

## Plug-in circuit breakers for CPM/CPL

### Type BR, DNPL, GFCB, GFEP, and 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 A. <sup>a</sup>

#### FIRE-GUARDE 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.

#### GFTCB 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 mA 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. Self testing compliant to new codes. Type GFCB breakers are also available in 30 mA equipment protectors. 30 mA breakers are for equipment requiring a higher interrupting value such as heat tracing.

#### DNPL twin circuit breakers

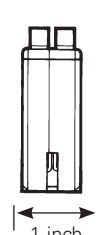
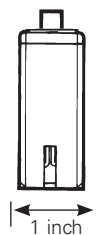
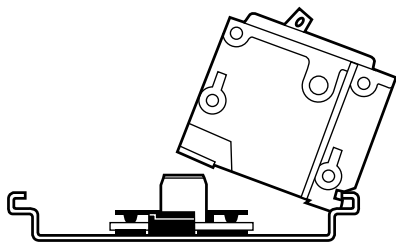
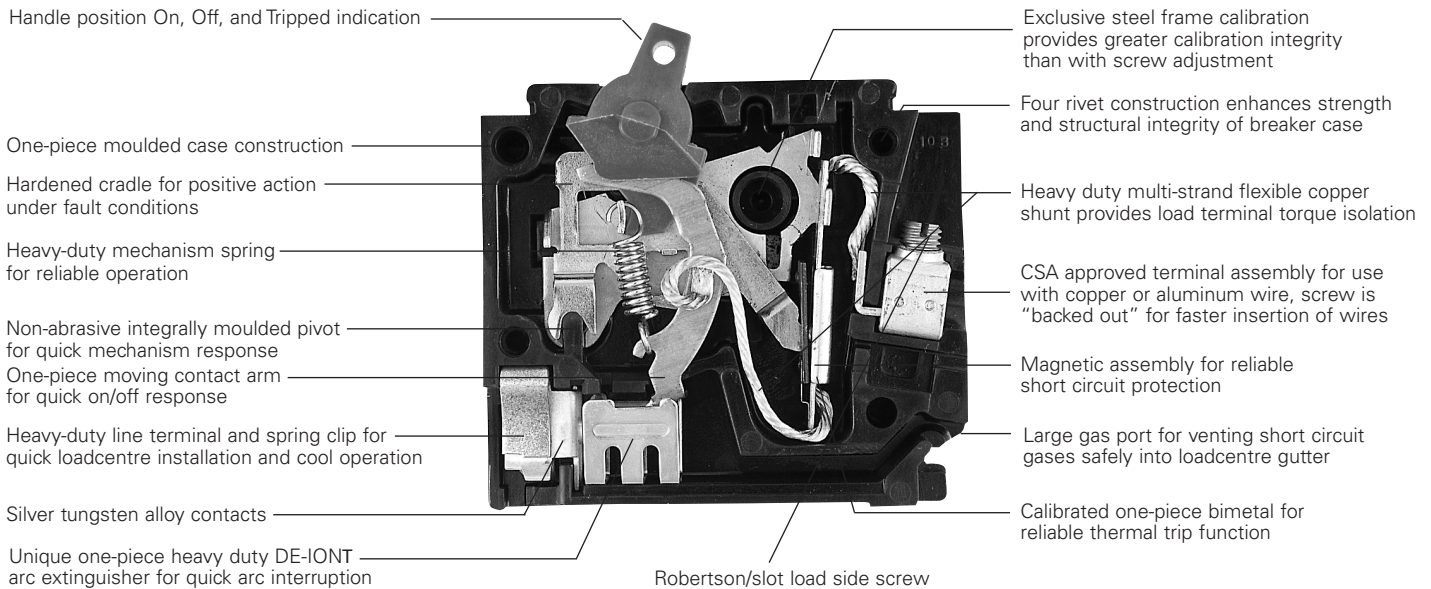
DNPL plug-in breakers have the same construction as Eaton Type BR 1-inch per pole devices except that two single-pole circuits are provided in a 1-inch space. <sup>a</sup> CSA listed interrupting rating is 10,000 AIC. All ratings are CSA and UL listed.

#### DNPL quad circuit breakers

QuadplexE 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. <sup>a</sup>

- All ratings are CSA and UL listed
- CSA certified to C22.2 No. 5, file LR3300
- All loadcentre breakers are GOS listed for conformity

<sup>a</sup> Single-pole 15 and 20 A units are switching duty (SWD) rated.



**Type BR single- and multi-pole**

Type BR <sup>ab</sup>

- 10,000/22,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac
- Two- and three-pole versions feature a common trip



BR120



BR215



BR320

**Table 11. Single- and multi-pole plug-in circuit breakers**

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C)	Catalogue numbers					
		Single-pole, 120/240 Vac 10 per shelf carton		Two-pole, 120/240 Vac 5 per shelf carton		Three-pole, 120/240 Vac 5 per shelf carton	
		10 kAIC	22 kAIC	10 kAIC	22 kAIC	10 kAIC	22 kAIC
15	#14-4	BR115 <sup>cd</sup>	BRH115	BR215	BRH215	BR315	BRH315
20	#14-4	BR120 <sup>cd</sup>	BRH120	BR220	BRH220	BR320	BRH320
25	#14-4	BR125 <sup>c</sup>	BRH125	BR225	BRH225	BR325	BRH325
30	#14-4	BR130 <sup>c</sup>	BRH130	BR230	BRH230	BR330	BRH330
35	#14-4	BR135 <sup>c</sup>	BRH135	BR235	BRH235	BR335	BRH335
40	#14-4	BR140 <sup>c</sup>	BRH140	BR240	BRH240	BR340	BRH340
45	#14-4	—	BRH145	BR245	BRH245	BR345	BRH345
50	#14-4	BR150 <sup>c</sup>	BRH150	BR250	BRH250	BR350	BRH350
60	#8-1/0	BR160 <sup>c</sup>	BRH160	BR260	BRH260	BR360	BRH360
70	#8-1/0	BR170 <sup>c</sup>	BRH170	BR270	BRH270	BR370	BRH370
80	#8-1/0	—	—	BR280	BRH280	BR380	BRH380
90	#8-1/0	—	—	BR290	BRH290	BR390	BRH390
100	#8-1/0	—	—	BR2100	BRH2100	BR3100	BRH3100
110	#8-1/0	—	—	—	—	—	—
125	#4-2/0 <sup>e</sup>	—	—	BR2125 <sup>e</sup>	—	<sup>e</sup>	—
150	<sup>e</sup>	—	—	<sup>e</sup>	—	<sup>e</sup>	—
175	<sup>e</sup>	—	—	<sup>e</sup>	—	<sup>e</sup>	—
200	<sup>e</sup>	—	—	<sup>e</sup>	—	<sup>e</sup>	—
Requires one 1-Inch (25.4 mm) space				Requires two 1-Inch (25.4 mm) spaces		Requires three 1-Inch (25.4 mm) spaces	

<sup>a</sup> All Type BR single-, two-, and three-pole circuit breakers carry listing for HACR application.

<sup>b</sup> Breaker shunt trips are available but only in 120 Vac format. Addition of a shunt trip adds a 1-inch space width. For circuit breakers requiring a shunt trip add an ST suffix to the end of the catalogue number (e.g. BR115ST).

<sup>c</sup> Available with high magnetic setting for switching large tungsten lamp loads. Add suffix H to catalogue number (e.g. BR115H).

<sup>d</sup> Switching duty rated.

<sup>e</sup> For subfeed applications in 200 or 400 A loadcentres requiring a 125, 150, 175, or 200 A subfeed circuit breaker a Type BJ circuit breaker can be used. Refer to **page 64** for product space requirements and selection.

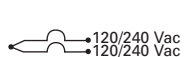
**Type DNPL Duplex™, Independent Quadplex™ and circuit breaker packs**

Type DNPL <sup>ab</sup>

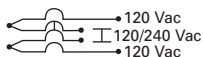
- 10,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac

**Table 12. Duplex and Independent Trip Quadplex plug-in circuit breakers**

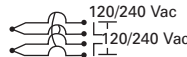
Duplex 2 single-pole circuits 10 per shelf carton		Quadplex independent trip 2 single-pole circuits and 1 two-pole circuit 5 per shelf carton				Quadplex independent trip 2 two-pole circuits 5 per shelf carton			
120 Vac		120 Vac	120/240 Vac	120 Vac	120/240 Vac				
Ampere rating	Catalogue number	Outer left (single-pole) ampere rating	Centre (two-pole) ampere rating	Outer right (single-pole) ampere rating	Catalogue number	Outer left and right (two-pole) ampere rating	Centre (two-pole) ampere rating	Catalogue number	Wire size range (Cu/Al 60 °C or 75 °C)
15-15	DNPL1515	15	15	15	DNPL151515	15	15	DNPL215215	#14-4 AWG
15-20	DNPL1520	15	20	15	DNPL152015	15	20	DNPL215220	#14-4 AWG
15-30	DNPL1530	15	25	15	DNPL152515	15	30	DNPL215230	#14-4 AWG
20-20	DNPL2020	15	30	15	DNPL153015	15	40	DNPL215240	#14-4 AWG
—	—	15	40	15	DNPL154015	20	20	DNPL220220	#14-4 AWG
—	—	15	50	15	DNPL155015	20	30	DNPL220230	#14-4 AWG



Requires one 1.00 inch (25.4 mm) space



Independent trip requires two 1.00 inch (25.4 mm) spaces



Independent trip requires two 1.00 inch (25.4 mm) spaces

a All Type DNPL Duplex and Quadplex circuit breakers carry listing for HACR applications.

b All 15 and 20 A single-pole are switch-duty rated.

**Type BP (circuit breaker packs)**

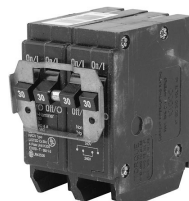
- Single carton packaged
- Represents common household combinations



DNPL2020



DNPL155015



DNPL230230

**Table 13. Plug-in circuit breaker house packs**

Contents	Catalogue number
(3) DNPL151515, (1) DNPL153015, (1) DNPL154015	BP2
(10) BR115, (3) BR215, (1) BR230, (1) BR240	BP4
(2) DNPL1515, (1) DNPL215215, (1) DNPL152015, (1) DNPL153015, (1) DNPL154015	BP16
(6) DNPL1515, (2) DNPL151515, (1) DNPL153015, (1) DNPL154015	BP18
(1) DNPL1515, (3) DNPL151515, (2) DNPL153015, (1) DNPL154015	BP21
(3) DNPL1515, (3) DNPL151515, (1) DNPL153015, (1) DNPL154015	BP23
(16) BR115, (3) BR215, (1) BR230, (1) BR240	BP24
(14) BR115, (2) BR120, (1) BR230, (1) BR240	BP27
5 of DNPL1515, 1 of DNPL2020, 1 of DNPL153015, 1 of DNPL154015	BP31
(1) BR120, (4) DNPL1515, (1) DNPL151515, (1) DNPL153015, (1) DNPL154015	BP32
(10) BR115, (2) BR120, (1) BR215, (1) BR220, (1) BR230, (1) BR240	BP41
(3) DNPL1515, (1) DNPL153015, (1) DNPL154015, (1) DNPL2020, (1) DNPL1520	BP54