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
- Direct connection to distribution bus reduces impedance to metal oxide varistors (MOVs)
- 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 [1]	Voltage	Phase	MCOV [2]	VPR [3]	I_n [4]	SCCR [5]	Surge current capacity, per phase rating [6]
BRPSURGE	120/240	Single split-phase	L-L 300, L-N 150	500 V	3 kA	10 kA	18 kA
BRNSURGE	120/240	Single split-phase	L-L 300, L-N 150	600 V	3 kA	10 kA	18 kA
CHPSURGE	120/240	Single split-phase	L-L 300, L-N 150	500 V	3 kA	10 kA	18 kA
CHNSURGE	120/240	Single split-phase	L-L 300, L-N 150	600 V	3 kA	10 kA	18 kA
CLNSURGE	120/240	Single split-phase	L-L 300, L-N 150	600 V	3 kA	10 kA	18 kA

[1] Captured blister packaging available with CS modification code on the end of catalog number.

[2] MCOV: maximum continuous operating voltage that may be applied to the device per mode.

[3] VPR: voltage protection rating is the measured limiting voltage after a surge event.

[4] I_n: nominal discharge current is the current that the device can withstand for 15 impulses.

[5] SCCR: short-circuit current rating is the amount of current the product can withstand under short-circuit conditions.

[6] 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

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