

# 1.2

## Loadcenters and Circuit Breakers

### Type BR Loadcenters and Circuit Breakers

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**Convertible Loadcenters MCB or MLO—Base Units and Main Devices 10/22/25 kAIC, Complete Assembly Consists of: Loadcenter and Either Main Breaker Kit or Main Lug Kit**

**Note:** Interrupting rating depends on main circuit breaker selected.

BW2200



#### Main Devices—Two- and Three-Pole Main Circuit Breakers—120/240 Vac or 208Y/120 Vac or 240 Vac

| Ampere Rating     | Wire Size Range Cu/Al 60 °C or 75 °C for Main Breaker | 10 kAIC Catalog Number | 22/25 kAIC Catalog Number <sup>①</sup> |
|-------------------|---|------------------------|--|
| <b>Two-Pole</b>   |   |                        |  |
| 100               | #4–1/0  | BR2100                 | BRH2100                                |
| 110               | #4–1/0  | BR2110                 | BRH2110                                |
| 125               | #4–2/0  | BR2125                 | BRH2125                                |
| 125               | #2–300 kcmil  | BW2125                 | CSR2125N                               |
| 150               | #2–300 kcmil  | BW2150                 | CSR2150N                               |
| 175               | #2–300 kcmil  | BW2175                 | CSR2175N                               |
| 200               | #2–300 kcmil  | BW2200                 | CSR2200N                               |
| <b>Three-Pole</b> |   |                        |  |
| 100               | #1  | BR3100                 | BRH3100                                |

BRL200



#### Main Devices—Two- and Three-Pole Main Lug Kits—120/240 Vac or 208Y/120 Vac or 240 Vac

| Ampere Rating     | Wire Size Range Cu/Al 60 °C or 75 °C for Main Lugs | Catalog Number |
|-------------------|--|----------------|
| <b>Two-Pole</b>   |  |                |
| 125               | #6–2/0   | BRSF125        |
| 150               | #1–300 kcmil                                       | BRL200         |
| 175               | #1–300 kcmil                                       | BRL200         |
| 200               | #1–300 kcmil                                       | BRL200         |
| <b>Three-Pole</b> |  |                |
| 150               | #6–3/0   | 3BRSF150       |

#### Main Circuit Breaker with Accessory

Example: BW22005R01 (Put description with catalog number on order. See **Page V1-T1-93.**)

### Main Circuit Breaker Loadcenters—Copper Bus 10/22/25 kAIC

BRP20BC100



#### Main Circuit Breaker Loadcenters—With Copper Bus—Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral

| Main Breaker Type        | Main Ampere Rating | Maximum Number 1-Inch (25.4 mm) Space Circuits |    | Enclosure Type | Box Size | Wire Size Range Cu/Al 60 °C or 75 °C for Main Breaker | Loadcenter Catalog Number with Combination Cover <sup>②③④</sup> |
|--------------------------|--------------------|--|----|----------------|----------|---|---|
| BR 10 kAIC               | 100                | 20   | 40 | Indoor         | X3       | #4–1/0  | BRP20BC100  |
|                          |                    | 30   | 60 | Indoor         | X6       | #4–1/0  | BRP30BC100  |
|                          | 125                | 30   | 60 | Indoor         | X6       | #4–1/0  | BRP30BC125  |
| BRH 22 kAIC <sup>⑤</sup> | 100                | 20   | 40 | Indoor         | X3       | #4–1/0  | BRP20HC100  |
|                          |                    | 30   | 60 | Indoor         | X5       | #4–1/0  | BRP30HC100  |
| CSR 25 kAIC              | 150                | 30   | 60 | Indoor         | X6       | #2–300 kcmil  | BRP30BC150  |
|                          | 200                | 20   | 40 | Indoor         | X3       | #2–300 kcmil  | BRP20BC200  |
|                          |                    | 30   | 60 | Indoor         | X6       | #2–300 kcmil  | BRP30BC200  |
|                          |                    | 40   | 80 | Indoor         | X8       | #2–300 kcmil  | BRP40BC200  |
|                          | 225                | 42   | 84 | Indoor         | X9       | #1–250 kcmil  | BRP42BC225  |

### Main Lug Only Loadcenters—Copper Bus

BRP42LC225



#### Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Single Neutral with Copper Bus

| Main Breaker Type | Maximum Number 1-Inch (25.4 mm) Space Circuits |    | Enclosure Type | Box Size | Wire Size Range Cu/Al 60 °C or 75 °C for Main Breaker | Loadcenter Catalog Number with Combination Cover <sup>②③</sup> |
|-------------------|--|----|----------------|----------|---|--|
| 225               | 42   | 84 | Indoor         | X8       | #1–300 kcmil  | BRP42LC225 <sup>④</sup>  |
|                   | 42   | 84 | Indoor         | X8       | #1–300 kcmil  | BRP42LC225G <sup>⑥</sup>                                       |

#### Notes

- ① Series combination rating with Types BD, BR, BQ, BQC and ETN01 is 22 kAIC with BRH main and 25 kAIC with CSR main.
- ② All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with neutral bonding screw preattached.
- ③ The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
- ④ Ground bar kits priced separately. See **Page V1-T1-72.**
- ⑤ 22 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and ETN01 10 kAIC branch breakers are used in series with Type BRH main breaker.
- ⑥ Includes ground bar.

Box sizes **Pages V1-T1-78** through **V1-T1-82.**

## 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<br>Rating | Wire Size<br>Range<br>Cu/Al 60 °C<br>or 75 °C | Single-Pole 120/240 Vac<br>Requires One<br>1-Inch (25.4 mm) Space |                              | Two-Pole 120/240 Vac<br>Common Trip Requires Two<br>1-Inch (25.4 mm) Spaces |                              |  |                              |                              |
|------------------|---|---|------------------------------|---|------------------------------|---|------------------------------|------------------------------|
|                  |   | 10 per Shelf Carton   |                              | 5 per Shelf Carton  |                              |   |                              |                              |
|                  |   | 10 kAIC<br>Catalog<br>Number                                      | 22 kAIC<br>Catalog<br>Number | 10 kAIC<br>Catalog<br>Number  | 22 kAIC<br>Catalog<br>Number | 22 kAIC<br>Catalog<br>Number ⑤  | 42 kAIC<br>Catalog<br>Number | 65 kAIC<br>Catalog<br>Number |
| 10               | #14–4   | BR110   | —                            | BR210   | —                            | —   | —                            | —                            |
| 15               | #14–4   | BR115 ①②  | BRH115                       | BR215 ③   | BRH215                       | —   | —                            | —                            |
| 20               | #14–4   | BR120 ①②  | BRH120                       | BR220 ③   | BRH220                       | —   | —                            | —                            |
| 25               | #14–4   | BR125   | BRH125                       | BR225 ③   | BRH225                       | —   | —                            | —                            |
| 30               | #14–4   | BR130   | BRH130                       | BR230 ③   | BRH230                       | —   | —                            | —                            |
| 35               | #14–4   | BR135   | BRH135                       | BR235 ③   | BRH235                       | —   | —                            | —                            |
| 40               | #14–4   | BR140   | BRH140                       | BR240 ③   | BRH240 ③                     | —   | —                            | —                            |
| 45               | #14–4   | —   | BRH145                       | BR245 ③   | BRH245                       | —   | —                            | —                            |
| 50               | #14–4   | BR150   | BRH150                       | BR250 ③   | BRH250 ③                     | —   | —                            | —                            |
| 55               | #14–3   | BR150   | BRH155                       | BR255   | BRH255                       | —   | —                            | —                            |
| 60               | #8–1/0  | BR160   | BRH160                       | BR260   | BRH260                       | BRHX260   | BRHH260                      | BRX260                       |
| 70               | #8–1/0  | BR170   | BRH170                       | BR270   | BRH270                       | BRHX270   | BRHH270                      | BRX270                       |
| 80               | #8–1/0  | —   | —                            | BR280   | BRH280                       | BRHX280   | BRHH280                      | BRX280                       |
| 90               | #8–1/0  | —   | —                            | BR290   | BRH290                       | BRHX290   | BRHH290                      | BRX290                       |
| 100              | #8–1/0  | —   | —                            | BR2100  | BRH2100                      | BRHX2100  | BRHH2100                     | BRX2100                      |
| 110              | #8–1/0  | —   | —                            | BR2110  | BRH2110                      | BRHX2110  | BRHH2110                     | BRX2110                      |
| 125              | #4–2/0  | —   | —                            | BR2125  | BRH2125                      | BRHX2125  | BRHH2125                     | BRX2125                      |
| 150              | #4–2/0  | —   | —                            | BR2150 ④  | —                            | —   | —                            | —                            |

## 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.
- ⑤ System series rating of 65 kAIC upstream when used in series with 22 kAIC BRHX breakers.

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.