

Plug-In Circuit Breakers for CPM/CPL

Type BR, DNPL, GFCB, GFEP, & GFXB

BR Circuit Breakers

Eaton Type BR plug-in breakers in the standard 1-inch per pole moulded case and can be used as main and/or branch disconnect devices. All are CSA and UL listed. Typical ampacity range for BR breakers is 15 through 125 amperes ①.

FIRE-GUARD™ Arc Fault Circuit Interrupter (AFCI)

The FIRE-GUARD Arc Fault Circuit Interrupter (AFCI) is a residential circuit breaker with an integrated processor which recognizes the unique current and/or voltage signatures associated with arcing faults, and acts to interrupt the circuit to reduce the likelihood of an electrical fire. With the Eaton Fire-Guard AFCI, protection from arcing faults is combined with conventional thermal and magnetic overloads as found in standard residential circuit breakers protecting wiring from excessive heat or damage due to

overloading or short circuits. Fire-Guard AFCI can also be equipped with 5 mA ground fault protection to protect from personal shock hazards. Now, there is a residential circuit breaker that provides protection from arcing faults, conductor damage due to thermal overloads and short circuits, as well as 5 mA ground fault protection in one integrated design.

GFCB® People Protection Breakers

Eaton Type GFCB (ground fault circuit breaker) combines state-of-the-art electronic technology with a circuit breaker mechanism in a compact 1-inch per pole moulded case. The GFCB automatically senses hot wire-to-ground faults in a 4 to 6 milliampere range and shuts off the power thus providing an extra margin of safety beyond that of conventional circuit breakers. GFCB applications include bathrooms, basement outlets, swimming pools, outdoor branch circuits and kitchen

branch circuits. Type GFCB breakers are also available in 10mA and 30mA equipment protectors. 10mA GFCB are required for submersible pump, sump pump and well applications ②. 30mA breakers are for equipment requiring a higher interrupting value such as heat tracing.

DNPL Twin Circuit Breakers

DNPL plug-in breakers have the same construction as Eaton Type BR 1-inch per pole devices except that two one pole circuits are provided in a 1-inch space ③. CSA listed interrupting rating is 10,000 AIC. All ratings are CSA and UL listed.

DNPL Quad Circuit Breakers

Quadplex™ construction of Eaton Type DNPL plug-in breakers provides various combinations of two pole and single pole devices in a 2-inch moulded case.

All plug-in breakers are approved for HACR applications ④.

All ratings are CSA & UL listed. CSA certified to C22.2 No. 5, file LR3300.

All loadcentre breakers are GOS listed for conformity.

Handle position On, Off, and Tripped Indication

One-piece moulded case construction.

Hardened cradle for positive action under fault conditions.

Heavy duty mechanism spring for reliable operation.

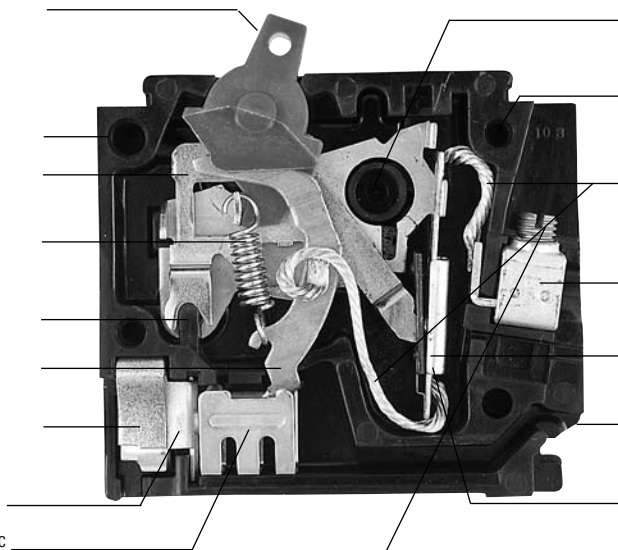
Non-abrasive integrally moulded pivot for quick mechanism response.

One-piece moving contact arm for quick on/off response.

Heavy duty line terminal and spring clip for quick loadcentre installation and cool operation.

Silver tungsten alloy contacts.

Unique one-piece heavy duty DE-ION® arc extinguisher for quick arc interruption.



Exclusive steel frame calibration provides greater calibration integrity than with screw adjustment.

Four rivet construction enhances strength and structural integrity of breaker case.

Heavy duty multi-strand flexible copper shunt provides load terminal torque isolation.

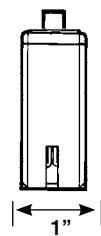
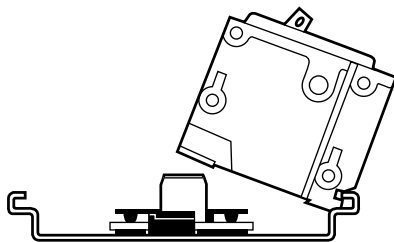
CSA approved terminal assembly for use with copper or aluminum wire, screw is "backed out" for faster insertion of wires.

Magnetic assembly for reliable short circuit protection.

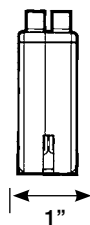
Large gas port for venting short circuit gases safely into loadcentre gutter.

Calibrated one-piece bimetal for reliable thermal trip function.

Robertson/slot load side screw.



Type BR



Type DNPL Duplex

① One pole 15 and 20 ampere units are switching duty (SWD) rated.

② Submersible pump installations require ground fault protection to the maximum sensitivity level of 10 milliampere. These breakers meet Canadian electrical code CEC 26-956.

Plug-In Circuit Breakers for CPM/CPL

Type BR Single and Multi-Pole

Type BR ^③④

- ◆ 10,000 / 22,000 Amperes Interrupting Capacity at 120VAC, 120/240VAC, and 240VAC
- ◆ 2 and 3 pole versions feature a common trip

Product Selection

Table 11. Single and Multi-Pole Plug-In Circuit Breakers

Ampere Rating	Wire Size Range (Cu/AL 60°C or 75°C)	1-Pole 120/240VAC		2-Pole 120/240VAC		3-Pole 120/240VAC	
		10kAIC Catalogue Number	22kAIC Catalogue Number	10kAIC Catalogue Number	22kAIC Catalogue Number	10kAIC Catalogue Number	22kAIC Catalogue Number
15	#14 - 4	BR115 ^① ②	BRH115	BR215	BRH215	BR315	BRH315
20	#14 - 4	BR120 ^① ②	BRH120	BR220	BRH220	BR320	BRH320
25	#14 - 4	BR125 ^①	BRH125	BR225	BRH225	BR325	BRH325
30	#14 - 4	BR130 ^①	BRH130	BR230	BRH230	BR330	BRH330
35	#14 - 4	BR135 ^①	BRH135	BR235	BRH235	BR335	BRH335
40	#14 - 4	BR140 ^①	BRH140	BR240	BRH240	BR340	BRH340
45	#14 - 4	—	BRH145	BR245	BRH245	BR345	BRH345
50	#14 - 4	BR150 ^①	BRH150	BR250	BRH250	BR350	BRH350
60	#4 - 1/0	—	BRH160	BR260	BRH260	BR360	BRH360
70	#4 - 1/0	—	BRH170	BR270	BRH270	BR370	BRH370
80	#4 - 1/0	—	—	BR280	BRH280	BR380	BRH380
90	#4 - 1/0	—	—	BR290	BRH290	BR390	BRH390
100	#4 - 1/0	—	—	BR2100	BRH2100	BR3100	BRH3100
110	#4 - 1/0	—	—	—	—	—	—
125	#4 - 2/0 ^⑤	—	—	BR2125 ^⑤	—	⑤	—
150	⑤	—	—	⑤	—	⑤	—
175	⑤	—	—	⑤	—	⑤	—
200	⑤	—	—	⑤	—	⑤	—

Requires One 1-Inch (25.4mm) Space

Requires Two 1-Inch (25.4mm) Spaces

Requires Three 1-Inch (25.4mm) Spaces



BR120



BR215



BR320

① Available with high magnetic setting for switching large tungsten lamp loads. Add suffix **H** to catalogue number (e.g. BR115H).

② Switching duty rated.

③ All Type BR 1, 2, and 3-pole circuit breakers carry listing for HACR application.

④ Breaker shunt trips are available but only in 120VAC format. Addition of a shunt trip adds a 1" space width. For circuit breakers requiring a shunt trip add an **ST** suffix to the end of the catalogue number (e.g. BR115ST).

⑤ For subfeed applications in 200 or 400A loadcentres requiring a 125, 150, 175, or 200A subfeed circuit breaker a Type BJ circuit breaker can be used. Refer to page 62 for product space requirements and selection.