

# T&B Distribution Equipment

## Circuit Breakers – Product Installation Information



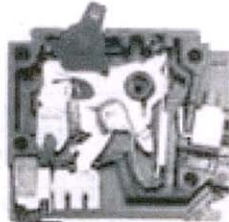
A-115



A-230



TB-115



Cutaway View

### Product Description

Thomas & Betts circuit breakers are molded of a durable thermoset plastic which is not subject to dielectric breakdown after arcing. Operating handles are non-breakable plastic. Cases are color coded to indicate the interrupting capacity of the breaker.

Both Type A, 1/2" per pole, and Type TB, 1" per pole, modules contain thermal-magnetic trip units which provide fast magnetic-trip protection against short circuits and time-delay-trip protection against overloads. The unique side-clip design of Type A 2-pole breakers allows a true common-trip 120/240 volt device that can be installed in a 1" mounting space. Factory calibration after assembly assures consistent performance when installed.

### Operating Mechanisms

Breakers are supplied with quick-make, quick-break trip-free mechanisms, which make it impossible to hold the breaker in the "On" position against a fault or overload. When the handle is in the "Tripped" position, midway between "On" and "Off", it identifies a tripped condition. Reset the breaker simply by moving the handle to the "Off" position, then "On". Factory-assembled two-pole breakers are common trip—one fault trips all. Movable contact wiping action helps keep contact surfaces clean when the breaker is operated mechanically. Arc chutes extinguish arcs on short-circuit interruption and minimize ionized gases, while exhaust vents guide gases harmlessly into the wiring gutter. Each pole is individually tested, calibrated and sealed to retain its setting.

### Ratings

One and two poles, 120, 120/240 and 240 volts AC, 15-60 amperes for branch breakers, 70-225 amperes for mains. Breakers rated 10,000 AIC.

### UL and Federal Specifications

Breakers are listed by Underwriters Laboratories Inc. under UL File #E162469. They meet or exceed the applicable Classes of Federal Specification W-C-375B/Gen, Type I. They are certified by Canadian Standards Association under CSA Standard 22.2 No. 5-1963 for Service Entrance and Branch Circuit Breakers.

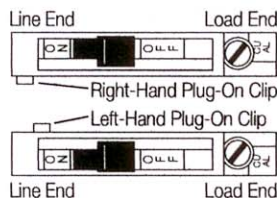
### Features

- All trip units are quick-make, quick-break thermal magnetic.
- Silver-tungsten contacts with wiping action that helps keep contacts clean.
- Unique side-clip design of Type A two-pole breakers gives true common trip in 1" space.
- Self-positioning line-contact clip assures positive alignment of breaker to bus stab.
- Complete family of branch breakers allows even distribution of the load on A-phase and B-phase bus stabs. Box lugs are rated for Copper/Aluminum terminal screws. Allows for fast and easy straight-in wiring.
- Ampere ratings appear on every breaker handle for positive identification.
- Factory-assembled two-pole circuit breakers contain common trip mechanisms. A fault in one pole trips both poles independently of the operating handle.

## Plug-On Circuit Breakers Installation Instructions – Type A Breakers

### 1. Single Pole Breakers Supplied.

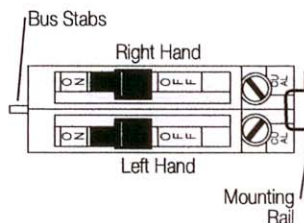
Two single-pole breakers are packed in pairs for convenience. These breakers are alike except for the position of the plug-on clip which connects the breaker to the bus stab in the panel.



Left-Hand and Right-Hand Plug-On Clips

### 2. To Install:

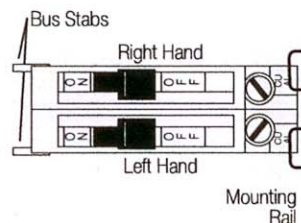
Hook load end of the breaker under the hold-down tab in the panel. Press line end of breaker down so that the plug-in clip slips over the bus stab. Insert breakers by pairs for easier installation.



Bus Stabs and Hold-Down Tabs

### 3. Between Bus Stabs:

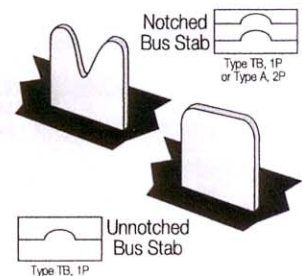
When required, breakers may be installed between bus stabs as shown in the drawing below.



Installation Between Bus Stabs

### Important Note:

These circuit breakers conform to Section 384-15 of the latest National Electrical Code. Install only in panel positions having notched bus stabs.



Bus Stabs

**Thomas & Betts**