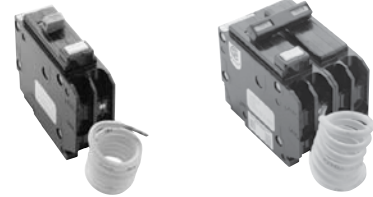


Plug-In Circuit Breakers for CPM/CPL

Types GFCB & GFEP Ground Fault

Type GFCB and GFEP Ground Fault Circuit Breakers

- ◆ 10,000 / 22,000 Amperes Interrupting Capacity at 120VAC and 120/240VAC
- ◆ 5mA “People Protection”, 10mA Submersible Pump Protection, or 30mA Equipment Protectors
- ◆ Two pole version features common trip.



GFCB 1-Pole

GFCB 2-Pole

Product Selection

Table 15. 5mA Single and Two Pole Plug-In Ground Fault Circuit Breakers

Ampere Rating	Wire Size Range Cu/Al 60°C or 75°C (AWG)	1-Pole 120VAC	1-Pole 120VAC	2-Pole 120/240VAC	2-Pole 120/240VAC
		1 per Shelf Carton	1 per Shelf Carton	1 per Shelf Carton	1 per Shelf Carton
		10kAIC	22kAIC	10kAIC	22kAIC
		Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
15	#14 - 4	GFCB115 ①	GFCBH115	GFCB215	GFCBH215
20	#14 - 4	GFCB120 ①	GFCBH120	GFCB220	GFCBH220
25	#14 - 4	GFCB125 ①	GFCBH125	GFCB225	GFCBH225
30	#14 - 4	GFCB130 ①	GFCBH130	GFCB230	GFCBH230
40	#14 - 4	GFCB140 ①	—	GFCB240	—
50	#14 - 4	—	—	GFCB250 ②	—
60	#14 - 6	—	—	GFCB260	—
Requires One 1-Inch (25.4mm) Space			Requires Two 1-Inch (25.4mm) Spaces		

Table 16. 30mA Single and Two Pole Plug-In Ground Fault Circuit Breaker Equipment Protectors

Ampere Rating	Wire Size Range Cu/Al 60°C or 75°C (AWG)	1-Pole 120VAC	2-Pole 120/240VAC
		1 per Shelf Carton	1 per Shelf Carton
		10kAIC	10kAIC
		Catalogue Number	Catalogue Number
15	#14 - 4	GFEP115	GFEP215
20	#14 - 4	GFEP120	GFEP220
25	#14 - 4	GFEP125	GFEP225
30	#14 - 4	GFEP130	GFEP230
40	#14 - 4	—	GFEP240
50	#14 - 4	—	GFEP250 ②
Requires One 1-Inch (25.4mm) Space		Requires Two 1-Inch (25.4mm) Spaces	

Ground Fault Application Note

Single-pole ground fault circuit breakers (GFCBs) are designed for use in 2-wire, 120VAC circuits. Figure 5 shows a typical wiring configuration.

Two-pole GFCBs are designed for use in 3-wire, 120/240VAC circuits, 120VAC multi-wire circuits employing common, neutral and 2-wire, 240VAC circuits obtained from a 120/240VAC source.

Figures 6 and 7 illustrate typical wiring configurations for 120/240VAC multi-wire circuits.

Figure 8 depicts a 240VAC, 2-wire circuit. Note the “panel neutral” conductor connects to the neutral bar, even though the neutral is not included in the load circuit. This connection is necessary to supply a 120VAC power source to the ground fault sensing circuit.

The figures are shown with a 120/240VAC, single-phase, 3-wire power source, but are also applicable to a 120/208VAC, 3-phase, 4-wire power supply. For all figures the electrical operation of the GFCB is not affected by the equipment ground.

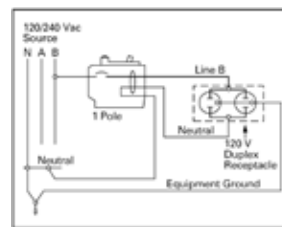


Figure 5. 1-Pole

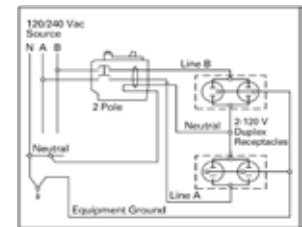


Figure 6. 2-Pole

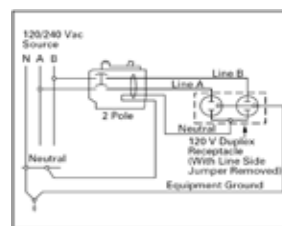


Figure 7. 2-Pole

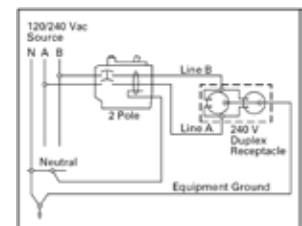


Figure 8. 2-Pole

① Auxiliary switches and bell alarms are available under special order. Add suffix W1 for alarm switch and W2 for auxiliary switch.

② For use with copper wire only.