

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		Wire size range (Cu/Al 60 °C or 75 °C)
		Single-pole 120/240 Vac 20 per shelf carton 10 kAIC	Two-pole ^{ab} 120/240 Vac 5 per shelf carton 10 kAIC	
15	Branch	BRAF115	—	#14–4 AWG
15	Combination	BRAF115C	—	#14–4 AWG
15	Common trip	—	BRL215CAF^{cd}	#14–4 AWG
15	High interrupting 22 kAIC	BRHCAF115	—	#14–4 AWG
20	Branch	BRAF120	—	#14–4 AWG
20	Combination	BRAF120C	—	#14–4 AWG
20	Common trip	—	BRL220CAF^{cd}	#14–4 AWG
20	High interrupting 22 kAIC	BRHCAF120	—	#14–4 AWG
		Requires one 1.00 inch (25.4 mm) space		Requires two 1.00 inch (25.4 mm) spaces

a Common trip refers to two-pole 240 V load application sourced by 120/240 Vac (see **Figure 1**).

b Independent trip refers to two-pole multi-wire, home run or shared neutral circuits (see **Figure 2** and **Figure 4**).

c Will not fit into CPM112, CPL112, CPL116, CPL120, CPL220, CPL240, 3CPM112, 3CPL218, 3CPL224 or 3CPL230 prior to November 2004.

d Long style circuit breakers. Please speak to your local Eaton sales rep for proper application.

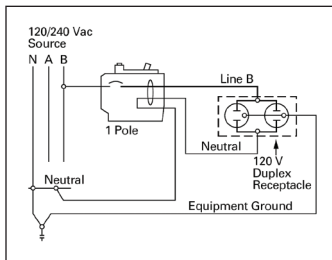


Figure 1. Single-pole, single 120 V load application sourced by 120/240 Vac

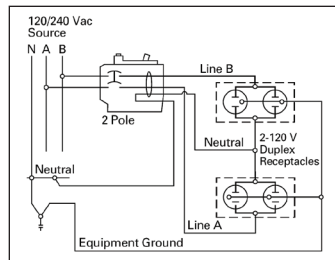


Figure 2. Two-pole, shared neutral with multi-duplex receptacle application

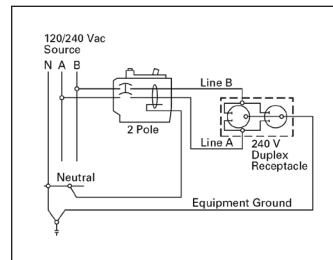


Figure 3. Two-pole, 240 V load application sourced by 120/240 Vac

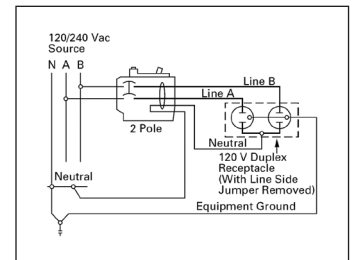


Figure 4. Two-pole, shared neutral with duplex receptacle application



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	Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC Catalogue number	
		Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC	Catalogue number
15	CAFCI / 5 mA GF	BRLAFGF115	
20	CAFCI / 5 mA GF	BRLAFGF120	
Long body breaker		Requires one 1.00 inch (25.4 mm) space	

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	
		Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC	Catalogue number
15	Branch fire alarm	BRF115	
20	Branch fire alarm	BRF120	
Compact body breaker		Requires one 1.00 inch (25.4 mm) space	