

Eaton surge-integrated loadcenters

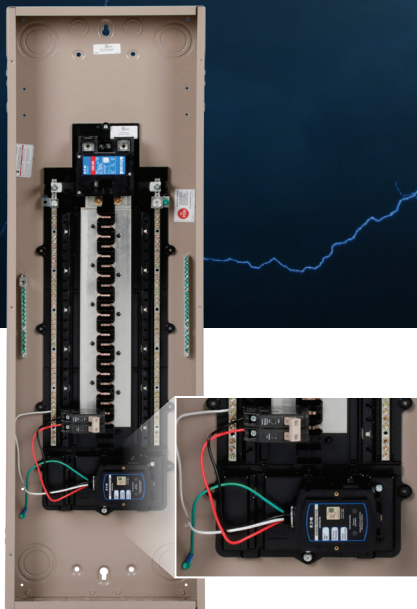
Protect what matters most against damaging power surges



EATON

Powering Business Worldwide

Redirect unwelcome home surges



Today's homeowners face escalating risks from ever-increasing surge events. Sparked by indirect lightning, faulty wiring, utility grid switching and other common sources, surges travel on current-carrying conductors that can damage and destroy sensitive electronic loads. The evolution of electronics and microprocessors within the home has amplified the need to provide continuous, clean power to electronic loads such as appliances, computers and entertainment systems.



Homeowners can safeguard against costly repairs and damages with Eaton CH surge-integrated loadcenters. Providing convenient whole-home protection, the fully integrated loadcenters shield sensitive electronics and appliances against detrimental surges by diverting excess voltage.

Eaton's CH surge-integrated loadcenters feature a factory mounted and wired whole home surge protector integrated into the panel's distribution section. Compliant with NEC® 2023, the device provides 20 kA nominal discharge current/108 kA peak surge capacity per phase.



Protection included: Eaton CH surge-integrated loadcenter

Robust

- Fully integrated surge suppressor safeguards sensitive appliances and equipment
- Delivers 20 kA nominal discharge current/108 kA surge capacity per phase
- Provides compliance with NEC 2023
- Backed by a limited lifetime warranty with up to \$75,000 of equipment coverage

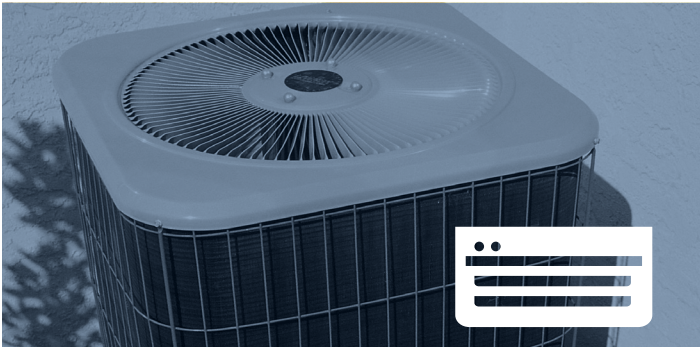
Flexible

- Adaptable installation options include 32-space and 44-space distributions
- Larger 44-space distribution leaves 42 open spaces for circuit wiring
- Both raintight and indoor options available for application in varied environments

Simple

- Reduces installation labor versus externally mounted surge devices
- Provides clean, quick and easy installation
- Includes all applicable mounting hardware

Beyond lightning—multiple sources can cause surges



While nearby storms are a common cause of surges, they aren't the only source. In fact, NEMA® estimates that up to 80% of power surges come from inside the home, triggered by faulty wiring and motors in home appliances that frequently turn on and off, such as air conditioners and refrigerators. Even smaller power surges can cause damage if they happen frequently.

In addition, restoration following a power failure, electrical grid issues, downed power lines, malfunctioning equipment, utility work and accidents can all disrupt the electrical system and invite unwelcome surges.



Up to **80%**
of damaging power surges come from inside the home.



Ground surges are the top lightning related claim, with the national average cost of \$15,280 per claim in 2022, according to the Insurance Information Institute and State Farm®.

(Sources: Be prepared when lightning strikes (statefarm.com) and Facts + Statistics: Lightning | III)

Selection guide for whole-home surge protection

Surge-integrated loadcenters

Main	Amperage	Enclosure type	Surge type A	Spaces	Catalog number	
					Loadcenter	Cover B
Convertible with lugs installed	225	Indoor	Surge ready	32	CHPZ32E225X7	CHPYX7N_
Convertible	225	Raintight	Surge ready	32	CHPZ32N225R	Included
Main breaker	200	Indoor	Surge ready	44	CHPZ44B200X9	CHPYX9N_
Convertible with lugs installed	225	Indoor	Surge ready	44	CHPZ44E225X9	CHPYX9N_
Convertible	225	Raintight	Surge ready	44	CHPZ44N225R	Included
Main breaker	100	Indoor	CHSPT2ULTRA	32	CHPY32B100X7	CHPYX7N_
Convertible with lugs installed	225	Indoor	CHSPT2ULTRA	32	CHPY32E225X7	CHPYX7N_
Main breaker	200	Indoor	CHSPT2ULTRA	44	CHPY44B200X9	CHPYX9N_
Convertible with lugs installed	225	Indoor	CHSPT2ULTRA	44	CHPY44E225X9	CHPYX9N_

A "Surge Ready" loadcenters will need to have a CHSPT2ULTRA or CHSPT2SURGE and connecting breaker ordered separately.

B See table below for cover type descriptions to determine an NF (flush mount) or NS (surface mount) suffix.

Covers

Spaces	Cover type	Cover catalog number
32	Flush mount	CHPYX7NF
32	Surface mount	CHPYX7NS
44	Flush mount	CHPYX9NF
44	Surface mount	CHPYX9NS



Learn more about Eaton's complete family of whole home surge protection at Eaton.com/surgeprotection.



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