Loadcenters and Circuit Breakers

Type BR Loadcenters and Circuit Breakers

BR Circuit Breakers



Contents

Description	Page
Overview	V1-T1-42
BR Specialty Products	
BR Quick Connect Neutral Loadcenters	V1-T1-57
Spa Panels	V1-T1-58
Riser Panel	V1-T1-59
Type BR Renovation Loadcenter	V1-T1-60
Type BR Mechanical Interlock Kits	V1-T1-62
Type BR Retrofit Interior Kits	V1-T1-73
BR Circuit Breakers	
Product Selection	V1-T1-77
Circuit Breaker Accessories	V1-T1-85
Wiring Diagrams	V1-T1-87

BR Circuit Breakers

Product Description

Plug-On Branch Feeder Type Arc Fault Circuit Breakers, Type BR—10 kAIC, 120 Vac and 120/240 Vac

A branch feeder type arc fault circuit interrupter is a device intended to mitigate high current arcing faults in the complete circuit, including connected cords. High current arcing faults can occur from line to neutral or line to ground. These arcing faults are in parallel with the load and produce the most energy of all arcing faults.

The branch feeder type AFCI is required in the 1999 and 2002 National Electrical Code.

The Combination Type AFCI is required in the 2005, 2008, and 2011 National Electrical Code.

Plug-On Combination Type Arc Fault Circuit Breakers, Type BR—10 kAIC, 120 Vac and 120/240 Vac

A combination type arc fault circuit interrupter is a device that includes all of the protection offered by the branch feeder AFCI (mitigation of high current arcing faults in the complete circuit, including connected cords). In addition it provides direct detection of persistent low current arcing faults down to 5 amps with associated mitigation of fire hazards in the cords connected to the outlets. High current arcing faults can occur from line to neutral or line to ground. These arcing faults are in parallel with the load and produce the most energy of all arcing faults. The current level of low current arcing faults is limited by the load.

Plug-On Ground Fault Circuit Breakers, Type GFCB and GFEP—10/22 kAIC, 120 Vac and 120/240 Vac

Ground Fault Application Notes Single-pole GFCBs are designed for use in twowire, 120 Vac circuits. See Page V1-T1-87 for a typical wiring configuration.

Two-pole GFCBs are designed for use in threewire, 120/240 Vac circuits, 120 Vac multiwire circuits employing common, neutral and two-wire, 240 Vac circuits obtained from a 120/240 Vac source.

Page V1-T1-87 shows typical wiring configurations for a 120/240 Vac multiwire circuits, and a 240 Vac, twowire 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 120 Vac power source to the ground fault sensing circuit. The figures are shown with a 120/240 Vac, single-phase, three-wire power source, but are also applicable to a 120/208 Vac, three-phase, four-wire power supply. For all figures, the electrical operation of the GFCB is not affected by the equipment ground.

Non-CTL Plug-On Replacement —Circuit Breakers, Type BRD— 10 kAIC, 120/240 Vac

Non-CTL 10 kAIC for Replacement Purposes Only

For replacement in enclosures manufactured prior to 1968 with unnotched stabs. Circuit breakers do not have rejection tab.

Plug-On, Dual Purpose Arc Fault/ Ground Fault Circuit Breakers, Type BR—10 kAIC, 120 Vac

BRLAFGF115	Type BR, 1-Inch (25.4 mm) wide Dual Purpose AF/GF Circuit Breakers 02			
	Poles	Ampere Rating	Configuration	Catalog Number
	Single-pole	15	Combination AFCI GFCI	BRLAFGF115
	10 KAIC	20	Combination AFCI GFCI	BRLAFGF120
	10 kAIC	20	Combination AFCI GFCI	BRLAFGF120

Plug-On Combination Type Arc Fault Circuit Breakers, Type BR—10 kAIC, 120 Vac and 120/240 Vac

BRCAF115

•	Type BR, 1-Inch (25.4 mm) wide FIRE-GUARD Combination Type AFCI	
	Circuit Breakers	



Catalog Number	Configuration	Ampere Rating	Poles
BRCAF115 3	AFCI	15	Single-pole 10 kAIC
BRACAF115	Diagnostic AFCI		
BRCAF120 ³	AFCI	20	
BRACAF120	Diagnostic AFCI		
BRHCAF115 3	AFCI	15	Single-pole 22 kAIC
BRHCAF120 3	AFCI	20	
BRL215CAF	AFCI	15	Two-pole 10 kAIC
BRL220CAF	AFCI	20	
_	AFCI AFCI AFCI	20	22 KAIC

Plug-On Ground Fault Circuit Breakers, Type GFCB and GFEP—10/22 kAIC, 120 Vac and 120/240 Vac

Type GFCB Ground Fault Circuit Breakers – 5 Milliampere –

1-Inch (25.4 mm) per Pole 120 Vac or 120/240 Vac, 10 kAIC



Type GFCB Two-Pole



Ampere Rating	Wire Size Range Cu/Al 60 °C or 75 °C	Single-Pole 120 Vac Requires One 1-Inch (25.4mm) Space 1 per Shelf Carton Catalog Number [®]	Two-Pole 120/240 Vac Common Trip Requires Two 1-Inch (25.4 mm) Spaces 1 per Shelf Carton Catalog Number
15	#144	GFCB115	GFCB215
20	#14—4	GFCB120	GFCB220
25	#14—4	GFCB125	GFCB225
30	#14—4	GFCB130	GFCB230
40	#14—4	GFCB140	GFCB240
50	#14-4	_	GFCB250 6
60	#14–6	—	GFCB260

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Notes

- ① Breaker qualifies as combination arc fault, per UL 1699.
- ⁽²⁾ Breaker qualifies as personnel protection ground fault, (5 mA) per UL 943.
- ^③ Clamshell packaging available with CS modification code on the end of catalog number.
- Available with bell alarm or auxiliary switch. See circuit breaker accessories on Page V1-T1-85.
- ^⑤ For use with copper wire only.