capacity rating
- 5-year limited product warranty and \$25,000 home connected equipment warranty



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## CH Surge Breaker Ratings and Definitions

### Ratings:

- Voltage: 120/240
- Single-Phase
- Hz: 50/60
- MCOV: L-N 150 V, L-L 300 V
- VPR: L-N 600 V, L-L 1000 V
- $I_n$ : 10k
- SCCR: 10k
- Surge Current Capacity Per Phase: 36 kA (L1- N 36 kA, L2- N 36 kA)

### Definitions:

- MCOV: Maximum Continuous Operating Voltage that may be applied to the device per mode
- VPR: Voltage Protection Rating is the measured limiting voltage after a surge event
- $I_n$ : Nominal; Discharge Current is the current that the device can withstand for 15 impulses
- SCCR: The amount of current the product can withstand under short-circuit conditions
- Surge Current Capacity: The maximum one time surge current rating per phase

## Catalog Reference Chart

### CH Surge Breakers

Poles	Ampere Rating	Configuration	Catalog Number
Double-Pole 10kAIC	30A	Circuit Breaker and Surge Protective Device	<b>CH230SUR<sup>Ⓢ</sup></b>
Double-Pole 10kAIC	50A	Circuit Breaker and Surge Protective Device	<b>CH250SUR<sup>Ⓢ</sup></b>

Ⓢ Clamshell packaging available with CS modification code on the end of catalog number

**Note:** Please reference catalog CA08100002E, for the complete line of surge products.



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