

Type CH Loadcenter

Extra 1.5 inch Knockout (38.1 mm)

- Larger knockout provides easier installation and time savings for renovation installations

Top or Bottom Feed

- Straight-in wiring saves labor and material
- One panel for either top or bottom applications

2/0 Lug

- Easily removable and can be installed in any location on the neutral bar

Commercial Grade Main Breaker

- 25 kAIC series rated main breaker in 150 A–225 A loadcenters. 35, 42 and 100 kAIC series ratings are available
- Optional convertible design—reduces inventory requirements

One Piece Silver-Flashed Copper Bus

- Provides superior conductivity, corrosion resistance and durability

Drywall Marking on Enclosure

- Indicates proper mounting depth for flush applications

Steel Backpan

- Provides solid and reliable breaker mounting—single piece design for stability and durability

“Tangential” Center Knockout

- Easier installation for conduit applications

Unique Sandalwood Finish

- Aesthetically appealing, scratch-resistant powder coating

Neutral Bus (Strap)

- Easily removable for sub-panel applications

Bonding Z-Strap

- Provides easy field conversion for service entrance applications

Twin Neutral Bars

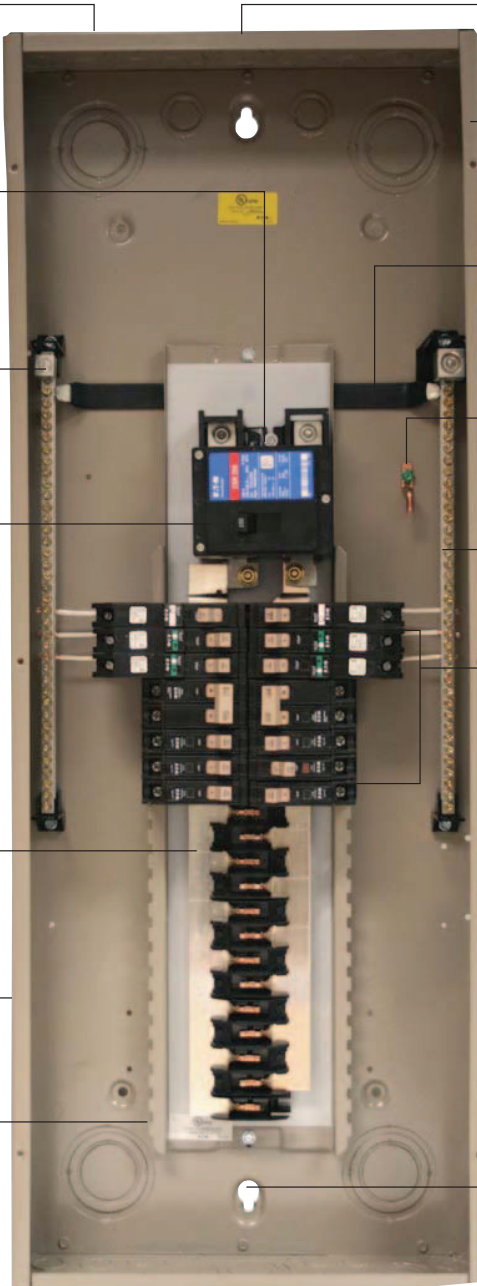
- Minimum 150% neutral capacity

Type CHF AFCI/GFCI/Thermal-Magnetic Breakers

- Advanced electronics effectively reduce nuisance tripping
- CHF AFCI breakers have a standard diagnostic LED indicating 1 of 7 trip codes
- Mechanical flag for trip indication (on thermal-magnetic AFCI and GFCI)
- All CH breakers provide industry exclusive 2-position handle with simple 1 step reset

Single Keyhole Mounting

- One keyhole at the top and bottom provides easier mounting and leveling



Warranty

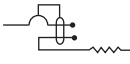
The minimum warranty for residential loadcenters, breakers and surge protection devices shall be as follows:

- Lifetime loadcenter warranty
- Lifetime warranty on CH circuit breakers
- Lifetime warranty on CHSPT2ULTRA including \$75,000 connected equipment warranty
- 1-year warranty on plug-in surge protective device (CHSA)

Product Selection**Type CHQ Replacement Breakers for Square D Type QO Loadcenters****10 kAIC, 120 and 120/240 Vac****CHQ120 CHQ230****Type CHQ Classified Breakers 3/4-Inch (19.1 mm) per Pole
120 or 120/240 Vac, 10 kAIC**

Ampere Rating	Wire Size Range Cu/Al 60 °C or 75 °C	 Single-Pole 120/240 Vac Requires One 3/4-Inch (19.1 mm) Space 10 per Shelf Carton	
		Catalog Number	 Two-Pole 120/240 Vac Common Trip Requires Two 3/4-Inch (19.1 mm) Spaces 5 per Shelf Carton Catalog Number
15	(1) #14–8	CHQ115	CHQ215
20	(2) #14–10	CHQ120	CHQ220
25		CHQ125	CHQ225
30		CHQ130	CHQ230
35		CHQ135	CHQ235
40		CHQ140	CHQ240
45		CHQ145	CHQ245
50		CHQ150	CHQ250
60		—	CHQ260

Type CHQ Ground Fault and Arc Fault Replacement Breakers for Square D Type QO Loadcenters**10 kAIC, 120 and 120/240 Vac****CHQ115GF CHQ220GF****Type CHQ Ground Fault Breakers—5 Milliampere—
3/4-Inch (19.1 mm) per Pole, 10 kAIC**

Ampere Rating	Wire Size Range Cu/Al 60 °C or 75 °C	 Single-Pole 120 Vac Requires One 3/4-Inch (19.1 mm) Space 10 per Shelf Carton	
		Catalog Number	 Two-Pole 120/240 Vac Common Trip Requires Two 3/4-Inch (19.1 mm) Spaces 5 per Shelf Carton Catalog Number
15	(1) #14–8	CHQ115GF	CHQ215GF
20	(2) #14–10	CHQ120GF	CHQ220GF
25		CHQ125GF	CHQ225GF
30		CHQ130GF	CHQ230GF
35		—	CHQ235GF
40		—	CHQ240GF
45		—	CHQ245GF
50		—	CHQ250GF

Type CHQ Surge Arrester**Catalog Number****CHQSA**

Two-Stage Protection



① CHSP installed at the service entrance panel.

② SurgeTrap™ surge traps and strips located where sensitive electronics are plugged in.

Plug-On Surge Protection

• **Type CHSA**—For use on single-phase 120/240 Vac systems. The CHSA easily plugs into a single-phase Type CH loadcenter and occupies two 3/4-inch (19.1 mm) pole spaces, similar to a two-pole Type CH breaker. When installed properly, it provides surge protection for the entire loadcenter. If internal components are damaged, the CHSA LED visual indicators will signal the need for a replacement. This device is suitable for service entry locations when installed in accordance with NEC® guidelines

• **Type BRSURGE**—For use on single-phase 120/240 Vac systems. This easily plugs into a single-phase Type BR loadcenter and occupies two 1-inch (25.4 mm) pole spaces similar to a two-pole Type BR breaker. When installed properly, it provides surge protection for the entire loadcenter. If internal components are damaged, the BRSURGE LED visual indicators will signal the need for replacement. This device is suitable for service entry locations when installed in accordance with NEC guidelines. This unit is also classified by UL for use in select GE, ITE/Siemens and Crouse-Hinds Panels (refer to Pub No. 5655B65H01 for additional details)

- **Type CHQSA**—For use on single-phase, 120/240 Vac systems. This unit easily plugs into a Square D single-phase loadcenter Type QO® and occupies two 3/4-inch (19.1 mm) pole spaces similar to a two-pole Type QO breaker. When installed properly, it provides surge protection for the entire loadcenter. If internal components are damaged, the CHQSA LED visual indicators will signal the need for a replacement. This device is suitable for service entrance locations installed in accordance with NEC guidelines. This device is UL classified to be used in place of Square D Type QO surge arresters (refer to Pub-23974)
- **Type BRSURGECSA**—For use on single-phase 120/240 Vac systems. This easily plugs into a single-phase Type BR loadcenter and occupies two 1-inch (25.4 mm) pole spaces similar to a two-pole Type BR breaker. When installed properly, it provides surge protection for the entire loadcenter. If internal components are damaged, the BRSURGECSA LED visual indicators will signal the need for replacement. This device is suitable for service entry locations when installed in accordance with Canadian Electrical Code. This device is CSA® listed to be used in a Type BR loadcenter

Type 3 Point-of-Use Surge Protection

Point-of-use surge protectors such as surge receptacles are installed within 30 ft of conductor length from the service panel and are designed to offer premium surge protection for specific electronics while providing innovative features to enhance user convenience.

Standards and Certifications

- CHSPT1 Products: UL 1449 3rd Edition Type 1
- CHSPT2 Products: UL/cUL® 1449 3rd Edition Type 2
- CHSPTELE: UL 497A, cUL
- CHSPCABLE: UL 6500, cUL
- NEMA® 3R Enclosure for CHSPTELE and CHSPCABLE: UL 50 Enclosure
- BRSURGE, CHSA, BRSURGECSA, CHQSA: UL 1449 3rd Edition plug-in type; Type 2 SPD



SPD Type 2 Plug-On Surge Protection—UL 1449 3rd Edition

Product Features

- Convenient surge protection for the loadcenter

Catalog Number	Description	Connection	Voltage	Phase	Frequency (Hz)	MCOV ^①	VPR ^②	I _n ^③	SCCR ^④	Surge Current Capacity, Per Phase Rating ^⑤
BRSURGE	UL for use in a single-phase Type BR loadcenter. This unit is classified by UL for use in select GE, ITE/Siemens and Crouse-Hinds panels (refer to Pub. No. 5655B65H01 for additional details).	Plug on to the loadcenter bus; see instructions.	120/240 Vac	Single	60	150 V L1–N, 300 V L–L	600 V L1–N, 1000 V L–L	3 kA	10 kA	18 kA
CHSA	UL and CSA for use in a Type CH loadcenter.	Plug on to the loadcenter bus; see instructions.	120/240 Vac	Single	60	150 V L1–N, 300 V L–L	600 V L1–N, 1000 V L–L	3 kA	10 kA	18 kA
BRSURGECSA	CSA for use in an Eaton Type BR loadcenter.	Plug on to the loadcenter bus; see instructions.	120/240 Vac	Single	60	150 V L1–N, 300 V L–L	600 V L1–N, 1000 V L–L	3 kA	10 kA	18 kA
CHQSA	This device is UL classified to be used in place of Square D Type QO surge arresters (refer to Pub-23974).	Plug on to the loadcenter bus; see instructions.	120/240 Vac	Single	60	150 V L1–N, 300 V L–L	600 V L1–N, 1000 V L–L	3 kA	10 kA	18 kA

Notes

① MCOV: Maximum Continuous Operating Voltage that may be applied to the device per mode.

② VPR: Voltage Protection Rating is the measured limiting voltage after a surge event.

③ I_n: Nominal Discharge Current is the current that the device can withstand for 15 impulses.

④ SCCR: The amount of current the product can withstand under short-circuit conditions.

⑤ Surge Current Capacity: The maximum one-time surge current rating per phase.

For warranty details, go to www.eaton.com/surgetrap.