

## Type BR arc fault circuit interrupter

### Type BR arc fault circuit interrupter circuit breakers

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

An arc fault circuit interrupter is a device intended to provide protection from the effects of arc faults by recognizing characteristics unique to arcing and by functioning to de-energize the circuit when the arc fault is detected. As of January 1, 2015, the Canadian Electrical Code now requires that all branch circuits that supply 125 V, single-phase, 15 and 20 A receptacle outlets installed in dwelling unit shall be protected by a combination arc fault circuit interrupter(s) (series arc and parallel arc detection).

**Table 14. Single- and two-pole plug-in AFCI circuit breakers**

Ampere rating	Configuration	Catalogue number		Two-pole <sup>a</sup> 120/240 Vac 5 per shelf carton 10 kAIC	Wire size range (Cu/Al 60 °C or 75 °C)
		Plug-on Neutral Breaker <sup>e</sup>	Pigtail Breaker		
15	Combination	<b>BRP115AFC</b> <sup>d</sup>	<b>BRN115AFC</b> <sup>d</sup>	<b>BRL215CAF</b> <sup>bc</sup>	#14–4 AWG
15	High interrupting 22 kAIC		<b>BRHN115AF</b>	—	#14–4 AWG
20	Combination	<b>BRP120AFC</b> <sup>d</sup>	<b>BRN120AFC</b> <sup>d</sup>	<b>BRL220CAF</b> <sup>bc</sup>	#14–4 AWG
20	High interrupting 22 kAIC		<b>BRHN120AF</b>	—	#14–4 AWG
				Requires one 1.00 inch (25.4 mm) space	Requires two 1.00 inch (25.4 mm) spaces

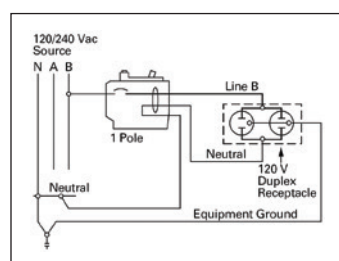
<sup>a</sup> Common trip refers to two-pole 240 V load application sourced by 120/240 Vac (see **Figure 2**).

<sup>b</sup> Will not fit into CPM112, CPL112, CPL116, CPL120, CPL220, CPL240, 3CPM112, 3CPL218, 3CPL224 or 3CPL230 prior to November 2004.

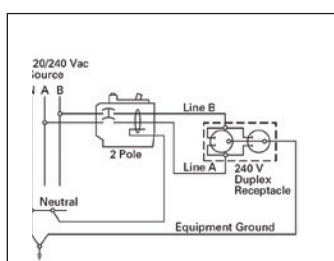
<sup>c</sup> Long style circuit breakers. Please speak to your local Eaton sales rep for proper application.

<sup>d</sup> CSA marked only

<sup>e</sup> Only for use in the Type BR plug-on neutral style of combination and non-combination loadcentres



**Figure 1. Single-pole, single 120 V load application sourced by 120/240 Vac**



**Figure 2. Two-pole, 240 V load application sourced by 120/240 Vac**



Type BR combination AFCI circuit breaker



Type BR dual purpose AF/GF breaker



Type BR fire alarm breaker features red handle

**Table 15. Single-pole plug-in dual purpose AF/GF breakers**

Ampere rating	Configuration	Pon Breaker <sup>b</sup>	Pigtail Breaker
		Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC Catalogue number	
15	CAFCI / 5 mA GF	<b>BRP115DFC</b> <sup>a</sup>	<b>BRN115DFC</b> <sup>a</sup>
20	CAFCI / 5 mA GF	<b>BRP120DFC</b> <sup>a</sup>	<b>BRN120DFC</b> <sup>a</sup>
Compact body breaker		Requires one 1.00 inch (25.4 mm) space	

<sup>a</sup> CSA marked only

<sup>b</sup> Only for use in the Type BR plug-on neutral style of combination and non-combination loadcentres

**Table 16. Single-pole plug-in fire alarm breakers**

Ampere rating	Configuration	Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC Catalogue number
		15
20	Branch fire alarm	<b>BRF120</b>
Compact body breaker		Requires one 1.00 inch (25.4 mm) space