

# I-Line™ Circuit Breaker Panelboards

## Class 2110

## Catalog

2110CT9701  
R02/2020



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# Table of Contents

|                                                           |    |
|-----------------------------------------------------------|----|
| Product Description .....                                 | 5  |
| Standards .....                                           | 5  |
| Service .....                                             | 6  |
| Panelboard Types .....                                    | 7  |
| Enclosure Types .....                                     | 8  |
| Main Breaker Panelboards .....                            | 9  |
| Main Lugs Only Panelboards .....                          | 9  |
| Solid Neutral .....                                       | 9  |
| Features and Benefits .....                               | 10 |
| Circuit Breakers .....                                    | 10 |
| Circuit Breaker Mounting .....                            | 10 |
| Push-to-Trip .....                                        | 10 |
| Blow-On Connections .....                                 | 11 |
| Short Circuit Current Rating (SCCR) .....                 | 11 |
| I-Line Plug-on Unit with SurgeLogic™ SPD .....            | 11 |
| Accessories .....                                         | 12 |
| Equipment Ground Bars .....                               | 12 |
| Box Extensions .....                                      | 12 |
| Blank Fillers .....                                       | 12 |
| Backfed Main Breaker Barriers .....                       | 12 |
| General and Application Information .....                 | 13 |
| Circuit Breaker Terminal Data .....                       | 14 |
| Circuit Breaker Accessories .....                         | 15 |
| Plug-On Lugs Terminal Data .....                          | 15 |
| Plug-On QO™ Distribution Panel (Catalog No. HQO306) ..... | 16 |
| QO Distribution Panel Branch Circuit Breakers .....       | 16 |
| Circuit Breaker Types .....                               | 17 |
| Dimensions .....                                          | 19 |
| Type HCJ—800 A Maximum Main Lugs .....                    | 19 |
| Type HCJ 400 A Maximum Main Circuit Breaker .....         | 21 |
| Type HCJ—800 A Maximum Main Circuit Breaker .....         | 23 |
| Type HCP—800 A Maximum Main Lugs .....                    | 25 |
| Type HCP—1200 A Maximum Main Lugs .....                   | 27 |
| Type HCP—800 A Maximum Main Circuit Breaker .....         | 29 |
| Type HCP-SU—800 A Maximum Main Circuit Breaker .....      | 31 |
| Type HCR-U—1200 A Main Lugs or Main Circuit Breaker ..... | 33 |



## Product Description

**Type HCR-U—  
1200 A Main  
Circuit Breaker**



Square D™-brand I-Line™ circuit breaker power distribution panelboards are for use on AC or DC systems. The panels, labeled cULus (compliance to UL and CSA standards certified by UL) are also Underwriters Laboratories® (UL®) Listed under File E33139. The following are suitable for use as service entrance equipment:

- All main circuit breaker panelboards.
- All main lugs panelboards with branch-mounted, back-fed main circuit breaker. (For Canadian MLO service entrance, use HCP-SU and HCR-U only).
- All main lugs panelboards with six disconnects or less.
- A solid neutral that is insulated, but may be bonded to the box with a grounding strap.
- Service entrance panelboards meeting the requirements of CSA are available in Canada factory-assembled only.

I-Line circuit breaker panelboards are available as 400–1200 A main lugs only and 100–1200 A main circuit breakers. I-Line panelboards are designed to accept the following circuit breakers: FA, FH, BD, BG, BJ, BK, HD, HG, HJ, HL, HR, QB, QD, QG, QJ, JD, JG, JJ, JL, JR, LA, LD, LG, LJ, LH, LL, LR, MG, MJ, PG, PJ, PK, PL, RG, RJ, RK, and RL.

## Standards

**Type HCR-U—  
1200 A  
Main Circuit Breaker**



I-Line circuit breaker panelboards are designed, manufactured, and tested to comply with the following standards:

| Standard                       | Description                                       |
|--------------------------------|---------------------------------------------------|
| UL 50                          | Standard for enclosures for electrical equipment  |
| UL 67                          | Standard for panelboards                          |
| CSA C22.2, Nos. 29 and 94—1989 | Standard for panelboards and enclosed panelboards |
| NFPA 70                        | National Electrical Code (NEC)                    |
| NEMA PB 1                      | Standard for panelboards                          |
| W-P 115C Type 1 Class 1        | Specification for circuit breaker panelboards     |
| 2000 IBC                       | US standard for seismic requirements              |
| 1995 NBCC                      | Canadian standard for seismic requirements        |

## Service

I-Line circuit breaker panelboards can be used on the following system voltages:

- 120/240 Vac; 1-phase, 3-wire
- 240 Vac; 1-phase, 2-wire
- 240 Vac; 3-phase, 3-wire
- 240 Vac Ground, B-phase; 3-phase, 3-wire
- 208Y/120 Vac; 3-phase, 4-wire
- 480Y/277 Vac; 3-phase, 4-wire
- 480 Vac; 3-phase, 3-wire
- 600Y/347 Vac; 3-phase, 4-wire
- 600 Vac; 3-phase, 3-wire
- 125/250 Vdc; 3-wire
- 250 Vdc; 2-wire

## Panelboard Types

**Type HCP—600 A  
Main Circuit Breaker**



| Panel-board Type | Maximum Mains Ampacity |                       | Maximum Branch Circuit Breaker Frame Size <sup>1</sup> |       | Enclosure Dimensions <sup>2</sup> |      |                    |     |
|------------------|------------------------|-----------------------|--------------------------------------------------------|-------|-----------------------------------|------|--------------------|-----|
|                  | Main Lugs              | Main Circuit Breakers | Left                                                   | Right | Width                             |      | Depth <sup>3</sup> |     |
|                  |                        |                       |                                                        |       | in.                               | mm   | in                 | mm  |
| HCJ              | 800 A                  | 800 A                 | JD                                                     | JD    | 32.00                             | 813  | 9.50               | 241 |
| HCP-SU           | 800 A                  | 800 A <sup>3</sup>    | MG, PG                                                 | None  | 26.00                             | 600  | 9.50               | 241 |
| HCP              | 1200 A                 | 800 A <sup>3</sup>    | MG, PG                                                 | JD    | 42.00                             | 1067 | 9.50               | 241 |
| HCR-U            | 1200 A                 | 1200 A <sup>3</sup>   | RG                                                     | JD    | 44.00                             | 1118 | 9.50               | 241 |

**Type HCP-SU 800 A Main  
Circuit Breaker**



**Type HCJ—400 A Main Lugs**



1. For a complete listing of applicable circuit breaker types, refer to Dimensions, page 19.
2. Refer to Dimensions, page 19 for standard panelboard heights.
3. Available as a main circuit breaker panelboard when provided with a branch mounted back-fed main circuit breaker.

## Enclosure Types

**Types 1 and 2  
Enclosure with  
Optional Door**



**Flush  
Lock  
used on  
HCP, and  
HCP-SU  
Types 1  
and 2  
Fronts  
(Catalog  
No.  
PK4FL)**



**Sliding  
Vault  
Lock  
used on  
HCP, and  
HCR-U  
Types 1  
and 2  
Fronts  
(Catalog  
No.  
PK5FL)**



| Types               | Environments   | Provides Protection Against                      |
|---------------------|----------------|--------------------------------------------------|
| Type 1              | Indoor         | Contact with the enclosed equipment              |
| Type 2              | Indoor         | Falling water and dirt                           |
| Type 3R             | Outdoor        | Falling rain, sleet; undamaged by ice            |
| Type 4/4X Stainless | Indoor/Outdoor | Corrosion, hose-directed water, dust             |
| Type 5              | Indoor         | Settling dust, falling dirt, dripping liquids    |
| Type 12             | Indoor         | Circulating dust, falling dirt, dripping liquids |

|                                             |                                                                                             |                                                                                                                                                                                  |
|---------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type 1 Enclosures                           | Fronts:                                                                                     | HCJ, HCP, HCP-SU, and HCR-U surface and flush trims available as four-piece construction, standard (door not included). An optional four-piece trim with door is also available. |
|                                             |                                                                                             | Finished with gray-baked enamel electrodeposited over cleaned phosphatized steel (ANSI 49).                                                                                      |
|                                             |                                                                                             | Directory card holders provided with all fronts.                                                                                                                                 |
|                                             | Boxes:                                                                                      | Galvanized steel in 26, 32, 42, and 44-inch (660, 813, 1067, and 1118 mm) widths.                                                                                                |
| Removable endwalls without knockouts.       |                                                                                             |                                                                                                                                                                                  |
| Type 3R, 5, and 12 Enclosures               | Gasketed door with vault handle and directory card holder.                                  |                                                                                                                                                                                  |
|                                             | Three-point latching.                                                                       |                                                                                                                                                                                  |
|                                             | End and side gutter trim.                                                                   |                                                                                                                                                                                  |
|                                             | No knockouts.                                                                               |                                                                                                                                                                                  |
|                                             | Removable drain screw for Type 3R.                                                          |                                                                                                                                                                                  |
|                                             | Finished with gray-baked enamel electrodeposited over cleaned phosphatized steel (ANSI 49). |                                                                                                                                                                                  |
| Type 4X Enclosures (Factory-Assembled Only) | Corrosion-resistant, stainless steel.                                                       |                                                                                                                                                                                  |
|                                             | Watertight and dusttight.                                                                   |                                                                                                                                                                                  |
|                                             | Gasketed door.                                                                              |                                                                                                                                                                                  |
|                                             | Directory card located on inside of door.                                                   |                                                                                                                                                                                  |

**Type 3R, 5, and 12 Enclosures**



**Type 3R, 5, and 12 Enclosures**



**Vault Handle used on all Type  
3R, 5, and 12 Enclosures  
(Catalog No. PK4NVL)**



## Main Breaker Panelboards

**Main Circuit Breaker  
and Solid Neutral  
Compartment  
(Canada service  
entrance not shown)**



- Accept a maximum 1200 A, 80% or 100% rated main breaker.
- Available factory-assembled or merchandised.
- Factory-assembled main circuit breaker interiors are available bottom-feed or top-feed.
- Suitable for use as service entrance equipment with appropriate barriers, US and Canada.
- Accepts mechanically restrained I-Line circuit breakers.
- Available with a short circuit current rating (SCCR) up to 200 kA maximum (100 kA @ 600 Vac) when supplied by an I-Limiter™ circuit breaker.
- Available with a silver-plated or tin-plated copper bus, or tin-plated aluminum bus.
- Solid neutral is mounted in the mains compartment with the main circuit breaker.
- Merchandised panelboards are provided as bottom-feed.

## Main Lugs Only Panelboards

**Main Lug and Solid  
Neutral  
Compartment**

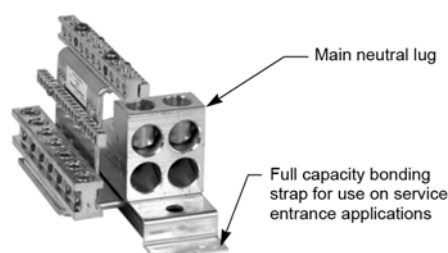


- Available with main lug only interiors rated up to 1200 A.
- Available factory-assembled or merchandised.
- Suitable for use as service entrance equipment when provided with a main circuit breaker, US and Canada.
- Accepts mechanically restrained I-Line circuit breakers.
- Available with a short circuit current rating (SCCR) up to 200 kA maximum (100 kA @ 600 Vac) when supplied by an I-Limiter circuit breaker.
- Available with a silver-plated or tin-plated copper bus, or tin-plated aluminum bus.
- Solid neutral is mounted in the mains compartment with the main lugs.
- Hinged cover, isolated main lugs compartment.
- Main lug interiors are available as top-feed or bottom-feed.

## Solid Neutral

- Mounts in main lug or main circuit breaker compartment.
- Does not take up interior circuit breaker mounting space.
- UL/CSA Listed for use with Al or Cu conductors.
- Copper or aluminum neutral available.
- 200% rated neutral available as a factory-assembled option.

**Typical Solid Neutral**



**Neutral with C/T for Use on HCR-U  
When Ground-Fault Protection is  
Required (Catalog No. HCR12SNCT)**



# Features and Benefits

Featured below are just a few of the many features and benefits of Square D™ brand I-Line™ circuit breaker panelboards.

## Circuit Breakers

I-Line circuit breakers, with their exclusive bus connection design, provide superior reliability and performance advantages.

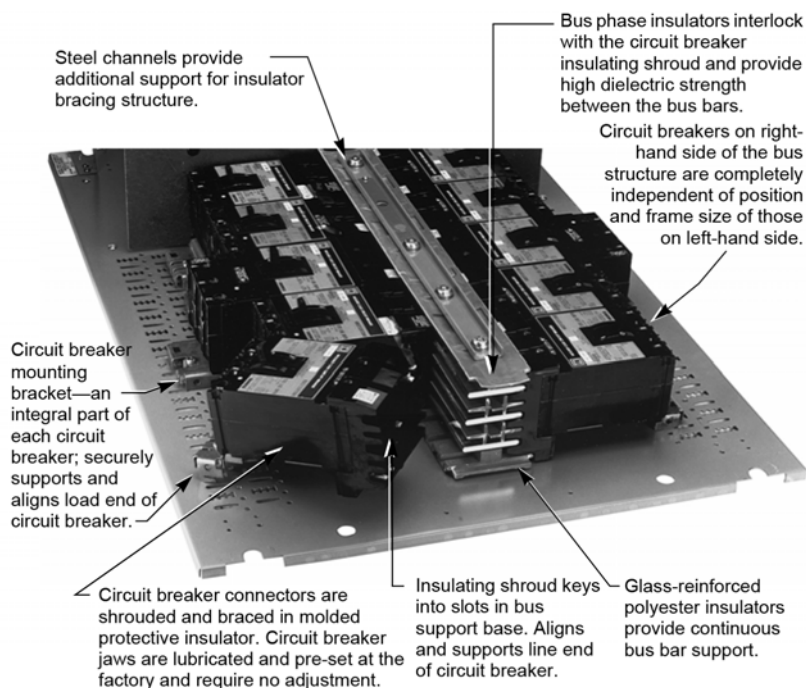
### Circuit Breaker Mounting

#### Ratchet-Type Mounting



- 15–1200 A frame circuit breakers require only a screwdriver and are firmly attached to the bus stack and mechanically attached to the interior assembly.
- The connectors are an integral part of the I-Line circuit breaker—eliminating the assembly of connectors to the bus bar.
- Pre-assembled hardware means reduced installation time.
- The unique line side connection requires no routine maintenance.

#### I-Line Bus Structure and Circuit Breaker Mounting

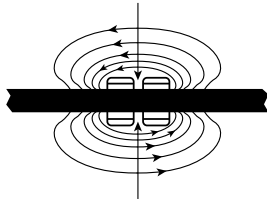


### Push-to-Trip

Push-to-trip is a standard feature on all I-Line circuit breakers. It is useful for checking circuit breaker operation and for testing auxiliary devices. The circuit breaker is mechanically tripped by pressing the push-to-trip button in the circuit breaker case.

## Blow-On Connections

### Blow-On Connections



All circuit breaker connections are “blow-on” type. Under high-level short circuit conditions, the magnetic forces developed tend to draw the connector jaws together, gripping the I-Line bus bar more firmly.

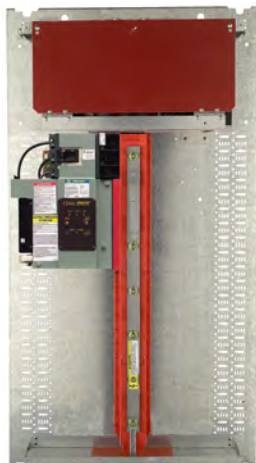
## Short Circuit Current Rating (SCCR)

- SCCR is equal to the lowest interrupting capacity of a branch or main circuit breaker installed in the panelboard.
- I-Line panelboards, with branch circuit breakers installed, are short-circuit tested as complete units.
- All tests are conducted in accordance with UL 67 and CSA C22.2 (Standards for Panelboards).

With I-Limiter main circuit breaker, I-Line main circuit breaker panelboards are UL/CSA Listed for use on systems with up to a 200,000 maximum RMS symmetrical amperes available fault current (100 kA @ 600 Vac).

## I-Line Plug-on Unit with Surgeloc™ SPD

### I-Line Plug-on Unit with Surgeloc SPD



- SPD requires no wiring or conduit, saving labor time and materials.
- Bus-connected design enhances performance.
- Meets the requirements of UL and CSA for retrofit applications in existing I-Line panelboards and switchboards.
- Integrated and circuit breaker disconnects feature compact design, requiring only 13.50 inches (343 mm) of branch mounting space.
- SCCR up to 200 kA rating (100 kA @ 600 Vac) meets a wide variety of customer applications.

## Accessories

A wide variety of accessories are available for field or factory installation of I-Line panelboards.

### Equipment Ground Bars

**Equipment Ground Bar**  
(Catalog No.  
PK32DGTA)

Equipment ground bars mount in the panelboard box to provide convenient termination of equipment grounding conductors. They are available in copper or aluminum.



### Box Extensions

**Typical Box Extensions**

Box extensions provide additional end gutter for feeding cables into the end of the cabinet; they are UL/CSA Listed.



### Blank Fillers

**Blank Fillers**  
(Catalog Nos.  
HNM4BL and HNM1BL)

Blank fillers are required to cover unused mounting space in I-Line panelboards.



### Backfed Main Breaker Barriers

Primarily for use in Canada, these barriers provide additional protection for backfed main breakers.

# General and Application Information

Please refer to Digest Section 9 for circuit breaker ratings information.

| Circuit Breaker Frame Type | Maximum Voltage Rating | Number of Poles | Cont. Ampere Rating | UL/CSA Interrupting Rating—RMS Amperes (Symmetrical) |                   |       |       |          |      |
|----------------------------|------------------------|-----------------|---------------------|------------------------------------------------------|-------------------|-------|-------|----------|------|
|                            |                        |                 |                     | AC Volts, 50/60 Hz                                   |                   |       |       | DC Volts |      |
|                            |                        |                 |                     | 120                                                  | 240               | 480   | 600   | 125      | 250  |
| FA 240 V                   | 240                    | 2               | 15–100              | 10 K                                                 | 25 K              | —     | —     | —        | 5 K  |
|                            |                        | 3               |                     |                                                      |                   |       |       |          |      |
| FA 480 V                   | 277                    | 1               | 35–100              | 25 K                                                 | 25 K              | 18 K  | —     | 10 K     | 10 K |
|                            | 480                    | 2               | 15–100              |                                                      |                   |       |       |          |      |
|                            |                        | 3               |                     |                                                      |                   |       |       |          |      |
| FH <sup>4</sup>            | 277                    | 1               | 15–30               | 65 K                                                 | 65 K <sup>5</sup> | 25 K  | —     | 10 K     | —    |
|                            | 600                    | 2, 3            | 35–100              |                                                      | 25 K <sup>5</sup> |       |       |          |      |
|                            |                        |                 |                     | 15–100                                               | —                 | —     | —     | 18 K     | —    |
| BD                         | 600 Y                  | 1, 2, 3         | 15–125              | 25 K                                                 | 25 K              | 18 K  | 14 K  | —        | —    |
| BG                         | 600 Y                  | 1, 2, 3         | 15–125              | 65 K                                                 | 65 K              | 35 K  | 18 K  | —        | —    |
| BJ                         | 600 Y                  | 1, 2, 3         | 15–125              | 100 K                                                | 100 K             | 65 K  | 25 K  | —        | —    |
| BK                         | 600 Y                  | 1, 2            | 15–30               | 100 K                                                | 100 K             | 65 K  | 65 K  | —        | —    |
| HD                         | 600                    | 2, 3            | 15–150              | 25 K                                                 | 25 K              | 18 K  | 14 K  | 20 K     | 20 K |
| HG                         | 600                    | 2, 3            | 15–150              | 65 K                                                 | 65 K              | 35 K  | 18 K  | 20 K     | 20 K |
| HJ                         | 600                    | 2, 3            | 15–150              | 100 K                                                | 100 K             | 65 K  | 25 K  | 20 K     | 20 K |
| HL                         | 600                    | 2, 3            | 15–150              | 125 K                                                | 125 K             | 100 K | 50 K  | 20 K     | 20 K |
| HR                         | 600                    | 3               | 15–150              | 200 K                                                | 200 K             | 200 K | 100 K | —        | —    |
| QB                         | 240                    | 2, 3            | 70–225              | 10 K                                                 | 10 K              | —     | —     | —        | —    |
| QD                         | 240                    | 2, 3            | 70–225              | 25 K                                                 | 25 K              | —     | —     | —        | —    |
| QG                         | 240                    | 2, 3            | 70–225              | 65 K                                                 | 65 K              | —     | —     | —        | —    |
| QJ <sup>6</sup>            | 240                    | 2, 3            | 70–225              | 100 K                                                | 100 K             | —     | —     | —        | —    |
| JD                         | 600                    | 2, 3            | 150–250             | 25 K                                                 | 25 K              | 18 K  | 14 K  | 20 K     | 20 K |
| JG                         | 600                    | 2, 3            | 150–250             | 65 K                                                 | 65 K              | 35 K  | 18 K  | 20 K     | 20 K |
| JJ                         | 600                    | 2, 3            | 150–250             | 100 K                                                | 100 K             | 65 K  | 25 K  | 20 K     | 20 K |
| JL                         | 600                    | 2, 3            | 150–250             | 125 K                                                | 125 K             | 100 K | 50 K  | 20 K     | 20 K |
| JR                         | 600                    | 2, 3            | 150–250             | 200 K                                                | 200 K             | 200 K | 100 K | —        | —    |
| LA                         | 600                    | 2, 3            | 125–400             | 42 K                                                 | 42 K              | 30 K  | 22 K  | 10 K     | 10 K |
| LH <sup>4</sup>            | 600                    | 2, 3            | 125–400             | 65 K                                                 | 65 K              | 35 K  | 25 K  | —        | 50 K |
| LD                         | 600                    | 2, 3            | 250–600             | 25 K                                                 | 25 K              | 18 K  | 14 K  | —        | —    |
| LG                         | 600                    | 2, 3            | 250–600             | 65 K                                                 | 65 K              | 35 K  | 18 K  | —        | 20 K |
| LJ                         | 600                    | 2, 3            | 250–600             | 100 K                                                | 100 K             | 65 K  | 25 K  | —        | —    |
| LL                         | 600                    | 2, 3            | 250–600             | 125 K                                                | 125 K             | 100 K | 50 K  | —        | 20 K |
| LR                         | 600                    | 2, 3            | 250–600             | 200 K                                                | 200 K             | 200 K | 100 K | —        | —    |
| MG                         | 600                    | 2, 3            | 300–800             | 65 K                                                 | 65 K              | 35 K  | 18 K  | —        | —    |
| MJ                         | 600                    | 2, 3            | 300–800             | 100 K                                                | 100 K             | 65 K  | 25 K  | —        | —    |
| PG                         | 600                    | 2, 3            | 600–1200            | 65 K                                                 | 65 K              | 35 K  | 18 K  | —        | —    |

4. Separate UL rating available for 240 V and 480 V grounded B phase systems. Circuit breakers must be ordered with 5861 suffix.

5. 277 Vac rated.

6. QJ 3-pole is rated 100 KA@208Y/120 Vac.

| Circuit Breaker Frame Type | Maximum Voltage Rating | Number of Poles | Cont. Ampere Rating | UL/CSA Interrupting Rating—RMS Amperes (Symmetrical) |       |       |      |          |     |
|----------------------------|------------------------|-----------------|---------------------|------------------------------------------------------|-------|-------|------|----------|-----|
|                            |                        |                 |                     | AC Volts, 50/60 Hz                                   |       |       |      | DC Volts |     |
|                            |                        |                 |                     | 120                                                  | 240   | 480   | 600  | 125      | 250 |
| PJ                         | 600                    | 2, 3            | 600–1200            | 100 K                                                | 100 K | 65 K  | 25 K | —        | —   |
| PK <sup>7</sup>            | 600                    | 2, 3            | 600–1200            | 65 K                                                 | 65 K  | 50 K  | 50 K | —        | —   |
| PL                         | 480                    | 2, 3            | 600–1200            | 125 K                                                | 125 K | 100 K | 25 K | —        | —   |
| RG                         | 600                    | 2, 3            | 1000–1200           | 65 K                                                 | 65 K  | 35 K  | 18 K | —        | —   |
| RJ                         | 600                    | 2, 3            | 1000–1200           | 100 K                                                | 100 K | 65 K  | 25 K | —        | —   |
| RK <sup>7</sup>            | 600                    | 2, 3            | 1000–1200           | 65 K                                                 | 65 K  | 65 K  | 65 K | —        | —   |
| RL                         | 600                    | 2, 3            | 1000–1200           | 125 K                                                | 125 K | 100 K | 50 K | —        | —   |

**NOTE:** 15 and 20 A are Switching Duty rated (SWD).

**NOTE:** FG and FJ 600Y/347 Vac @ 15–30 A only.

## Circuit Breaker Terminal Data

| Circuit Breaker              | Frame Size | Ampere Rating | Terminal Lug Wire Size                     |
|------------------------------|------------|---------------|--------------------------------------------|
| FA                           | 100 A      | 15–30         | #14-#4 Cu or #12-#4 Al                     |
| FA                           | 100 A      | 35–100        | #14-1/0 Cu or #12-1/0 Al                   |
| FH                           | 100 A      | 15–30         | #14-#4 Cu or #12-#4 Al                     |
| FH                           | 100 A      | 35–100        | #14-1/0 Cu or #12-1/0 Al                   |
| BD, BG, BJ                   | 125 A      | 15–125        | #14-2/0 Al/Cu                              |
| BK                           | 125 A      | 15–30         | #14-2/0 Al/Cu                              |
| HD, HG, HJ, HL, HR           | 150 A      | 15–150        | #14-3/0 Al/Cu                              |
| QB, QB, QG, QJ               | 225 A      | 70–225        | #4-300 kcmil Al/Cu                         |
| JD, JG, JJ, JL               | 250 A      | 150–175       | #4/0 Al/Cu                                 |
| JD, JG, JJ, JL, JR           | 250 A      | 200–250       | #3/0-350 kcmil Al/Cu                       |
| LA, LH                       | 400 A      | 125–400       | (1) #1-600 kcmil or (2) #1-250 kcmil Al/Cu |
| LD, LG, LJ, LL, LR           | 400 A      | 250           | (1) #2-600 kcmil CU or (1) #2-500 kcmil AL |
| LD, LG, LJ, LL, LR           | 600 A      | 400–600       | (2) #2-500kcmil AL/CU                      |
| MG, MJ                       | 800 A      | 300–800       | (3) 3/0-500 kcmil Al/Cu                    |
| PG, PJ, PK <sup>8</sup> , PL | 1200 A     | 250–800       | (3) 3/0-500 kcmil Al/Cu                    |
| PG, PJ, PK <sup>8</sup> , PL | 1200 A     | 1000–1200     | (4) 3/0-500 kcmil Al/Cu                    |
| RG, RJ, RK <sup>8</sup> , RL | 1200 A     | 1000–1200     | (4) 3/0-600 kcmil Al/Cu                    |

**NOTE:** Lugs are rated for 75°C wire, except FA (15–30 A) and FI (20–30 A), which are rated for 60/75°C. Torque values are listed on the circuit breaker faceplate tables.

7. Canada Only.  
8. Canada only.

## Circuit Breaker Accessories

- Shunt trip
- Undervoltage trip
- Alarm switch
- Auxiliary contacts
- Ground-fault shunt trip

**NOTE:** All accessories, except for the Ground-fault shunt trip are fieldinstallable for LA, LH circuit breakers.

For detailed information on circuit breakers and accessories, refer to the Digest.

| Circuit Breaker              | Class |
|------------------------------|-------|
| HD, HG, HJ, HL               | 611   |
| QB, QD, QG, QJ               | 734   |
| JD, JG, JJ, JL               | 611   |
| LA, LH                       | 660   |
| MG, MJ                       | 612   |
| PG, PJ, PK <sup>9</sup> , PL | 612   |
| RG, RJ, RK <sup>9</sup> , RL | 612   |

## Plug-On Lugs Terminal Data

Plug-On Lugs



| Amperage Rating      | Frame Size | Catalog No. | Terminal Lug Wire Size                             |
|----------------------|------------|-------------|----------------------------------------------------|
| 250 A                | 250 A      | SL250       | (1) #4-300 kcmil Al/Cu                             |
| 400 A                | 400 A      | SL400       | (1) #1-600 kcmil Al/Cu or (2) #1-250 kcmil Al/Cu   |
| 800 A                | 800 A      | SL800M5     | (3) 3/0 AWG-500 kcmil                              |
| 1200 A               | 1200 A     | SL1200P5    | (4) 3/0 AWG-500 kcmil                              |
| 1200 A               | 1200 A     | SL1200P6    | (3) 350-600 kcmil                                  |
| 1200 A               | 1200 A     | SL1200P7    | (3) 3/0 AWG-750 kcmil (750 kcmil: Compact Al only) |
| 1200 A <sup>10</sup> | 1200 A     | S33930      | (4) 3/0-600 kcmil Al/Cu                            |

9. Canada only.

10. For 100% rated applications ("R" frame breakers).

## Plug-On QO™ Distribution Panel (Catalog No. HQO306)

### QO with Visi-Trip™ Indicator 1-, 2-, and 3-Pole



- Six-pole, 240 Vac maximum
- Use with QO, QO-H, QO-VH, QH, and Qwik-Gard™ plug-on circuit breakers through 30 A. For detailed information, refer to DP Catalog Class 730 and 910.
- Mounts in all I-Line panelboards.

## QO Distribution Panel Branch Circuit Breakers

### Qwik-Gard Circuit Breaker with Ground Fault Circuit Interrupter



| Distribution Channel Type | Number of Poles & Amperages  |
|---------------------------|------------------------------|
| 10 k AIR, QO              | 1-Pole 10–30 A               |
|                           | 2-Pole 10–30 A               |
|                           | 3-Pole 10–30 A               |
| 10 k AIR, QO-GFI          | 1-Pole 15–30 A <sup>11</sup> |
|                           | 2-Pole 15–30 A <sup>11</sup> |
| 22 k AIR, QO-VH           | 1-Pole 15–30 A               |
|                           | 2-Pole 15–30 A               |
|                           | 3-Pole 15–30 A               |
| 22 k AIR, QO-VHGF         | 1-Pole 15–30 A <sup>11</sup> |
| 65 k AIR, QH              | 1-Pole 15–30 A               |
|                           | 2-Pole 15–30 A               |
|                           | 3-Pole 15–30 A               |

11. Maximum of three GFI-suffix circuit breakers can be installed.

## Circuit Breaker Types

**BD, BG, BJ, BK**  
1-, 2-, and 3-Pole; 15–125 A  
(BK is 15–30 A)



**QB, QD, QG, QJ**  
2- and 3-Pole; 70–225 A



**HD, HG, HJ, HL**  
2- and 3-Pole; 15–150 A



**JD, JG, JJ, JL**  
2- and 3-Pole; 150–250 A



**MG, MJ**  
2- and 3-Pole; 300–800 A



**PG, PJ, PK, PL**  
2- and 3-Pole; 250–1200 A



**RG, RJ, RK, RL**  
2- and 3-Pole; 1000–1200 A



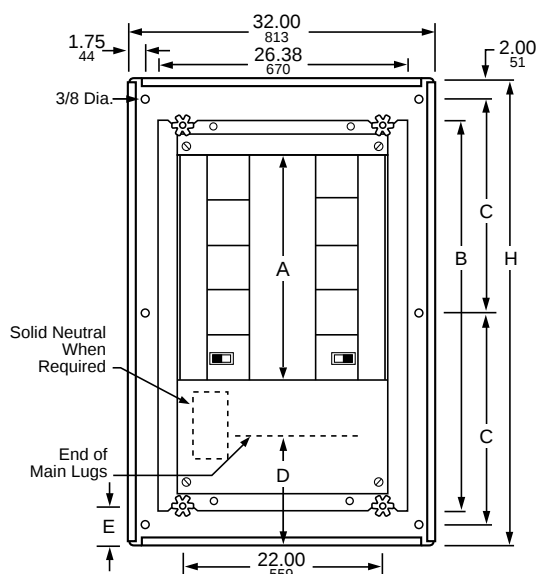
| Mains Ampere Rating                | Main Lugs                                                                       |                                                                                 | Main Circuit Breaker                             |                                                  |
|------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
|                                    | Actual Lug Size                                                                 | Cable Size Per UL/CSA Wire Bending Space                                        | Actual Lug Size                                  | Cable Size Per UL/CSA Wire Bending Space         |
| <b>Mechanical Lug Sizes</b>        |                                                                                 |                                                                                 |                                                  |                                                  |
| 100                                | —                                                                               | —                                                                               | (1) #14-1/0 Al/Cu                                | (1) #14-#1 Al/Cu                                 |
| 225                                | (1) #6-300 kcmil Al/Cu                                                          | (1) #6-300 kcmil Al/Cu                                                          | (1) #4-300 kcmil Al/Cu                           | (1) #4-300 kcmil Al/Cu                           |
| 400                                | (2) #2-600 kcmil Al/Cu                                                          | (1) #2-600 kcmil Cu or<br>(2) #2-500 kcmil Al/Cu                                | (1) #1-600 kcmil Al/Cu<br>(2) #1-250 kcmil Al/Cu | (1) #1-600 kcmil Cu or<br>(2) #1-250 kcmil Al/Cu |
| 600                                | (2) #2-600 kcmil Al/Cu                                                          | (2) #2-500 kcmil Al/Cu                                                          | (3) 3/0-500 kcmil Al/Cu                          | (3) 3/0-500 kcmil Al/Cu                          |
| 800                                | (4) 3/0-750 kcmil Al/Cu                                                         | (3) 3/0-500 kcmil Al/Cu                                                         | (4) 3/0-500 kcmil Al/Cu                          | (3) 3/0-500 kcmil Al/Cu                          |
| 1200                               | (4) 3/0-750 kcmil Al/Cu                                                         | (4) 3/0-500 kcmil Al/Cu                                                         | (4) 3/0-600 kcmil Al/Cu                          | (4) 3/0-500 kcmil Al/Cu                          |
| 100                                | —                                                                               | —                                                                               | (1) #8-1/0 Al/Cu                                 | (1) #8-#1 Al/Cu                                  |
| <b>VCEL Lug Sizes<sup>12</sup></b> |                                                                                 |                                                                                 |                                                  |                                                  |
| 225                                | (1) #4-300 kcmil Al/Cu                                                          | (1) #4-300 kcmil Al/Cu                                                          | (1) #4-300 kcmil Al/Cu                           | (1) #4-300 kcmil Al/Cu                           |
| 400                                | (1) 2/0-500 kcmil Al/Cu or<br>(1) 500-750 kcmil Al or<br>(2) #4-300 kcmil Al/Cu | (1) 2/0-500 kcmil Al/Cu or<br>(1) 500-750 kcmil Al or<br>(2) #4-250 kcmil Al/Cu | (1) 500 kcmil Cu or<br>(1) 500-750 kcmil Al      | (1) 500 kcmil Cu or<br>(1) 500-750 kcmil Al      |
| 600                                | (2) 2/0-500 kcmil Al/Cu                                                         | (2) 2/0-500 kcmil Al/Cu                                                         | (2) 2/0-500 kcmil Al/Cu                          | (2) 2/0-500 kcmil Al/Cu                          |
| 800                                | (3) 2/0-500 kcmil Al/Cu                                                         | (3) 2/0-500 kcmil Al/Cu                                                         | (2) 500 kcmil Cu or<br>(2) 500-750 kcmil Al      | (2) 500 kcmil Cu or<br>(2) 500-750 kcmil Al      |
| 1200                               | (4) 500 kcmil Cu or<br>(4) 500-750 kcmil Al                                     | (4) 500 kcmil Cu or<br>(4) 600 kcmil Al                                         | —                                                | —                                                |

**NOTE:** All lugs are suitable for 75°C wire. Torque values are included on the neutral diagram.

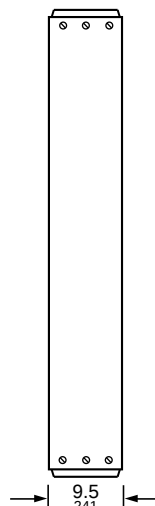
12. Compression lugs vary depending on interior type used; contact your local Schneider Electric sales office for assistance.

# Dimensions

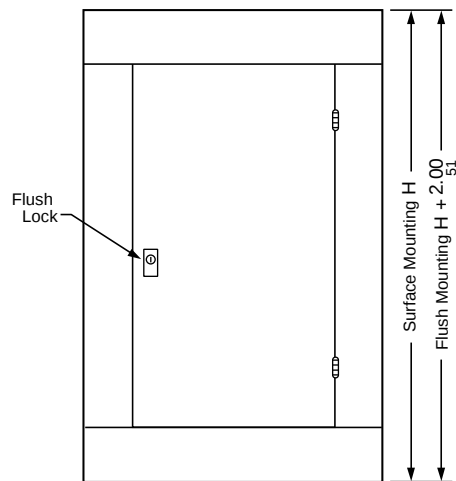
## Type HCJ—800 A Maximum Main Lugs



Typical Box with Interior



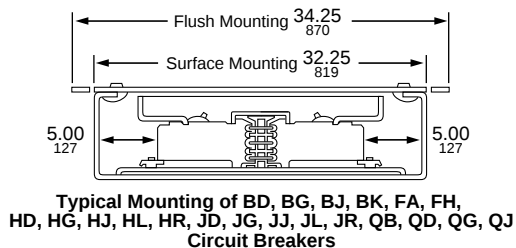
Typical Box Side View



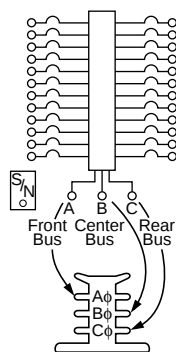
Typical 4-Piece Trim with Optional Door



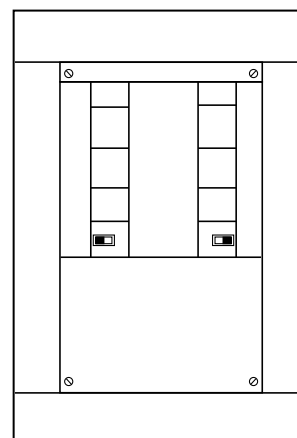
Typical Endwall



Typical Mounting of BD, BG, BJ, BK, FA, FH, HD, HG, HJ, HL, HR, JD, JG, JJ, JL, JR, QB, QD, QG, QJ Circuit Breakers



Typical Wiring Diagram  
Branch connection phasing is determined by circuit breaker selection.



Typical 4-Piece Trim without Optional Door

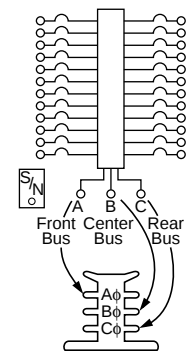
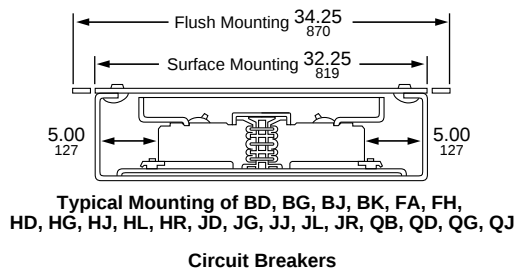
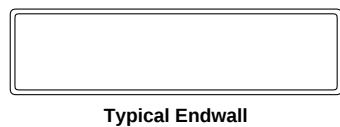
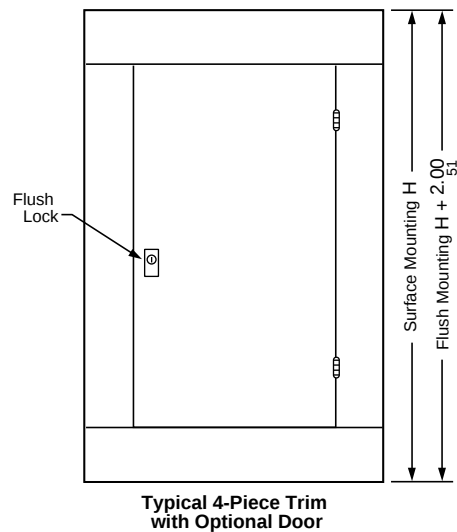
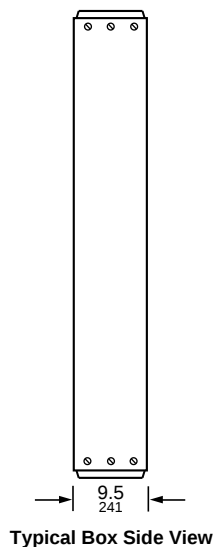
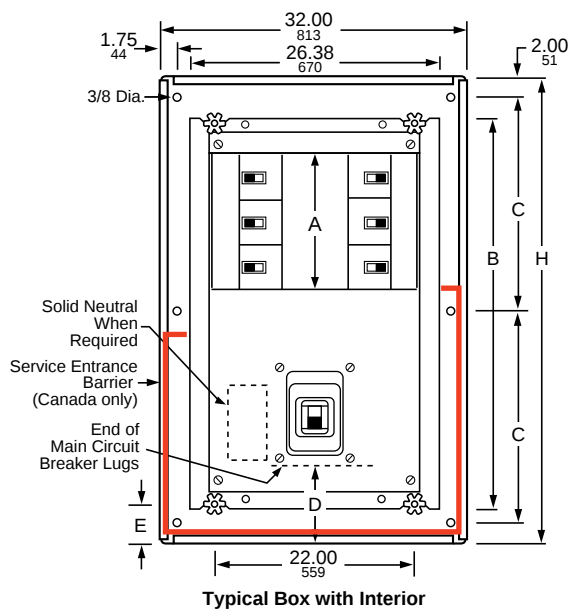
| Main Lugs Ampere Rating | Catalog Number         |           |                                         |                                      | H   |      | A    |      | B   |      | C     |     | D    |     | E    |     |
|-------------------------|------------------------|-----------|-----------------------------------------|--------------------------------------|-----|------|------|------|-----|------|-------|-----|------|-----|------|-----|
|                         | Interior               | Box       | 4-Piece Trim without Door <sup>13</sup> | 4-Piece Trim with Door <sup>13</sup> | in. | mm   | in.  | mm   | in. | mm   | in.   | mm  | in.  | mm  | in.  | mm  |
| 400                     | HCJ14484 <sup>14</sup> | HC3248DB9 | HC3248T()                               | HC3248T()D                           | 48  | 1219 | 13.5 | 343  | 30  | 762  | 21.85 | 555 | 14.9 | 378 | 9.3  | 236 |
|                         | HCJ14484CU             |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ23734               |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ32734 <sup>14</sup> | HC3273DB9 | HC3273T()                               | HC3273T()D <sup>15</sup>             | 73  | 1854 | 31.5 | 800  | 48  | 1219 | 22.9  | 582 | 18.4 | 467 | 12.8 | 325 |
|                         | HCJ32734CU             |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ50914               | HC3291DB9 | HC3291T()                               | HC3291T()D <sup>15</sup>             | 91  | 2311 | 49.5 | 1257 | 66  | 1676 | 28.9  | 734 | 18.4 | 467 | 12.8 | 325 |
| 600                     | HCJ14486 <sup>14</sup> |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ14486CU             | HC3248DB9 | HC3248T()                               | HC3248T()D                           | 48  | 1219 | 13.5 | 343  | 30  | 762  | 21.85 | 555 | 14.9 | 378 | 9.3  | 236 |
|                         | HCJ23736               |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ32736 <sup>14</sup> | HC3273DB9 | HC3273T()                               | HC3273T()D <sup>15</sup>             | 73  | 1854 | 31.5 | 800  | 48  | 1219 | 22.9  | 582 | 18.4 | 467 | 12.8 | 325 |
|                         | HCJ32736CU             |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ50916               | HC3291DB9 | HC3291T()                               | HC3291T()D <sup>15</sup>             | 91  | 2311 | 49.5 | 1258 | 66  | 1676 | 28.9  | 734 | 18.4 | 467 | 12.8 | 325 |
| 800                     | HCJ14488               | HC3248DB9 | HC3248T()                               | HC3248T()D                           | 48  | 1219 | 13.5 | 343  | 30  | 762  | 21.85 | 555 | 14.9 | 378 | 9.3  | 236 |
|                         | HCJ23738               |           |                                         |                                      |     |      |      |      |     |      |       |     |      |     |      |     |
|                         | HCJ32738               | HC3273DB9 | HC3273T()                               | HC3273T()D <sup>15</sup>             | 73  | 1854 | 31.5 | 800  | 48  | 1219 | 22.9  | 582 | 18.4 | 467 | 12.8 | 325 |
|                         | HCJ50918               | HC3291DB9 | HC3291T()                               | HC3291T()D <sup>15</sup>             | 91  | 2311 | 49.5 | 1257 | 66  | 1676 | 28.9  | 734 | 18.4 | 467 | 12.8 | 325 |

13. Replace parentheses with "F" for flush or "S" for surface.

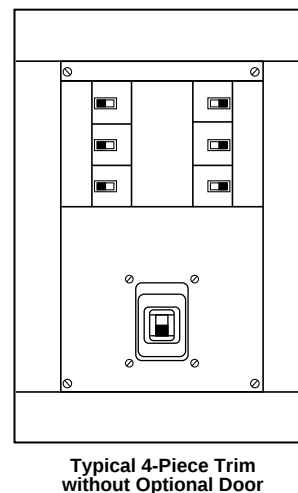
14. Add Cu to suffix for copper bus.

15. Two flush locks are supplied.

## Type HCJ 400 A Maximum Main Circuit Breaker



Branch connection phasing is determined by circuit breaker selection.



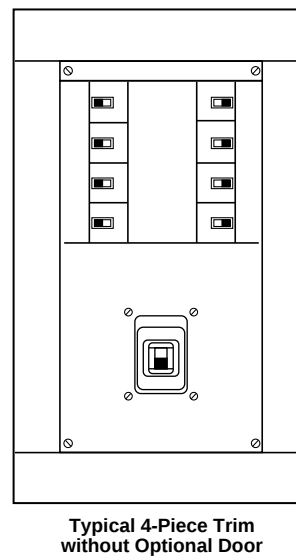
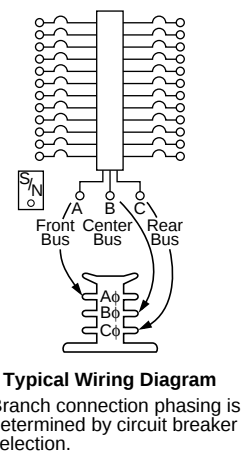
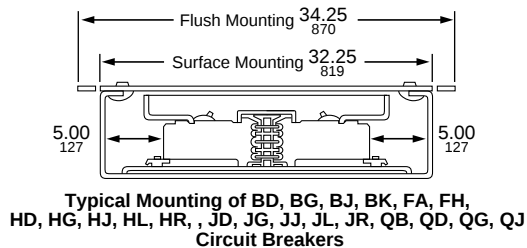
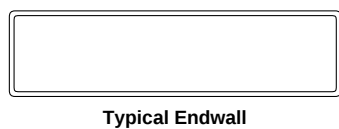
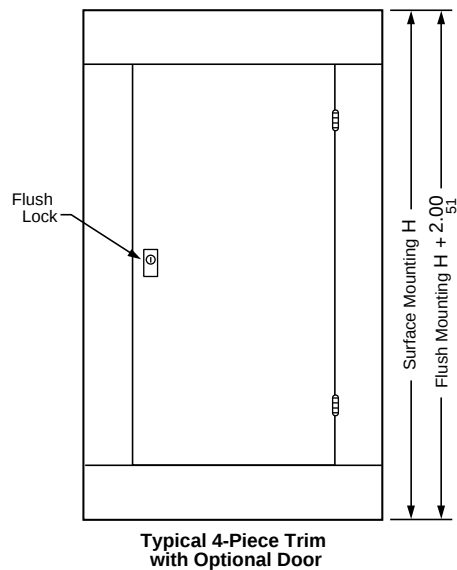
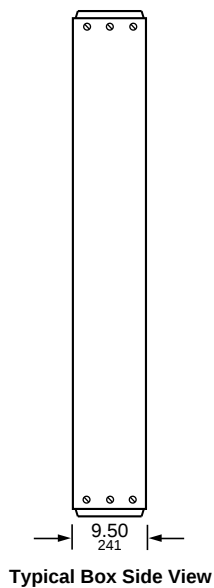
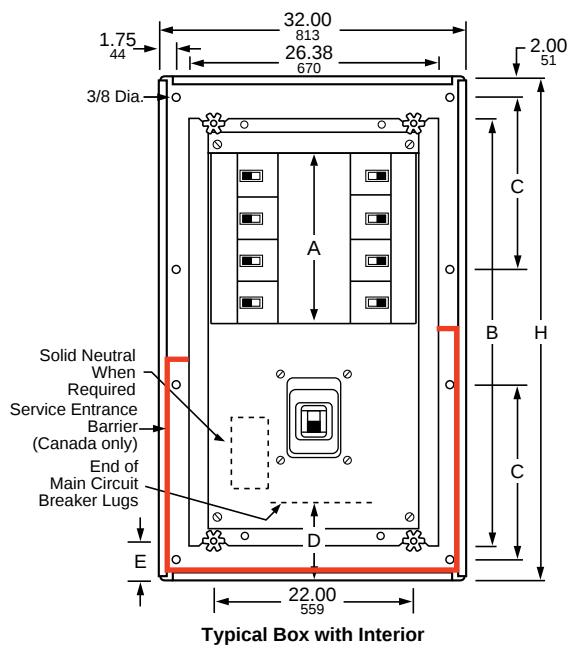
| Main<br>Circuit<br>Break-<br>er<br>Am-<br>pere<br>Rating | Catalog Number          |           |                                                  |                                            | H   |      | A   |      | B    |      | C    |     | D     |     | E    |     |
|----------------------------------------------------------|-------------------------|-----------|--------------------------------------------------|--------------------------------------------|-----|------|-----|------|------|------|------|-----|-------|-----|------|-----|
|                                                          | Interior                | Box       | 4-Piece<br>Trim<br>without<br>Door <sup>16</sup> | 4-Piece<br>Trim with<br>Door <sup>16</sup> | in. | mm   | in. | mm   | in.  | mm   | in.  | mm  | in.   | mm  | in.  | mm  |
| 400                                                      | HCJ14734M               | HC3273DB9 | HCJ73T( )                                        | HCJ73T( )D                                 | 64  | 1626 | 73  | 1854 | 13.5 | 343  | 22.9 | 582 | 16.96 | 431 | 12.8 | 325 |
| 400                                                      | HCJ23734M               | HC3273DB9 | HCJ73T( )                                        | HCJ73T( ) <sup>17</sup>                    | 73  | 1854 | 73  | 1854 | 22.5 | 572  | 22.9 | 582 | 16.96 | 431 | 12.8 | 325 |
| 400                                                      | HCJ41914M <sup>18</sup> | HC3291DB9 | HCJ91T( )                                        | HCJ91T( )D <sup>17</sup>                   | 91  | 2311 | 91  | 2311 | 40.5 | 1029 | 28.9 | 734 | 16.96 | 431 | 12.8 | 325 |
| 400                                                      | HCJ41914M-<br>CU        | HC3291DB9 | HCJ91T( )                                        | HCJ91T( )D                                 | 91  | 2311 | 91  | 2311 | 40.5 | 1029 | 28.9 | 734 | 16.96 | 431 | 12.8 | 325 |

16. Replace parentheses with "F" for flush or "S" for surface.

17. Two flush locks are supplied.

18. Add Cu to suffix for copper bus.

## Type HCJ—800 A Maximum Main Circuit Breaker

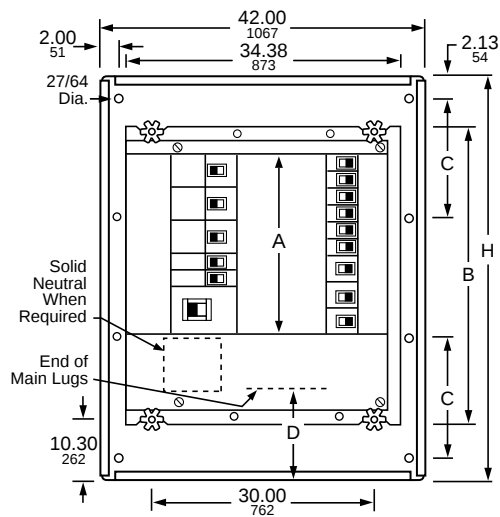


| Main<br>Circuit<br>Breaker<br>Ampere<br>Rating | Catalog Number |           |                                                  |                                                | H   |      | A   |     | B   |      | C    |     | D     |     | E    |     |
|------------------------------------------------|----------------|-----------|--------------------------------------------------|------------------------------------------------|-----|------|-----|-----|-----|------|------|-----|-------|-----|------|-----|
|                                                | Interior       | Box       | 4-Piece<br>Trim<br>without<br>Door <sup>19</sup> | 4-Piece<br>Trim with<br>Door <sup>19, 20</sup> | in. | mm   | in. | mm  | in. | mm   | in.  | mm  | in.   | mm  | in.  | mm  |
| 600                                            | HCJ18736MP     | HC3273DB9 | HCM73T( )                                        | HCM73T( )D                                     | 73  | 1854 | 18  | 457 | 48  | 1219 | 22.9 | 582 | 18.68 | 474 | 12.8 | 325 |
|                                                | HCJ36916MP     | HC3291DB9 | HCM91T( )                                        | HCM91T( )D                                     | 91  | 2311 | 36  | 914 | 66  | 1676 | 28.9 | 734 | 18.68 | 474 | 12.8 | 325 |
| 800                                            | HCJ18738MP     | HC3273DB9 | HCM73T( )                                        | HCM73T( )D                                     | 73  | 1854 | 18  | 457 | 48  | 1219 | 22.9 | 582 | 18.68 | 474 | 12.8 | 325 |
|                                                | HC36918MP      | HC3291DB9 | HCM91T( )                                        | HCM91T( )D                                     | 91  | 2311 | 36  | 914 | 66  | 1676 | 28.9 | 734 | 18.68 | 474 | 12.8 | 325 |

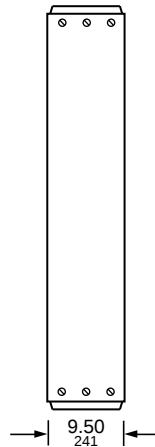
19. Replace parentheses with "F" for flush or "S" for surface.

20. Two flush locks are supplied.

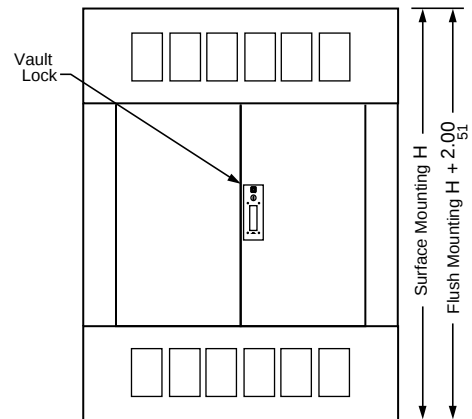
## Type HCP—800 A Maximum Main Lugs



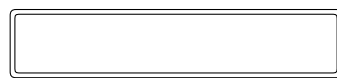
Typical Box with Interior



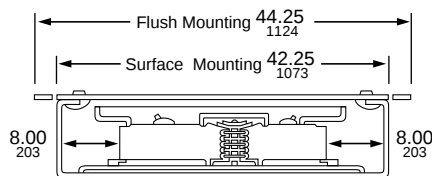
Typical Box Side View



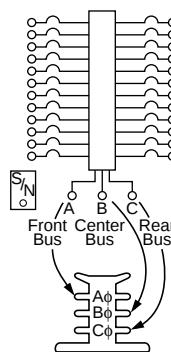
Typical 4-Piece Trim with Optional Door



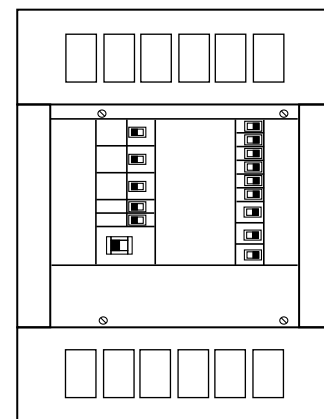
Typical Endwall



Typical Mounting of BD, BG, BJ, BK, FA, FH, HD, HG, HJ, HL, JD, JG, JJ, JL, LA, LD, LG, LJ, LL, LR, MG, MJ  
PG, PJ, PK, PL, QB, QD, QG, QJ  
Circuit Breakers



Typical Wiring Diagram  
Branch connection phasing is determined by circuit breaker selection.

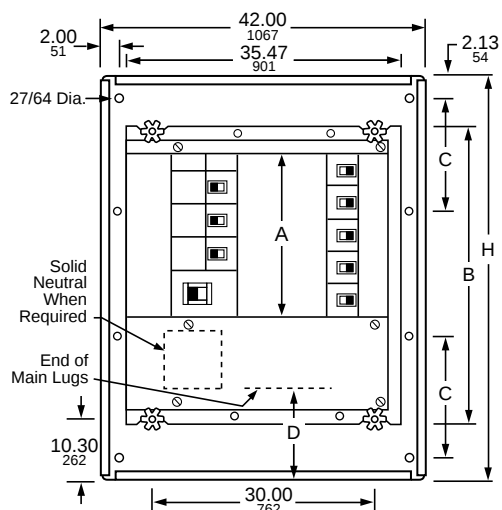


Typical 4-Piece Trim without Optional Door

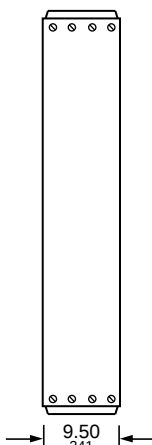
| Main Lugs Ampere Rating | Catalog Number |          |                                         |                                      | H   |      | A    |      | B   |      | C     |     | D     |     |
|-------------------------|----------------|----------|-----------------------------------------|--------------------------------------|-----|------|------|------|-----|------|-------|-----|-------|-----|
|                         | Interior       | Box      | 4-Piece Trim without Door <sup>21</sup> | 4-Piece Trim with Door <sup>21</sup> | in. | mm   | in.  | mm   | in. | mm   | in.   | mm  | in.   | mm  |
| 400                     | HCP14504       | HC4250DB | HCW50T( )                               | HCW50T( )D                           | 50  | 1270 | 13.5 | 343  | 30  | 762  | 22.85 | 580 | 17.5  | 445 |
|                         | HCP23594       | HC4259DB | HCW59T( )                               | HCW59T( )D                           | 59  | 1499 | 22.5 | 572  | 39  | 991  | 27.35 | 695 | 17.5  | 445 |
|                         | HCP32684       | HC4268DB | HCW68T( )                               | HCW68T( )D                           | 68  | 1727 | 31.5 | 800  | 48  | 1219 | 31.85 | 809 | 17.5  | 445 |
|                         | HCP50864       | HC4286DB | HCW86T( )                               | HCW86T( )D                           | 86  | 2184 | 49.5 | 1257 | 66  | 1676 | 27.23 | 692 | 17.5  | 445 |
| 600                     | HCP14506       | HC4250DB | HCW50T( )                               | HCW50T( )D                           | 50  | 1270 | 13.5 | 343  | 30  | 762  | 22.85 | 580 | 17.5  | 445 |
|                         | HCP23596       | HC4259DB | HCW59T( )                               | HCW59T( )D                           | 59  | 1499 | 22.5 | 572  | 39  | 991  | 27.35 | 695 | 17.5  | 445 |
|                         | HCP32686       | HC4268DB | HCW68T( )                               | HCW68T( )D                           | 68  | 1727 | 31.5 | 800  | 48  | 1219 | 31.85 | 809 | 17.5  | 445 |
|                         | HCP50866       | HC4286DB | HCW86T( )                               | HCW86T( )D                           | 86  | 2184 | 49.5 | 1257 | 66  | 1676 | 27.23 | 692 | 17.5  | 445 |
| 800                     | HCP14508       | HC4250DB | HCW50T( )                               | HCW50T( )D                           | 50  | 1270 | 13.5 | 343  | 30  | 762  | 22.85 | 580 | 16.32 | 415 |
|                         | HCP23598       | HC4259DB | HCW59T( )                               | HCW59T( )D                           | 59  | 1499 | 22.5 | 572  | 39  | 991  | 27.35 | 695 | 16.32 | 415 |
|                         | HCP32688       | HC4268DB | HCW68T( )                               | HCW68T( )D                           | 68  | 1727 | 31.5 | 800  | 48  | 1219 | 31.85 | 809 | 16.32 | 415 |
|                         | HCP50868       | HC4286DB | HCW86T( )                               | HCW86T( )D                           | 86  | 2184 | 49.5 | 1257 | 66  | 1676 | 27.23 | 692 | 16.32 | 415 |

21. Replace parentheses with "F" for flush or "S" for surface.

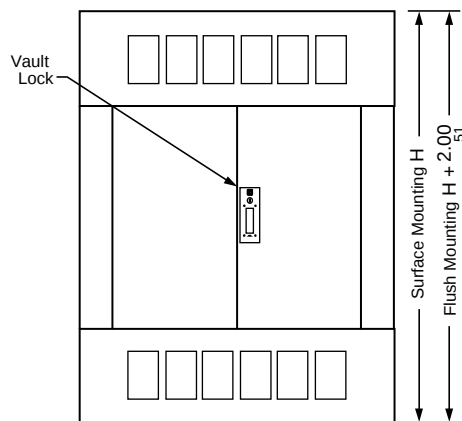
## Type HCP—1200 A Maximum Main Lugs



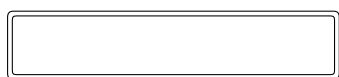
Typical Box with Interior



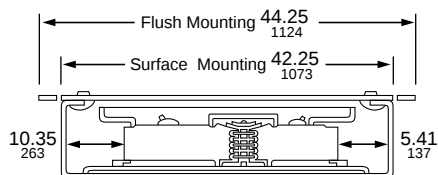
Typical Box Side View



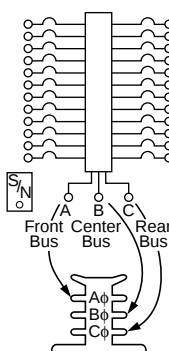
Typical 4-Piece Trim with Optional Door



Typical Endwall

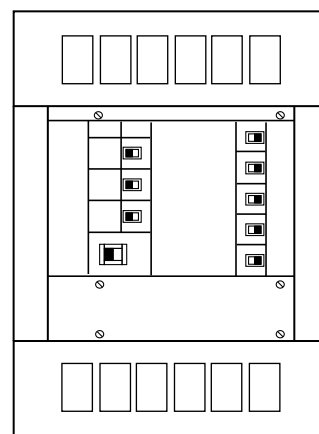


Typical Mounting of BD, BG, BJ, BK, FA, FH, HD, HG, HJ, HL, JD, JG, JJ, JL, LA, LD, LG, LJ, LL, LR, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ Circuit Breakers



Typical Wiring Diagram

Branch connection phasing is determined by circuit breaker selection.

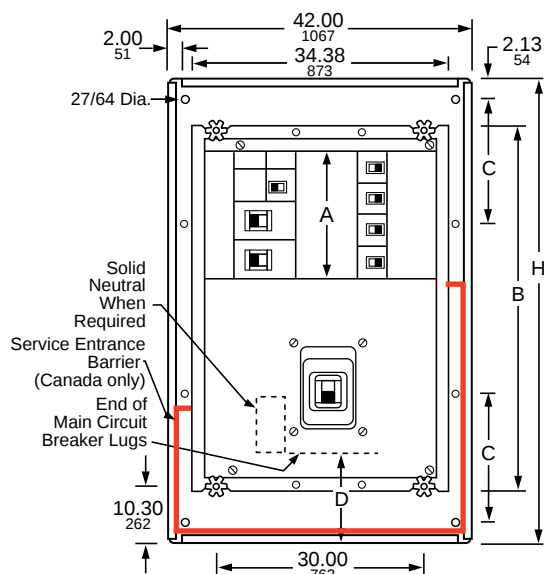


Typical 4-Piece Trim without Optional Door

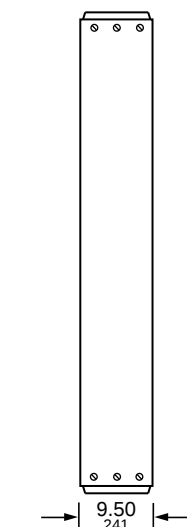
| Main Lugs Ampere Rating | Catalog Number |          |                                         |                                      | H   |      | A    |      | B   |      | C     |     | D     |     |
|-------------------------|----------------|----------|-----------------------------------------|--------------------------------------|-----|------|------|------|-----|------|-------|-----|-------|-----|
|                         | Interior       | Box      | 4-Piece Trim without Door <sup>22</sup> | 4-Piece Trim with Door <sup>22</sup> | in. | mm   | in.  | mm   | in. | mm   | in.   | mm  | in.   | mm  |
| 1200                    | HCP145012N     | HC4250DB | HCW50T( )                               | HCW50T( )D                           | 50  | 1270 | 13.5 | 343  | 30  | 762  | 22.85 | 580 | 16.32 | 415 |
|                         | HCP235912N     | HC4259DB | HCW59T( )                               | HCW59T( )D                           | 59  | 1499 | 22.5 | 572  | 39  | 991  | 27.23 | 692 | 16.32 | 415 |
|                         | HCP326812N     | HC4268DB | HCW68T( )                               | HCW68T( )D                           | 68  | 1727 | 31.5 | 800  | 48  | 1219 | 31.85 | 809 | 16.32 | 415 |
|                         | HCP508612N     | HC4286DB | HCW86T( )                               | HCW86T( )D                           | 86  | 2184 | 49.5 | 1257 | 66  | 1676 | 27.23 | 692 | 16.32 | 415 |

22. Replace parentheses with "F" for flush or "S" for surface.

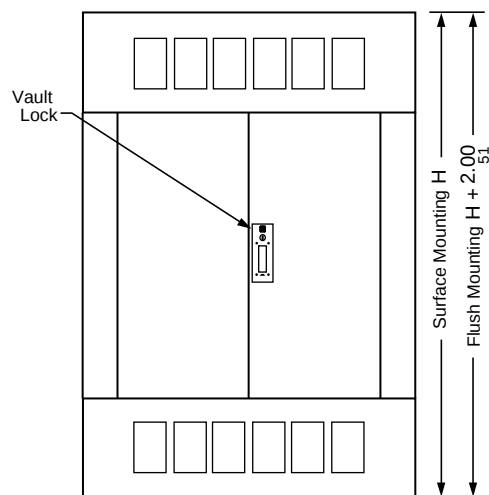
## Type HCP—800 A Maximum Main Circuit Breaker



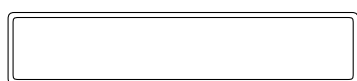
Typical Box with Interior



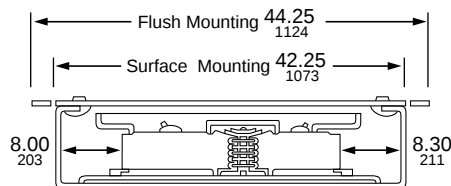
Typical Box Side View



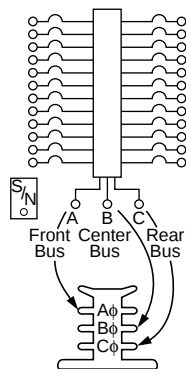
Typical 4-Piece Trim with Optional Door



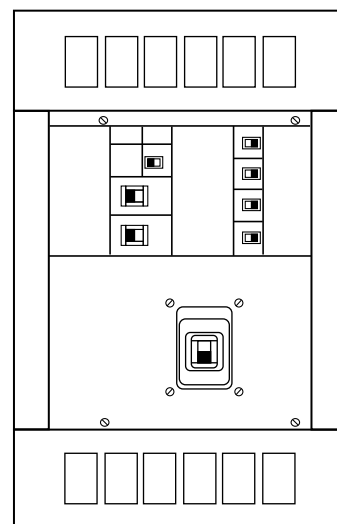
Typical Endwall



Typical Mounting of BD, BG, BJ, BK, FA, FH, HD, HG, HJ, HL, JD, JG, JJ, JL, LA, LD, LG, LJ, LL, LR, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ Circuit Breakers



Typical Wiring Diagram  
Branch connection phasing is determined by circuit breaker selection.

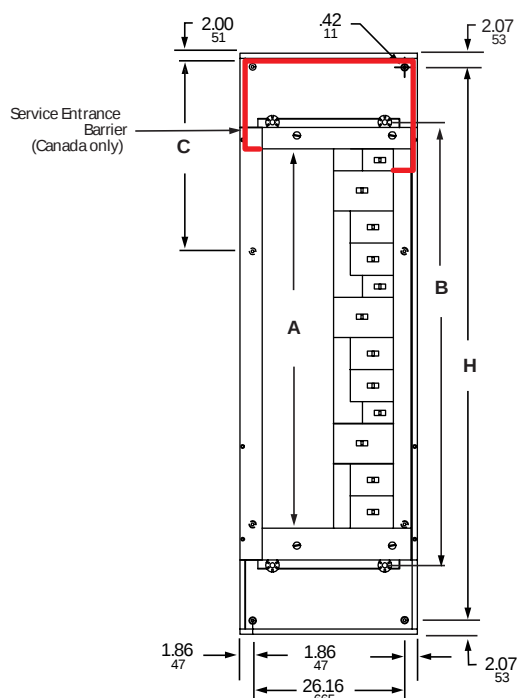


Typical 4-Piece Trim without Optional Door

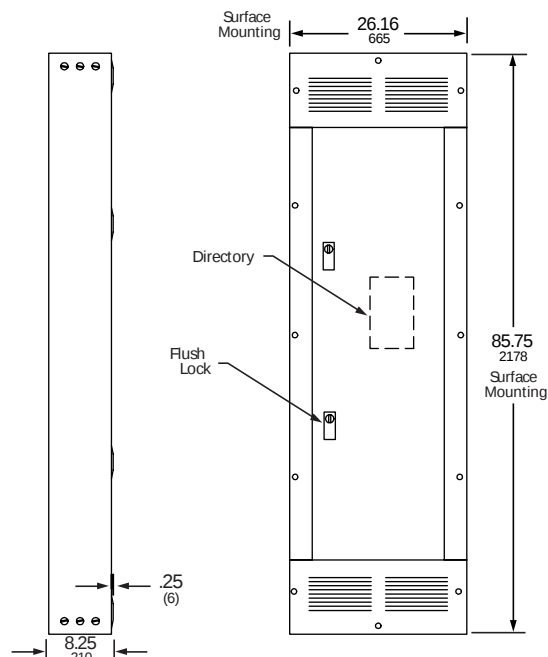
| Main<br>Circuit<br>Breaker<br>Ampere<br>Rating | Catalog Number |          |                                            |                                         | H   |      | A   |     | B   |      | C     |     | D     |     |
|------------------------------------------------|----------------|----------|--------------------------------------------|-----------------------------------------|-----|------|-----|-----|-----|------|-------|-----|-------|-----|
|                                                | Interior       | Box      | 4-Piece Trim<br>without Door <sup>23</sup> | 4-Piece Trim<br>with Door <sup>23</sup> | in. | mm   | in. | mm  | in. | mm   | in.   | mm  | in.   | mm  |
| 600                                            | HCP18686M      | HC4268DB | HCW68T()                                   | HCW68T()D                               | 68  | 1727 | 18  | 457 | 48  | 1219 | 31.85 | 809 | 18.68 | 474 |
|                                                | HCP36866M      | HC4286DB | HCW86T()                                   | HCW86T()D                               | 86  | 2184 | 36  | 914 | 66  | 1676 | 27.23 | 692 | 18.68 | 474 |
| 800                                            | HCP18688M      | HC4268DB | HCW68T()                                   | HCW68T()D                               | 68  | 1727 | 18  | 457 | 48  | 1219 | 31.85 | 809 | 18.68 | 474 |
|                                                | HCP36868M      | HC4286DB | HCW86T()                                   | HCW86T()D                               | 86  | 2184 | 36  | 914 | 66  | 1676 | 27.23 | 692 | 18.68 | 474 |

23. Replace parentheses with "F" for flush or "S" for surface.

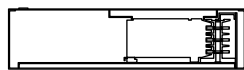
## Type HCP-SU—800 A Maximum Main Circuit Breaker



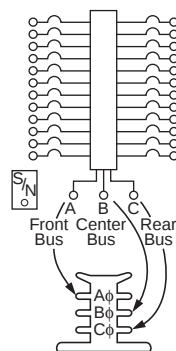
Typical Box with Interior



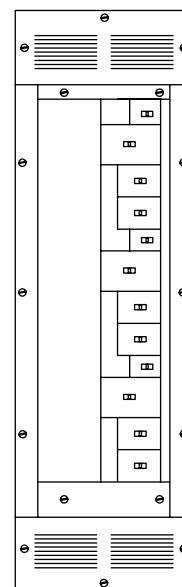
Typical 2-Piece Trim with Optional Door



Typical Mounting of BD, BG, BJ, BK, FA, FH, HD, HG, HJ, HL, JD, JG, JJ, JL, LA, LD, LG, LJ, LL, LR, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ Circuit Breakers



Branch connection phasing is determined by circuit breaker selection.

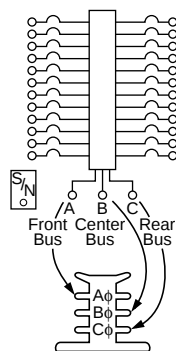
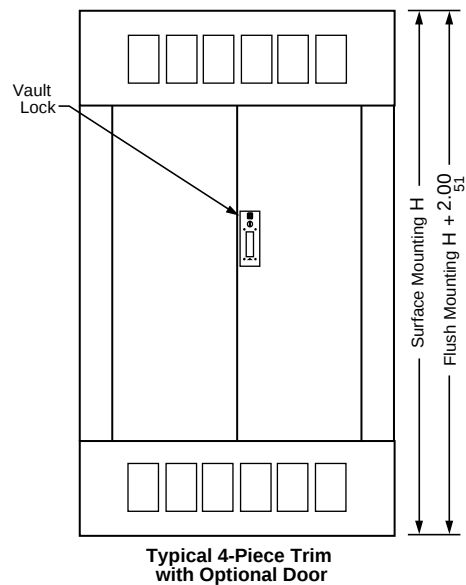
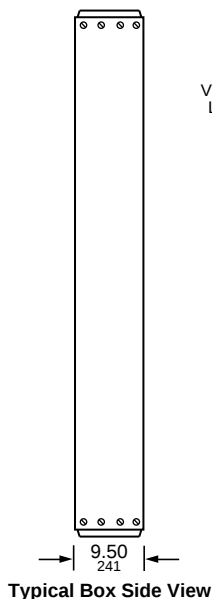
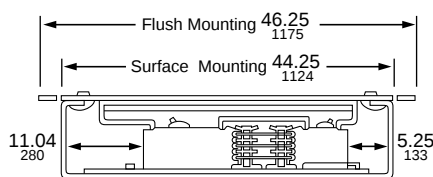
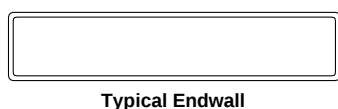
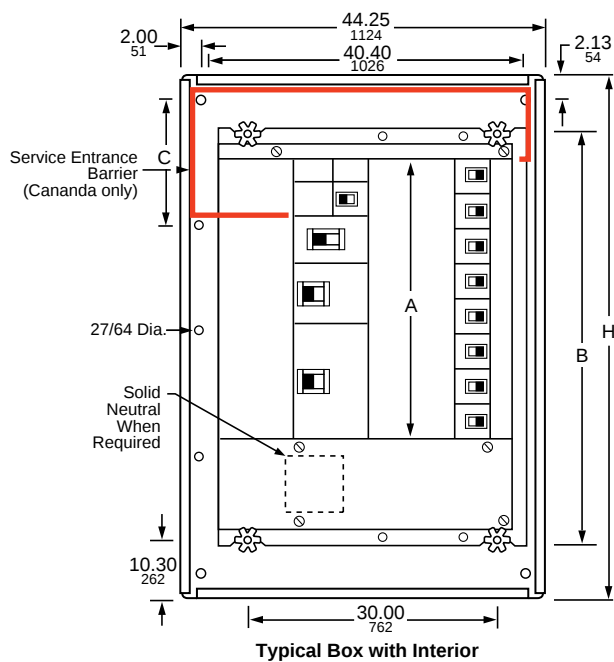


Typical 2-Piece Trim without Optional Door

| Main Circuit<br>Breaker<br>Ampere<br>Rating | Catalog Number |          |                                                |                                             | H   |      | A   |      | B    |      | C     |     |
|---------------------------------------------|----------------|----------|------------------------------------------------|---------------------------------------------|-----|------|-----|------|------|------|-------|-----|
|                                             | Interior       | Box      | 2-Piece Trim<br>without Door <sup>24, 25</sup> | 2-Piece Trim<br>with Door <sup>24, 25</sup> | in. | mm   | in. | mm   | in.  | mm   | in.   | mm  |
| 800                                         | HCP54868SU     | HC2686DB | HC2686T()                                      | HC2686T()D                                  | 86  | 2184 | 54  | 1372 | 65.4 | 1661 | 27.23 | 692 |

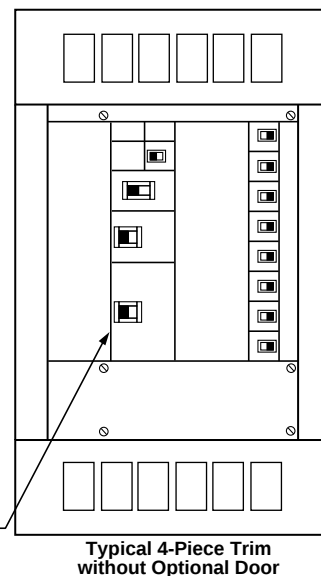
24. Replace parentheses with "F" for flush or "S" for surface.  
 25. Flush trims are 4-piece.

## Type HCR-U—1200 A Main Lugs or Main Circuit Breaker



Branch connection phasing is determined by circuit breaker selection.

Back-fed PG, PJ, PL, RG RJ, and RL Main Circuit Breaker or Main Lugs Kit S33930 (see Note:)



| Main Lugs or<br>Main Circuit<br>Breaker<br>Ampere<br>Rating | Catalog Number |          |                                            |                                         | H   |      | A   |      | B    |      | C   |     |
|-------------------------------------------------------------|----------------|----------|--------------------------------------------|-----------------------------------------|-----|------|-----|------|------|------|-----|-----|
|                                                             | Interior       | Box      | 4-Piece Trim<br>without Door <sup>26</sup> | 4-Piece Trim<br>with Door <sup>26</sup> | in. | mm   | in. | mm   | in.  | mm   | in. | mm  |
| 1200                                                        | HCR548612U     | HC4486DB | HCR86T( )                                  | HCR86T( )D                              | 86  | 2184 | 54  | 1372 | 65.1 | 1654 | 18  | 457 |

**NOTE:** The back-fed RG, RJ, and RL Main Circuit Breaker or Main Lugs Kit takes up 15 in. (381 mm) of mounting space, leaving 93 in. (2362 mm) of branch circuit breaker mounting space. The back-fed PG, PJ, PL Main Circuit Breaker takes up 9 in. (229 mm) of mounting spaces, leaving 99 in. (2515 mm) of branch circuit breaker mounting space.

26. Replace parentheses with “F” for flush or “S” for surface.



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