

August 25, 2022

TO: Whom it may concern

FROM: Residential Circuit Protection Products

SUBJECT: Use of Duplex and Quad Plug-on Circuit Breakers

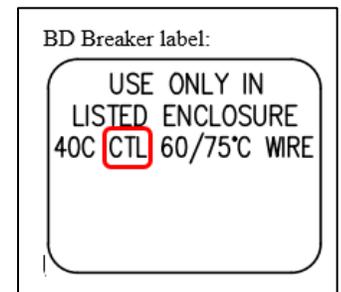
The purpose of this letter is to address the alternate construction of certain Duplex and Quad style Circuit Breakers (such as BD, BR, BQ, BQC, BRDC types) and explain their use and replacement in Eaton Loadcenters.

Historical Requirements:

There was a requirement in the National Electrical Code (NEC®) dated prior to the 2008 edition related to the number of allowable circuits in panelboards. Terminology that was used to identify certain breakers and loadcenters were marked as “CTL” or “Class CTL” on the side of the circuit breaker or inside the loadcenter. CTL stands for Circuit Total Limitation. Eaton’s BD Duplex Breakers, and BQ / BQC Quad breakers were designated as CTL products. In the 2008 NEC and subsequent appropriate product standards (UL 67 Panelboards and UL489 Molded Case Circuit Breakers), the requirements and restrictions for this type of application and products was removed. Products that have been manufactured during the next decade or so have been modified and adapted to current code and standards requirements.

CTL Products and Replacement Products:

“BD” Breakers - BD type are restricted to use with only certain bus bar stabs in the loadcenter. These bus bar stabs were designated on the loadcenter label and would also have a notch in them as required prior to the 2008 NEC, these are referred to as “legacy” Loadcenters. These CTL products (Loadcenters and Breakers) were designated with appropriate labels and an example BD breaker label is shown.



Alternate construction has been approved for “BD, BQ and BQC” style circuit breakers to remove a “clip” on the breaker. It is this label, not the clip, that tells the installer where the breaker may be installed and where it is not allowed.

The 2008 NEC through today’s current code, removed the “CTL” requirements and permits the use of the “BR” style breakers that does not have any restrictions to the location or bus bar stab that it can be installed on in the loadcenter. Today’s BR PON type loadcenter does not have the BD type circuit breaker approved for use in it.

The use of the BR type circuit breaker in place of the BD type circuit breaker is permitted in the current BR PON type panelboards (i.e. loadcenters) and the legacy style BR type loadcenters. The panelboard label provides such supporting information by stating the type of circuit breakers that have been tested and approved for use in that loadcenter. The BR duplex and quad type circuit breakers are approved for such installation in the current and legacy BR loadcenters based upon current codes and standards.

Example: A customer is looking to replace an Eaton BD1515 type circuit breaker. This can be replaced with an Eaton BR1515 type circuit breaker as it has been evaluated and approved for use in the loadcenter and can be confirmed on the label of the loadcenter as it will have the BR type listed along with others that are approved.

Finally, the BR type duplex/quad has a label on the side (i.e. non-CTL, replacement only) that is no longer applicable to NEC codes dated 2008 through today's current code and product standard. As a result of this and as states have adopted recent code editions, the label is in the process of being removed.

Summary of Use Case:

	BR2020 No Clip	BD2020 With Clip
BR Loadcenters manufactured prior to 2008 with Circuit Limiting "CTL" stickers	Used as a replacement for "BD" duplex breakers	Only for use on notched stabs in CTL Panels listed for Type BD breakers
BR Loadcenters manufactured after 2008, with no CTL	Use anywhere in any BR Loadcenter	Only for use on notched stabs in Panels listed for Type BD breakers
BR Plug On Neutral Loadcenters, manufactured after 2018	Use anywhere in any BR Loadcenter	Cannot be installed in BR PON Loadcenters

Product Images:

Please note the following CHANGE in Eaton's manufacturing of our "BD" and "BQ" Series Tandem/Duplex/Quad Breakers

Previous Manufacturing – BD Series



Clip Installed

Note: A "clip" was installed to adhere to NEC Code requiring tandem/duplex/quad breakers for panels with notched bus (Circuit Limiting CLT). This code requirement was designed to prevent installing too many circuits. NEC NO LONGER REQUIRES CIRCUIT LIMITING THEREFORE NO CLIP IS REQUIRED

Current Manufacturing – BD Series



NO Clip Installed

Note: Current manufacturing of our "BD" AND "BQ" Series Tandem/Duplex/Quad Breakers have removed the "clip" from the product. As previously designated, the "BD" series is only listed for us with "CTL" panels. This clip change will not affect the form, fit and function of this product and are still to be used with our legacy CTL Loadcenters.

Sincerely,

Eaton Residential Circuit Protection