

# Section 4

## Panelboards



NQ Panelboard with Door-in-Door (Hinged) Trim



MH38 Enclosure with 12-inch Wireway and Mono-Flat™ Trim with 12-inch Wireway Cover

|  |             |
|--|-------------|
| <b>Panelboards</b>   | <b>4-2</b>  |
| General Information  | 4-2         |
| General Instructions                                       | 4-2         |
| <b>Special Features</b>                                    | <b>4-2</b>  |
| Mains and Branches   | 4-2         |
| Mains  | 4-2         |
| Branches   | 4-2         |
| Cabinets   | 4-3         |
| Special Features   | 4-3         |
| <b>Surge Protection Devices (SPD) in Panelboards</b>       | <b>4-8</b>  |
| NQ Panelboard with SPD                                     | 4-8         |
| NF Merchandised Interiors with SPD - 480Y/277 Vac          | 4-8         |
| <b>Ready-to-Install (RTI) Merchandise</b>                  | <b>4-9</b>  |
| Miscellaneous Panelboard Accessories                       | 4-9         |
| Copper Equipment Ground Bars                               | 4-9         |
| NF and NQ Panelboard Replacement Part Kits                 | 4-9         |
| Type 1 Door-in-Door (Hinged) Trim Fronts                   | 4-14        |
| <b>Replacement Parts for Standard Panelboards</b>          | <b>4-15</b> |
| Trim Clamps and Screws                                     | 4-15        |
| Trim Clamps and Screws                                     | 4-15        |
| Locks and Keys   | 4-16        |
| Locks  | 4-16        |
| Keys   | 4-16        |
| <b>CTC Cabinets</b>  | <b>4-17</b> |
| Wall Mounted Metering Equipment                            | 4-17        |
| Main Circuit Breaker and Current Transformer Compartment   | 4-17        |
| <b>Retrofit Information</b>                                | <b>4-18</b> |
| Retrofit Existing Enclosure Data Sheet                     | 4-18        |
| Data Sheet for Panelboards to Retrofit Existing Enclosures | 4-18        |

Visit the online FAQs page to find additional technical information covering all products including discontinued and obsolete products.  
<https://www.schneider-electric.us/en/faqs/home/>

## General Instructions

The special feature options covered in this Panelboard estimating procedure are applicable to factory-assembled panelboards only. Do not apply this pricing to ready-to-assemble panelboards.

Special features are listed in three major categories:

- Mains
- Branches
- Cabinets

### Metric Conversion

Inches (in.) x 25.4 = millimeters (mm).

### I-Line™ Panelboards Factory Assembled

| Panel Type  | No. Poles | Main Circuit Breaker |                   |                    |                   |                   |                    |
|-------------|-----------|----------------------|-------------------|--------------------|-------------------|-------------------|--------------------|
|             |           | 400 A                |                   |                    | 600 A             |                   |                    |
|             |           | LX <sup>[1]</sup>    | LE <sup>[1]</sup> | LXI <sup>[1]</sup> | LX <sup>[1]</sup> | LE <sup>[1]</sup> | LXI <sup>[1]</sup> |
| HCP, HCP-SU | 2         |                      |                   |                    |                   |                   |                    |
|             | 3         |                      |                   |                    |                   |                   |                    |

### Mains

#### NEMA Type 1 Enclosures Only (1200 A Maximum)

Enclosures and Interiors are shipped fully assembled.

NQ, NF and Powerlink™ require a 7-inch left side gutter extension and a 6-inch main end extension for PowerLogic Power Meter applications.

I-Line™ and QMB require a 14-inch side gutter extension for PowerLogic Circuit Monitor and Power Meter applications.

#### Current Transformers In Mains (ac only and line side only)<sup>[1]</sup>

Prices listed are based on transformers having a 5 A secondary and mounted under a separate cover. Apply appropriate charge from the table below

Table 4.1: Current Transformers

| Primary Amperes<br>(5 A—Secondary) | Additional Enclosure Height Required <sup>[2]</sup> |
|------------------------------------|---|
| 100–1200                           | 6 inches  |

#### Customer Equipment Space<sup>[1]</sup>

**NOTE:** End user must specify end use equipment to be installed.

Available with NQ, and NF lighting panelboards only. Must be opposite the mains end, both main breaker and main lug, to prevent interference with incoming cables. Customer equipment space is not available with thru-feed lugs or sub-feed breakers.

A barrier exists between the equipment space and the panelboard compartment; a separate door is provided as standard (requires 18-inch additional enclosure height).

**NOTE:** A separate door is not supplied in NEMA 3R/12 construction.

### Branches

#### Keyed Interlocks

**NOTE:** Not available for use in NQ, NF or I-Line™ HCN panelboards with door. Not available on I-Line™ with door when key interlocked MG/MJ/P/R frame branch-mounted circuit breakers are installed. Must use 4-piece trim or NEMA 3R/12.

Keyed mechanical interlocking of two or more circuits is available on request. Individual locks are furnished for each circuit. All locks operate by one key, which can be removed only when the circuit is locked in the desired position.

I-Line Circuit Breakers — A 3-inch filler adjacent to the circuit is necessary for mounting the interlock; contact your nearest Schneider Electric sales office for assistance with power distribution panelboards with doors. Feature not available on vertically mounted main circuit breaker.

QMB Fusible Switches — Available on 100 A singles (100 A single QMB requires 9 inches of mounting space) through 800 A switches plus LA circuit breaker adapters. Requires 3 inches of branch mounting space per switch for interlock installation.

#### Motor Operators—I-Line Circuit Breakers Only

Motor operators provide remote *open*, *close*, and *reset* control of molded case circuit breakers. Price panelboard from the latest Digest, and, for each motor operator, add per table below. In I-Line panelboards, motor operators require 4.5 inches of circuit breaker mounting space. This can be provided on I-Line main circuit breaker only when the main is branch-mounted and back-fed.

**NOTE:** Not available in I-Line HCN Panelboards



<sup>[1]</sup> Std. construction back-fed main.

<sup>[1]</sup> Feature supported by product selectors in Q2C and SE Advantage.

<sup>[2]</sup> For NQ, and NF panelboards.

**Table 4.2: Motor Operators**

| Circuit Breaker Type      | Motor Operator Voltage   |
|---------------------------|--|
| F-frame                   | 120 Vac  |
| H-frame (3P modules only) | 48/60, 110/130, 208/277, 380/480 Vac;<br>24/30, 48/60, 110/130, 250 Vdc  |
| J-frame                   | 48/60, 110/130, 208/277, 380/480 Vac;<br>24/30, 48/60, 110/130, 250 Vdc  |
| LA, LH                    | 120 Vac  |
| PG, PJ, PL                | 48, 110/130, 220/240, 380/480 Vac;<br>24/30, 48/60, 110/130, 200/250 Vdc |

**NOTE:** If the customer is not supplying the motor operator voltage, a control transformer can be supplied.

**Special Features**

**Cabinets**

**Increased Enclosure Depth**

**NEMA Type 1 Enclosure** [3]

8-inch depth (HC26)  
12-inch depth (HC32, 42, 44-12-inch only)

**NEMA Type 3R, 5, or 12 Enclosure** [3]

8-inch or 12-inch depth  
**NOTE:** No other depths are available.

**Increased Side Gutters (Type 1 Enclosures Only)**

**NOTE:** Available on MH enclosures (right or left) in 3, 6 and 12-inch added widths, 26-inch wide HC enclosures up to a maximum of 14 additional inches and 32-inch wide HC enclosures up to a maximum of 10 additional inches.

Not available on 42-inch wide HC enclosures.

No barrier will be supplied unless specified.

Includes one-piece trim.

Provide extended side gutters.

**Steel Barrier in Enclosure**

**NOTE:** The enclosure will be extended on one side only. If extension is required on both sides, contact your nearest Schneider Electric sales office for assistance.

**Extended Top and Bottom End Gutters**

**NOTE:** Available for Type 1 enclosures only

**Type MH Enclosures**

6-inch, 12-inch, 18-inch or 24-inch extension. Includes one-piece trim.

**Type, HCM Enclosures**

9-inch extension. Includes standard panel trim and enclosure extension cover.

**Type HCP, HCR-U Enclosures**

12-inch extension. Includes standard panel trim and enclosure extension cover.

**Type QMB Enclosures**

38-inch W x 11.5-inch D may have a 6-inch maximum increased end gutter. This is the only QMB enclosure with an increased end gutter option. Available only with a four-piece trim.

For lengths other than those listed above, refer to the Wireway section on page 4-8.

**Drip Hoods** [3]

Surface-mounted-only panelboard

**Special Finishes**

**NOTE:** The standard finish of the enclosure fronts is ANSI 49. The enclosures are galvanized steel.

**ANSI 49 Enclosure** [3]

**ANSI 61 Front or Enclosure** [3]

**Front and Enclosure with Polyester Acrylic Powder Paint Finish**

Provides increased salt spray performance in coastal areas and increased resistance to UV fading

**Special or Custom Paint for Trim and/or Enclosure**

**Free-standing Enclosures (welded base channels)** [4]

Supports extending out front and back, welded to bottom of enclosure



MH38 Enclosure with 6-inch Increased Left-side Gutter



MH38 Enclosure with 12-inch Extended Bottom End Gutter and One-Piece Trim

[3] Feature supported by product selectors in Q2C and SE Advantage.

[4] Base channels are available only for indoor applications.



Hinged Trim

### Special Trims

#### Hinged Trim

##### Hinged Trim with Outer Door Lock<sup>[5]</sup>

**NOTE:** Outer door lock, must be priced with hinged trim.

For door-in-door trim, use hinged trim with outer door lock. "ODL" suffix is added to trim front part number.

##### Stainless Steel Trim Fronts<sup>[5]</sup>

NF & NQ 20 inch-wide Mono-flat or Hinged right surface or flush trim fronts for panelboard heights up to 92 inches.

Mono-flat vented and three point latch trim fronts for 400A and 600A panelboards available in heights from 50 to 92 inches.

NF & NQ 26 inch-wide Mono-flat vented surface or flush trim fronts available for panelboard heights from 50 to 92 inches.

I-Line HCM—Standard trim with door

I-Line HCP—Standard trim with door

#### Special Locks<sup>[5]</sup>

##### Padlock Hasp<sup>[5]</sup>

For hasp, staple and standard lock (padlock not included) "PH" suffix is added to trim front part number.

##### Special Locks

On trim with a 3-point latch, special locks will be installed as a secondary latch. Special locks include Corbin 60, Corbin 15767, GE 75, Yale® 511S and Best 5L7RL2-626. For all other locks, contact your nearest Schneider Electric sales office for assistance.

Standard key change, Corbin 60, Corbin 15767 or GE 75<sup>[5]</sup>

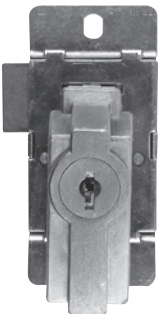
Standard key change, Yale 511S<sup>[5]</sup>

Standard key change, Best 5L7RL2-626<sup>[5]</sup>

Quarter turn fasteners

**NOTE:** Special locks for all HC trims and NF panelboards with three-point latches, will be installed as secondary locks. Special locks are not available on I-Line™ 42-inch and 44-inch wide panelboards or QMB type panelboards.

Many key configurations can be accommodated with our standard Square D™ brand lock. Contact your nearest Schneider Electric sales office for assistance.

NC38S  
Padlock Hasp

Corbin 15767 Lock

NC38S with  
Yale Lock Installed

<sup>[5]</sup> Feature supported by product selectors in Q2C and SE Advantage.



Common Trim Front for Use with Multiple-Section Panelboards Mounted Side-By-Side

**Multi-Section Panels**

**Equal-Height Enclosures<sup>[6]</sup>**

NQ, and NF  
I-Line or QMB

**Common Trim in Place of Two Individual Fronts<sup>[6]</sup>**

Used to cover two equal-height enclosures mounted side-by-side.

**Sheared on Inside Edges**

Allows enclosures to be butted together.

**Panel Skirt for Standard Width Panelboards<sup>[6]</sup>**

Panel skirts are intended for cosmetic purposes only; they are meant to hide cables which are enclosed in conduit.

Do not use a panel skirt as a wireway; see the Wireway section below.

**NOTE:** Panel skirts are for Type 1 surface-mounted applications with standard depth and width, Square D™ brand enclosures only.

**Table 4.3: Panel Skirts**

| Skirt Length | Skirt Type          |              |
|--------------|---------------------|--------------|
|              | NQ, NF              | I-Line™, QMB |
| 4–60 inches  | PSxx <sup>[7]</sup> |              |
| 61–92 inches | N/A                 |              |



Panel skirt framework to be bolted to the wall.



Panel skirt bolted in place below an MH26 enclosure.



Panel skirt completely installed.

[6] Feature supported by product selectors in Q2C and SE Advantage.

[7] Panel Skirts supplied as a Commercial Reference has a PSxx part number, where xx is the length in inches.



MH38 enclosure with 12-inch wireway and Mono-Flat™ trim with 12-inch wireway cover.

### Wireway

Allows for terminating conduit in the wireway endwall. Only the cable passes through the wireway into the NEMA Type 1 panelboard enclosure. Includes trim and wireway cover.

**NOTE:** Wireway is for Type 1, surface-mounted applications with standard depth and width, Square D™ brand enclosures only.

**Table 4.4: Wireway**

| Wireway Length | NQ, NF              | I-Line™, QMB |
|----------------|---------------------|--------------|
| 4–60 inches    | WWxx <sup>[8]</sup> |              |
| 61–92 inches   | N/A                 |              |

### Panels to Fit Existing Enclosures

Panelboard interiors and special fronts can be furnished to fit existing enclosures. First, price the complete panel along with the appropriate price adder from below. Next, photocopy the Retrofit Existing Enclosure data sheet found on [page 3-18](#), record the required dimensions on the photocopy and forward it with your order to the nearest Schneider Electric sales office. For interiors requiring vented enclosures, contact your nearest Schneider Electric sales office for assistance.

**NOTE:** Existing enclosure depth on flush installations must be measured from inside surface of enclosure to outer wall or plaster surface.

### Special Fronts

Existing enclosure the same depth as or deeper than our standard.

**NOTE:** Elevating brackets to be supplied by customer for existing enclosures deeper than our standard.

Existing enclosure shallower than our standard. Requires an enclosure extension (surface applications) or a formed front (flush applications). A hinged trim front option is not available for these applications.

**NOTE:** A formed front is available on NQ (225 A max.) and, NF (250 A max.). When a flush front is required for an existing enclosure that is shallower than our standard, be sure to indicate the position of the enclosure with respect to the wall in which it is mounted. This is required in order to determine whether an enclosure extension with a flat front should be supplied, or whether a flush formed front is more applicable. The interior must be centered in the enclosure and, if the enclosure is deeper than our standard, the interior must be leveled within the enclosure. The existing enclosure for NQ and, NF panels cannot be more than 3.0 inches shorter than the standard enclosure. Minimum width is 17 inches. Special trims that are manufactured to fit an existing enclosure will be within ± 0.25 inches of the specification. Refer to the table below for standard enclosure depths and for the maximum depth for which no special mounting brackets are required.

**Table 4.5: Panelboard Enclosure Depths**

| Panelboard Type  | Standard Enclosure Depth | Maximum Enclosure Depth for which No Special Mounting Brackets Required |
|--|--------------------------|---|
| NQ standard width—main lugs only                       | 5.75 inches              | 5.75 inches   |
| NQ standard width—main circuit breaker <sup>[9]</sup>  | 5.75 inches              | 5.75 inches   |
| NF <sup>[9]</sup>                                      | 5.75 inches              | 5.75 inches   |
| I-Line™—Maximum F, H or Q-frame branch circuit breaker | 6.5 inches               | 7.25 inches   |
| I-Line™—Maximum J-frame branch circuit breaker         | 8.25 inches              | 9.0 inches  |
| I-Line™—Maximum P or R-frame branch circuit breaker    | 9.25 inches              | 10.25 inches  |

### Space Heater

**NOTE:** Enclosure, interior and trim ship fully assembled. 120 V is standard. Top feed applications only.

NQ and NF require 18 inches equipment space in NEMA 3R/12 constructions.

NQ and NF require 6 inch bottom end gutter in NEMA 1 construction.

Unwired (provisions for wiring to external source)

Wired (with overcurrent device, thermostat)

<sup>[8]</sup> Wireway supplied as a Commercial Reference has a WWxx part number, where xx is the length in inches.

<sup>[9]</sup> Panelboards with PowerPac™ L main or sub-feed circuit breakers require 8.75 inch deep MHxxD9 enclosures, which are shipped with all required mounting brackets.



I-Line Door-in-Door Enclosure



Access to Circuit Breaker Handles



Access to Wiring Gutters

**Special Enclosures**

**Type 1 Gasketed Enclosure (gasketing between front and enclosure)**

20-inch maximum panel width

Over 20-inch panel width

**NOTE:** For 250 A and below enclosures only.

**Stainless Steel Enclosure (Type 3R, 4, 4X, 5 and 12; UL Listed)**

**NOTE:** For #316 stainless steel, add 15% to the prices shown below.

NF and NQ for panelboard heights up to 86 inches

For panelboard heights up to 41 inches

For panelboard heights of 44–56 inches

For panelboard heights of 59–80 inches

I-Line™

HCM

HCP

**NOTE:** 304 stainless, standard

QMB [10]

**Fiberglass Enclosures (Type 4X, Non-Vented; UL Listed)**

NF and NQ for panelboard heights up to 50 inches

28-inch height

33-inch, 40-inch and 50-inch height

I-Line and QMB

**Type 12 Door-In-Door Enclosures**

**Table 4.6: Available Enclosures**

| Interior Type | Enclosure Size |           |             |
|---------------|----------------|-----------|-------------|
|               | Height         | Width     | Depth       |
| NQ [11]       | 56 inches      | 20 inches | 6.5 inches  |
| NF [12]       | 56 inches      | 20 inches | 6.5 inches  |
| I-Line (HCM)  | 91 inches      | 32 inches | 11.5 inches |
| I-Line (HCP)  | 68 inches      | 42 inches | 12.7 inches |
| I-Line (HCP)  | 86 inches      | 42 inches | 12.7 inches |

**Table 4.7: I-Line Door Kits**

| Panel Type            | Catalog No. [13] |
|-----------------------|------------------|
| HCN                   | HCN52D ( )       |
|                       | HCN65D ( )       |
|                       | HCN74D ( )       |
|                       | HCN83D ( )       |
|                       | HCN92D ( )       |
| HCM                   | HCM48D ( )       |
|                       | HCM64D ( )       |
|                       | HCM73D ( )       |
|                       | HCM91D ( )       |
| HCP                   | HCW50D           |
|                       | HCW59D           |
|                       | HCW68D           |
|                       | HCW86D           |
| HCRU                  | HCW86D           |
| HCN/HCM Latch Bracket | 80104-908-50     |

• NOTE: HCRU door covers circuit breakers only, not entire box

[10] Not available for QMB interiors over 800 A.

[11] Not available for NQ interiors over 225 A.

[12] Not available for NF interiors over 250 A.

[13] Add "S" for surface or "F" for flush in place of the parentheses.

**NQ Panelboard with SPD**

**Table 4.8: OBSOLETE NQ SurgeLogic SurgeLoc Plug-on SPD (occupies 12-pole spaces) [1] [2]**

| Voltage                  | Surge Current Rating | Part Number    |
|--------------------------|----------------------|----------------|
| 120 / 240 V              | 80 kA                | SSP01BIA08PBQ1 |
|                          | 100 kA               | SSP01BIA10PBQ1 |
|                          | 120 kA               | SSP01BIA12PBQ1 |
|                          | 160 kA               | SSP01BIA16PBQ1 |
|                          | 200 kA               | SSP01BIA20PBQ1 |
|                          | 240 kA               | SSP01BIA24PBQ1 |
| 208 Y / 120 V            | 80 kA                | SSP02BIA08PBQ1 |
|                          | 100 kA               | SSP02BIA10PBQ1 |
|                          | 120 kA               | SSP02BIA12PBQ1 |
|                          | 160 kA               | SSP02BIA16PBQ1 |
|                          | 200 kA               | SSP02BIA20PBQ1 |
|                          | 240 kA               | SSP02BIA24PBQ1 |
| 240 / 120 High Leg Delta | 80 kA                | SSP03BIA08PBQ1 |
|                          | 100 kA               | SSP03BIA10PBQ1 |
|                          | 120 kA               | SSP03BIA12PBQ1 |
|                          | 160 kA               | SSP03BIA16PBQ1 |
|                          | 200 kA               | SSP03BIA20PBQ1 |
|                          | 240 kA               | SSP03BIA24PBQ1 |

**NF Merchandised Interiors with SPD - 480Y/277 Vac**

**NOTE:** For selecting SurgeLoc SPD for RTI NQ Panelboard application, please refer to Section 9 of Digest 178.

**Table 4.9: NF Merchandised Interiors with SPD—Use I-Line Panelboards on 480 V 3Ø3W Delta Applications**

| Mains Rating | Max. Breaker Spaces | SPD Ratings   |              | Interior Catalog No.            | Components for adding Vertical Main Circuit Breaker |   |
|--------------|---------------------|---------------|--------------|---------------------------------|---|---|
|              |                     | Voltage       | Surge Rating |                                 | MCB Kit Catalog No.                                 | Main Circuit Breaker Frame<br>Select the appropriate MCB and price from the tables starting on Digest page 7-22 |
| 250 A        | 42                  | 480Y/277 3P4W | 120          | NF442L2TVS412<br>NF442L2TVS412C | N250MJ  | PowerPact J   |
| 250 A        | 42                  |               | 160          | NF442L2TVS416<br>NF442L2TVS416C |   | PowerPact J   |
| 400 A        | 42                  | 480Y/277 3P4W | 120          | NF442L4TVS412<br>NF442L4TVS412C | N400M   | LAL/LHL<br>(Powerpact L F/A only)   |
| 400 A        | 42                  |               | 160          | NF442L4TVS416<br>NF442L4TVS416C |   |   |

**NOTE:** Dry contacts standard.

[1] When selecting a panelboard with SurgeLoc SPD, an additional 12 circuit positions (6 adjacent mounting spaces per side) are occupied. For example, if the desired number of circuits is 30, refer to "NQ Main Lug Interiors" and "NQ Main Circuit Breaker Interiors" in Digest section 9 to select the NQ442L2/NQ442L2C interior and corresponding Box and Trim.

[2] 96 space interiors are available factory assembled when SurgeLoc SPDs are to be installed in 84 circuit NQ panelboards.



**Copper Equipment Ground Bars**

Copper equivalents of our aluminum PK–GTA equipment ground bars are available. These copper ground bars accept #14–4 Cu only.

**Table 4.10: Copper Ground Bars for NF Panelboards (see the Digest, Section 9 for NQ copper ground bar kits)**

| Maximum Number of Circuits | Maximum Ampere Rating | Catalog No. |
|----------------------------|-----------------------|-------------|
| 12                         | 225                   | 8010302651  |
| 18                         | 225                   | 8010302652  |
| 23                         | 225                   | 8010302653  |
| 27                         | 400/600               | PK27GTACU   |

**NF and NQ Panelboard Replacement Part Kits**

**Table 4.11: TBPANEL NF and NQ Spare PartsTackle Box Replacement Kits**

| Catalog Number   | Description                               | Contents                         | Qty |
|------------------|---|----------------------------------|-----|
| NF102OETB        | NF Number Strips TB Replacement Kit       | NF102OE Circuit Strips           | 10  |
| NQ102OETB        | NQ Number Strips TB Replacement Kit       | NQ102OE Circuit Strips           | 10  |
| PANELDCTB        | Directory Card & Pouch Replacement Kit    | Directory Cards with Pouches     | 10  |
| PAN-ELDCWMD54TB  | Directory Card WMD # 1 TB Replacement Kit | Directory Cards #1 WMD           | 10  |
| PAN-ELDCWMD96TB  | Directory Card WMD # 2 TB Replacement Kit | Directory Cards #2 WMD           | 10  |
| PANELDGTB        | Danger Label TB Replacement Kit           | Danger Labels                    | 10  |
| PANELLSTB        | Label Sheet TB Replacement Kit            | Label Sheets                     | 10  |
| PANELMBTB        | Main Breaker Label TB Replacement Kit     | MB Labels                        | 10  |
| PANELSMCTB       | Seismic Label TB Replacement Kit          | Seismic Labels                   | 10  |
| PANELWGTB        | Warning Label TB Replacement Kit          | Warning Labels                   | 10  |
| PANELKSTB        | Kit Screw TB Replacement Kit              | 10-32 x 5/8" Kit Screws          | 50  |
| PANELKEYTB       | NSR251 Key TB Replacement Kit             | NSR251 Keys                      | 25  |
| PANEL-TRIMSCTB   | Trim Screw Mono-Flat TB Replacement Kit   | 10-32 x 19/32" Trim Front Screws | 30  |
| PANEL-TRIMHSCBTB | Trim Screw Hinged TB Replacement Kit      | 1/4"-20 x 1" Trim Front Screws   | 30  |
| PANEL-TRIMHTNTB  | Tinnerman Clips TB Replacement Kit        | 1/4"-20 Spring Nut Clips         | 30  |
| NQFP15           | NQ Filler Plate Kit (15 per Pkg)          | NQ Filler Plates                 | 15  |
| NFELVTB          | NF Elevating Nut TB Replacement Kit       | NF Elevating Nuts                | 25  |
| PANELDFCTB       | Deadfront Screw TB Replacement Kit        | 10-32 x 7/16" Deadfront Screws   | 50  |
| PANELBOX-NUTTB   | Enclosure Nut TB Replacement Kit          | Enclosure Nuts                   | 30  |
| NQELVTB          | NQ Elevating Screw TB Replacement Kit     | NQ Elevating Screws              | 50  |
| NFFP15           | NF Filler Plate Kit (15 per Pkg)          | NF Filler Plates                 | 15  |

**Table 4.12: NQ and NF Replacement Deadfront Kits**

| NQ and NF Replacement Deadfront Kits                     | Commercial Reference |
|--|----------------------|
| NQ and NF Replacement Deadfront Cover 1.65" Long         | NQNFRL05601          |
| NQ and NF Replacement Deadfront Cover 4.59" Long         | NQNFRL05602          |
| NQ and NF Replacement Deadfront Cover 7.58" Long         | NQNFRL05603          |
| NQ and NF Replacement Deadfront 7.58" Long w/ Label      | NQNFRL05603L         |
| NQ and NF Replacement Deadfront Cover 10.59" Long        | NQNFRL05604          |
| NQ and NF Replacement Deadfront 10.59" Long w/ Label     | NQNFRL05604L         |
| NQ and NF Replacement Deadfront Cover 12.08" Long        | NQNFRL05605          |
| NQ and NF Replacement Deadfront 12.08" Long w/ Label     | NQNFRL05605L         |
| NQ and NF Replacement Deadfront Cover 13.58" Long        | NQNFRL05606          |
| NQ and NF Replacement Deadfront 13.58" Long w/ Label     | NQNFRL05606L         |
| NQ and NF Replacement Deadfront Cover 19.58" Long        | NQNFRL05607          |
| NQ and NF Replacement Deadfront 19.58" Long w/ Label     | NQNFRL05607L         |
| NQ and NF Replacement Deadfront Cover 25.58" Long        | NQNFRL05608          |
| NQ and NF Replacement Deadfront 25.58" Long w/ Label     | NQNFRL05608L         |
| NQ and NF Replacement Deadfront Cover 30.08" Long        | NQNFRL05609          |
| NQ and NF Replacement Deadfront 30.08" Long w/ Label     | NQNFRL05609L         |
| NQ and NF Replacement Deadfront Cover 31.58" Long        | NQNFRL05610          |
| NQ and NF Replacement Deadfront 31.58" Long w/ Label     | NQNFRL05610L         |
| NQ and NF Replacement Deadfront Cover 8.53" Long         | NQNFRL08902          |
| NQ and NF Replacement Deadfront 8.53" Long w/ Label      | NQNFRL08902L         |
| NQ and NF Replacement Deadfront Cover 12.05" Long FTL    | NQNFRL08903          |
| NQ and NF Replacement Deadfront 12.05" Long FTL w/ Label | NQNFRL08903L         |
| NQ and NF Replacement Deadfront Cover 12.05" Long        | NQNFRL08906          |
| NQ and NF Replacement Deadfront 12.05" Long w/ Label     | NQNFRL08906L         |
| NQ and NF Replacement Deadfront Cover 14.53" Long        | NQNFRL08909          |
| NQ and NF Replacement Deadfront 14.53" Long w/ Label     | NQNFRL08909L         |
| NQ and NF Replacement Deadfront Cover 18.05" Long        | NQNFRL08910          |
| NQ and NF Replacement Deadfront 18.05" Long w/ Label     | NQNFRL08910L         |
| NQ and NF Replacement Deadfront Cover 18.05" Long        | NQNFRL08912          |
| NQ and NF Replacement Deadfront 18.05" Long w/ Label     | NQNFRL08912L         |
| NQ and NF Replacement Deadfront Cover 3.05" Long         | NQNFRL33001          |
| NQ and NF Replacement Deadfront Cover 6.08" Long         | NQNFRL33002          |
| NQ and NF Replacement Deadfront 6.08" Long w/ Label      | NQNFRL33002L         |
| NQ and NF Replacement Deadfront Cover 9.05" Long         | NQNFRL33003          |
| NQ and NF Replacement Deadfront 9.05" Long w/ Label      | NQNFRL33003L         |

**Table 4.12 NQ and NF Replacement Deadfront Kits (cont'd.)**

| NQ and NF Replacement Deadfront Kits                 | Commercial Reference |
|--|----------------------|
| NQ and NF Replacement Deadfront Cover 18.05" Long    | NQNFRL33004          |
| NQ and NF Replacement Deadfront 18.05" Long w/ Label | NQNFRL33004L         |
| NQ and NF Replacement Deadfront Cover 24.05" Long    | NQNFRL33005          |
| NQ and NF Replacement Deadfront 24.05" Long w/ Label | NQNFRL33005L         |
| NQ and NF Replacement Deadfront End                  | NQNFRL33301          |
| NQ and NF ASCO Contactor Replacement Cover Kit       | NQNFRLCASC0          |

**Table 4.13: NQ and NF Replacement Lug Kits**

| NQ and NF Replacement Lug Kits                             | Commercial Reference |
|--|----------------------|
| NQ and NF 400 A / 600 A AI Neutral Replacement Mech Lug    | NQNFRLALMN46         |
| NQ and NF 100 A / 125 A AI Replacement Mechanical Lug      | NQNFRLALM1           |
| NQ and NF 100 A / 125 A AI Dual Replacement Mechanical Lug | NQNFRLALM1D          |
| NQ and NF 225 A / 250 A AI Replacement Mechanical Lug      | NQNFRLALM2           |
| NQ and NF 400 A AI Replacement Mechanical Lug              | NQNFRLALM4           |
| NQ and NF 600 A AI Replacement Mechanical Lug              | NQNFRLALM6           |
| NQ and NF 400 A / 600 A AI Replacement Crimp Lug           | NQNFRLALVN46         |
| NQ and NF 400 A / 600 A AI Replacement Crimp Lug w/ Label  | NQNFRLALV46          |
| NQ and NF 400 A / 600 A Cu Replacement Mech Lug            | NQNFRLCUM46          |
| NQ and NF 100 A / 125 A Cu Replacement Mech Lug            | NQNFRLCUM1           |
| NQ and NF 225 A / 250 A Cu Replacement Mech Lug            | NQNFRLCUM2           |
| NQ and NF 400 A Cu Replacement Mech Lug                    | NQNFRLCUM4           |
| NQ and NF 600 A Cu Replacement Mech Lug                    | NQNFRLCUM6           |
| NQ and NF 400 A / 600 A Cu Replacement Crimp Lug           | NQNFRLCUMVN46        |
| NQ and NF 100 A / 125 A Cu Replacement Crimp Lug           | NQNFRLCUMV           |
| NQ and NF 400 A AI Neutral Exp Mechanical Lug              | NQRPLSFBALN          |

**Table 4.14: NQ and NF Replacement Parts**

| NQ and NF Replacement Parts           | Commercial Reference |
|---------------------------------------|----------------------|
| ANSI 49 Gray Touch-up Paint (Aerosol) | PK49SP               |

**Table 4.15: NQ Replacement Parts Kits**

| NQ Replacement Parts Kits   | Commercial Reference |
|---|----------------------|
| NQ 600 A AI ACC Replacement Mech Lug                              | NQRPLALM6A           |
| NQ 100 A AI Replacement Crimp Lug                                 | NQRPLALV1            |
| NQ 225 A AI Replacement Crimp Lug                                 | NQRPLALV2            |
| NQ (KI) 225 A Main Breaker Replacement Deadfront                  | NQRPLMB2KI           |
| NQ (H, J) 100 A / 225 A Main Breaker Replacement Deadfront        | NQRPLMB2HJ           |
| NQ (Q) 225 A Main Breaker Replacement Deadfront                   | NQRPLMB2Q            |
| NQ (LA/LH) 400 A Main Breaker Replacement Deadfront               | NQRPLMB4LA           |
| NQ (LC) 400 A / 600 A Main Breaker Replacement Deadfront          | NQRPLMB6LC           |
| NQ (PPL) 400 A / 600 A Main Breaker Replacement Deadfront         | NQRPLMB6PPL          |
| NQ (PPL) NEMA 3R 400 A / 600 A Main Breaker Replacement Deadfront | NQRPLMB63PPL         |
| NQ Low Amp Cover Kit  | NQRPLML2             |
| NQ High Amp Cover Kit   | NQRPLML6             |
| NQ SFB (H,J) 225A Replacement Deadfront                           | NQRPLSFB2HJ          |
| NQ SFB (Q) 225A Replacement Deadfront                             | NQRPLSFB2Q           |
| NQ SFB (LA/LH) Replacement Deadfront                              | NQRPLSFB4LA          |
| NQ Dual PP-Q SFB Replacement Deadfront                            | NQRPLSFB4Q           |
| NQ SFB (H,J) 400 A / 600 A Replacement Deadfront                  | NQRPLSFB6HJ          |
| NQ SFB (Q) 400 A / 600 A Replacement Deadfront                    | NQRPLSFB6Q           |
| NQ Column Width MB Branch Repl Deadfront Kit                      | NQRPL20MB100CW       |
| NQ Column Width MB Branch Repl Deadfront Kit                      | NQRPL30MB100CW       |
| NQ Column Width Branch 100 A Repl Deadfront Kit                   | NQRPL30ML100CW       |
| NQ Column Width Branch 225 A Repl Deadfront Kit                   | NQRPL30ML225CW       |
| NQ Column Width MB Branch 225 A Repl Deadfront Kit                | NQRPL42MB225CW       |
| NQ Column Width Branch 225 A Repl Deadfront Kit                   | NQRPL42ML225CW       |
| NQ Branch Repl Deadfront Kit 100 A 18 Circuits 1 Phase            | NQRPL18L1            |
| NQ Branch Repl Deadfront Kit 100 A 30 Circuits 1 Phase            | NQRPL30L1            |
| NQ Branch Repl Deadfront Kit 225 A 30 Circuits 1 Phase            | NQRPL30L2            |
| NQ Branch Repl Deadfront Kit 225 A 30 Circuits MB 1 Ph            | NQRPL30L2M250        |
| NQ Branch Repl Deadfront Kit 225 A 30 Circuits MB 3 Ph            | NQRPL430L2M250       |
| NQ MB Branch Repl Deadfront Kit 250 A 1 Ph                        | NQRPL30M250          |
| NQ MB Branch Repl Deadfront Kit 250 A 3 Ph                        | NQRPL430M250         |
| NQ Branch Repl Deadfront Kit 400 A 30 Circuits 1 Phase            | NQRPL30L4            |
| NQ Branch Repl Deadfront Kit 600 A 30 Circuits 1 Phase            | NQRPL30L6            |
| NQ LC MB Branch Repl Deadfront Kit 1 Ph                           | NQRPL30MB6LC         |
| NQ LC MB Branch Repl Deadfront Kit 3 Ph                           | NQRPL430MB6LC        |
| NQ Branch Repl Deadfront Kit 225 A 42 Circuits 1 Phase            | NQRPL42L2            |
| NQ Branch Repl Deadfront Kit 225 A 42 Circuits MB 1 Ph            | NQRPL42L2M250        |
| NQ Branch Repl Deadfront Kit 225 A 42 Circuits MB 3 Ph            | NQRPL442L2M250       |
| NQ MB Branch Repl Deadfront Kit 250 A 1 Ph                        | NQRPL42M250          |
| NQ MB Branch Repl Deadfront Kit 250 A 3 Ph                        | NQRPL442M250         |
| NQ Branch Repl Deadfront Kit 400 A 42 Circuits 1 Phase            | NQRPL42L4            |
| NQ Branch Repl Deadfront Kit 600 A 42 Circuits 1 Phase            | NQRPL42L6            |
| NQ LC MB Branch Repl Deadfront Kit 1 Ph                           | NQRPL42MB6LC         |
| NQ LC MB Branch Repl Deadfront Kit 3 Ph                           | NQRPL442MB6LC        |
| NQ Branch Repl Deadfront Kit 225 A 54 Circuits 1 Phase            | NQRPL54L2            |
| NQ Branch Repl Deadfront Kit 400 A 54 Circuits 1 Phase            | NQRPL54L4            |

**Table 4.15 NQ Replacement Parts Kits (cont'd.)**

| NQ Replacement Parts Kits                              | Commercial Reference |
|--|----------------------|
| NQ Branch Repl Deadfront Kit 600 A 54 Circuits 1 Phase | NQRPL54L6            |
| NQ MB Branch Repl Deadfront Kit 250 A 1 Ph             | NQRPL54M250          |
| NQ LC MB Branch Repl Deadfront Kit 1 Ph                | NQRPL54MB6LC         |
| NQ Branch Repl Deadfront Kit 225 A 72 Circuits 1 Phase | NQRPL72L2            |
| NQ Branch Repl Deadfront Kit 400 A 72 Circuits 1 Phase | NQRPL72L4            |
| NQ Branch Repl Deadfront Kit 600 A 72 Circuits 1 Phase | NQRPL72L6            |
| NQ MB Branch Repl Deadfront Kit 250 A 1 Ph             | NQRPL72M250          |
| NQ LC MB Branch Repl Deadfront Kit 1 Ph                | NQRPL72MB6LC         |
| NQ Branch Repl Deadfront Kit 225 A 84 Circuits 1 Phase | NQRPL84L2            |
| NQ Branch Repl Deadfront Kit 400 A 84 Circuits 1 Phase | NQRPL84L4            |
| NQ Branch Repl Deadfront Kit 600 A 84 Circuits 1 Phase | NQRPL84L6            |
| NQ MB Branch Repl Deadfront Kit 250 A 1 Ph             | NQRPL84M250          |
| NQ LC MB Branch Repl Deadfront Kit 1 Ph                | NQRPL84MB6LC         |
| NQ Branch Repl Deadfront Kit 100 A 18 Circuits 3 Phase | NQRPL18L1            |
| NQ Branch Repl Deadfront Kit 100 A 30 Circuits 3 Phase | NQRPL430L1           |
| NQ Branch Repl Deadfront Kit 225 A 30 Circuits 3 Phase | NQRPL430L2           |
| NQ Branch Repl Deadfront Kit 400 A 30 Circuits 3 Phase | NQRPL430L4           |
| NQ Branch Repl Deadfront Kit 600 A 30 Circuits 3 Phase | NQRPL430L6           |
| NQ Branch Repl Deadfront Kit 225 A 42 Circuits 3 Phase | NQRPL442L2           |
| NQ Branch Repl Deadfront Kit 400 A 42 Circuits 3 Phase | NQRPL442L4           |
| NQ Branch Repl Deadfront Kit 600 A 42 Circuits 3 Phase | NQRPL442L6           |
| NQ Branch Repl Deadfront Kit 225 A 54 Circuits 3 Phase | NQRPL454L2           |
| NQ Branch Repl Deadfront Kit 400 A 54 Circuits 3 Phase | NQRPL454L4           |
| NQ Branch Repl Deadfront Kit 600 A 54 Circuits 3 Phase | NQRPL454L6           |
| NQ Branch Repl Deadfront Kit 225 A 54 Circuits MB 3 Ph | NQRPL454L2M250       |
| NQ LC MB Branch Repl Deadfront Kit 3 Ph                | NQRPL454MB6LC        |
| NQ Branch Repl Deadfront Kit 225 A 72 Circuits 3 Phase | NQRPL472L2           |
| NQ Branch Repl Deadfront Kit 400 A 72 Circuits 3 Phase | NQRPL472L4           |
| NQ Branch Repl Deadfront Kit 600 A 72 Circuits 3 Phase | NQRPL472L6           |
| NQ MB Branch Repl Deadfront Kit 250 A 3 Ph             | NQRPL472M250         |
| NQ Branch Repl Deadfront Kit 225 A 82 Circuits MB 3 Ph | NQRPL472L2M250       |
| NQ LC MB Branch Repl Deadfront Kit 3 Ph                | NQRPL472MB6LC        |
| NQ Branch Repl Deadfront Kit 225 A 84 Circuits 3 Phase | NQRPL484L2           |
| NQ Branch Repl Deadfront Kit 400 A 84 Circuits 3 Phase | NQRPL484L4           |
| NQ Branch Repl Deadfront Kit 600 A 84 Circuits 3 Phase | NQRPL484L6           |
| NQ MB Branch Repl Deadfront Kit 250 A 3 Ph             | NQRPL484M250         |
| NQ Branch Repl Deadfront Kit 225 A 84 Circuits MB 3 Ph | NQRPL484L2M250       |
| NQ LC MB Branch Repl Deadfront Kit 3 Ph                | NQRPL484MB6LC        |

**Table 4.16: NF Replacement Parts Kits**

| NF Replacement Parts Kits                                  | Commercial Reference |
|--|----------------------|
| NF 800 A Al Neutral Replacement Mech Lug                   | NFRPLALM8            |
| NF Al Neutral Branch Lug Adder                             | NFRPLALNADD          |
| NF 125 A Al Replacement Crimp Lug                          | NFRPLALV1            |
| NF 250 A Al Replacement Crimp Lug                          | NFRPLALV2            |
| NF 800 A Cu Neutral Replacement Mech Lug                   | NFRPLCUM8            |
| NF Cu Neutral Branch Lug Adder                             | NFRPLCUNADD          |
| NF (F) 125 A Main Breaker Replacement Deadfront            | NFRPLMB1F            |
| NF (H) 125 A Main Breaker Replacement Deadfront            | NFRPLMB1H            |
| NF (J) 250 A Main Breaker Replacement Deadfront            | NFRPLMB2J            |
| NF (K) 250 A Main Breaker Replacement Deadfront            | NFRPLMB2K            |
| NF (LA/LH) 400 A Main Breaker Replacement Deadfront        | NFRPLMB4LA           |
| NF (LC) 400 A / 600 A Main Breaker Replacement Deadfront   | NFRPLMB6LC           |
| NF PowerPacT L MB or SFB Deadfront Replacement Kit         | NFRPLM6PPL           |
| NF PowerPacT L NEMA 3R MB or SFB Deadfront Replacement Kit | NFRPLMB63PPL         |
| NF PowerPacT M MB Deadfront Replacement Kit                | NFRPLMB8PPM          |
| NF PowerPacT P MB Deadfront Replacement Kit                | NFRPLMB8PPP          |
| NF 125 Amp Repl Cover Kit                                  | NFRPLML1             |
| NF 250 Amp Repl Cover Kit                                  | NFRPLML2             |
| NF 125/250/400/600 Amp Repl Cover Kit                      | NFRPLML6             |
| NF SFB (H) 250A Replacement Deadfront                      | NFRPLSFB2H           |
| NF SFB (J) 250A Replacement Deadfront                      | NFRPLSFB2J           |
| NF SFB (H) 400A Replacement Deadfront                      | NFRPLSFB4H           |
| NF SFB (J) 400A Replacement Deadfront                      | NFRPLSFB4J           |
| NF SFB (LA/LH) Replacement Deadfront                       | NFRPLSFB4LA          |
| NF SFB (LA & H) Replacement Deadfront                      | NFRPLSFB4LAH         |
| NF SFB (LA & J) Replacement Deadfront                      | NFRPLSFB4LAJ         |
| NF Column Width Branch 100 A Repl Deadfront Kit            | NFRPL30L100CW        |
| NF Column Width Branch 100 A Repl Deadfront Kit            | NFRPL30M100CW        |
| NF Column Width Branch 125 A Repl Deadfront Kit            | NFRPL30L125CW        |
| NF Column Width 30 Circuit MB Branch Repl Deadfront Kit    | NFRPL30MBCW          |
| NF Column Width Branch 100 A MB Repl Deadfront Kit         | NFRPL42M100CW        |
| NF Column Width Branch 150 A MB Repl Deadfront Kit         | NFRPL42M150CW        |
| NF Column Width Branch 225 A Repl Deadfront Kit            | NFRPL42L225CW        |
| NF Column Width Branch 225 A MB Repl Deadfront Kit         | NFRPL42M225CW        |
| NF Column Width 42 Circuit MB Branch Repl Deadfront Kit    | NFRPL42MBCW          |
| NF Branch Repl Deadfront Kit 125 A 18 Circuits 1 Phase     | NFRPL18L1            |
| NF Branch Repl Deadfront Kit 125 A 30 Circuits 1 Phase     | NFRPL30L1            |
| NF Branch Repl Deadfront Kit 125 A TFL 30 Circuits 1 Phase | NFRPL30L1TFL         |

**Table 4.16 NF Replacement Parts Kits (cont'd.)**

| NF Replacement Parts Kits                                  | Commercial Reference |
|--|----------------------|
| NF Branch Repl Deadfront Kit 250 A 30 Circuits 1 Phase     | NFRPL30L2            |
| NF Branch Repl Deadfront Kit 250 A TFL 30 Circuits 1 Phase | NFRPL30L2TFL         |
| NF Branch Repl Deadfront Kit 400 A 30 Circuits 1 Phase     | NFRPL30L4            |
| NF Branch Repl Deadfront Kit 400 A TFL 30 Circuits 1 Phase | NFRPL30L4TFL         |
| NF Branch Repl Deadfront Kit 600 A 30 Circuits 1 Phase     | NFRPL30L6            |
| NF Branch Repl Deadfront Kit 600 A TFL 30 Circuits 1 Phase | NFRPL30L6TFL         |
| NF Branch Repl Deadfront Kit 800 A 30 Circuits 1 Phase     | NFRPL30L8            |
| NF Branch Repl Deadfront Kit 800 A TFL 30 Circuits 1 Phase | NFRPL30L8TFL         |
| NF Branch Repl Deadfront Kit 125 A 42 Circuits 1 Phase     | NFRPL42L1            |
| NF Branch Repl Deadfront Kit 125 A TFL 42 Circuits 1 Phase | NFRPL42L1TFL         |
| NF Branch Repl Deadfront Kit 250 A 42 Circuits 1 Phase     | NFRPL42L2            |
| NF Branch Repl Deadfront Kit 250 A TFL 42 Circuits 1 Phase | NFRPL42L2TFL         |
| NF Branch Repl Deadfront Kit 400 A 42 Circuits 1 Phase     | NFRPL42L4            |
| NF Branch Repl Deadfront Kit 400 A TFL 42 Circuits 1 Phase | NFRPL42L4TFL         |
| NF Branch Repl Deadfront Kit 600 A 42 Circuits 1 Phase     | NFRPL42L6            |
| NF Branch Repl Deadfront Kit 600 A TFL 42 Circuits 1 Phase | NFRPL42L6TFL         |
| NF Branch Repl Deadfront Kit 800 A 42 Circuits 1 Phase     | NFRPL42L8            |
| NF Branch Repl Deadfront Kit 800 A TFL 42 Circuits 1 Phase | NFRPL42L8TFL         |
| NF Branch Repl Deadfront Kit 125 A 54 Circuits 1 Phase     | NFRPL54L1            |
| NF Branch Repl Deadfront Kit 125 A TFL 54 Circuits 1 Phase | NFRPL54L1TFL         |
| NF Branch Repl Deadfront Kit 250 A 54 Circuits 1 Phase     | NFRPL54L2            |
| NF Branch Repl Deadfront Kit 250 A TFL 54 Circuits 1 Phase | NFRPL54L2TFL         |
| NF Branch Repl Deadfront Kit 400 A 54 Circuits 1 Phase     | NFRPL54L4            |
| NF Branch Repl Deadfront Kit 400 A TFL 54 Circuits 1 Phase | NFRPL54L4TFL         |
| NF Branch Repl Deadfront Kit 600 A 54 Circuits 1 Phase     | NFRPL54L6            |
| NF Branch Repl Deadfront Kit 600 A TFL 54 Circuits 1 Phase | NFRPL54L6TFL         |
| NF Branch Repl Deadfront Kit 800 A 54 Circuits 1 Phase     | NFRPL54L8            |
| NF Branch Repl Deadfront Kit 800 A TFL 54 Circuits 1 Phase | NFRPL54L8TFL         |
| NF Branch Repl Deadfront Kit 250 A 66 Circuits 1 Phase     | NFRPL66L2            |
| NF Branch Repl Deadfront Kit 250 A TFL 66 Circuits 1 Phase | NFRPL66L2TFL         |
| NF Branch Repl Deadfront Kit 400 A 66 Circuits 1 Phase     | NFRPL66L4            |
| NF Branch Repl Deadfront Kit 400 A TFL 66 Circuits 1 Phase | NFRPL66L4TFL         |
| NF Branch Repl Deadfront Kit 600 A 66 Circuits 1 Phase     | NFRPL66L6            |
| NF Branch Repl Deadfront Kit 600 A TFL 66 Circuits 1 Phase | NFRPL66L6TFL         |
| NF Branch Repl Deadfront Kit 250 A 84 Circuits 1 Phase     | NFRPL84L2            |
| NF Branch Repl Deadfront Kit 400 A 84 Circuits 1 Phase     | NFRPL84L4            |
| NF Branch Repl Deadfront Kit 600 A 84 Circuits 1 Phase     | NFRPL84L6            |
| NF Branch Repl Deadfront Kit 125 A 12 Circuits 3 Phase     | NFRPL412L1           |
| NF Branch Repl Deadfront Kit 125 A 18 Circuits 3 Phase     | NFRPL418L1           |
| NF Branch Repl Deadfront Kit 125 A 30 Circuits 3 Phase     | NFRPL430L1           |
| NF Branch Repl Deadfront Kit 125 A TFL 30 Circuits 3 Phase | NFRPL430L1TFL        |
| NF Branch Repl Deadfront Kit 250 A 30 Circuits 3 Phase     | NFRPL430L2           |
| NF Branch Repl Deadfront Kit 250 A TFL 30 Circuits 3 Phase | NFRPL430L2TFL        |
| NF Branch Repl Deadfront Kit 400 A 30 Circuits 3 Phase     | NFRPL430L4           |
| NF Branch Repl Deadfront Kit 400 A TFL 30 Circuits 3 Phase | NFRPL430L4TFL        |
| NF Branch Repl Deadfront Kit 600 A 30 Circuits 3 Phase     | NFRPL430L6           |
| NF Branch Repl Deadfront Kit 600 A TFL 30 Circuits 3 Phase | NFRPL430L6TFL        |
| NF Branch Repl Deadfront Kit 800 A 30 Circuits 3 Phase     | NFRPL430L8           |
| NF Branch Repl Deadfront Kit 800 A TFL 30 Circuits 3 Phase | NFRPL430L8TFL        |
| NF Branch Repl Deadfront Kit 125 A 42 Circuits 3 Phase     | NFRPL442L1           |
| NF Branch Repl Deadfront Kit 125 A TFL 42 Circuits 3 Phase | NFRPL442L1TFL        |
| NF Branch Repl Deadfront Kit 250 A 42 Circuits 3 Phase     | NFRPL442L2           |
| NF Branch Repl Deadfront Kit 250 A TFL 42 Circuits 3 Phase | NFRPL442L2TFL        |
| NF Branch Repl Deadfront Kit 400 A 42 Circuits 3 Phase     | NFRPL442L4           |
| NF Branch Repl Deadfront Kit 400 A TFL 42 Circuits 3 Phase | NFRPL442L4TFL        |
| NF Branch Repl Deadfront Kit 600 A 42 Circuits 3 Phase     | NFRPL442L6           |
| NF Branch Repl Deadfront Kit 600 A TFL 42 Circuits 3 Phase | NFRPL442L6TFL        |
| NF Branch Repl Deadfront Kit 800 A 42 Circuits 3 Phase     | NFRPL442L8           |
| NF Branch Repl Deadfront Kit 800 A TFL 42 Circuits 3 Phase | NFRPL442L8TFL        |
| NF Branch Repl Deadfront Kit 125 A 54 Circuits 3 Phase     | NFRPL454L1           |
| NF Branch Repl Deadfront Kit 125 A TFL 54 Circuits 3 Phase | NFRPL454L1TFL        |
| NF Branch Repl Deadfront Kit 250 A 54 Circuits 3 Phase     | NFRPL454L2           |
| NF Branch Repl Deadfront Kit 250 A TFL 54 Circuits 3 Phase | NFRPL454L2TFL        |
| NF Branch Repl Deadfront Kit 400 A 54 Circuits 3 Phase     | NFRPL454L4           |
| NF Branch Repl Deadfront Kit 400 A TFL 54 Circuits 3 Phase | NFRPL454L4TFL        |
| NF Branch Repl Deadfront Kit 600 A 54 Circuits 3 Phase     | NFRPL454L6           |
| NF Branch Repl Deadfront Kit 600 A TFL 54 Circuits 3 Phase | NFRPL454L6TFL        |
| NF Branch Repl Deadfront Kit 800 A 54 Circuits 3 Phase     | NFRPL454L8           |
| NF Branch Repl Deadfront Kit 800 A TFL 54 Circuits 3 Phase | NFRPL454L8TFL        |
| NF Branch Repl Deadfront Kit 250 A 66 Circuits 3 Phase     | NFRPL466L2           |
| NF Branch Repl Deadfront Kit 250 A TFL 66 Circuits 3 Phase | NFRPL466L2TFL        |
| NF Branch Repl Deadfront Kit 400 A 66 Circuits 3 Phase     | NFRPL466L4           |
| NF Branch Repl Deadfront Kit 400 A TFL 66 Circuits 3 Phase | NFRPL466L4TFL        |
| NF Branch Repl Deadfront Kit 600 A 66 Circuits 3 Phase     | NFRPL466L6           |
| NF Branch Repl Deadfront Kit 600 A TFL 66 Circuits 3 Phase | NFRPL466L6TFL        |
| NF Branch Repl Deadfront Kit 250 A 84 Circuits 3 Phase     | NFRPL484L2           |
| NF Branch Repl Deadfront Kit 250 A TFL 84 Circuits 3 Phase | NFRPL484L2TFL        |
| NF Branch Repl Deadfront Kit 400 A 84 Circuits 3 Phase     | NFRPL484L4           |
| NF Branch Repl Deadfront Kit 400 A TFL 84 Circuits 3 Phase | NFRPL484L4TFL        |

**Table 4.16 NF Replacement Parts Kits (cont'd.)**

| NF Replacement Parts Kits                                  | Commercial Reference |
|--|----------------------|
| NF Branch Repl Deadfront Kit 600 A 84 Circuits 3 Phase     | NFRPL484L6           |
| NF Branch Repl Deadfront Kit 600 A TFL 84 Circuits 3 Phase | NFRPL484L6TFL        |

**Type 1 Door-in-Door (Hinged) Trim Fronts**

**Features**

- Meets door-in-door specifications
- Provides continuous piano hinge
- Permits one-person maintenance



Catalog No.  
NC44SHR

**Table 4.17: Interiors, Boxes and Fronts (PENDING OBSOLESCENCE)**

Note: HCM pending obsolescence and replaced by HCJ

| Total Circuit Breaker Mounting Space (In.)   | Mains Ampere Rating | Front [1]                 |                   | Box [2]        |                                   | Box Height (In.) |
|--|---------------------|---------------------------|-------------------|----------------|-----------------------------------|------------------|
|  |                     | 4 Piece Trim Without Door | Trim With Door[3] | Type 1         | NEMA 3R/5/12 [4] (Includes Front) |                  |
|  |                     | Catalog Number            | Catalog Number    | Catalog Number | Catalog Number                    |                  |
| <b>HCM Main Lugs Only</b>  |                     |                           |                   |                |                                   |                  |
| <b>3-pole—Suitable for use as service equipment when provided with a main circuit breaker. [5]</b>     |                     |                           |                   |                |                                   |                  |
| 27   | 225 A               | HCM48T ( )                | HCM48T ( )D       | HC3248B        | HC3248WP                          | 48               |
|  | 400 A               |                           |                   |                |                                   |                  |
|  | 600 A               |                           |                   |                |                                   |                  |
|  | 800 A               |                           |                   |                |                                   |                  |
| 45   | 225 A               | HCM64T ( )                | HCM64T ( )D       | HC3264B        | HC3264WP                          | 64               |
|  | 400 A               |                           |                   |                |                                   |                  |
|  | 600 A               |                           |                   |                |                                   |                  |
|  | 800 A               |                           |                   |                |                                   |                  |
| 63   | 225 A               | HCM73T ( )                | HCM73T ( )D       | HC3273B        | HC3273WP                          | 73               |
|  | 400 A               |                           |                   |                |                                   |                  |
|  | 600 A               |                           |                   |                |                                   |                  |
|  | 800 A               |                           |                   |                |                                   |                  |
| 99   | 225 A               | HCM91T ( )                | HCM91T ( )D       | HC3291B        | HC3291WP                          | 91               |
|  | 400 A               |                           |                   |                |                                   |                  |
|  | 600 A               |                           |                   |                |                                   |                  |
|  | 800 A               |                           |                   |                |                                   |                  |
| <b>HCM Main Circuit Breaker [6] [7]</b>  |                     |                           |                   |                |                                   |                  |
| <b>Includes 3-pole, vertically mounted main circuit breaker—Suitable for use as service equipment.</b> |                     |                           |                   |                |                                   |                  |
| 27   | 400 A               | HCM64T ( )                | HCM64T ( )D       | HC3264B        | HC3264WP                          | 64               |
| 36   | 225 A               | HCM73T ( )                | HCM73T ( )D       | HC3273DB9[8]   | Use HCP                           | —                |
|  | 600 A               |                           |                   |                |                                   |                  |
|  | 800 A               |                           |                   |                |                                   |                  |
| 45   | 400 A               | HCM73T ( )                | HCM73T ( )D       | HC3273B        | HC3273WP                          | 73               |
| 54   | 225 A               | HCM91T ( )                | HCM91T ( )D       | HC3291DB9[8]   | Use HCP                           | —                |
| 600 A  |                     |                           |                   |                |                                   |                  |
| 800 A  |                     |                           |                   |                |                                   |                  |
| 81   | 400 A               | HCM91T ( )                | HCM91T ( )D       | HC3291B        | HC3291WP                          | 91               |

**Table 4.18: Hinged Trim**

| I-Line Fronts   | NQ and NF Fronts    |
|-----------------|---------------------|
| Catalog No. [9] | Catalog No. [9][10] |
| HC2652T ( )HR   | NC26 ( )HR          |
| HC2665T ( )HR   | NC32 ( )HR          |
| HC2674T ( )HR   | NC38 ( )HR          |
| HC2683T ( )HR   | NC44 ( )HR          |

[1] Add "F" for flush mount, "S" for surface mount for panelboards with bus rated 250A or less. Add "VS" for vented surface or "VF" for vented flush in place of the parentheses for panelboards with bus rated 400A or greater.

[2] For Type 1 applications, order interior, front, and box. For Type 3R/5/12 applications, order interior and box only. The front is included with the box.

[3] For Type 1 applications order interior, trim and box. For type 3R/5/12, order interior and box only.

[4] Remove drain screws for Type 3R rating.

[5] Suitable for use as service equipment if equipped with an integral main circuit breaker or when not more than six main disconnecting means are provided and the panelboard is not used as a lighting and appliance branch circuit panelboard. (Not applicable in Canada)

[6] Bottom feed standard.

[7] Circuit breaker interrupt ratings, see [Interrupting Ratings Codes \(kA\)](#), page .

[8] DB9 box is 9.5 inches deep.

[9] Add "S" for surface or "F" for flush in place of the parentheses.

[10] For welded metal directory, add "WMD" suffix to the end of the catalog number.

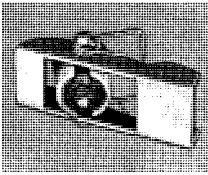
**Table 4.18 Hinged Trim (cont'd.)**

| I-Line Fronts<br>Catalog No. [11] | NQ and NF Fronts<br>Catalog No. [11][12] |
|-----------------------------------|--|
| HC2692T( )HR                      | NC50( )HR                                |
| HC3248T( )HR                      | NC56( )HR                                |
| HC3264T( )HR                      | NC62( )HR                                |
| HC3273T( )HR                      | NC68( )HR                                |
| HC3291T( )HR                      | NC74( )HR                                |
| HC4250T( )HR                      | NC80( )HR                                |
| HC4259T( )HR                      | NC86( )HR                                |
| HC4268T( )HR                      | NC50V( )HR                               |
| HC4286T( )HR                      | NC56V( )HR                               |
| HC4486T( )HR                      | NC62V( )HR                               |
| —                                 | NC68V( )HR                               |
| —                                 | NC74V( )HR                               |
| —                                 | NC80V( )HR                               |
| —                                 | NC86V( )HR                               |

**Trim Clamps and Screws**

**Table 4.19: Trim Clamps and Screws**

| Application  | Catalog No.   |
|--|---|
| NQOD Panelboards:<br>Series E1 [1] 400 A and 600 A fronts<br>NEHB Panelboards:<br>Series E1 [1] 600 A fronts<br>I-Line Panelboards:<br>All Series E1 [1] fronts  | LP9501  |
| NQOD Panelboards:<br>All Series E1 [1] vented fronts and hinged fronts manufactured after July 1994.<br>NF Panelboards:<br>All vented fronts and hinged fronts.<br>NEHB Panelboards:<br>All Series E1 [1] hinged fronts manufactured after July 1994.<br>I-Line and QMB Panelboards:<br>I-Line front with door manufactured after July 1994 but before August 1997; and I-Line hinged fronts and QMB front with door manufactured after July 1994. | LP9502<br>(includes 8 trim screws and captive hardware) |
| NQ and NQOD Panelboards:<br>Screws for all fronts through 225 A.<br>NF Panelboards:<br>Screws for all fronts through 250 A.<br>I-Line Panelboards:<br>4-piece trim and trim with door manufactured after July 1997.<br>QMB Panelboards:<br>Screws for 4-piece covers.  | 4020513001K<br>(package of 10)                          |
| I-Line Panelboards:<br>Panelboard deadfront screws for 4-piece trim manufactured after July 1994 but before August 1997.   | 8002506701  |



Catalog No  
LP9501

[11] Add "S" for surface or "F" for flush in place of the parentheses.  
 [12] For welded metal directory, add "WMD" suffix to the end of the catalog number.  
 [1] Panelboards that meet 1984 NEC® Wire Bending Space are Series E1.



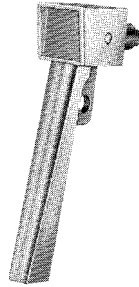
Catalog No. PK4FL and PD22FL



Catalog No. PK5FL



Catalog No. PK4NVL



Catalog No. 30007 11851

Locks

Table 4.20: Locks—Type 1 Enclosures<sup>[2]</sup>

| Application   | Catalog No.                             |
|---|---|
| <b>NQOD, NQO, and NQOB Panelboards</b>  |   |
| All fronts on enclosures up to and including 50-inch high and 53-inch through 68-inch high vented trims         | PK4FL (Before 01/06/97)                 |
|   | PK22FL (After 01/06/97 NQ or NQOD only) |
| All fronts on enclosures 56 inches high or higher, excluding 53-inch through 68-inch high vented fronts         | PK5FL (Before 11/01/99)                 |
|   | PK22FL (After 11/01/99 NQOD only)       |
| <b>NQ and NF Panelboards</b>  |   |
| All fronts <sup>[3][4]</sup> with the exception of those for use on panels using LC or LI main circuit breakers | PK22FL                                  |
| Fronts on enclosures 68 inches high or higher for panels using LC or LI main circuit breakers                   | PK5FL                                   |
| <b>I-Line Panelboards</b>   |   |
| HCM: Series 1 and 2 fronts on enclosures up to 54 inches high   | PK4FL                                   |
| HCM: Series 1 and 2 fronts on enclosures 63 inches high or higher   | PK5FL                                   |
| HCM: Series 1 and 2 fronts on 38-inch high enclosures   | PK4FL                                   |
| HCM: Series 1 and 2 fronts on enclosures 47 inches high or higher   | PK5FL                                   |
| <b>I-Line Panelboards</b>   |   |
| HCW, HCWM: Series 1 and 2 fronts  | PK5FL                                   |
| HCN: Series E1 <sup>[2]</sup> fronts on enclosures up to and including 74-inches high                           | PK4FL (Before 11/14/97)                 |
|   | PK22FL (After 11/14/97)                 |
| HCN: Series E1 <sup>[2]</sup> fronts on enclosures 83 inches high or higher                                     | PK5FL (Before 04/05/02)                 |
|   | PK22FL (After 04/05/02) <sup>[5]</sup>  |
| HCM: Series E1 <sup>[2]</sup> fronts on enclosures 64 inches high or higher                                     | PK5FL (Before 11/14/97)                 |
|   | PK22FL (After 11/14/97) <sup>[5]</sup>  |
| HCW, HCWM, HCWM-U, HCR-U: Series E1 <sup>[2]</sup> Front  | PK5FL                                   |
| <b>I-Line Panelboards (4-piece trim with door kit)</b>  |   |
| HCN: Series E1 <sup>[2]</sup> fronts on enclosures up to and including 74 inches high                           | PK22FL                                  |
| HCN: Series E1 <sup>[2]</sup> fronts on enclosures 83 inches high or higher                                     | PK5FL (Before 02/22/02)                 |
|   | PK22FL (After 02/22/02) <sup>[5]</sup>  |
| HCM: Series E1 <sup>[2]</sup> fronts on enclosures 73 inches high or higher                                     | PK22FL                                  |
| HCP, HCR-U: Series E1 <sup>[2]</sup> Front  | PK5FL                                   |
| HCP-SU: Series E1 <sup>[2]</sup> Front and HCP-SU Hinged Front  | PK22FL <sup>[5]</sup>                   |

• One NSR-251 key is included with each lock.

Table 4.21: Locks—Type 3R/12 Enclosures

| Application                                  | Catalog No.              |
|--|--------------------------|
| NQOD, NQO, NQOB, NF all enclosures Series E1 | PK4NVL                   |
| NQ, NQOD, NF Series E2                       | 8011604350 (one handle)  |
|  | 8011604351 (two handles) |
| I-Line and QMB Series E1                     | PK4NVL                   |
| I-Line and QMB Series E2                     | 8012106350               |
| I-Line—Handle for padlocking Series 1 and 2  | 3000711851               |
| Stainless steel enclosures                   | HSEM3PLH                 |

Keys

Table 4.22: Replacement Keys

| Application   | Catalog No. |
|---|-------------|
| For use on all locks except those on stainless steel enclosures | LP9618      |
| Locks on stainless steel enclosures                             | 8010645601  |



Catalog No. LP9618

<sup>[2]</sup> Panelboards that meet 1984 NEC® Wire Bending Space are Series E1.  
<sup>[3]</sup> Fronts 56 inches or higher on 250 A maximum interior require two locks.  
<sup>[4]</sup> Front 74 inches or higher on 600 A maximum interior require two locks.  
<sup>[5]</sup> Fronts require two locks.



**Main Circuit Breaker and Current Transformer Compartment**  
**Service Entrance Equipment Hot or Cold Sequence Metering, Top or Bottom Feed, Indoor Construction at 600 Volts**

**General:** Suitable for use as service entrance equipment on AC systems. Listed by Underwriters' Laboratories.

**Service:** 1Ø3W, 3Ø3W, 3Ø4W, rated up to 600 Vac maximum.

**Metering:** [1] Current transformer compartment with provisions for installing bar type current transformers. For window type current transformers, order bus link kit from Table 4.23 Product Selection Table, page 4-17.

Standard unit is factory assembled for bottom feed cold sequence or top feed hot sequence metering applications. The unit is field convertible for bottom feed hot sequence or top feed cold sequence metering. Refer to instruction bulletin 80105-113-0x, *CTC Wall-Mounted Metering Equipment*, for field conversion details.

**Mains:** Main disconnects provided. 400-800 A: MJP. 1000-1200 A: PJP. Handle lock-off attachment provided for main circuit breaker as standard.

Refer to Digest pages 7-36—7-42 for field installable accessories.

**Enclosure:** Front accessible, totally enclosed, gray baked enamel finish. Available as indoor construction only. **Dimensions—78 in. H x 26 in. W x 14.3 in. D.**

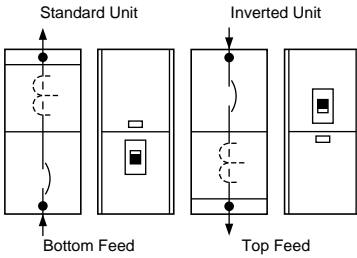
- **NOTE:** Not EUSERC approved. For EUSERC approved Speed-D switchboards, see Digest pages 11-4 and 11-5. Service Applications



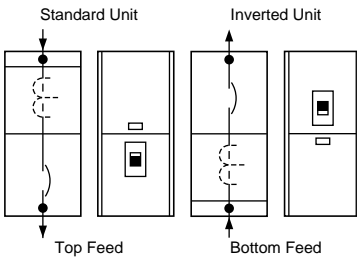
Standard Unit

Inverted Unit

**Cold Sequence Metering**



**Hot Sequence Metering**



**Table 4.23: Product Selection Table** [2]

| System   | Service Voltage (AC) | Ampere Rating of Main | Catalog Number |
|--|----------------------|-----------------------|----------------|
| 1Ø3W, 3Ø3W, 3Ø4W   | 600 V Max.           | 400 A                 | CTC364CU       |
|  |                      | 600 A                 | CTC366CU       |
|  |                      | 800 A                 | CTC368CU       |
|  |                      | 1000 A                | CTC3610CU      |
|  |                      | 1200 A                | CTC3612CU      |
| Bus link kit—used when installing window-type current transformers [3] |                      |                       | SS4BLC         |

**Table 4.24: Lug Table**

| Ampere Rating | Main Circuit Breaker Lug Wire Range [4] | Ground Lug                |
|---------------|---|---------------------------|
| 400 A         | (3) 3/0–500 kcmil Al or Cu              | #6 AWG–300 kcmil Al or Cu |
| 600 A         | (3) 3/0–500 kcmil Al or Cu              |                           |
| 800 A         | (3) 3/0–500 kcmil Al or Cu              |                           |
| 1000 A        | (4) 3/0–500 kcmil Al or Cu              |                           |
| 1200 A        | (4) 3/0–500 kcmil Al or Cu              |                           |

[1] Field conversion is the customer's responsibility, only the standard configuration is built by the factory.

[2] Must specify feed (top or bottom) and sequence (hot or cold) at the time of order.

[3] Kits required per 3Ø application:

400–600 A—Order one kit

800–1200 A—Order two kits

[4] CT bus lugs and neutral lugs are identical to the main circuit breaker lugs.

Data Sheet for Panelboards to Retrofit Existing Enclosures

Distributor: \_\_\_\_\_  
 Job Name: \_\_\_\_\_  
 Contractor: \_\_\_\_\_  
 Panel Marking: \_\_\_\_\_

The following dimensions are necessary for quotation and production of a panel to fit an existing enclosure. Provide dimensions in inches only.

**Existing Flush-Mounted Enclosures**

- Height dimension "A":
- Width dimension "B":
- Depth dimension "C":
- Flange width dimension "D":
- If enclosure is not flush with Plaster Line, dimension "E":

**Existing Surface-Mounted Enclosures**

- Height dimension "A":
- Width dimension "B":
- Depth dimension "C":
- Flange dimension may be either dimension "D" or "F" (select one)
  - Dimension "D":
  - Dimension "F": NOTE: Trims are furnished so that the interior must be centered within the enclosure.

If the enclosure is deeper than the standard panelboard enclosure for the required type of panelboard, *customer-supplied mounting brackets may be necessary to bring the interior out to the front of the enclosure.*

If interior requires a vented enclosure, contact your nearest Schneider Electric sales office for assistance.

