

# I-Line<sup>®</sup> Circuit Breaker Panelboards

Catalog

# 05

Class 2110



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# I-Line® Circuit Breaker Panelboards Product Description

## PRODUCT DESCRIPTION

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 225–1200 A main lugs only and 100–1200 A main circuit breakers. I-Line panelboards are designed to accept the following circuit breakers: FY, FA, FH, FC, FJ, FK, FI, HD, HG, HJ, HL, QB, QD, QG, QJ, QO, KA, KH, KC, KI, JD, JG, JJ, JL, LA, LH, LC, LI, LE, LX, LXI, MA, MH, MG, MJ, PG, PJ, PK\*, PL, RG, RJ, RK\*, and RL.

\* *Canada only.*

## Standards

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        |

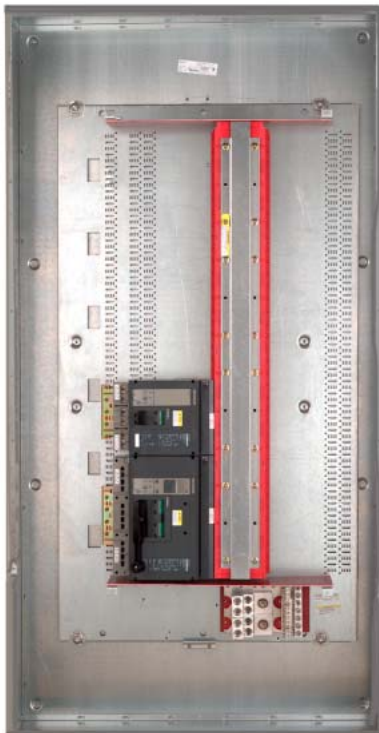
## Service

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



Type HCR-U—1200 A Main Circuit Breaker



Type HCR-U—1200 A Main Circuit Breaker

# I-Line® Circuit Breaker Panelboards

## Product Description



Type HCP—600 A Main Circuit Breaker

### Panelboard Types

| Panelboard Type | Maximum Mains Ampacity |                       | Maximum Branch Circuit Breaker Frame Size ❖ |            | Enclosure Dimensions ■ |                           |
|-----------------|------------------------|-----------------------|---|------------|------------------------|---------------------------|
|                 | Main Lugs              | Main Circuit Breakers | Left  | Right      | Width IN (mm)          | Depth IN (mm)             |
| HCN             | 600 A                  | 400 A                 | FA, QB, HD                                  | FA, QB, HD | 26 (660)               | 6.50 (165)                |
| HCM             | 800 A                  | 800 A                 | JD  | JD         | 32 (813)               | 8.25 (210)/<br>9.50 (241) |
| HCP-SU          | 800 A                  | 800 A ◆               | MG, PG                                      | None       | 26 (600)               | 9.50 (241)                |
| HCP             | 1200 A                 | 800 A ◆               | MG, PG                                      | JD         | 42 (1067)              | 9.50 (241)                |
| HCR-U           | 1200 A                 | 1200 A ◆              | RG  | JD         | 44 (1118)              | 9.50 (241)                |

- ❖ For a complete listing of applicable circuit breaker types, refer to the dimensions section.
- Refer to the Dimensions section for standard panelboard heights.
- ◆ Available as a main circuit breaker panelboard when provided with a branch mounted back-fed main circuit breaker.



Type HCP-SU  
800 A Main Circuit Breaker



Type HCM—400 A Main Lugs

# I-Line® Circuit Breaker Panelboards Product Description

## Enclosure Types

| 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 |



Types 1 and 2 Enclosure with Optional Door



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



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

|   |         |   |
|---|---------|---|
| Type 1 Enclosures                           | Fronts: | HCN, HCM, 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. |
|   | Fronts: | Finished with gray-baked enamel electrodeposited over cleaned phosphatized steel (ANSI 49).<br>Directory card holders provided with all fronts.                                       |
|   | Boxes:  | Galvanized steel in 26, 32, 42, and 44-inch (660, 813, 1067, and 1118 mm) widths.<br>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, fiberglass-reinforced polyester.   |
|   |         | Watertight and dusttight.   |
|   |         | Gasketed door with trunk latches.   |
|   |         | Directory card located on inside of door.   |



Type 3R, 5, and 12 Enclosures



Type 3R, 5, and 12 Enclosures



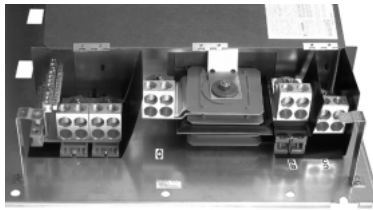
Vault Handle used on all Type 3R, 5, and 12 Enclosures (Catalog No. PK4NVL)

# I-Line® Circuit Breaker Panelboards

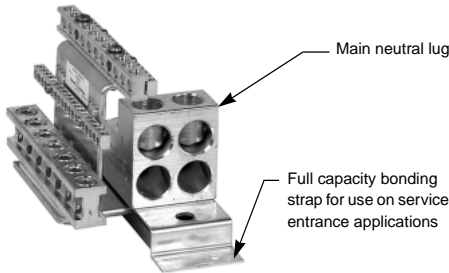
## Product Description



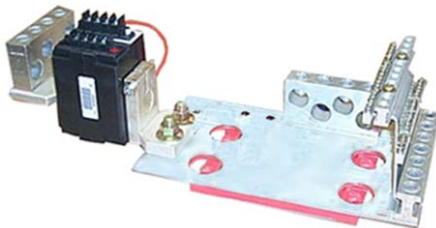
**Main Circuit Breaker and Solid Neutral Compartment**  
(Canada service entrance not shown)



**Main Lug and Solid Neutral Compartment**



**Typical Solid Neutral**



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

### Main Breaker Panelboards

- 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, US and Canada.
- Accept plug-on 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 (RTA in Canada) main circuit breaker panelboards are provided bottom-feed as standard.

\* Ready-to-Assemble (RTA) in Canada

### Main Lugs Only Panelboards

- Available with main lug only interiors rated up to 1200 A.
- Available factory-assembled or merchandised (RTA in Canada).
- Suitable for use as service entrance equipment when provided with a main circuit breaker, US and Canada.
- Accept plug-on 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.

# I-Line® Circuit Breaker Panelboards Features and Benefits

## FEATURES AND BENEFITS

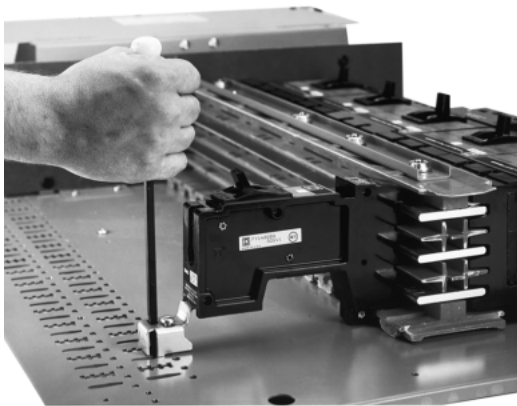
Featured below are just a few of the many features and benefits of Square D-brand I-Line circuit breaker panelboards.

### Circuit Breakers

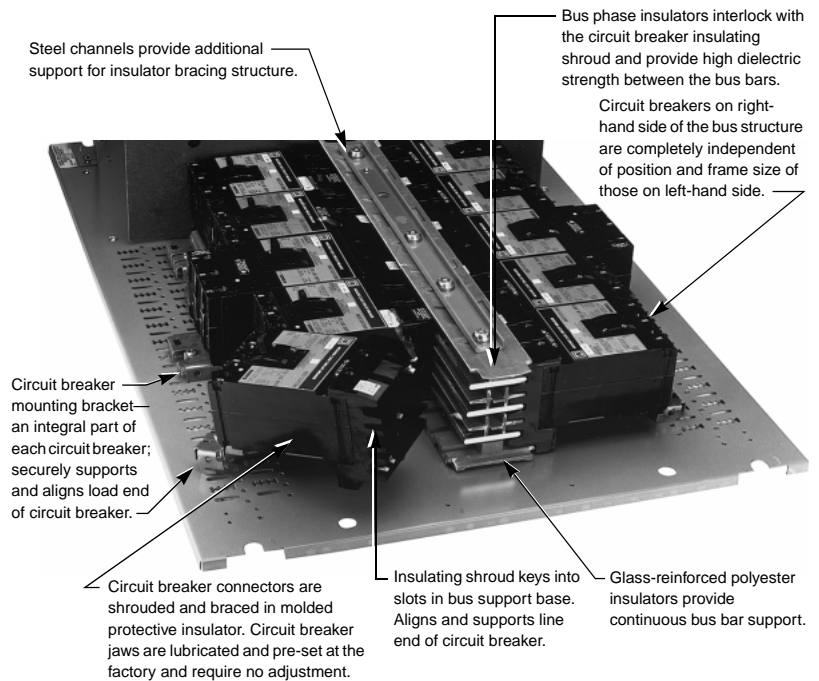
I-Line panelboards are available with a complete line of thermal magnetic, Micrologic®, and electronic circuit breakers. The I-Line circuit breakers, with their exclusive plug-on connection design provide superior reliability and performance advantages.

### Circuit Breaker Mounting

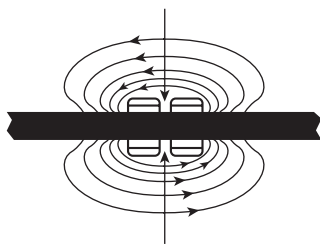
- 15–1200 A frame circuit breakers require only a screwdriver and are ratcheted firmly onto the bus stack. They are secured in place by a screw.
- The connectors are an integral part of the I-Line circuit breaker—eliminating the assembly of connectors to the bus bar.
- Pre-assembled hardware means reduced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



Ratchet-Type Mounting



I-Line Bus Structure and Circuit Breaker Mounting



Blow-On Connections

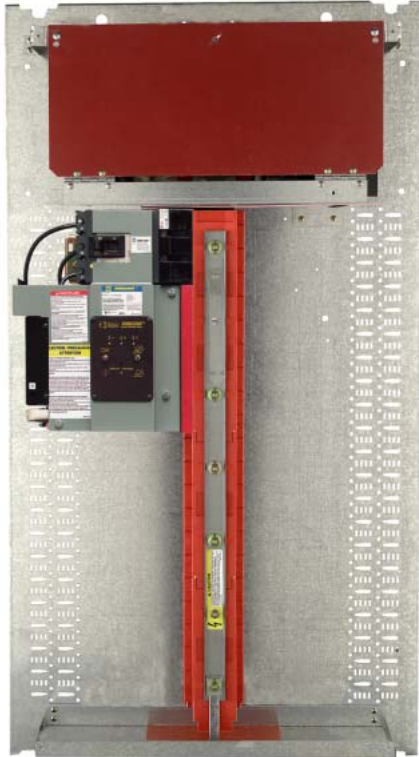
### Push-to-Trip

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

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.

## I-Line® Circuit Breaker Panelboards Features and Benefits



I-Line Plug-On Unit with Surgelogic® TVSS



Equipment Ground Bar (Catalog No. PK32DGTA)



Typical Box Extensions



Blank Fillers (Catalog Nos. HNM4BL and HNM1BL)

### 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 Surgelogic® TVSS

- Plug-on design requires less cable and conduit than end gutter-mounted TVSS unit, saving labor time and material costs.
- Bus-connected design enhances performance.
- Meets the requirements of UL and CSA for retrofit applications in existing I-Line panelboards and switchboards.
- Integrated TVSS 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 bars mount in the panelboard box to provide convenient termination of equipment grounding conductors. They are available in copper or aluminum.

#### 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 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.



# I-Line® Circuit Breaker Panelboards General and Application Information

## GENERAL AND APPLICATION INFORMATION

### Circuit Breaker Ratings

| 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  |      |
| FY ‡                                    | 277                    | 1               | 15–30               | 18 K   | 14 K   | —     | —      | —        | —    |      |
| FA 240 V                                | 120                    | 1               | 15–100              | 10 K   | —      | —     | —      | 5 K      | 5 K  |      |
|   | 240                    | 2               |                     |  | 10 K   |       |        | —        |      |      |
|   | 240                    | 3               |                     |  | 10 K   |       |        | —        |      |      |
| FA 480 V                                | 277                    | 1               | 15–100              | 25 K   | 18 K ■ | —     | —      | 10 K     | 10 K |      |
|   | 480                    | 2               |                     |  | 25 K ■ |       |        | 18 K     |      | 10 K |
|   | 480                    | 3               |                     |  | 25 K ■ |       |        | 18 K     |      | 10 K |
| FA 600 V                                | 600                    | 2, 3            | 15–100              | 25 K   | 25 K   | 18 K  | 14 K   | 10 K     | 10 K |      |
| FH ◆                                    | 277                    | 1               | 15–30               | 65 K   | 65 K ■ | —     | —      | 10 K     | —    |      |
|   | 277                    | 1               | 35–100              |  | 25 K ■ |       |        | 10 K     |      |      |
|   | 600                    | 2, 3            | 15–100              |  | 65 K   |       |        | 25 K     |      | 18 K |
| FC                                      | 480                    | 2, 3            | 15–100              | 100 K  | 100 K  | 65 K  | —      | —        | —    |      |
| FG                                      | 277                    | 1               | 15–70               | 35 K   | 35 K   | 35 K  | 18 K ☞ | —        | —    |      |
| FJ                                      | 277                    | 1               | 15–70               | 65 K   | 65 K   | 65 K  | 25 K ☞ | —        | —    |      |
| FK □                                    | 347                    | 1               | 15–30               | 65 K   | 65 K   | 65 K  | 65 K   | —        | —    |      |
| FI                                      | 600                    | 2, 3            | 20–100              | 200 K  | 200 K  | 200 K | 100 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 |      |
| 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 ◆                                    | 240                    | 2, 3            | 70–225              | 100 K  | 100 K  | —     | —      | —        | —    |      |
| KA                                      | 600                    | 2, 3            | 70–250              | 42 K   | 42 K   | 25 K  | 22 K   | 10 K     | 10 K |      |
| KH ◆                                    | 600                    | 2, 3            | 70–250              | 65 K   | 65 K   | 35 K  | 25 K   | 10 K     | 10 K |      |
| KC                                      | 480                    | 2, 3            | 110–250             | 100 K  | 100 K  | 65 K  | —      | —        | —    |      |
| KI                                      | 600                    | 2, 3            | 110–250             | 200 K  | 200 K  | 200 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 |      |
| LA                                      | 600                    | 2, 3            | 125–400             | 42 K   | 42 K   | 30 K  | 22 K   | 10 K     | 10 K |      |
| LH ◆                                    | 600                    | 2, 3            | 125–400             | 65 K   | 65 K   | 35 K  | 25 K   | 10 K     | 10 K |      |
| LC                                      | 480                    | 2, 3            | 300–600             | 100 K  | 100 K  | 65 K  | 35 K   | —        | —    |      |
| LI                                      | 480                    | 2, 3            | 300–600             | 200 K  | 200 K  | 200 K | 100 K  | —        | —    |      |
| MA                                      | 600                    | 2, 3            | 300–800             | 42 K   | 42 K   | 30 K  | 22 K   | 14 K     | 14 K |      |
| MH ◆                                    | 600                    | 2, 3            | 300–800             | 65 K   | 65 K   | 65 K  | 25 K   | 14 K     | 14 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   | —        | —    |      |
| PJ                                      | 600                    | 2, 3            | 600–1200            | 100 K  | 100 K  | 65 K  | 25 K   | —        | —    |      |
| PK □                                    | 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 | —      | —        | —    |      |
| <b>Micrologic Trip Circuit Breakers</b> |                        |                 |                     |  |        |       |        |          |      |      |
| LX                                      | 600                    | 3               | 100–600             | 100 K  | 100 K  | 65 K  | 35 K   | —        | —    |      |
| LXI                                     | 600                    | 3               | 100–600             | 200 K  | 200 K  | 200 K | 100 K  | —        | —    |      |
| LE                                      | 600                    | 3               | 100–600             | 100 K  | 100 K  | 65 K  | 35 K   | —        | —    |      |
| PG                                      | 600                    | 2, 3            | 250–1200            | 65 K   | 65 K   | 35 K  | 18 K   | —        | —    |      |
| PJ                                      | 600                    | 2, 3            | 250–1200            | 100 K  | 100 K  | 65 K  | 25 K   | —        | —    |      |
| PK □                                    | 600                    | 2, 3            | 250–1200            | 65 K   | 65 K   | 50 K  | 50 K   | —        | —    |      |
| PL                                      | 480                    | 2, 3            | 250–1200            | 125 K  | 125 K  | 100 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 □                                    | 600                    | 2, 3            | 1000–1200           | 65   | 65 K   | 65 K  | 65 K   | —        | —    |      |
| RL                                      | 600                    | 2, 3            | 1000–1200           | 125 K  | 125 K  | 100 K | 50 K   | —        | —    |      |

‡ 15 and 20 A are Switching Duty rated (SWD).

■ 277 VAC rated.

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

☞ FG and FJ 600Y/347 VAC @ 15–30 A only.

□ Canada only.

◆ QJ 3-pole is rated 100 KA@208Y/120 VAC.

# I-Line® Circuit Breaker Panelboards

## General and Application Information

### Circuit Breaker Terminal Data

| Circuit Breaker | Frame Size | Ampere Rating | Terminal Lug Wire Size                        |
|-----------------|------------|---------------|---|
| FY              | 100 A      | 15–30         | #14-#4 Al/Cu                                  |
| 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                      |
| FC              | 100 A      | 15–30         | #14-#10 Cu                                    |
| FC              | 100 A      | 35–100        | #14-#3 Cu or #12-#1 Al                        |
| FG, FJ, FK □    | 100 A      | 15–30         | #14-#6 Cu or #12-#6 Al                        |
| FJ              | 100 A      | 35–70         | #14-2/0 Cu or #12-2/0 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                      |
| FI              | 100 A      | 20–30         | #14-#4 Cu or #12-#4 Al                        |
| FI              | 100 A      | 35–100        | #14-1/0 Cu or #12-1/0 Al                      |
| HD, HG, HJ, HL  | 150 A      | 15–150        | #14-3/0 Al/Cu                                 |
| QB              | 225 A      | 70–225        | #4-300 kcmil Al/Cu                            |
| QD              | 225 A      | 70–225        | #4-300 kcmil Al/Cu                            |
| QG              | 225 A      | 70–225        | #4-300 kcmil Al/Cu                            |
| QJ              | 225 A      | 70–225        | #4-300 kcmil Al/Cu                            |
| KA              | 250 A      | 125–250       | (1) #6-350 kcmil Al/Cu                        |
| KC              | 250 A      | 110–175       | (1) #6-350 kcmil Al/Cu                        |
| KC              | 250 A      | 200–250       | (1) 1/0-350 kcmil Al/Cu                       |
| KH              | 250 A      | 125–250       | (1) #6-350 kcmil Al/Cu                        |
| KI              | 250 A      | 110–175       | (1) #6-350 kcmil Al/Cu                        |
| KI              | 250 A      | 200–250       | (1) 1/0-350 kcmil Al/Cu                       |
| JD, JG, JJ, JL  | 250 A      | 150–175       | #1/0-4/0 Al/Cu                                |
| JD, JG, JJ, JL  | 250 A      | 200–250       | #3/0-350 kcmil Al/Cu                          |
| LA, LH          | 400 A      | 250–400       | (1) #1-600 kcmil or<br>(2) #1-250 kcmil Al/Cu |
| LC              | 600 A      | 300–600       | (2) 4/0-500 kcmil Al/Cu                       |
| LE              | 600 A      | 100–250       | (2) #1-350 kcmil Al/Cu                        |
| LE              | 600 A      | 300–600       | (2) 4/0-500 kcmil Al/Cu                       |
| LI              | 400 A      | 300–400       | (2) 4/0-500 kcmil Al/Cu                       |
| LI              | 600 A      | 450–600       | (2) 4/0-500 kcmil Al/Cu                       |
| LX              | 600 A      | 100–250       | (2) #1-350 kcmil Al/Cu                        |
| LX              | 600 A      | 300–600       | (2) 4/0-500 kcmil Al/Cu                       |
| LXI             | 600 A      | 100–250       | (2) #1-350 kcmil Al/Cu                        |
| LXI             | 600 A      | 300–600       | (2) 4/0-500 kcmil Al/Cu                       |
| MA, MH          | 800 A      | 300–800       | (3) 3/0-500 kcmil Al/Cu                       |
| MG, MJ          | 800 A      | 300–800       | (3) 3/0-500 kcmil Al/Cu                       |
| PG, PJ, PK□, PL | 1200 A     | 250–800       | (3) 3/0-500 kcmil Al/Cu                       |
| PG, PJ, PK□, PL | 1200 A     | 1000–1200     | (4) 3/0-500 kcmil Al/Cu                       |
| RG, RJ, RK□, 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.

□ Canada only.

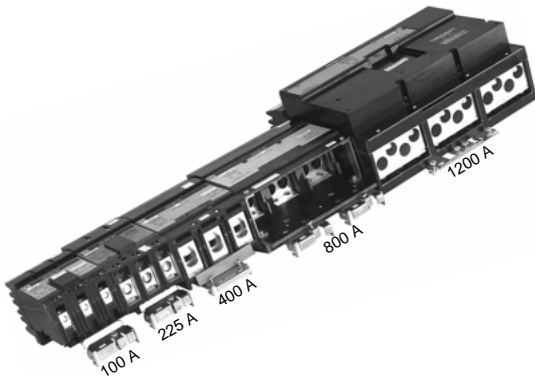
### Circuit Breaker Accessories

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

# I-Line® Circuit Breaker Panelboards General and Application Information

*NOTE: All accessories, except for the Ground-fault shunt trip are field-installable for LA, LH, LC, LI, LX, LXI, LE, MA, and MH circuit breakers.*

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



**Plug-On Lugs**

| Circuit Breaker | Class |
|-----------------|-------|
| HD, HG, HJ, HL  | 611   |
| FI              | 820   |
| QB, QD, QG, QJ  | 734   |
| JD, JG, JJ, JL  | 611   |
| KI              | 825   |
| LA, LH, LC      | 660   |

| Circuit Breaker | Class |
|-----------------|-------|
| LI              | 830   |
| LE, LX          | 661   |
| MG, MJ          | 612   |
| PG, PJ, PK□, PL | 612   |
| RG, RJ, RK□, RL | 612   |

□ Canada only.

## Plug-On Lugs Terminal Data

| Amperage Rating | Frame Size | Catalog No. | Terminal Lug Wire Size                        |
|-----------------|------------|-------------|---|
| 100 A           | 100 A      | SL100       | #14-1/0 Cu or #12-1/0 Al                      |
| 250 A           | 250 A      | SL250       | (1) #4-300 kcmil Al/Cu                        |
| 400 A           | 400 A      | SL400       | (1) #1-600 kcmil or<br>(2) #1-250 kcmil Al/Cu |
| 800 A           | 800 A      | SL800       | (3) 3/0-500 kcmil Al/Cu                       |
| 1200 A          | 1200 A     | S33931      | (4) 3/0-500 kcmil Al/Cu                       |
| 1200 A ‡        | 1200 A     | S33930      | (4) 3/0-600 kcmil Al/Cu                       |

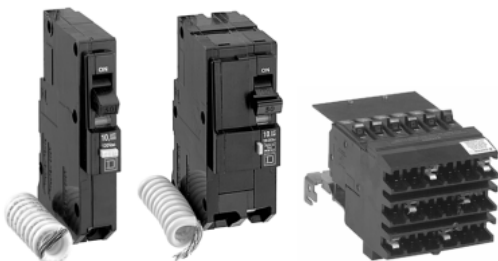
‡ For 100% rated applications ("R" frame breakers).



1-Pole    2-Pole    3-Pole  
**QO with Visi-Trip® Indicator**

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

- 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.



**Qwik-Gard® Circuit Breaker with Ground Fault  
Circuit Interrupter**

## QO Distribution Panel Branch Circuit Breakers

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

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

# I-Line® Circuit Breaker Panelboards General and Application Information

## Circuit Breaker Types



**FY**  
1-Pole; 15–30 A



**FA, FH**  
1-, 2-, and 3-Pole; 15–100 A



**FI**  
2- and 3-Pole; 20–100 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



**KI**  
2- and 3-Pole; 110–250 A



**LC, LI**  
2- and 3-Pole; 300–600 A



**LE, LX**  
2- and 3-Pole; 100–600 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

# I-Line® Circuit Breaker Panelboards General and Application Information

## Main Lugs and Main Circuit Breaker Ratings and Lug Sizes

| Mains<br>Ampere<br>Rating   | Main Lugs   |   | Main Circuit Breaker                             |  |
|-----------------------------|---|---|--|--|
|                             | Actual Lug Size   | Cable Size Per UL/CSA Wire<br>Bending Space                                     | Actual Lug Size                                  | Cable Size Per UL/CSA Wire<br>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                          |
| <b>VCEL Lug Sizes ■</b>     |   |   |  |  |
| 100                         | —   | —   | (1) #8-1/0 Al/Cu                                 | (1) #8-#1 Al/Cu                                  |
| 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   | —  | —  |

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

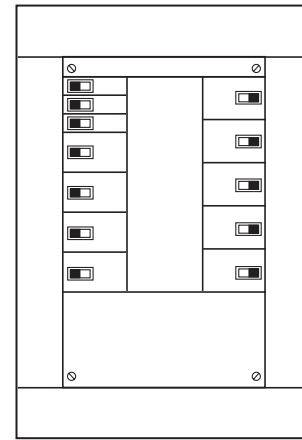
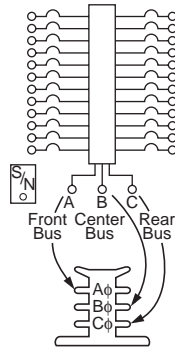
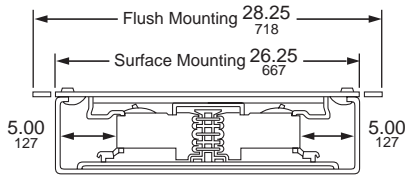
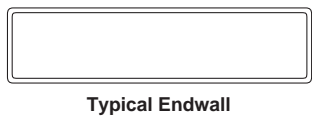
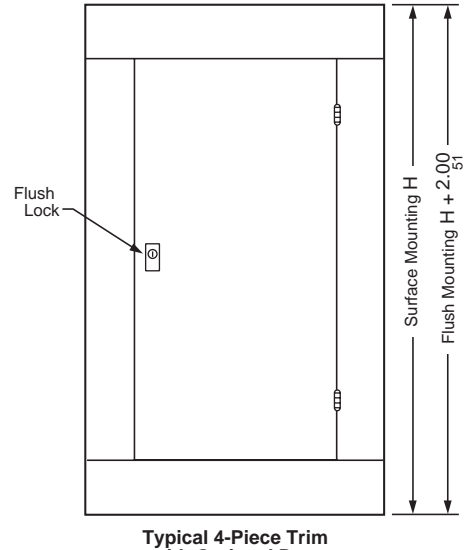
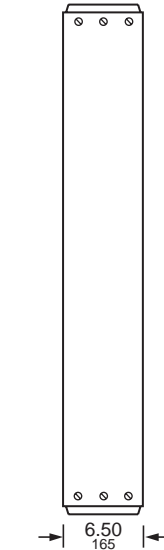
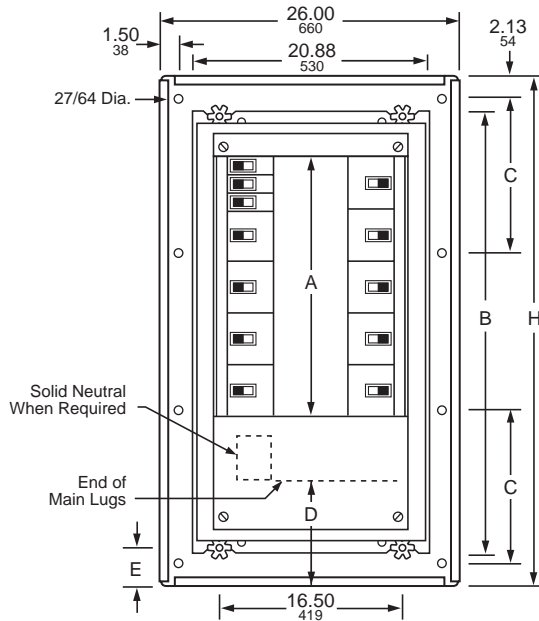
NOTE: All lugs are suitable for 75 °C wire. Torque values are included on the neutral diagram.

# I-Line® Circuit Breaker Panelboards

## Dimensions

### DIMENSIONS

#### Type HCN—600 A Maximum Main Lugs



Branch connection phasing is determined by circuit breaker selection.

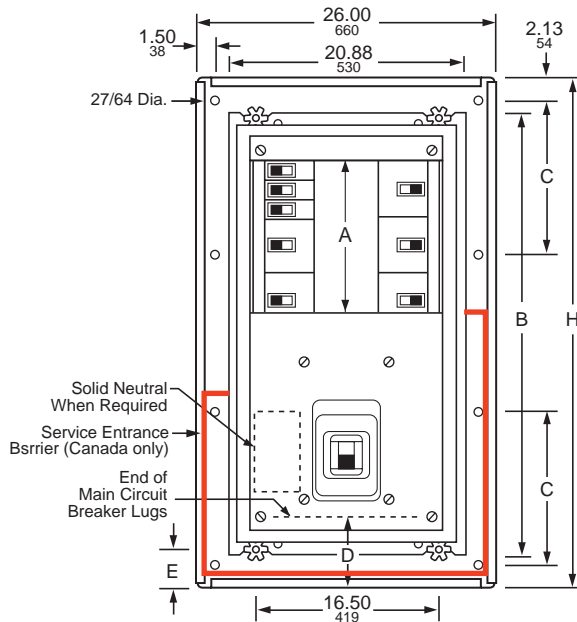
Dual Dimensions: INCHES  
Millimeters

| Main Lugs<br>Ampere<br>Rating | Catalog Number |         |                                |                             | H     |      | A     |      | B     |      | C     |     | D     |     | E     |     |
|-------------------------------|----------------|---------|--------------------------------|-----------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
|                               | Interior       | Box     | 4-Piece Trim<br>without Door ‡ | 4-Piece Trim<br>with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  | in.   | mm  |
| 225                           | HCN1452-2N ❖   | HC2652B | HCN52T( )                      | HCN52T( )D                  | 52.00 | 1321 | 13.50 | 343  | 29.50 | 749  | 23.85 | 606 | 15.56 | 395 | 11.50 | 292 |
|                               | HCN2365-2N     | HC2665B | HCN65T( )                      | HCN65T( )D                  | 65.00 | 1651 | 22.50 | 572  | 38.50 | 978  | 30.35 | 771 | 17.56 | 446 | 13.50 | 343 |
|                               | HCN3274-2N     | HC2674B | HCN74T( )                      | HCN74T( )D                  | 74.00 | 1880 | 31.50 | 800  | 47.50 | 1207 | 23.20 | 589 | 17.56 | 446 | 13.50 | 343 |
|                               | HCN4183-2N     | HC2683B | HCN83T( )                      | HCN83T( )D ■                | 83.00 | 2108 | 40.50 | 1029 | 56.50 | 1435 | 26.20 | 666 | 17.56 | 446 | 13.50 | 343 |
|                               | HCN5092-2N     | HC2692B | HCN92T( )                      | HCN92T( )D ■                | 92.00 | 2337 | 49.50 | 1257 | 65.50 | 1664 | 29.20 | 742 | 17.56 | 446 | 13.50 | 343 |
| 400                           | HCN1452-4 ❖    | HC2652B | HCN52T( )                      | HCN52T( )D                  | 52.00 | 1321 | 13.50 | 343  | 29.50 | 749  | 23.85 | 606 | 16.03 | 407 | 11.50 | 292 |
|                               | HCN2365-4      | HC2665B | HCN65T( )                      | HCN65T( )D                  | 65.00 | 1651 | 22.50 | 572  | 38.50 | 978  | 30.35 | 771 | 18.03 | 458 | 13.50 | 343 |
|                               | HCN3274-4      | HC2674B | HCN74T( )                      | HCN74T( )D                  | 74.00 | 1880 | 31.50 | 800  | 47.50 | 1207 | 23.20 | 589 | 18.03 | 458 | 13.50 | 343 |
|                               | HCN4183-4      | HC2683B | HCN83T( )                      | HCN83T( )D ■                | 83.00 | 2108 | 40.50 | 1029 | 56.50 | 1435 | 26.20 | 666 | 18.03 | 458 | 13.50 | 343 |
|                               | HCN5092-4      | HC2692B | HCN92T( )                      | HCN92T( )D ■                | 92.00 | 2337 | 49.50 | 1257 | 65.50 | 1664 | 29.20 | 742 | 18.03 | 458 | 13.50 | 343 |
| 600                           | HCN1452-6      | HC2652B | HCN52T( )                      | HCN52T( )D                  | 52.00 | 1321 | 13.50 | 343  | 29.50 | 749  | 23.85 | 606 | 16.59 | 421 | 11.50 | 292 |
|                               | HCN2365-6      | HC2665B | HCN65T( )                      | HCN65T( )D                  | 65.00 | 1651 | 22.50 | 572  | 38.50 | 978  | 30.35 | 771 | 18.59 | 472 | 13.50 | 343 |
|                               | HCN3274-6      | HC2674B | HCN74T( )                      | HCN74T( )D                  | 74.00 | 1880 | 31.50 | 800  | 47.50 | 1207 | 23.20 | 589 | 18.59 | 472 | 13.50 | 343 |
|                               | HCN4183-6      | HC2683B | HCN83T( )                      | HCN83T( )D ■                | 83.00 | 2108 | 40.50 | 1029 | 56.50 | 1435 | 26.20 | 666 | 18.59 | 472 | 13.50 | 343 |
|                               | HCN5092-6      | HC2692B | HCN92T( )                      | HCN92T( )D ■                | 92.00 | 2337 | 49.50 | 1257 | 65.50 | 1664 | 29.20 | 742 | 18.59 | 472 | 13.50 | 343 |

‡ Replace parentheses with "F" for flush or "S" for surface.  
 ■ Vault lock is supplied in lieu of flush lock.  
 ❖ Add Cu to suffix for copper bus.

# I-Line® Circuit Breaker Panelboards Dimensions

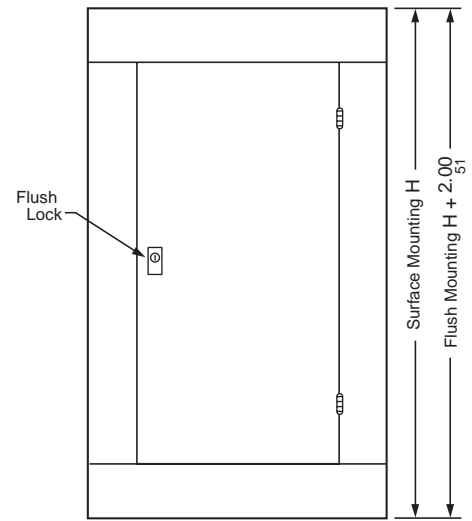
## Type HCN—400 A Maximum Main Circuit Breaker



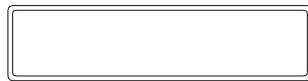
Typical Box with Interior



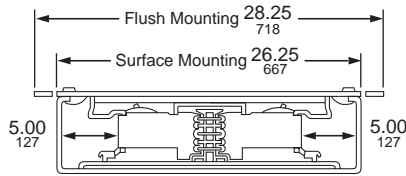
Typical Box Side View



Typical 4-Piece Trim with Optional Door

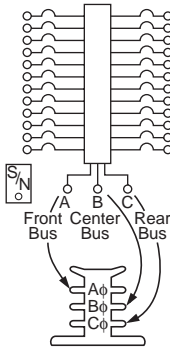


Typical Endwall

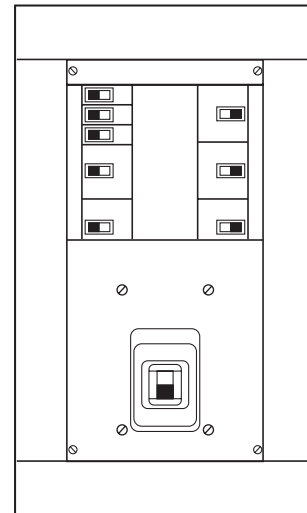


Typical Mounting of FA, FC, FH, FK, FY, HD, HG, HJ, HL, QB, QD, QG, QJ, or QO Circuit Breakers

Dual Dimensions: INCHES  
Millimeters



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



Typical 4-Piece Trim without Optional Door

| Main Circuit Breaker Ampere Rating | Catalog Number |         |                             |                          | H     |      | A     |      | B     |      | C     |     | D     |     | E     |     |
|------------------------------------|----------------|---------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
|                                    | Interior       | Box     | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  | in.   | mm  |
| 100                                | HCN0952-1MN    | HC2652B | HCN52T( )                   | HCN52T( )D               | 52.00 | 1321 | 9.00  | 229  | 29.50 | 749  | 23.85 | 606 | 14.78 | 375 | 11.50 | 292 |
|                                    | HCN1865-1MN    | HC2665B | HCN65T( )                   | HCN65T( )D               | 65.00 | 1651 | 18.00 | 457  | 38.50 | 978  | 30.35 | 771 | 16.78 | 426 | 13.50 | 343 |
|                                    | HCN2774-1MN    | HC2674B | HCN74T( )                   | HCN74T( )D               | 74.00 | 1880 | 27.00 | 686  | 47.50 | 1207 | 23.20 | 589 | 16.78 | 426 | 13.50 | 343 |
| 225                                | HCN0952-2MN ♦  | HC2652B | HCN52T( )                   | HCN52T( )D               | 52.00 | 1321 | 9.00  | 229  | 29.50 | 749  | 23.85 | 606 | 13.31 | 338 | 11.50 | 292 |
|                                    | HCN1865-2MN    | HC2665B | HCN65T( )                   | HCN65T( )D               | 65.00 | 1651 | 18.00 | 457  | 38.50 | 978  | 30.35 | 771 | 15.31 | 389 | 13.50 | 343 |
|                                    | HCN2774-2MN    | HC2674B | HCN74T( )                   | HCN74T( )D               | 74.00 | 1880 | 27.00 | 686  | 47.50 | 1207 | 23.20 | 589 | 15.31 | 389 | 13.50 | 343 |
|                                    | HCN3283-2MN    | HC2683B | HCN83T( )                   | HCN83T( )D ■             | 83.00 | 2108 | 31.50 | 800  | 56.50 | 1435 | 26.20 | 666 | 15.31 | 389 | 13.50 | 343 |
| 400                                | HCN4592-2MN    | HC2692B | HCN92T( )                   | HCN92T( )D ■             | 92.00 | 2337 | 45.00 | 1143 | 65.50 | 1664 | 29.20 | 742 | 15.31 | 389 | 13.50 | 343 |
|                                    | HCN1465-4M     | HC2665B | HCN65T( )                   | HCN65T( )D               | 65.00 | 1651 | 13.50 | 343  | 38.50 | 978  | 30.35 | 771 | 16.87 | 428 | 13.50 | 343 |
|                                    | HCN2374-4M     | HC2674B | HCN74T( )                   | HCN74T( )D               | 74.00 | 1880 | 22.50 | 572  | 47.50 | 1207 | 23.20 | 589 | 16.87 | 428 | 13.50 | 343 |
|                                    | HCN3283-4M     | HC2683B | HCN83T( )                   | HCN83T( )D ■             | 83.00 | 2108 | 31.50 | 800  | 56.50 | 1435 | 26.20 | 666 | 16.87 | 428 | 13.50 | 343 |
|                                    | HCN4192-4M     | HC2692B | HCN92T( )                   | HCN92T( )D ■             | 92.00 | 2337 | 40.50 | 1029 | 65.50 | 1664 | 29.20 | 742 | 16.87 | 428 | 13.50 | 343 |

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

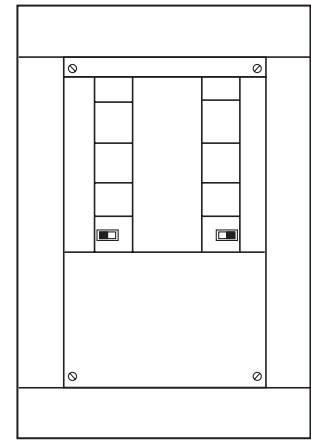
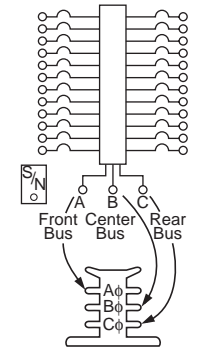
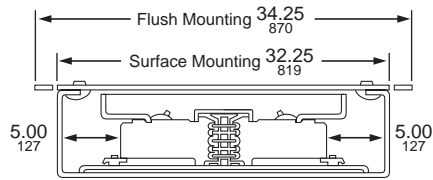
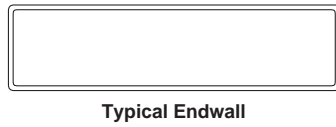
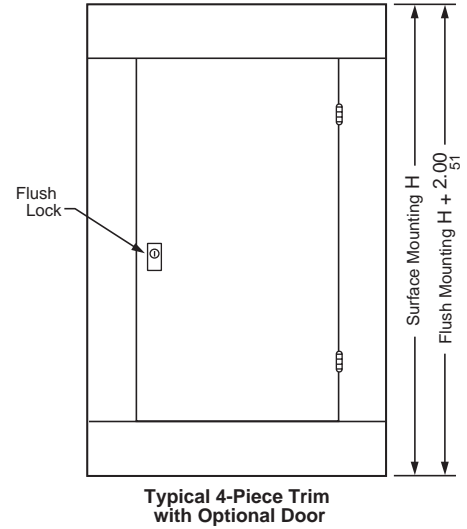
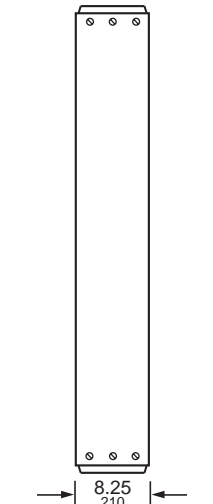
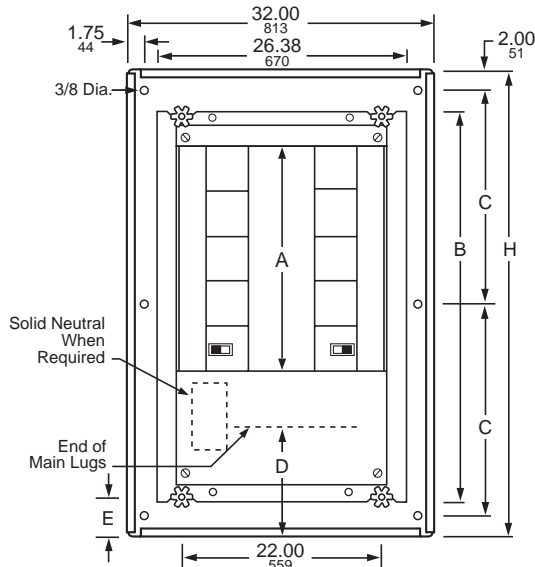
■ Vault lock is supplied in lieu of flush lock.

♦ Add Cu to suffix for copper bus.

# I-Line® Circuit Breaker Panelboards

## Dimensions

### Type HCM—800 A Maximum Main Lugs



Dual Dimensions: INCHES  
Millimeters

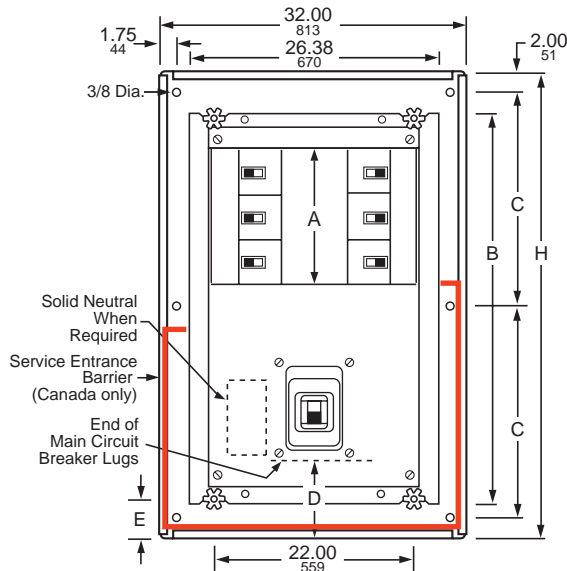
| Main Lugs<br>Ampere<br>Rating | Catalog Number |         |                             |                          | H     |      | A     |      | B     |      | C     |     | D     |     | E     |     |
|-------------------------------|----------------|---------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
|                               | Interior       | Box     | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  | in.   | mm  |
|                               |                |         |                             |                          |       |      |       |      |       |      |       |     |       |     |       |     |
| 225                           | HCM1448-2N ❖   | HC3248B | HCM48T( )                   | HCM48T( )D               | 48.00 | 1219 | 13.50 | 343  | 30.00 | 762  | 21.85 | 555 | 14.43 | 367 | 9.30  | 236 |
|                               | HCM2364-2N     | HC3264B | HCM64T( )                   | HCM64T( )D               | 64.00 | 1626 | 22.50 | 572  | 39.00 | 991  | 29.85 | 758 | 17.93 | 455 | 12.80 | 325 |
|                               | HCM3273-2N     | HC3273B | HCM73T( )                   | HCM73T( )D               | 73.00 | 1854 | 31.50 | 800  | 48.00 | 1219 | 22.90 | 582 | 17.93 | 455 | 12.80 | 325 |
|                               | HCM5091-2N     | HC3291B | HCM91T( )                   | HCM91T( )D               | 91.00 | 2311 | 49.50 | 1257 | 66.00 | 1676 | 28.90 | 734 | 17.93 | 455 | 12.80 | 325 |
| 400                           | HCM1448-4 ❖    | HC3248B | HCM48T( )                   | HCM48T( )D               | 48.00 | 1219 | 13.50 | 343  | 30.00 | 762  | 21.85 | 555 | 14.90 | 378 | 9.30  | 236 |
|                               | HCM2364-4      | HC3264B | HCM64T( )                   | HCM64T( )D               | 64.00 | 1626 | 22.50 | 572  | 39.00 | 991  | 29.85 | 758 | 18.40 | 467 | 12.80 | 325 |
|                               | HCM3273-4 ❖    | HC3273B | HCM73T( )                   | HCM73T( )D               | 73.00 | 1854 | 31.50 | 800  | 48.00 | 1219 | 22.90 | 582 | 18.40 | 467 | 12.80 | 325 |
|                               | HCM5091-4      | HC3291B | HCM91T( )                   | HCM91T( )D               | 91.00 | 2311 | 49.50 | 1257 | 66.00 | 1676 | 28.90 | 734 | 18.40 | 467 | 12.80 | 325 |
| 600                           | HCM1448-6 ❖    | HC3248B | HCM48T( )                   | HCM48T( )D               | 48.00 | 1219 | 13.50 | 343  | 30.00 | 762  | 21.85 | 555 | 16.50 | 419 | 9.30  | 236 |
|                               | HCM2364-6      | HC3264B | HCM64T( )                   | HCM64T( )D               | 64.00 | 1626 | 22.50 | 572  | 39.00 | 991  | 29.85 | 758 | 20.00 | 508 | 12.80 | 325 |
|                               | HCM3273-6 ❖    | HC3273B | HCM73T( )                   | HCM73T( )D               | 73.00 | 1854 | 31.50 | 800  | 48.00 | 1219 | 22.90 | 582 | 20.00 | 508 | 12.80 | 325 |
|                               | HCM5091-6      | HC3291B | HCM91T( )                   | HCM91T( )D               | 91.00 | 2311 | 49.50 | 1257 | 66.00 | 1676 | 28.90 | 734 | 20.00 | 508 | 12.80 | 325 |
| 800                           | HCM1448-8      | HC3248B | HCM48T( )                   | HCM48T( )D               | 48.00 | 1219 | 13.50 | 343  | 30.00 | 762  | 21.85 | 555 | 15.32 | 389 | 9.30  | 236 |
|                               | HCM2364-8      | HC3264B | HCM64T( )                   | HCM64T( )D               | 64.00 | 1626 | 22.50 | 572  | 39.00 | 991  | 29.85 | 758 | 18.82 | 478 | 12.80 | 325 |
|                               | HCM3273-8      | HC3273B | HCM73T( )                   | HCM73T( )D               | 73.00 | 1854 | 31.50 | 800  | 48.00 | 1219 | 22.90 | 582 | 18.82 | 478 | 12.80 | 325 |
|                               | HCM5091-8      | HC3291B | HCM91T( )                   | HCM91T( )D               | 91.00 | 2311 | 49.50 | 1257 | 66.00 | 1676 | 28.90 | 734 | 18.82 | 478 | 12.80 | 325 |

‡ Replace parentheses with "F" for flush or "S" for surface.  
 ❖ Two flush locks are supplied.  
 ❖ Add Cu to suffix for copper bus.

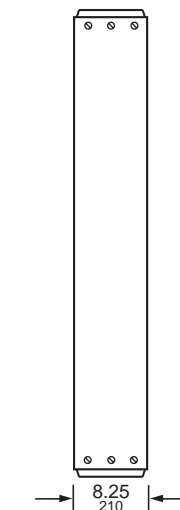


# I-Line® Circuit Breaker Panelboards Dimensions

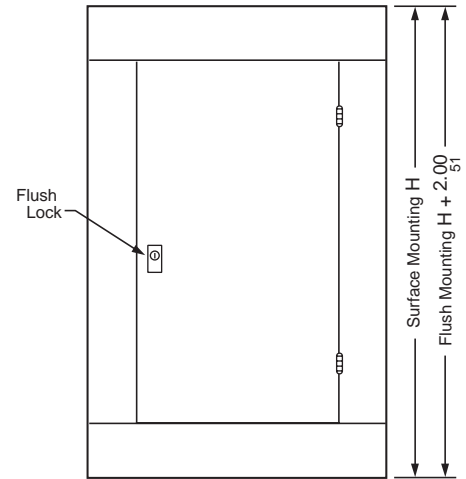
## Type HCM—400 A Maximum Main Circuit Breaker



Typical Box with Interior



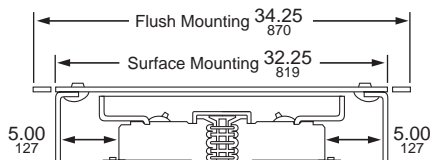
Typical Box Side View



Typical 4-Piece Trim with Optional Door



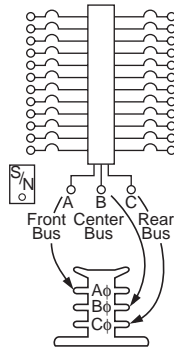
Typical Endwall



Typical Mounting of FY, FA, FH, FC, FK, FI, HD, HG, HJ, HL, JD, JG, JJ, JL, Circuit Breakers

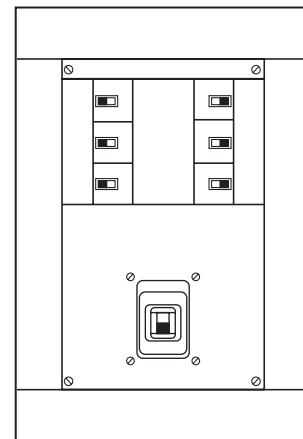
Circuit Breakers

Dual Dimensions: INCHES  
Millimeters



Typical Wiring Diagram

Branch connection phasing is determined by circuit breaker selection.



Typical 4-Piece Trim without Optional Door

| Main Circuit Breaker Ampere Rating | Catalog Number |         |                             |                          | H     |      | A     |      | B     |      | C     |     | D     |     | E     |     |
|------------------------------------|----------------|---------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|-----|
|                                    | Interior       | Box     | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  | in.   | mm  |
| 225                                | HCM1864-2MN    | HC3264B | HCM64T()                    | HCM64T()D                | 64.00 | 1626 | 18.00 | 457  | 39.00 | 991  | 29.85 | 758 | 15.50 | 394 | 12.80 | 325 |
| 225                                | HCM2773-2MN ❖  | HC3273B | HCM73T()                    | HCM73T()D ◆              | 73.00 | 1854 | 27.00 | 686  | 48.00 | 1219 | 22.90 | 582 | 15.50 | 394 | 12.80 | 325 |
| 400                                | HCM1464-4M     | HC3264B | HCM64T()                    | HCM64T()D                | 64.00 | 1626 | 13.50 | 343  | 39.00 | 991  | 29.85 | 758 | 16.96 | 431 | 12.80 | 325 |
| 400                                | HCM2373-4M     | HC3273B | HCM73T()                    | HCM73T()D ◆              | 73.00 | 1854 | 22.50 | 572  | 48.00 | 1219 | 22.90 | 582 | 16.96 | 431 | 12.80 | 325 |
| 400                                | HCM4191-4M ❖   | HC3291B | HCM91T()                    | HCM91T()D ◆              | 91.00 | 2311 | 40.50 | 1029 | 66.00 | 1676 | 28.90 | 734 | 16.96 | 431 | 12.80 | 325 |

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

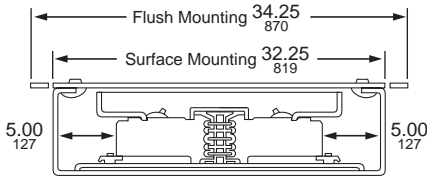
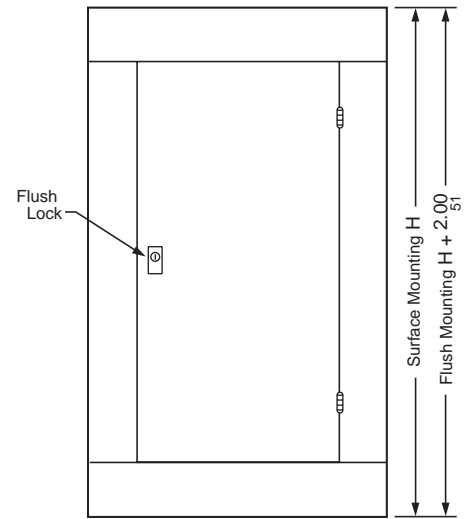
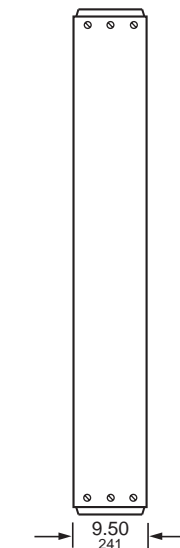
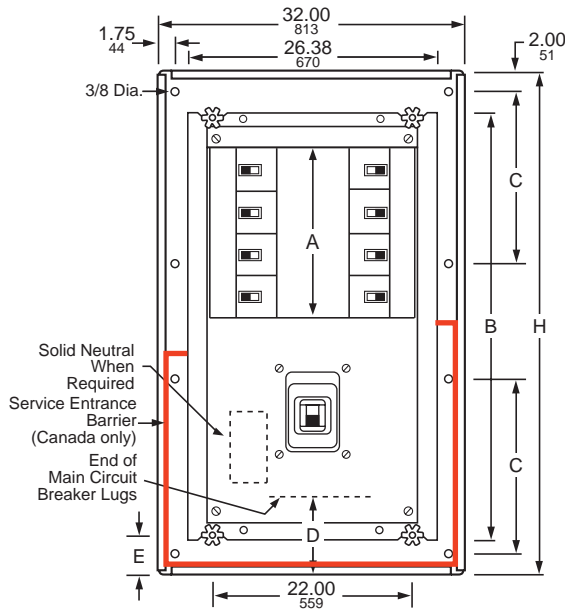
◆ Two flush locks are supplied.

❖ Add Cu to suffix for copper bus.

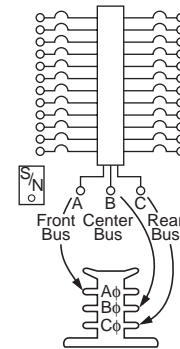
# I-Line® Circuit Breaker Panelboards

## Dimensions

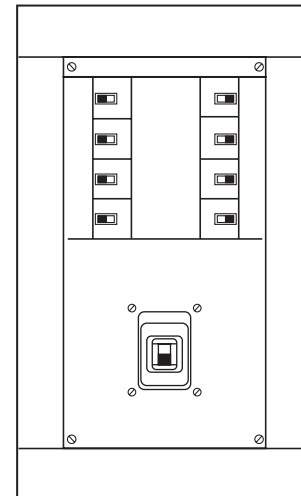
### Type HCM—800 A Maximum Main Circuit Breaker



Dual Dimensions: INCHES  
Millimeters



Branch connection phasing is determined by circuit breaker selection.



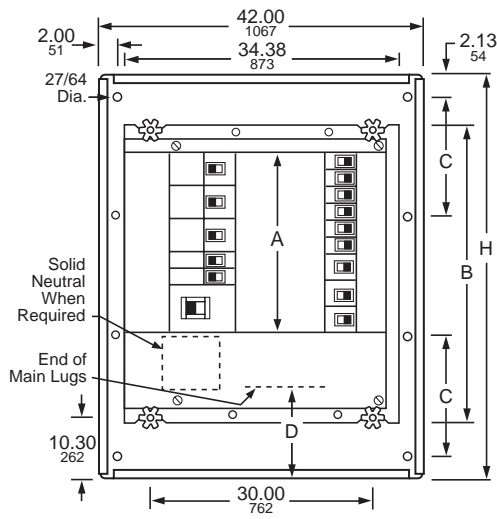
| Main Circuit Breaker Ampere Rating | Catalog Number |             |                             |                            | H          |       | A     |       | B     |       | C     |       | D     |       | E     |       |
|------------------------------------|----------------|-------------|-----------------------------|----------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                    | Interior       | Box         | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ ◆ | in.        | mm    | in.   | mm    | in.   | mm    | in.   | mm    | in.   | mm    | in.   | mm    |
|                                    | 600            | HCM1873-6MP | HC3273DB9                   | HCM73T( )                  | HCM73T(JD) | 73.00 | 1854  | 18.00 | 457   | 48.00 | 1219  | 22.90 | 582   | 18.68 | 474   | 12.80 |
|                                    | HCM3691-6MP    | HC3291DB9   | HCM91T( )                   | HCM91T(JD)                 | 91.00      | 2311  | 36.00 | 914   | 66.00 | 1676  | 28.90 | 734   | 18.68 | 474   | 12.80 | 325   |
| 800                                | HCM1873-8MP    | HC3273DB9   | HCM73T( )                   | HCM73T(JD)                 | 73.00      | 1854  | 18.00 | 457   | 48.00 | 1219  | 22.90 | 582   | 18.68 | 474   | 12.80 | 325   |
|                                    | HCM3691-8MP    | HC3291DB9   | HCM91T( )                   | HCM91T(JD)                 | 91.00      | 2311  | 36.00 | 914   | 66.00 | 1676  | 28.90 | 734   | 18.68 | 474   | 12.80 | 325   |

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

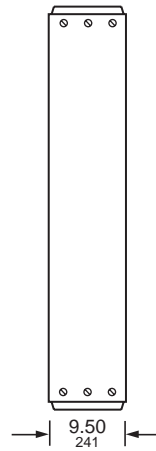
◆ Two flush locks are supplied.

# I-Line® Circuit Breaker Panelboards Dimensions

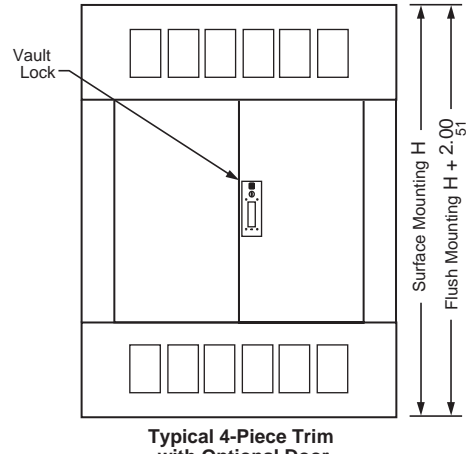
## Type HCP—800 A Maximum Main Lugs



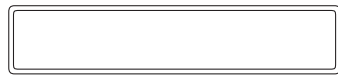
Typical Box with Interior



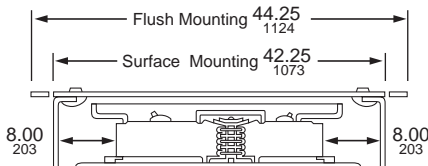
Typical Box Side View



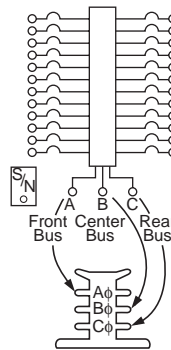
Typical 4-Piece Trim with Optional Door



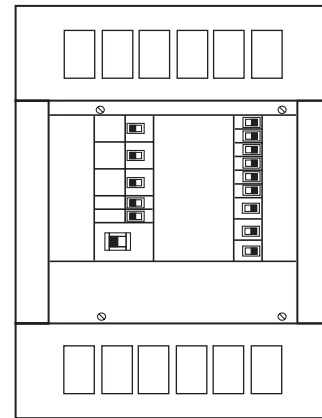
Typical Endwall



Typical Mounting of FY, FA, FH, FC, FK, FI, HD, HG, HJ, HL, JD, JG, JJ, JL, KA, KH, KC, KI, LA, LH, LC, LI, LXI, LE, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ, or QO Circuit Breakers



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



Typical 4-Piece Trim without Optional Door

Dual Dimensions: INCHES  
Millimeters

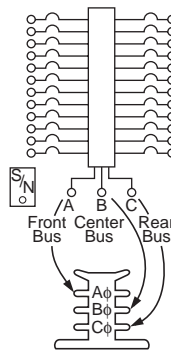
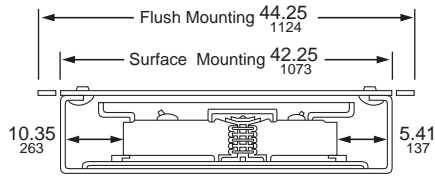
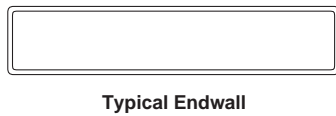
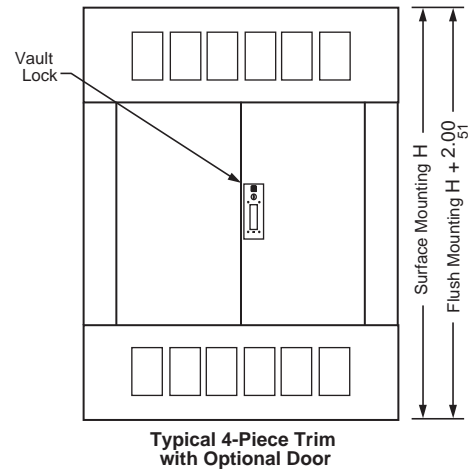
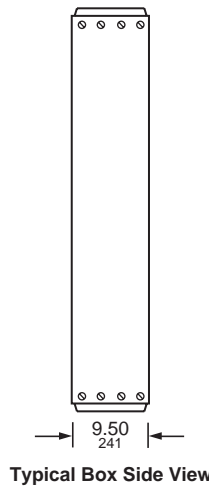
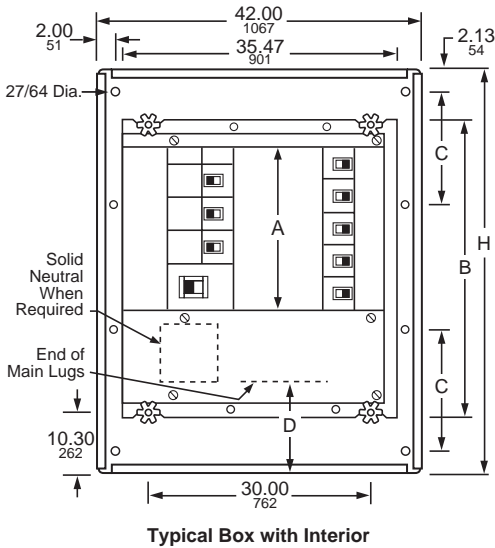
| Main Lugs Ampere Rating | Catalog Number |          |                             |                          | H     |      | A     |      | B     |      | C     |     | D     |     |
|-------------------------|----------------|----------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|
|                         | Interior       | Box      | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  |
| 400                     | HCP1450-4      | HC4250DB | HCW50T()                    | HCW50T()D                | 50.00 | 1270 | 13.50 | 343  | 30.00 | 762  | 22.85 | 580 | 17.50 | 445 |
|                         | HCP2359-4      | HC4259DB | HCW59T()                    | HCW59T()D                | 59.00 | 1499 | 22.50 | 572  | 39.00 | 991  | 27.35 | 695 | 17.50 | 445 |
|                         | HCP3268-4      | HC4268DB | HCW68T()                    | HCW68T()D                | 68.00 | 1727 | 31.50 | 800  | 48.00 | 1219 | 31.85 | 809 | 17.50 | 445 |
|                         | HCP5086-4      | HC4286DB | HCW86T()                    | HCW86T()D                | 86.00 | 2184 | 49.50 | 1257 | 66.00 | 1676 | 27.23 | 692 | 17.50 | 445 |
| 600                     | HCP1450-6      | HC4250DB | HCW50T()                    | HCW50T()D                | 50.00 | 1270 | 13.50 | 343  | 30.00 | 762  | 22.85 | 580 | 17.50 | 445 |
|                         | HCP2359-6      | HC4259DB | HCW59T()                    | HCW59T()D                | 59.00 | 1499 | 22.50 | 572  | 39.00 | 991  | 27.35 | 695 | 17.50 | 445 |
|                         | HCP3268-6      | HC4268DB | HCW68T()                    | HCW68T()D                | 68.00 | 1727 | 31.50 | 800  | 48.00 | 1219 | 31.85 | 809 | 17.50 | 445 |
|                         | HCP5086-6      | HC4286DB | HCW86T()                    | HCW86T()D                | 86.00 | 2184 | 49.50 | 1257 | 66.00 | 1676 | 27.23 | 692 | 17.50 | 445 |
| 800                     | HCP1450-8      | HC4250DB | HCW50T()                    | HCW50T()D                | 50.00 | 1270 | 13.50 | 343  | 30.00 | 762  | 22.85 | 580 | 16.32 | 415 |
|                         | HCP2359-8      | HC4259DB | HCW59T()                    | HCW59T()D                | 59.00 | 1499 | 22.50 | 572  | 39.00 | 991  | 27.35 | 695 | 16.32 | 415 |
|                         | HCP3268-8      | HC4268DB | HCW68T()                    | HCW68T()D                | 68.00 | 1727 | 31.50 | 800  | 48.00 | 1219 | 31.85 | 809 | 16.32 | 415 |
|                         | HCP5086-8      | HC4286DB | HCW86T()                    | HCW86T()D                | 86.00 | 2184 | 49.50 | 1257 | 66.00 | 1676 | 27.23 | 692 | 16.32 | 415 |

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

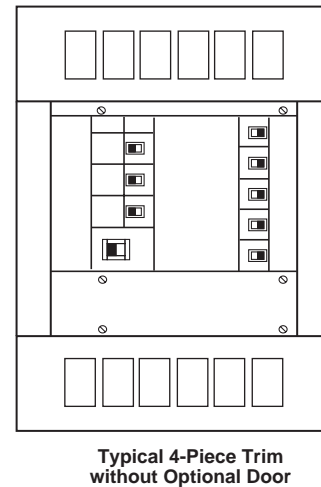
# I-Line® Circuit Breaker Panelboards

## Dimensions

### Type HCP—1200 A Maximum Main Lugs



Branch connection phasing is determined by circuit breaker selection.



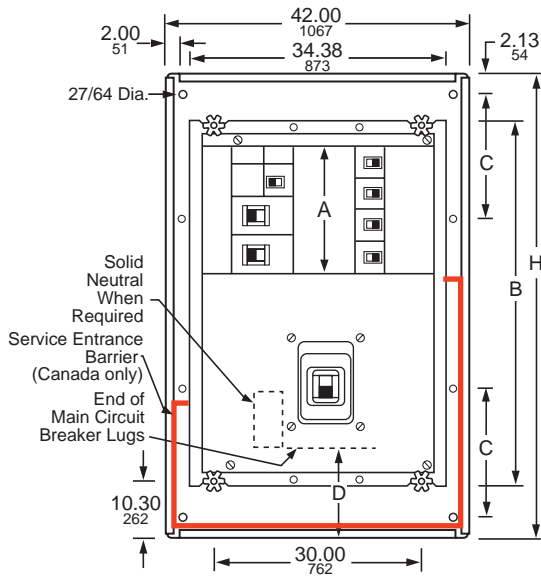
Dual Dimensions: INCHES  
Millimeters

| Main Lugs Ampere Rating | Catalog Number |          |                             |                          | H     |      | A     |      | B     |      | C     |     | D     |     |
|-------------------------|----------------|----------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|-------|-----|
|                         | Interior       | Box      | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  | in.   | mm  |
| 1200                    | HCP1450-12N    | HC4250DB | HCW50T()                    | HCW50T()D                | 50.00 | 1270 | 13.50 | 343  | 30.00 | 762  | 22.85 | 580 | 16.32 | 415 |
|                         | HCP2359-12N    | HC4259DB | HCW59T()                    | HCW59T()D                | 59.00 | 1499 | 22.50 | 572  | 39.00 | 991  | 27.23 | 692 | 16.32 | 415 |
|                         | HCP3268-12N    | HC4268DB | HCW68T()                    | HCW68T()D                | 68.00 | 1727 | 31.50 | 800  | 48.00 | 1219 | 31.85 | 809 | 16.32 | 415 |
|                         | HCP5086-12N    | HC4286DB | HCW86T()                    | HCW86T()D                | 86.00 | 2184 | 49.50 | 1257 | 66.00 | 1676 | 27.23 | 692 | 16.32 | 415 |

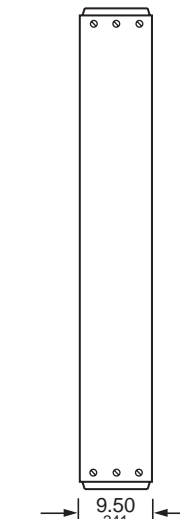
‡ Replace parentheses with "F" for flush or "S" for surface.

# I-Line® Circuit Breaker Panelboards Dimensions

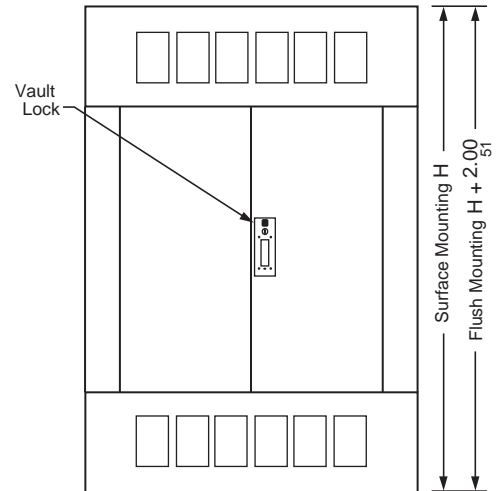
## Type HCP—800 A Maximum Main Circuit Breaker



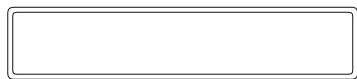
Typical Box with Interior



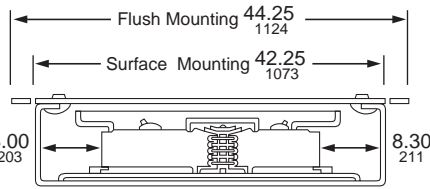
Typical Box Side View



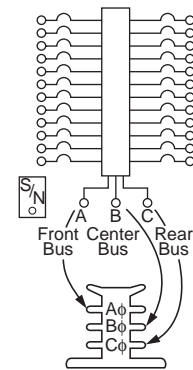
Typical 4-Piece Trim with Optional Door



Typical Endwall

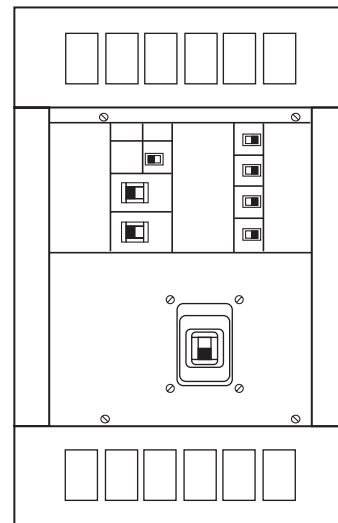


Typical Mounting of FY, FA, FH, FC, FK, FI, HD, HG, HJ, HL, JD, JG, JJ, JL, KA, KH, KC, KI, LA, LH, LC, LI, LXI, LE, MG, MJ, QB, QD, QG, QJ, or QO Circuit Breakers



Typical Wiring Diagram

Branch connection phasing is determined by circuit breaker selection.



Typical 4-Piece Trim without Optional Door

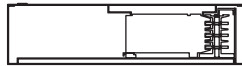
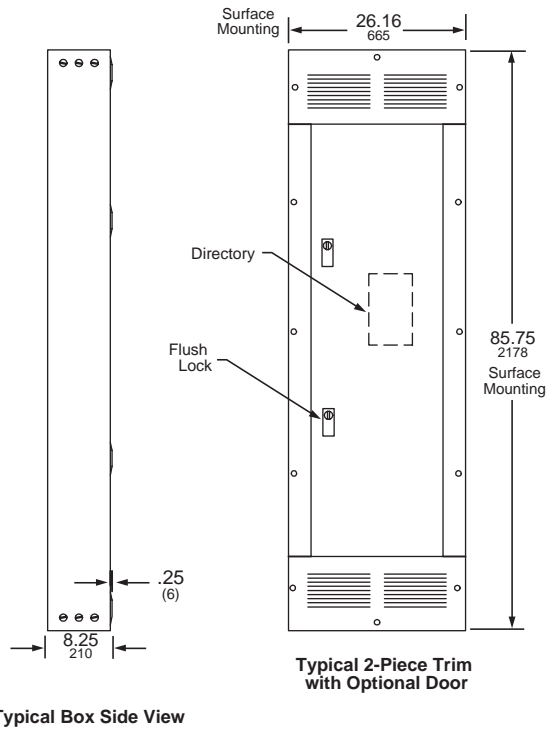
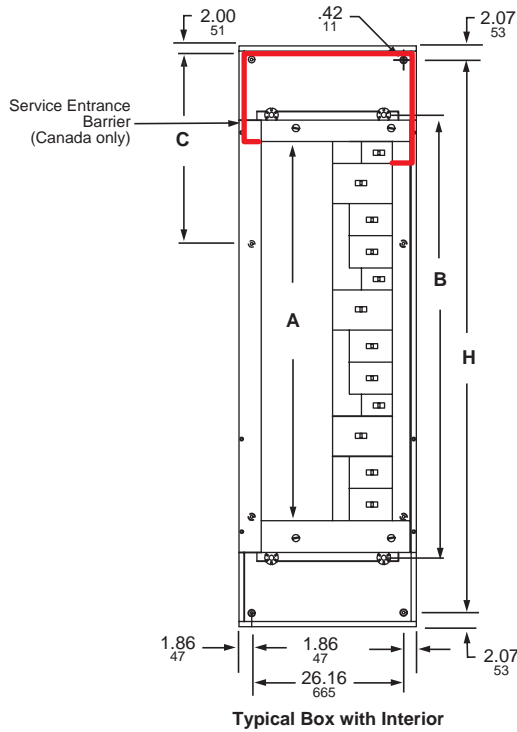
Dual Dimensions: INCHES  
Millimeters

| Main Circuit Breaker Ampere Rating | Catalog Number |          |                             |                          | H     |      | A     |     | B     |      | C     |     | D     |     |
|------------------------------------|----------------|----------|-----------------------------|--------------------------|-------|------|-------|-----|-------|------|-------|-----|-------|-----|
|                                    | Interior       | Box      | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm  | in.   | mm   | in.   | mm  | in.   | mm  |
| 600                                | HCP1868-6M     | HC4268DB | HCW68T( )                   | HCW68T(J)D               | 68.00 | 1727 | 18.00 | 457 | 48.00 | 1219 | 31.85 | 809 | 18.68 | 474 |
|                                    | HCP3686-6M     | HC4286DB | HCW86T( )                   | HCW86T(J)D               | 86.00 | 2184 | 36.00 | 914 | 66.00 | 1676 | 27.23 | 692 | 18.68 | 474 |
| 800                                | HCP1868-8M     | HC4268DB | HCW68T( )                   | HCW68T(J)D               | 68.00 | 1727 | 18.00 | 457 | 48.00 | 1219 | 31.85 | 809 | 18.68 | 474 |
|                                    | HCP3686-8M     | HC4286DB | HCW86T( )                   | HCW86T(J)D               | 86.00 | 2184 | 36.00 | 914 | 66.00 | 1676 | 27.23 | 692 | 18.68 | 474 |

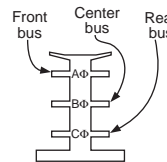
‡ Replace parentheses with "F" for flush or "S" for surface.

# I-Line® Circuit Breaker Panelboards Dimensions

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

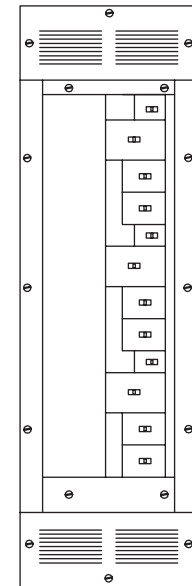


Typical Mounting of FY, FA, FH, FC, FK, FI, HD, HG, HJ, HL, JD, JG, JJ, JL, KA, KH, KC, KI, LA, LH, LC, LI, LX, LE, LXI, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ, or QO Circuit Breakers



Branch connection phasing is determined by circuit breaker selection.

Dual Dimensions: INCHES  
Millimeters



Typical 2-Piece Trim without Optional Door

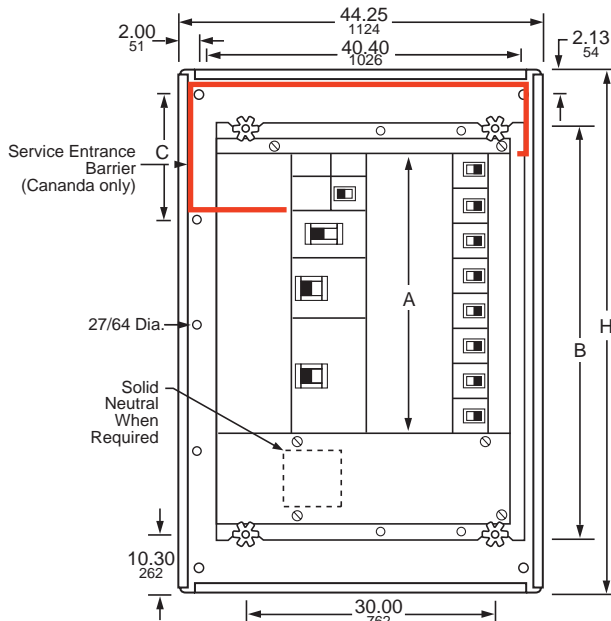
| Main Circuit Breaker Ampere Rating | Catalog Number |          |                               |                            | H     |      | A     |      | B     |      | C     |     |
|------------------------------------|----------------|----------|-------------------------------|----------------------------|-------|------|-------|------|-------|------|-------|-----|
|                                    | Interior       | Box      | 2-Piece Trim without Door ‡ ◆ | 2-Piece Trim with Door ‡ ◆ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  |
| 800                                | HCP5486-8SU    | HC2686DB | HC2686T( )                    | HC2686T( )D                | 86.00 | 2184 | 54.00 | 1372 | 65.40 | 1661 | 27.23 | 692 |

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

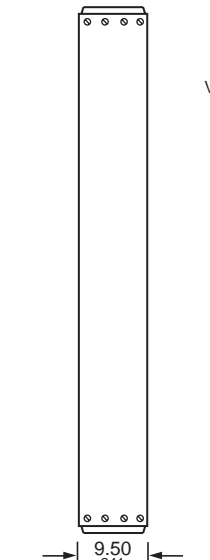
◆ Flush trims are 4-piece.

# I-Line® Circuit Breaker Panelboards Dimensions

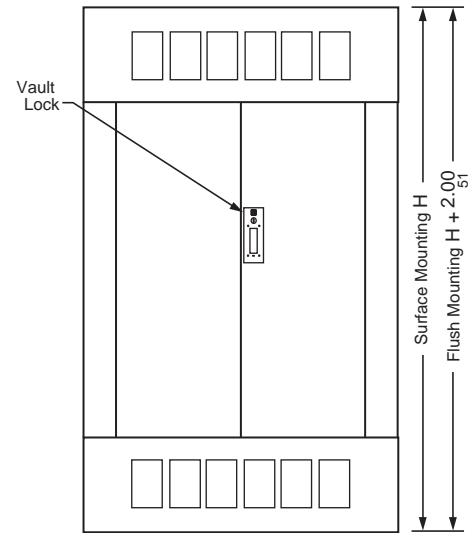
## Type HCR-U—1200 A Main Lugs or Main Circuit Breaker



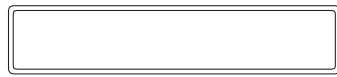
Typical Box with Interior



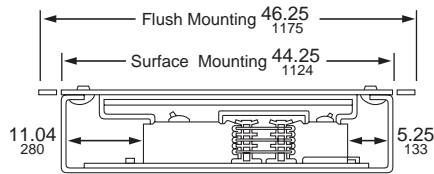
Typical Box Side View



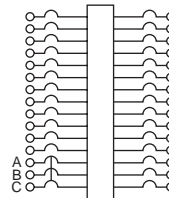
Typical 4-Piece Trim with Optional Door



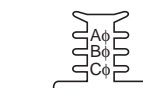
Typical Endwall



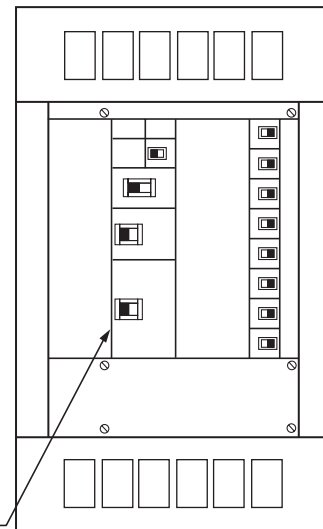
Typical Mounting of FY, FA, FH, FC, FK, FI, HD, HG, HJ, HL, JD, JG, JJ, JL, KA, KH, KC, KI, LA, LH, LC, LI, LX, LE, LXI, MA, MH, MG, MJ, PG, PJ, PK, PL, QB, QD, QG, QJ, or QO, RG, RJ, RK, and RL Circuit Breakers



Typical Wiring Diagram  
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:)



Typical 4-Piece Trim without Optional Door

Dual Dimensions: INCHES  
Millimeters

| Main Lugs or Main Circuit Breaker Ampere Rating | Catalog Number |          |                             |                          | H     |      | A     |      | B     |      | C     |     |
|---|----------------|----------|-----------------------------|--------------------------|-------|------|-------|------|-------|------|-------|-----|
|   | Interior       | Box      | 4-Piece Trim without Door ‡ | 4-Piece Trim with Door ‡ | in.   | mm   | in.   | mm   | in.   | mm   | in.   | mm  |
| 1200  | HCR5486-12U    | HC4486DB | HCR86T()                    | HCR86T()D                | 86.00 | 2184 | 54.00 | 1372 | 65.10 | 1654 | 18.00 | 457 |

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

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.

# I-Line® Circuit Breaker Panelboards Replacement Parts

## REPLACEMENT PARTS

Main Lugs and Main Circuit Breaker Parts and Part Numbers

Type HCN—600 A Maximum Main Lugs and Main Circuit Breakers

### HCN Main Lugs Only

|  |                    |   |  |
|--|--------------------|---|--|
|  | <b>Code Letter</b> | <b>Description</b>  | <b>Part Number</b>   |
|  | Not Shown          | Interior Deadfront Trim Assembly<br>27" Breaker Mounting Space<br>45" Breaker Mounting Space<br>63" Breaker Mounting Space<br>81" Breaker Mounting Space<br>99" Breaker Mounting Space<br>Screw, Interior Trim Mounting (4) | 80104-411-50<br>80104-411-51<br>80104-411-52<br>80104-411-53<br>80104-411-54<br>80025-067-01 |
|  | A                  | End Barrier Assembly<br>Screw, Barrier Mounting (4)   | 40517-500-01<br>80114-171-01   |
|  | Not Shown          | Lug Cover Strap   | 80104-018-02   |
|  | B<br>C             | Mains Compartment Shield<br>Left (fingered)<br>Right (plain)<br>Push Rivet, Shield Mounting (2 each)  | 40517-505-01<br>40517-506-01<br>29215-52126  |
|  | D                  | Lug Compartment Cover Assembly<br>Screw, Cover Mounting (4)   | 40517-507-50<br>80114-171-01   |
|  | E                  | Screw, Lug Cover (2)  | 80025-067-01   |
|  | F<br>G             | Bracket, Lug Cover and Trim Support<br>Screw, Bracket Mounting (2 each)   | 40517-499-01<br>80114-171-01   |
|  | H                  | Main Lug<br>225 A<br>400–600 A<br>Mounting Assembly<br>225 A–Nut<br>400 and 600 A     –Bolt<br>–Nut<br>–Washer  | 40251-162-51<br>80116-122-50<br><br>23427-02200<br>21401-28483<br>23427-02800<br>23903-33201 |
|  | J<br>K             | Neutral Insulator<br>Screw, Insulator Mounting—225 A (2)<br>Screw, Insulator Mounting—400 and 600 A (2)   | 40517-101-01<br>21903-20200<br>80114-171-01  |
|  | L                  | Insulator, CØ Lug—400 and 600 A Only  | 221838   |

### HCN Main Circuit Breaker

|  | <b>Code Letter</b> | <b>Description</b>  | <b>Part Number</b>  |  |
|--|--------------------|---|---|--|
|  |                    |   | <b>100–225 A Mains</b>  | <b>400 A Mains</b>   |
|  | Not Shown          | Interior Deadfront Trim Assembly<br>18" Breaker Mounting Space<br>27" Breaker Mounting Space<br>36" Breaker Mounting Space<br>45" Breaker Mounting Space<br>54" Breaker Mounting Space<br>63" Breaker Mounting Space<br>81" Breaker Mounting Space<br>90" Breaker Mounting Space<br>Screw, Interior Trim Mounting (8) | 80104-414-50<br>—<br>80104-410-50<br>—<br>80104-410-51<br>—<br>80104-410-57<br>—<br>80104-410-52<br>—<br>80025-067-01 | —<br>80104-414-51<br>—<br>80104-410-54<br>—<br>80104-410-58<br>80104-410-56<br>— |
|  | A                  | End Barrier Assembly<br>Screw, Barrier Mounting (4)   | 40517-500-01<br>—   | 40517-500-01<br>80114-171-01   |
|  | B<br>C             | Mains Compartment Shield<br>Left (fingered)<br>Right (plain)<br>Push Rivet, Shield Mounting (2 each)  | 40517-505-01<br>40517-506-01<br>29215-52126   | 40517-505-01<br>40517-506-01<br>29215-52126                                      |
|  | N<br>O             | Bus Stack Shields<br>Left<br>Right<br>Screw, Shield Mounting (2 each)   | 80104-821-01<br>80104-820-01<br>—   | 80104-821-01<br>80104-820-01<br>80114-171-01                                     |
|  | F<br>G             | Bracket, Trim Support<br>Screw, Bracket Mounting (2 each)   | 40517-499-01<br>—   | 40517-499-01<br>80114-171-01   |
|  | J<br>K             | Neutral Insulator<br>Screw, Insulator Mounting (2)  | —<br>21903-20200  | 40517-101-01<br>80114-171-01   |
|  | M                  | Main Breaker<br>100 A<br>225 A<br><br>400 A   | FA 36100<br>JD 36225<br><br>—   | —<br>—<br><br>LAP 36400 MB   |



# I-Line® Circuit Breaker Panelboards Replacement Parts

Type HCM—800 A Maximum Main Lugs and Main Circuit Breakers

## HCM Main Lugs Only

|  | Code Letter        | Description   | Part Number   |  |   |
|--|--------------------|---|---|--|---|
|  |                    |   | 225–400 A   | 600–800 A  |   |
|  | Not Shown          | Interior Deadfront Trim Assembly<br>27" Breaker Mounting Space<br>45" Breaker Mounting Space<br>63" Breaker Mounting Space<br>99" Breaker Mounting Space<br>Screw, Interior Deadfront Trim Mounting (5) | 80104-988-50<br>80104-988-51<br>80104-988-52<br>80104-987-53<br>— | 80104-987-50<br>80104-987-51<br>80104-987-52<br>80104-987-53<br>80025-067-01 |   |
|  | A                  | End Barrier Assembly<br>Screw, Barrier Mounting (4)<br>End Barrier Insulator  | 40517-007-01<br>—<br>80104-056-01                                 | 40517-007-01<br>80114-171-01<br>—  |   |
|  | Not Shown          | Lug Cover Strap<br>Screw, Cover Strap Mounting  | 80104-018-02<br>21594-12061                                       | 80104-018-02<br>21594-12061  |   |
|  | B<br>C             | Mains Compartment Shield<br>Left (fingered)<br>Right (plain)<br>Push Rivet, Shield Mounting (2 each)  | 2200068<br>2200069<br>29215-52126                                 | 2200068<br>2200069<br>29215-52126  |   |
|  | D<br>E             | Lug Compartment Cover Assembly<br>Screw, Cover Mounting (4)<br>Screw, Lug Cover (2)   | 40517-002-50<br>—<br>—  | 40517-002-50<br>80114-171-01<br>80025-067-01                                 |   |
|  | F<br>G             | Bracket, Lug Cover and Trim Support<br>Screw, Bracket Mounting (2 each)   | 80104-385-01<br>—   | 80104-385-01<br>80114-171-01   |   |
|  | <b>Code Letter</b> | <b>Description</b>  | <b>225 A</b>  | <b>400–600 A</b>   | <b>800 A</b>  |
|  | H                  | Main Lugs Assembly<br>Lug<br>Nut (1 per lug)<br>Stud (1 per lug)<br>Washer, Lug Mounting (1 per lug)<br>Washer (1 per lug)  | 40251-162-51<br>23427-02200<br>—<br>—<br>—                        | 80116-122-50<br>23427-02800<br>23903-33201<br>21401-28483<br>—               | 25098-25110<br>23040-28000<br>21401-28643<br>23903-33201<br>23903-34002 |
|  | J                  | Neutral Insulator<br>Screw, Insulator Mounting (2)  | 40517-101-01<br>21903-20200                                       | 221869<br>21903-20200  | 221869<br>80114-171-01  |

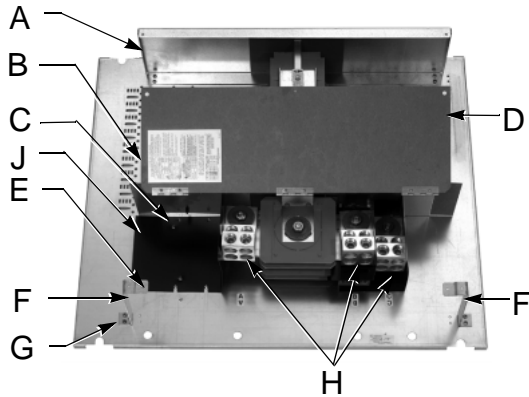
## HCM Main Circuit Breaker

|  | Code Letter | Description   | Part Number  |  |
|--|-------------|---|--|--|
|  |             |   | 225–400 A Mains  | 600–800 A  |
|  | Not Shown   | Interior Deadfront Trim Assembly<br>18" Breaker Mounting Space<br>27" Breaker Mounting Space<br>36" Breaker Mounting Space<br>45" Breaker Mounting Space<br>54" Breaker Mounting Space<br>72" Breaker Mounting Space<br>81" Breaker Mounting Space<br>90" Breaker Mounting Space<br>Screw, Interior Deadfront Trim Mounting (8) | 80104-989-50<br>80104-991-50<br>80104-989-51<br>80104-991-51<br>80104-989-52<br>—<br>80104-991-52<br>80104-989-53<br>— | —<br>—<br>80104-738-52<br>—<br>—<br>80104-738-53<br>—<br>—<br>80025-067-01 |
|  | A           | End Barrier Assembly<br>Screw, Barrier Mounting (4)<br>End Barrier Insulator  | 40517-007-01<br>—  | 40517-007-01<br>80114-171-01   |
|  | B<br>C      | Mains Compartment Shield<br>Left (fingered)<br>Right (plain)<br>Push Rivet, Shield Mounting (2 each)  | 2200074<br>2200075<br>29215-52126  | 40517-093-01<br>40517-098-01<br>29215-52126                                |
|  | K<br>L      | Bus Stack Shields<br>Left<br>Right<br>Screw, Shield Mounting (2 each)   | 80104-821-01<br>80104-820-01<br>—  | 80104-821-01<br>80104-820-01<br>80114-171-01                               |
|  | F<br>G      | Bracket, Trim Support<br>Screw, Bracket Mounting (2 each)   | 80104-384-01<br>—  | 80104-384-01<br>80114-171-01   |
|  | N<br>O      | Neutral Insulator<br>Screw, Insulator Mounting (2) –225 A<br>—400, 600, 800 A   | 40517-101-01<br>21903-20200<br>—   | 40517-101-01<br>—<br>80114-171-01  |
|  | M           | Main Breaker<br>225 A<br>400 A<br>600 A<br>800 A  | JD 35225<br>LA 36400<br>—<br>—   | —<br>—<br>MGP 36600<br>MGP 36800   |

# I-Line® Circuit Breaker Panelboards Replacement Parts

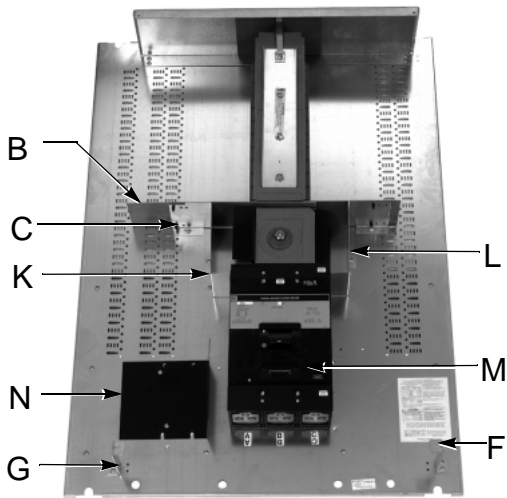
Type HCP—1200 A Main Lugs and 800 A Main Breakers

## HCP Main Lugs Only



| Code Letter | Description   | Part Number  |  |   |
|-------------|---|--|--|---|
|             |   | 400 A Mains  | 600–800 A Mains  | 1200 A Mains  |
| Not Shown   | Interior Deadfront Trim Assembly<br>27" Breaker Mounting Space<br>45" Breaker Mounting Space<br>63" Breaker Mounting Space<br>99" Breaker Mounting Space<br>Screw, Interior Deadfront Trim Mounting (5)                       | 80121-041-50<br>80121-041-51<br>80121-041-52<br>80121-041-53<br>80025-067-01 | 80121-052-50<br>80121-052-51<br>80121-052-52<br>80121-052-53<br>80025-067-01                                     | 80121-046-50<br>80121-046-51<br>80121-046-52<br>80121-046-53<br>80025-067-01      |
| A           | End Barrier Assembly<br>Screw, Barrier Mounting (4)<br>End Barrier Insulator  |  | 80104-387-01<br>80025-067-01<br>80104-056-01   | 40517-354-01<br>80025-067-01<br>80104-056-01                                      |
| Not Shown   | Lug Cover Strap<br>Screw, Cover Strap Mounting  |  | 80104-018-02<br>21594-12061  | 80104-018-02<br>21594-12061   |
| B<br>C      | Mains Compartment Shield<br>Left<br>Right<br>Push Rivet, Shield Mounting (2 each)   |  | 2200077<br>2200076<br>29215-52126  | 40517-171-01<br>40517-355-01<br>29215-52126                                       |
| D<br>E      | Lug Compartment Cover Assembly<br>Screw, Cover Mounting (4)<br>Screw, Lug Cover (2)   |  | 80121-128-50<br>80025-067-01<br>80025-067-01   | 80121-153-50<br>80025-067-01<br>80025-067-01                                      |
| F<br>G      | Bracket, Lug Cover and Trim Support<br>Screw, Bracket Mounting (2 each)   |  | 80104-385-01<br>80025-067-01   | 80104-385-01<br>80025-067-01  |
| H           | Main Lugs Assembly<br>400 and 600 A<br>800 A<br>1200 A<br>Bolt, Lug Mounting<br>400 and 600 A<br>800 A<br>1200 A<br>Nut, Lug Mounting<br>400 and 600 A<br>800 and 1200 A<br>Washer, Lug Mounting<br>400, 600, 800, and 1200 A |  | 80116-122-50<br>25098-25110<br>—<br>21401-28483<br>21401-28643<br>—<br>23427-02800<br>23040-28000<br>23903-33201 | —<br>—<br>25098-25110<br>—<br>—<br>21401-28661<br>—<br>23040-28000<br>23903-33201 |
| J           | Neutral Insulator<br>Screw, Insulator Mounting (2)—400, 600, 800 A<br>—1200 A   |  | 221854<br>80114-171-01<br>—  | 221854<br>—<br>21903-20200  |

## HCP Main Circuit Breaker

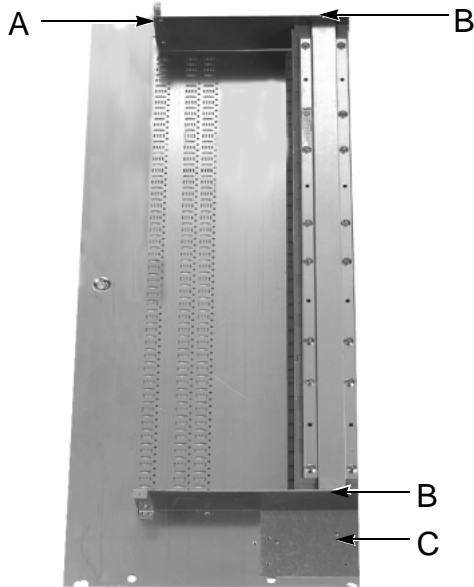


| Code Letter | Description   | Part Number                                  |
|-------------|---|--|
| Not Shown   | Interior Deadfront Trim Assembly<br>36" Breaker Mounting Space<br>72" Breaker Mounting Space<br>Screw, Interior Deadfront Trim Mounting (8) | 80121-16550<br>80121-16551<br>80025-067-01   |
| A           | End Barrier Assembly<br>Screw, Barrier Mounting (4)   | 80104-387-01<br>80114-171-01                 |
| B<br>C      | Mains Compartment Shield<br>Left (fingered)<br>Right (plain)<br>Push Rivet, Shield Mounting (2 each)  | 40517-108-01<br>40517-098-01<br>29215-52126  |
| K<br>L      | Bus Stack Shields<br>Left<br>Right<br>Screw, Shield Mounting (2 each)   | 80104-821-01<br>80104-820-01<br>80114-171-01 |
| F<br>G      | Bracket, Trim Support<br>Screw, Bracket Mounting (2 each)   | 80104-384-01<br>80114-171-01                 |
| N           | Neutral Insulator<br>Screw, Insulator Mounting (2)  | 40517-109-01<br>80114-171-01                 |
| M           | Main Breaker<br>600 A<br><br>800 A  | MGL 36600<br><br>MGL 36800                   |

## I-Line® Circuit Breaker Panelboards Replacement Parts

Type HCP-SU—800 A Maximum Universal Main Lugs or Main Breaker

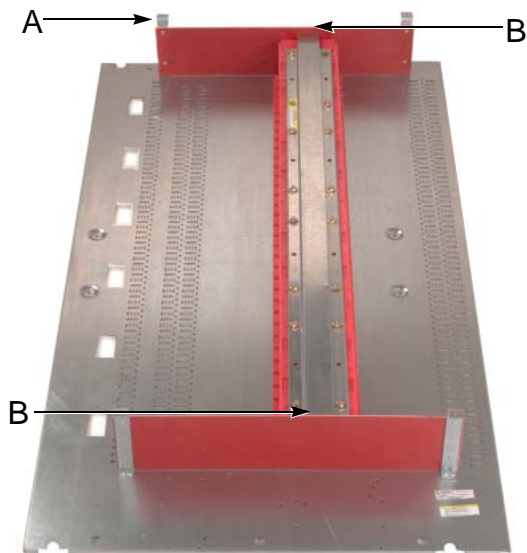
### HCP-SU Universal Main Lugs or Main Breaker



| Code Letter | Description  | Part Number                                    |
|-------------|--|--|
| Not Shown   | Interior Deadfront Trim Assembly<br>Screw, Interior Deadfront Trim Mounting (4)                        | 80121-091-50<br>80025-067-01                   |
| A           | Mounting Bracket, Interior Trim (4)<br>Screw, Bracket Mounting (8)                                     | 80104-262-01<br>80025-067-01                   |
| B           | End Barrier Insulator (2)<br>Rivet, Black Nylon (4)  | 80121-090-01<br>24303-65260                    |
| C           | Neutral Insulator<br>Screw, Insulator Mounting (2)   | 80121-118-02<br>80025-067-01                   |
| Not Shown   | Elevating Nut Bag Assembly   | 80121-186-55                                   |
|             | Interior Assembly  | HCP54868SU                                     |
| Not Shown   | Trim Front<br>Surface—2-Piece<br>Surface—2-Piece with Door<br>Flush—2-Piece<br>Flush—2-Piece with Door | HC2686TS<br>HC2686TSD<br>HC2686TF<br>HC2686TFD |
| Not Shown   | Enclosures:<br>Type 1<br>Type 3R/12  | HC2686DB<br>HC2886WP                           |

Type HCR-U—1200 A Universal Main Lugs or Main Breaker

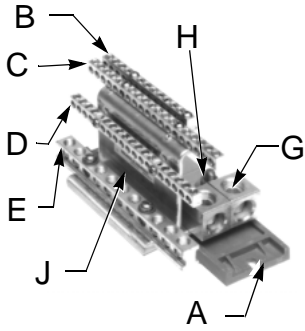
### HCR-U Universal Main Lugs or Main Breaker



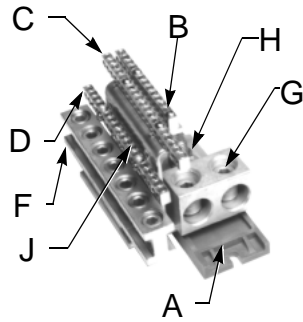
| Code Letter | Description  | Part Number                                |
|-------------|--|--|
| Not Shown   | Interior Deadfront Trim Assembly<br>Screw, Interior Deadfront Trim Mounting (4)                        | 80121-057-50<br>80025-067-01               |
| A           | Mounting Bracket, Interior Trim (4)<br>Screw, Bracket Mounting (8)                                     | 80104-262-01<br>80025-067-01               |
| B           | End Barrier Insulator (2)<br>Rivet, Black Nylon (4)  | 80104-263-01<br>24303-65260                |
| Not Shown   | Neutral Insulator<br>Screw, Insulator Mounting (2)   | 80121-110-01<br>80025-067-01               |
| Not Shown   | Elevating Nut Bag Assembly   | 80121-186-54                               |
|             | Interior Assembly  | HCR548612U                                 |
| Not Shown   | Trim Front<br>Surface—4-Piece<br>Surface—4-Piece with Door<br>Flush—4-Piece<br>Flush—4-Piece with Door | HCR86TS<br>HCR86TSD<br>HCR86TF<br>HCR86TFD |
| Not Shown   | Enclosures:<br>Type 1<br>Type 3R/12  | HC4486DB<br>HC4486WP                       |

# I-Line® Circuit Breaker Panelboards Replacement Parts

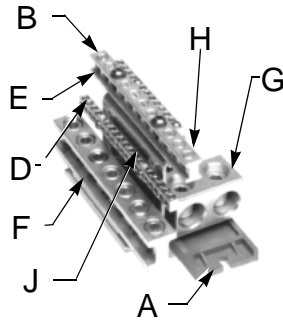
## Solid Neutral Assemblies



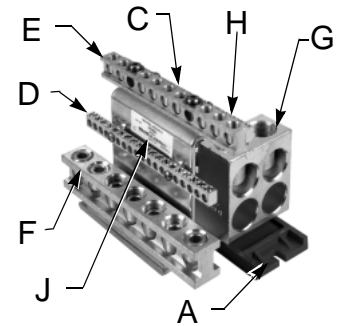
HC-2SN



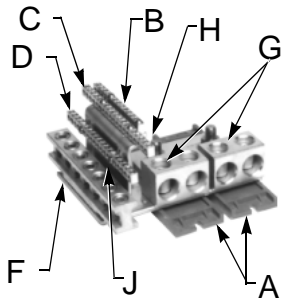
HC-4SN



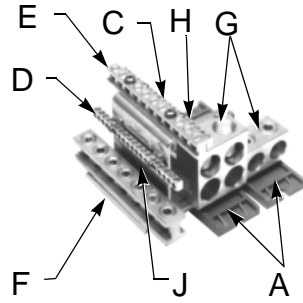
HC-6SN



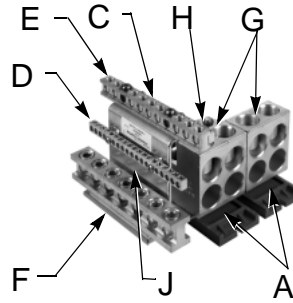
HC-8SN



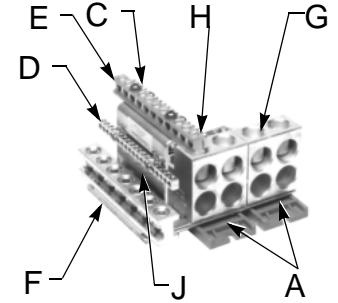
HCW-4SN



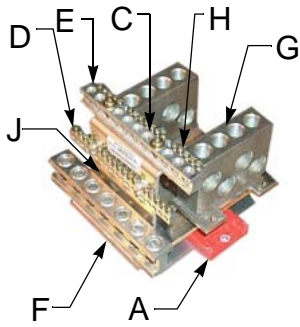
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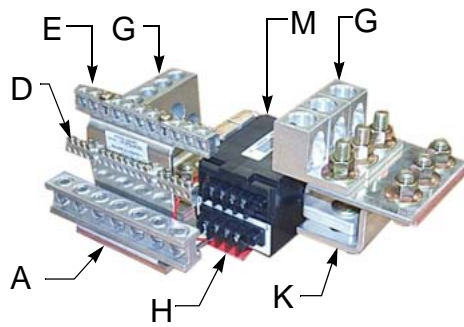
HCW-8SN



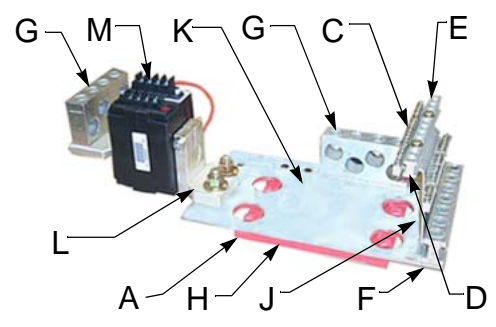
HCW-12SN



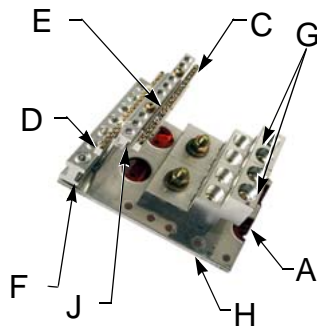
HCPSU-8SN



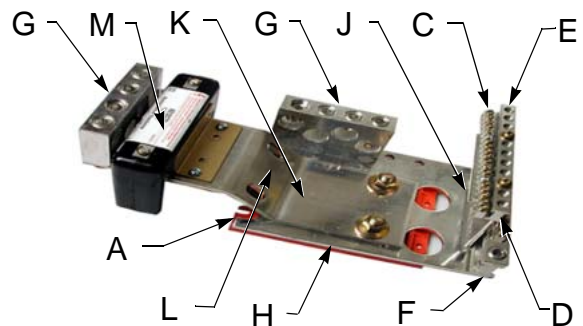
HCPSU-8SNCT



HCR-12SNCT



HCWM-12SN



HCWM-12SNT

# I-Line® Circuit Breaker Panelboards Replacement Parts

## Solid Neutral Assemblies, Fronts, Blank Fillers, and Miscellaneous Items

When ordering, specify part number, quantity desired, and description of part, including complete panelboard nameplate data.

| Solid Neutrals |  |   |
|----------------|--|---|
| Code Letter    | Description  | Part Number   |
| A              | Solid Neutral Assemblies<br>Neutral Base<br>Screw, Base Mounting   | 40517-111-01<br>21903-20200   |
| B              | Neutral Bar Assembly<br>Screw, Bar Mounting  | 80120-805-53<br>21590-00004   |
| C              | Neutral Bar Assembly<br>Screw, Bar Mounting  | 80120-805-59<br>21590-00004   |
| D              | Neutral Bar Assembly<br>Screw, Bar Mounting  | 80120-805-60<br>21590-00004   |
| E              | Neutral Bar Assembly<br>Washer, Bar Mounting<br>Screw, Bar Mounting  | 155642<br>23903-31401<br>21994-00003  |
| F              | Neutral Bar Assembly<br>Screw, Bar Mounting<br>Washer, Bar Mounting  | 80104-403-01<br>21401-20240<br>23903-31601  |
| Not Shown      | Bonding Strap<br>225 A<br>400 A, 600 (HC6SN)<br>600 (HCW6SN), 800, and 1200 A<br>800 A (HCP-SU-CT)<br>800 A (HCP-SU)<br>1200 A (HCWM)<br>1200 A (HCR-U)<br>Screw, Strap Mounting<br>Washer<br>Screw, Neutral Assembly Mounting | 80010-598-01<br>80010-599-01<br>80010-600-01<br>80121-138-01<br>80121-119-01<br>80010-600-01<br>80121-082-01<br>21903-20200<br>23903-31601<br>21903-20200 |

| Fronts, Blank Fillers, and Miscellaneous Items |   |  |
|--|---|--|
| Code Letter                                    | Description   | Part Number                                  |
| Not Shown                                      | Fronts and Blank Fillers<br>Blank Fillers<br>1.50-inch Height<br>4.50-inch Height<br>Screw, Blank Mounting<br>(included with blank) | HNMM-1BL<br>HNMM-4BL<br>21427-20161          |
| Not Shown                                      | Blank Filler Extensions<br>1.50-inch Height<br>4.50-inch Height   | HLW-1BL<br>HLW-4BL                           |
| Not Shown                                      | Circuit Number Tabs<br>1-90<br>Flush Lock (large sliding)<br>Keys (2 per kit)<br>Vault Handle Lock                                  | 80104-402-50<br>PK-5FL<br>LP-9618<br>PK-4NVL |
| Not Shown                                      | Trim Clamp Assembly<br>Exposed Trim Clamp<br>Monoflat® Trim Clamp   | LP9501<br>PK2TC                              |
| Not Shown                                      | Directory Card<br>Clear Plastic Card Cover  | 80031-158-01<br>80031-159-01                 |
| Not Shown                                      | Interior Leveling Nut   | 80104-458-01                                 |

### Solid Neutrals

| Code Letter          | Description                               | HC2SN            | HC4SN        | HC6SN        | HC8SN        |
|----------------------|---|------------------|--------------|--------------|--------------|
| G                    | Lug Assemblies<br>Large                   | (2) 40251-162-51 | 80116-122-50 | 80116-122-50 | 25098-25110  |
|                      | Small                                     | —                | —            | —            | —            |
|                      | Screw, Lug Mounting                       | 21514-00002      | 21401-28643  | 21401-28643  | 21401-28643  |
|                      | Washer, Lug Mounting                      | —                | 23701-00280  | 23701-02800  | 23903-33201  |
|                      | Nut, Lug Mounting      – Large<br>– Small | 23427-02200      | 23427-02800  | 23427-02800  | 23040-28000  |
| Washer, Lug Mounting | —   | —                | —            | 23701-00280  |              |
| H                    | Neutral Plate                             | 80104-865-01     | 80104-969-01 | 40517-167-01 | 80104-970-01 |
| J                    | Neutral Connector                         | 80101-943-01     | 80104-943-01 | 80104-943-01 | 80104-944-01 |

### Solid Neutrals

| Code Letter          | Description                               | HCW4SN       | HCW6SN       | HCW8SN          | HCW12SN         |
|----------------------|---|--------------|--------------|-----------------|-----------------|
| G                    | Lug Assemblies<br>Large                   | 80116-122-50 | 25098-25110  | (2) 25098-25110 | (2) 25098-25110 |
|                      | Small                                     | —            | 80116-122-50 | —               | —               |
|                      | Screw, Lug Mounting                       | 21401-28643  | 21401-28643  | 21401-28643     | 21401-28643     |
|                      | Washer, Lug Mounting                      | 23701-00280  | 23903-33201  | 23903-33201     | 23903-33201     |
|                      | Nut, Lug Mounting      – Large<br>– Small | 23427-02800  | 23040-28000  | 23040-28000     | 23040-28000     |
| Washer, Lug Mounting | —   | 23427-02800  | 23701-00280  | 23701-00280     |                 |
| H                    | Neutral Plate                             | 80104-971-01 | 80104-971-01 | 80104-054-01    | 40517-122-01    |
| J                    | Neutral Connector                         | 80104-943-01 | 80104-944-01 | 80104-944-01    | 80104-944-01    |

### Solid Neutrals

| Code Letter          | Description                               | HCWM12SN        | HCWM12SNCT              | HCR12SNCT                        | HCPSU8SN         | HCPSU8SNCT                       |
|----------------------|---|-----------------|-------------------------|----------------------------------|------------------|----------------------------------|
| G                    | Lug Assemblies<br>Large                   | (2) 25098-25110 | (2) 48010-093-50        | (2) 48010-093-50                 | (2) 48186-053-50 | (2) 48186-053-50                 |
|                      | Small                                     | —               | —                       | —                                | —                | (3) 40251-136-50                 |
|                      | Screw, Lug Mounting                       | 21401-28661     | (3) 21401-24280         | (3) 21401-24320; (3) 23903-32402 | 21401-24200      | (3) 21401-24200; (3) 22710-28400 |
|                      | Washer, Lug Mounting                      | 23903-33201     | 23903-32402             | 23903-32402                      | 23903-32402      | 23903-32402                      |
|                      | Nut, Lug Mounting      – Large<br>– Small | 23040-28000     | —                       | —                                | —                | 23427-02800                      |
| Washer, Lug Mounting | 23701-00280                               | —               | —                       | —                                | —                |                                  |
| H                    | Neutral Plate                             | 80104-273-01    | 80104-273-01            | 80121-081-01                     | 80121-113-02     | 80121-113-02                     |
| J                    | Neutral Connector                         | 80104-944-01    | 80101-944-01            | 80104-944-01                     | 80104-944-01     | 80104-944-01                     |
| K                    | Lug Pad                                   | —               | 80104-274-01            | 80104-274-01                     | 80121-114-01     | 80121-114-01                     |
| L                    | C/T Connector                             | —               | 80104-278-01            | —                                | —                | 80121-115-01                     |
|                      | Screw                                     | —               | 21401-28481             | —                                | —                | 22720-28481                      |
|                      | Washer                                    | —               | 23701-00280             | —                                | —                | —                                |
|                      | Keps Nut                                  | —               | 23427-02800             | —                                | —                | 23427-02800                      |
| M                    | Neutral C/T<br>Mounting Screw (2)         | —               | NE12CT2<br>80025-067-01 | S33925<br>21401-28643            | —                | S33925<br>21401-28643            |
|                      | Washer                                    | —               | —                       | 23701-00280                      | —                | 23903-33201                      |
|                      | Nut                                       | —               | —                       | 23427-02800                      | —                | 23040-28000                      |





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