

Type BR Loadcenters and Circuit Breakers



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### Overview

#### Product Description

Loadcenters are enclosures specifically designed to house the branch circuit breakers and wiring required to distribute power to individual circuits. They contain either a main breaker when used at the service entrance point or a main lug when used as a sub-panel to add circuits to existing service. The main breaker protects the main entire panel and can be used as a service disconnect. The branch breakers protect the wires leading to individual electrical loads such as fixtures and outlets.

#### Features, Benefits and Functions

##### Loadcenter Construction

Eaton’s Type BR loadcenters have standard tin-plated aluminum bus with a limited availability of copper bus. The sum of the handle ratings connected to any stab is limited to 150 A maximum on the 100 and 125 A loadcenters, and 200 A on loadcenters with 150 A or higher main bus. NEMA Type 1 boxes or enclosures are manufactured from galvanized steel. Raintight boxes are manufactured from galvanized steel, then finished using an electrostatic powder coat, baked urethane paint process.

##### Neutrals

Eaton Type CH loadcenters feature two types of neutrals:

##### Insulated/Bondable Split Neutral

Panels are supplied with split insulated neutrals with an insulated cross strap. For service entrance applications, the neutral must be bonded by using the bonding strap supplied with the panel. For non-service entrance (sub-panel) applications, the panel may be installed with the bonding strap not connected to the neutral. Separate ground bars must be used on non-service entrance panels.

##### Insulated/Bondable Single Neutral

Panels are supplied with a single insulated neutral. For service entrance applications, all that is required to bond the neutral is to loosen the bonding screw and the neutral screw directly beside it, insert the bonding strap into the neutral bar, and re-tighten both connections. The single neutral can be moved by the contractor to the other side of the panel, if desired. When used as a service entrance panel, unused neutral connections may be used for the termination of equipment grounds. For non-service entrance (sub-panel) applications, the panel may be installed with the bonding strap not connected to the neutral. Separate ground bars must be used on non-service entrance panels.

**Grounds**

In service entrance applications where the neutral is bonded, unused neutral holes may be used for terminating ground conductors. In sub-feed panels, the neutral must be isolated (non-bonded), and ground wires must be terminated on a separate ground bar.

The insulated/bondable single/split neutral panels have sufficient terminations for both ground and neutral conductors. The insulated/bondable single split neutral panels are supplied with a separate factory-installed ground bar if the catalog number contains a "G." If not, a separate ground bar should be installed. Insulated/Bondable Single Neutral panels are supplied without a ground bar (unless otherwise noted), and ground bar kits if needed must be purchased separately.

**Neutral and Ground Terminals**

The standard terminals on grounds and neutrals are rated to accept (3) #14–#10 Cu/Al or (1) #14–4, provided the cables terminated are of the same material. For larger cables, add-on neutral lugs may be ordered from the accessories on **Page V1-T1-68**.

**Note:** NEC allows only one current-carrying conductor per hole on neutrals unless otherwise noted.

**Bottom Fed Loadcenters**

For single-phase 225 A and below loadcenters that are bottom fed, a standard panel can be rotated 180 degrees to allow straight-in wiring of power cables to the main terminals. Because the main circuit breaker handle operates horizontally, the orientation of the main circuit breaker handle is consistent with the requirements of NEC 2008 Article 240.81.

**Gutter Splicing**

Loadcenters are not UL listed as wiring troughs. Therefore, gutter splicing of riser cables to tap off to the main device is not permitted. Refer to NEC 2008 Article 312.8.

**Fire Rating**

Due to the numerous openings in both loadcenter boxes and trims, they should not be mounted in firewalls. There is no approved method for sealing the enclosures for this application.

**Date Code**

The date of manufacture of each loadcenter is printed on the outside of the carton as well as inside the loadcenter. On the carton, the date code is printed on the end carton label. In the loadcenter, the date code is located on the small white label located on the right side wall (with the main device on top).

The date code is in the following format: F # # # &. The "F" is the numeric code for the Lincoln, IL plant, and the three numbers are the year and week of manufacturing, e.g., 023. The "!" sign at the end signifies the decade of the 2010. Therefore, the date code F023! would indicate that the product was manufactured in the 23rd week of 2010. The 1980s are represented by the "+" sign and the 1990s are represented by a "=" at the end of the code.

**Surge Protectors**

Complete home surge protection is available in multiple options, including a factory-installed option that provides the highest level of surge protection in a residential design. See Tab 3 for more details.

**Circuit Breaker Case Interrupting Capacity**

- 10 kAIC
- 22 kAIC
- 25 kAIC

**Warranty Information**

- 10-year limited loadcenter warranty
- 10-year limited branch breaker warranty

**Standards and Certifications****UL Listings**

All Eaton Type BR loadcenters are listed under UL File E52977 except the 2–8 circuit loadcenters, up through and including 125 A, which are listed under UL File E8741.



# 1.2

## Loadcenters and Circuit Breakers

### Type BR Loadcenters and Circuit Breakers

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#### Type BR Loadcenter

Extra 1.5 inch Knockout (38.1 mm)

- Larger knockout provides easier installation and time savings

Top or Bottom Feed

- Straight-in wiring saves labor and material
- One panel for either top or bottom applications

2/0 Lug

- Easily removable and can be installed in any location on the neutral bar

Type BR AFCI Breakers

- Compact design for easier wiring and improved wireway access
- Optional LED indicates one of six trip codes for circuit diagnostics
- Provides a clean gutter space

Standard Tin-Plated Aluminum Bus

- Excellent conductivity and corrosion resistance
- Copper bus options available for select catalog numbers

Drywall Marking on Enclosure

- Indicates proper mounting depth for flush applications

"Tangential" Center Knockout

- Easier installation for conduit applications

Commercial Grade Main Breaker

- 25 kAIC series rated main breaker for superior protection

Neutral Bus (Strap)

- Is easily removable for sub-panel applications

Bonding Z-Strap

- Provides easy field conversion for service entrance applications

Twin Neutral Bars

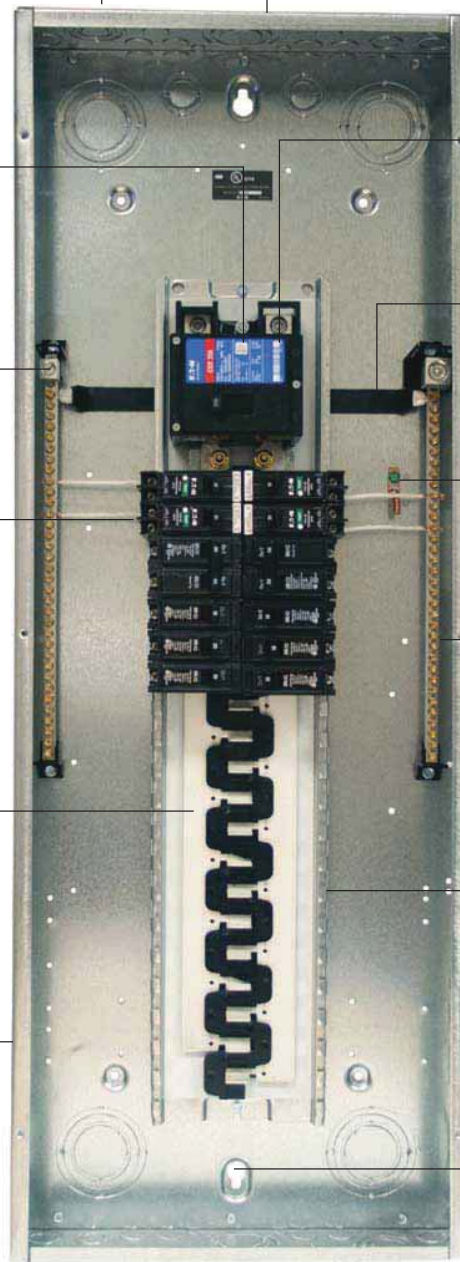
- Minimum 150% neutral capacity

Steel Backpan

- Provides solid and reliable breaker mounting—single piece design for stability and durability

Single Keyhole Mounting

- One keyhole at the top and bottom provides easier mounting and leveling

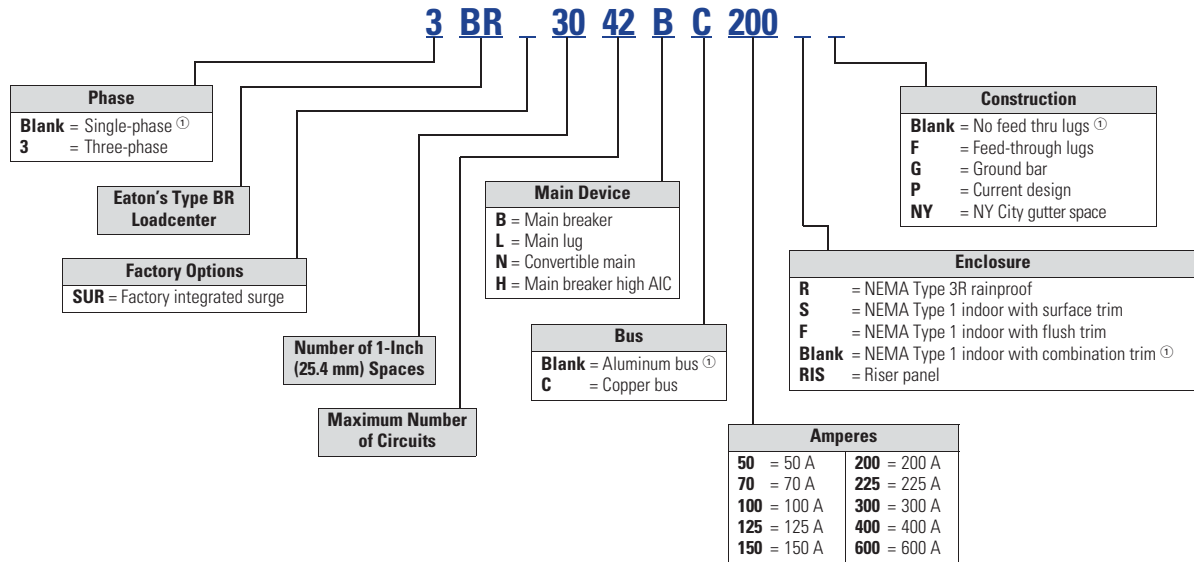


#### Warranty

10-year warranty on all Type BR loadcenters and circuit breakers.

### Catalog Number Selection

#### Single- and Three-Phase Through 600 A



**Note**

① No character space used.

#### 1

#### Product Selection

#### Single-Phase—Main Circuit Breaker Loadcenters—10/25 kAIC

BR4040B200



#### Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral

Main Breaker Type	Main Ampere Rating	Maximum Number 1-Inch (25.4 mm)		Enclosure Type	Box Size	Wire Size Range Cu/Al 60 °C or 75 °C for Main Breaker	Loadcenter Catalog Number with Combination <sup>①</sup> or NEMA Type 3R Cover			
		Spaces	Circuits							
BR 10 kAIC	100	8	16	Indoor	B1	#4–1/0 <sup>②</sup>	BR816B100			
		10	20	Indoor	A1		BR1020B100S11			
		10	20	Indoor	A1		BR1020B100F11			
		10	20	Outdoor	B2R		BR1020B100RF <sup>③④</sup>			
		12	12	Indoor	B2		BR1212B100			
		12	20	Indoor	B2		BR1220B100			
		12	24	Outdoor	B2R		BR1224B100R <sup>④</sup>			
		16	16	Indoor	C1		BR1616B100			
		16	20	Indoor	C1		BR1620B100			
		16	24	Outdoor	C1R		BR1624B100R <sup>④</sup>			
		20	24	Outdoor	C3R		BR2024B100R <sup>④</sup>			
		20	20	Indoor	C2		BR2020B100			
		16	24	Indoor	C1		BR1624B100			
		30	30	Indoor	D1		BR3030B100			
		BRH <sup>⑤</sup> 22 kAIC	125	16	24		Indoor	C1	#4–2/0	BR1624B125
				20	24		Indoor	C1		BR2024B125
20	24			Outdoor	C3R	BR2024B125R <sup>④</sup>				
30	30			Indoor	D1	BR3030B125				
CSR <sup>⑥</sup> 25 kAIC	150	20	24	Indoor	C2	#2–300 kcmil	BR2024H100 <sup>⑤</sup>			
		8	16	Outdoor	C3R		BR816B150RF <sup>③④</sup>			
		16	30	Indoor	C4		BR1630B150			
		20	30	Indoor	C4		BR2030B150			
		20	30	Outdoor	D1R		BR2030B150R <sup>④</sup>			
		20	40	Indoor	D1		BR2040B150			
		20	40	Outdoor	D1R		BR2040B150R <sup>④</sup>			
		24	30	Indoor	G1		BR2430B150			
		30	30	Outdoor	G1R		BR3030B150R <sup>④</sup>			
		30	30	Indoor	G1		BR3030B150			
		30	40	Indoor	G1		BR3040B150			
		BR4040B200	200	4	8		Outdoor	8R	#2–300 kcmil	BR48B200RF <sup>③⑦⑧</sup>
8	16			Outdoor	C3R	BR816B200RF <sup>③④</sup>				
16	32			Indoor	C4	BR1632B200				
20	40			Outdoor	D1R	BR2040B200R <sup>④</sup>				
20	40			Indoor	D1	BR2040B200				
24	40			Indoor	G1	BR2440B200				
30	40			Outdoor	G1R	BR3040B200R <sup>④</sup>				
30	40			Indoor	G1	BR3040B200 <sup>⑨</sup>				
40	40			Outdoor	L1R	BR4040B200R <sup>④</sup>				
40	40			Indoor	L1	BR4040B200				
40	50			Indoor	L1	BR4050B200				
60	120			Indoor	L3	BR60120B200				
BR4040B200	225	60	120	Outdoor	L3R	#1–250 kcmil	BR60120B200R			
		42	42	Indoor	L2		BR4242B225			
BR4040B200	225	42	42	Outdoor	L2R	#1–250 kcmil	BR4242B225R <sup>④</sup>			

#### Notes

- ① Combination style covers may be used in surface or flush applications.
- ② Wire range size for BR1020B100SP is #6–#1 Cu/Al.
- ③ Includes through-feed lugs for both phase and neutral conductors.
- ④ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-68**.
- ⑤ 22 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and GFTCB 10 kAIC branch breakers are used in series with Type BRH main breaker.
- ⑥ 25 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and GFTCB 10 kAIC branch circuit breakers are used in series with Type CSR main breaker.
- ⑦ Supplied with adapter plate to use DS Group1 hubs on **Page V1-T1-68**. If 2.50-inch (63.5 mm) hub is needed, remove adapter and use ARP00007/CH25 hub.
- ⑧ Neutral is bonded—suitable for service entrance only—cannot be converted for sub-feed application.
- ⑨ Add G to the end of the catalog number for factory-installed GBK2120 ground bar.

All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with neutral bonding strap preattached. The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment. Ground bar kits priced separately. See **Page V1-T1-68**.

### Main Circuit Breaker Loadcenters—10/22 kAIC

B4242DFN



### Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral

Main Breaker Type	Main Ampere Rating	Maximum Number 1-Inch (25.4 mm)		Enclosure Type	Box Size	Wire Size Range Cu/Al 60 °C or 75 °C for Main Breaker	Commercial Loadcenter Catalog Number <sup>①②③</sup>	
		Spaces	Circuits				With Flush or NEMA Type 3R Cover	With Surface Cover
DK <sup>④</sup>	300	42	42	Indoor	24	(2) #3/0–250 kcmil	BR4242B300F	BR4242B300S
	400	42	42	Indoor	24	(2) #3/0–250 kcmil	BR4242B400F	BR4242B400S
		42	42	Outdoor	47	(2) #3/0–250 kcmil	BR4242B400R <sup>⑤</sup>	—
HLD <sup>⑥</sup>	600	42	42	Indoor	24	(2) #3/0–500 kcmil	—	BR4242B600S

#### Notes



- ① Ground bar kits priced separately. See **Page V1-T1-68**.
- ② The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
- ③ Door lock and key included with loadcenter.
- ④ Type DK main circuit breaker is rated 65 kAIC at 240 Vac and allows a 22 kAIC series rating on the panel when Types BR, BD and BJ branch circuit breakers are used.
- ⑤ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-68**.
- ⑥ Type HLD main circuit breaker is rated 65 kAIC at 240 Vac. Type HLD circuit breaker **is not** series rated with Types BR, BD and BJ branch circuit breakers.

Box sizes **Pages V1-T1-73 through V1-T1-76**.

Please contact the Lincoln Flex Center for any configurations not listed.

### Single-Phase—Main Lug Loadcenters

#### Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral, continued

Main Ampere Rating	Maximum Number 1-Inch (25.4 mm)		Enclosure Type	Box Size	Wire Size Range Cu/Al 60 °C or 75 °C for Main Lugs	Loadcenter Catalog Number with Combination or NEMA Type 3R Cover ①	
	Spaces	Circuits					
BR1224L125 	125	12	12	Indoor	B1	#6–2/0 BR1212L125 ②③④⑤	
		12	24	Indoor	B1	BR1224L125 ②④⑤	
		12	24	Indoor	B1	BR1224L125G ②④⑤	
		12	24	Indoor	B1	BR1224L125DG ②④⑤⑥	
		12	24	Outdoor	B1R	BR1224L125R ②⑤⑦	
		16	16	Indoor	B2	BR1616L125 ②④⑤	
		16	24	Indoor	B2	BR1624L125 ②④	
		16	24	Indoor	B2	BR1624L125G ②④	
		16	24	Outdoor	B2R	BR1624L125R ②⑦	
		20	20	Indoor	C1	BR2020L125 ②④⑤	
		20	24	Indoor	C1	BR2024L125 ②④	
		20	24	Indoor	C1	BR2024L125G ②④⑧	
		20	24	Outdoor	C1R	BR2024L125R ③⑦	
		24	24	Indoor	C2	BR2424L125 ②④	
		24	24	Indoor	C2	BR2424L125G ②④⑧	
		30	42	Indoor	D1	BR3042L125 ②④	
		150	16	30	Indoor	C2	#1–300 kcmil BR1630L150 ④⑨
			20	30	Indoor	C2	BR2030L150 ④⑨
		BR1224L200 	200	8	16	Outdoor	B2R
12	24			Indoor	B2	BR1224L200 ④⑤⑨	
12	24			Outdoor	B2R	BR1224L200R ⑤⑦⑨	
20	40			Indoor	C2	BR2040L200 ④⑨	
20	40			Indoor	C2	BR2040L200G ④⑧⑨	
20	40			Outdoor	C3R	BR2040L200R ⑦⑨	
24	40			Indoor	C4	BR2440L200 ④⑨	
30	40			Indoor	D1	BR3040L200 ④⑨	
30	40			Indoor	D1	BR3040L200G ④⑧⑨	
30	40			Outdoor	D1R	BR3040L200R ⑦⑨	
40	40			Indoor	G1	BR4040L200 ④⑨	
40	40			Indoor	G1	BR4040L200G ④⑨	
40	40			Outdoor	G1R	BR4040L200R ⑦⑨	
60	120			Indoor	L3	BR60120L200 ⑩	
225	42			42	Indoor	L1	#1–300 kcmil BR4242L225 ④
	42	42	Outdoor	L1R	BR4242L225R ⑦		

#### Notes

- ① Ground bar kits priced separately unless otherwise noted. See **Page V1-T1-68**.
- ② Has notch for BREQS125 hold-down kit.
- ③ Single, movable neutral is provided.
- ④ Combination cover style.
- ⑤ Suitable for use as service equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance panelboard.
- ⑥ Ground bars GBK5 and GBK520 installed.
- ⑦ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-68**.
- ⑧ Ground bar GBK1220 installed.
- ⑨ Has notch for BRHDK125 hold-down kit.
- ⑩ Includes through-feed lugs for both phase and neutral conductors.
- ⑪ Includes main lugs. Loadcenters can convert to main breaker using kit.

# 1.2

## Loadcenters and Circuit Breakers

### Type BR Loadcenters and Circuit Breakers

1

#### Single-Phase—Main Lug Loadcenters—400 and 600 A

4242DFN



#### Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral

Main Ampere Rating	Maximum Number 1-Inch (25.4 mm)		Enclosure Type	Box Size	Wire Size Range Cu/Al 60 °C or 75 °C for Main Lugs	Commercial Loadcenter Catalog Number <sup>①②③</sup>	
	Spaces	Circuits				With Flush or NEMA Type 3R Cover	With Surface Cover
400	12	24	Outdoor	42	(2) #3/0–400 kcmil	BR1224L400R <sup>④⑤</sup>	—
	42	42	Indoor	22		BR4242L400F	BR4242L400S
	42	42	Outdoor	46		BR4242L400R <sup>④</sup>	—
600	42	42	Indoor	22	(2) #2–500 kcmil	—	BR4242L600S

#### Notes

- ① Ground bar kits priced separately unless otherwise noted. See **Page V1-T1-68**.
- ② Has notch for BRHDK125 hold-down kit.
- ③ Ground bar GBK8 installed.
- ④ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-68**.
- ⑤ Suitable for use as service equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance panelboard.



#### DS300H2



#### Field Installation Rainproof Conduit Hubs

Description	Conduit Size Inches (mm)	Ordering Quantity <sup>①</sup>	Catalog Number
Group 1—for use with 70, 100 and 125 A MLO and MCB loadcenters and circuit breaker enclosures and the following 150 and 200 A panels: BR48B200RF	0.75 (19.1)	1	DS075H1
	1.00 (25.4)	1	DS100H1
	1.25 (31.8)	1	DS125H1
	1.50 (38.1)	1	DS150H1
	2.00 (50.8)	1	DS200H1
Group 2—for use with 150, 200 and 225 A MLO and MCB loadcenters and circuit breaker enclosures except for the following 200 A loadcenters: BR48B200RF. Also for use with 400 and 600 A loadcenters and New York City loadcenters manufactured after November 1, 2005	2.00 (50.8)	1	DS200H2
	2.50 (63.5)	1	DS250H2
	3.00 (76.2)	1	DS300H2
Type H conduit hubs for loadcenters PL0724R and S3100RN	0.75 (19.1)	1	RH75P
	1.00 (25.4)	1	RH100P
	1.25 (31.8)	1	RH125P
	1.50 (38.1)	1	RH150P
Adapter kit—Allows installing a Group 1 hub on devices arranged for Group 2 hubs	—	1	DS900AP
Group 1 small blank hub plate with bump	—	1	DS900CP1
Group 2 Large blank hub plate with bump	—	1	DS900CP2

#### GBK14



#### BRGBK39512



#### Ground Bar Kits

Description (See Legend)	Length Inches (mm)	Ordering Quantity <sup>①</sup>	Catalog Number
●○○○○●	2.54 (64.5)	1	GBK5 <sup>②</sup>
●○○○○●■	3.59 (91.2)	1	GBK520 <sup>②</sup>
●○○○○●○○○○	4.29 (109.0)	1	GBK10 <sup>②</sup>
●○○○○●○○○○■	5.34 (135.6)	1	GBK1020 <sup>②</sup>
●○○○○■○○○○	4.61 (117.1)	1	GBK13 <sup>②</sup>
●○○○○●○○○○○○○○	5.69 (144.5)	1	GBK14 <sup>②</sup>
●○○○○●○○○○○○○○■	6.74 (171.2)	1	GBK1420 <sup>②</sup>
●○○○○●○○○○○○○○○○○○	8.14 (206.8)	1	GBK21 <sup>②</sup>
●○○○○●○○○○○○○○○○○○■	9.19 (233.4)	1	GBK2120 <sup>②</sup>
○□□□●□□□○○□□□●○○□□□□	5.78 (146.8)	1	BRGBK39512 <sup>③④</sup>
○○○○	1.84 (46.7)	1	GB4NM <sup>⑤</sup>

#### Ground Bar Legend

- (3) #14–10 Cu/Al or (1) #14–4 Cu/Al
- (1) #6–2/0 Cu/Al
- (1) #14–1/0 Cu/Al or (3) #14–10 Cu/Al
- ◐ (1) #14–6 Cu/Al or (2) #14–12 Cu/Al
- Mounting Hole

#### Notes

- ① Must be purchased in multiples of ordering quantities indicated.
- ② Distance between mounting holes is 1.75 inches (44.5 mm).
- ③ For single- and three-phase 400 and 600 A applications.
- ④ Distance between mounting holes is 2.34 inches (59.5 mm).
- ⑤ For non-metallic enclosures. Snaps into molded base.

#### Product Selection

Plug-On Circuit Breakers, Types BR—10/22/42 kAIC, 120 Vac, 120/240 Vac and 240 Vac

#### BR120



#### BR215



#### BR320



#### BRH2100



#### BRX2125



#### Type BR Breakers, 1-Inch (25.4 mm) per Pole 120/240, 10, 22 and 42 kAIC

Ampere Rating	Wire Size Range Cu/Al 60 °C or 75 °C	Single-Pole 120/240 Vac Requires One 1-Inch (25.4 mm) Space 10 per Shelf Carton		Two-Pole 120/240 Vac Common Trip Requires Two 1-Inch (25.4 mm) Spaces 5 per Shelf Carton		42 kAIC Catalog Number	65 kAIC Catalog Number
		10 kAIC Catalog Number	22 kAIC Catalog Number	10 kAIC Catalog Number	22 kAIC Catalog Number		
		BR110	BRH115	BR210	BRH215		
10	#14–4	BR110	—	BR210	—	—	—
15	#14–4	BR115 <sup>①②</sup>	BRH115	BR215 <sup>③</sup>	BRH215	—	—
20	#14–4	BR120 <sup>①②</sup>	BRH120	BR220 <sup>③</sup>	BRH220	—	—
25	#14–4	BR125	BRH125	BR225 <sup>③</sup>	BRH225	—	—
30	#14–4	BR130	BRH130	BR230 <sup>③</sup>	BRH230	—	—
35	#14–4	BR135	BRH135	BR235 <sup>③</sup>	BRH235	—	—
40	#14–4	BR140	BRH140	BR240 <sup>③</sup>	BRH240 <sup>③</sup>	—	—
45	#14–4	—	BRH145	BR245 <sup>③</sup>	BRH245	—	—
50	#14–4	BR150	BRH150	BR250 <sup>③</sup>	BRH250 <sup>③</sup>	—	—
55	#14–3	BR150	BRH155	BR255	BRH255	—	—
60	#8–1/0	BR160	BRH160	BR260	BRH260	BRHH260	BRX260
70	#8–1/0	BR170	BRH170	BR270	BRH270	BRHH270	BRX270
80	#8–1/0	—	—	BR280	BRH280	BRHH280	BRX280
90	#8–1/0	—	—	BR290	BRH290	BRHH290	BRX290
100	#8–1/0	—	—	BR2100	BRH2100	BRHH2100	BRX2100
110	#8–1/0	—	—	BR2110	BRH2110	BRHH2110	BRX2110
125	#4–2/0	—	—	BR2125	BRH2125	BRHH2125	BRX2125
150	#4–2/0	—	—	BR2150 <sup>④</sup>	—	—	—



#### Notes

- ① One pole, 1-inch (25.4 mm) per pole circuit breakers are available with high magnetic setting for switching large tungsten lamp loads. Add suffix H to catalog number.
- ② Switching duty rated.
- ③ On the black handle breaker, add suffix “B” to the catalog number to obtain a tapped molded opening for proper use with hold-down kits.
- ④ For use as a branch circuit breaker in 400 and 600 ampere panels only.

All Type BR single-, two- and three-pole circuit breakers carry listing for HACR application. For circuit breakers with a shunt trip, add ST suffix.