

Plug-In Circuit Breakers for CPM/CPL

Type BR Arc Fault Circuit Interrupter

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- ◆ 10,000 Amperes Interrupting Capacity at 120VAC, 120/240VAC, and 240VAC

Product Description

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, 2002, the Canadian Electrical Code now requires that all branch circuits that supply 125 Volt, single phase, 15 and 20 Ampere receptacle outlets installed in dwelling unit bedrooms shall be protected by an Arc Fault Circuit Interrupter(s).

Product Selection

Table 14. Single and Two Pole Plug-In FIRE-GUARD™ AFCI Circuit Breakers

Ampere Rating	Configuration	1-Pole 120/240VAC		2-Pole ① ② 120/240VAC		Wire Size Range (Cu/AL 60°C or 75°C)
		10kAIC	Catalogue Number	10kAIC	Catalogue Number	
15	Standard	—	BR115AF ③	—	—	#14 - 4 AWG
15	Compact	—	BRAF115	—	—	#14 - 4 AWG
15	Common Trip	—	—	—	BRL215AF ④	#14 - 4 AWG
15	Independent Trip	—	—	—	BRL215AFIT ④	#14 - 4 AWG
20	Standard	—	BR120AF ③	—	—	#14 - 4 AWG
20	Compact	—	BRAF120	—	—	#14 - 4 AWG
20	Common Trip	—	—	—	BRL220AF ④	#14 - 4 AWG
20	Independent Trip	—	—	—	BRL220AFIT ④	#14 - 4 AWG
		Requires One 1-Inch (25.4mm) Space		Requires Two 1-Inch (25.4mm) Spaces		



Type BR 1 and 2 Pole AFCI Circuit Breakers

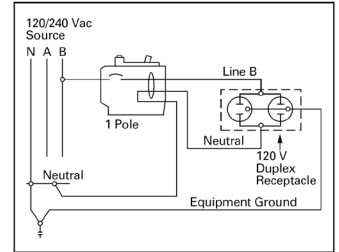


Figure 1. 1-Pole Single 120V Load Application Sourced by 120/240VAC

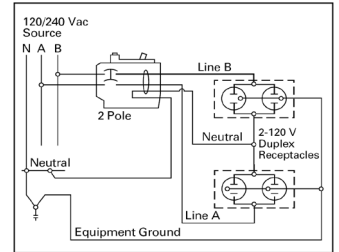


Figure 2. 2-Pole Shared Neutral with Multi-Duplex Receptacle Application

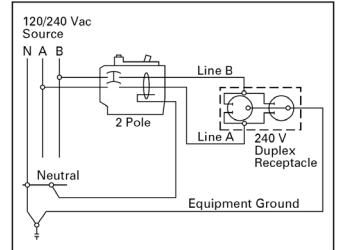


Figure 3. 2-Pole 240V Load Application Sourced by 120/240VAC

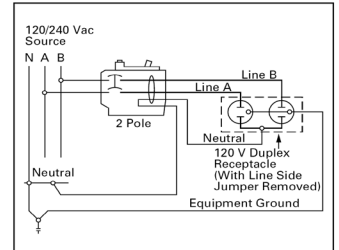


Figure 4. 2-Pole Shared Neutral with Duplex Receptacle Application

① Common trip refers to 2-pole 240 volt load application sourced by 120/240 Vac (see Figure 3).

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

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

④ Long style circuit breakers. Please speak to your local Eaton sales rep for proper application.