

Type CH circuit breakers and loadcenters



Powering Business Worldwide

Type CH

Premium residential products

Eaton has enhanced its premium Type CH residential circuit breakers, making the best even better. The Type CHF AFCI breakers also include advanced electronics that reduce nuisance tripping and a standard diagnostic LED indicating one of seven trip codes. These features further establish the CH series of products as “best-in-class.”

CHF series breaker include:

- Mechanical flag for trip indication
- Exclusive “Trip to OFF” and simple 1-Step breaker reset

Typical applications

- Residential loadcenters and meter breaker panels
- Light commercial distribution panels
- Pool panels
- Residential transfer switch panels
- Various OEM applications

CHF circuit breakers

Arc fault and ground fault breakers (AFCI/GFCI)

AFCI diagnostic trip codes

- Thermal trip/manual disconnect—the breaker has detected an overload, short circuit or was manually turned off
- Low current arc—an arc has been detected due to a break in a single conductor
- High current arc—an arc has been detected between two conductors
- Short delay—an electronic backup to the short-circuit mechanism
- Overvoltage—voltage of 160 V rms or greater
- Ground fault—current has found an alternate path to ground
- Self test failure—the breaker continually tests the internal electronics and software to ensure that the arc fault detection technology is working properly



Pigtail breakers



Plug-on neutral breakers

Standard features and benefits

AFCI¹

- Advanced electronics to reduce unwanted tripping from non-compliant devices
- Standard LED indicates one of seven trip codes to simplify circuit diagnostics
- Trip codes are stored permanently into the breaker's memory, to help identify “trip” history
- Branch overvoltage protection for sensitive electronics
- Meets areas requiring AFCI protection under the 2008 and all subsequent editions of the NEC®
- Single-pole breakers 15 A and 20 A

GFCI¹

- Single-pole breakers 15–30 A
- 5 mA protection per UL® 943

Optional plug-on neutral

- Time savings up to 25% per AFCI and GFCI installation
- Improved wireway access
- Easier troubleshooting due to less wiring
- Eliminates unwanted tripping due to loose pigtail connections

Thermal-magnetic breakers



Standard features and benefits¹

- Tri-Drive screw accepts flat, Robertson or Phillips drivers, making it easier for electricians to install
- Space-saving ¾-inch design accommodates more breakers per panel
- Single- and two-pole breakers up to 50 A
- CH non-flag versions available for 60–70 A in single-pole, 60–125 A in two-pole and up to 100 A in three-pole

¹ Please reference catalog CA08100002E for additional ratings and configurations.

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 150–225 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

- Esthetically appealing, scratch-resistant powder coating—an industry exclusive!

Neutral bus (strap)

- Easily removable for sub-panel applications

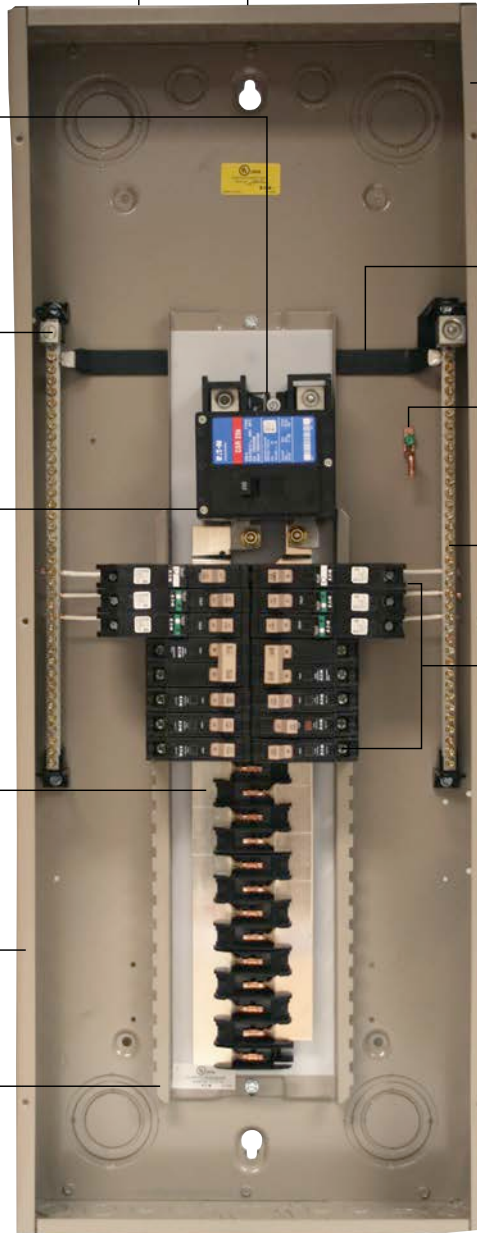
Bonding Z-strap

- Provides easy field conversion for service entrance applications

Twin neutral bars

- Minimum 150% neutral capacity

Type CHF AFCI/GFCI/thermal-magnetic breakers



■ Warranty and ordering information

- Eaton's Type CH loadcenters and circuit breakers offer a **limited lifetime warranty**
- Contact your local Eaton sales representative or visit www.eaton.com/afci
- For additional information, please contact **1-877-ETN-CARE**

At Eaton, we're energized by the challenge of powering a world that demands more. With over 100 years experience in electrical power management, we have the expertise to see beyond today. From ground-breaking products to turnkey design and engineering services, critical industries around the globe count on Eaton.

We power businesses with reliable, efficient and safe electrical power management solutions. Combined with our personal service, support and bold thinking, we are answering tomorrow's needs today. Follow the charge with Eaton. Visit eaton.com/electrical.



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