

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 which reduce nuisance tripping and a standard diagnostic LED indicating 1 of 7 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 160V 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®
- One pole breakers 15A and 20A

GFCI¹

- One pole breakers 15-30A
- 5mA protection per UL943

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 Benefits:¹

- Tri-Drive Screw Accepts Flat, Robertson or Phillips Drivers, making it easier for electricians to install
- Space Saving ¾" Design - Accommodates more breakers per panel
- One and two-pole breakers up to 50A
- CH non flag versions available up to 125A in two-pole and 100A 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 150-225A 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. Industry Exclusive!

Neutral Bus (Strap)

- Easily removable for sub-panel applications

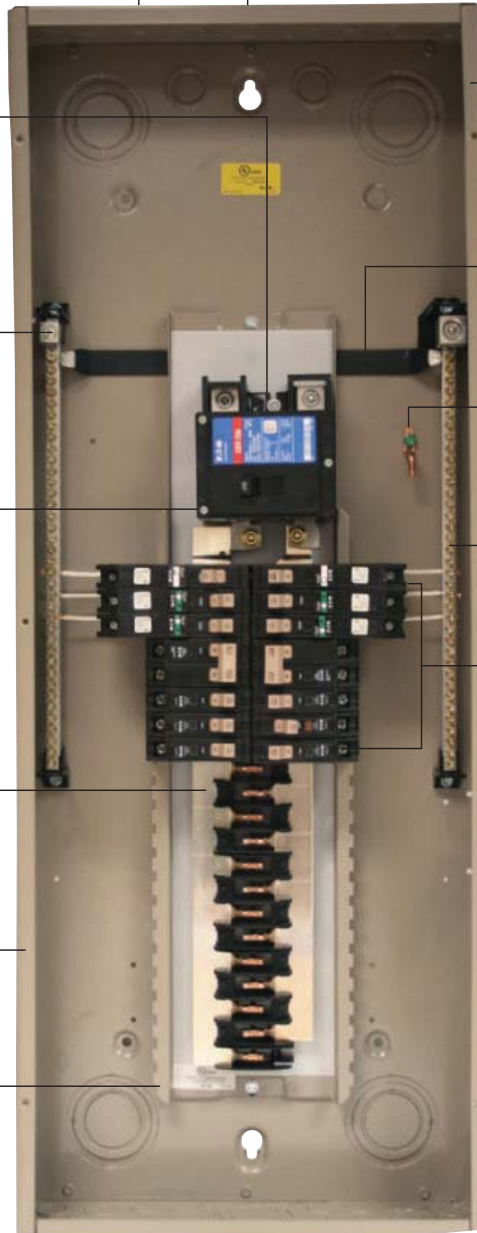
Bonding Z-strap

- 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**