### Type P1 Panelboards

**Lug Kits — Main or Feed Thru**

| Ampere Rating | Material | Wire Range | Service | Catalog Number |
|---|---|---|---|---|
| 250 | Al | (1) #6 AWG–350 kcmil Cu or Al | 1-Phase | **MLKA1** |
| | | (1) #6 AWG–350 kcmil Cu or Al | 3-Phase | **MLKA3** |
| | Cu | (1) #6 AWG–350 kcmil Cu or Al | 1-Phase | **MLKC1** |
| | | (1) #6 AWG–350 kcmil Cu or Al | 3-Phase | **MLKC3** |
| 400 | Al | (2) 3/0 250 or (1) 600 kcmil | 1-Phase<br>3-Phase | **4MLKA1**<br>**4MLKA3** |
| | Cu | (2) 3/0 250 or (1) 600 kcmil | 1-Phase<br>3-Phase | **4MLKC1**<br>**4MLKC3** |

**Copper Neutral Lug Kits — 250A**

| Number of Circuits | Description | Catalog Number |
|---|---|---|
| 18 | 2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware | **CNLK18** |
| 30 | 2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware | **CNLK30** |
| 42 | 2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware | **CNLK42** |

**200% Neutral Lug Kits/250A**

| | | |
|---|---|---|
| 18 | 2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware | **2NLK18** |
| 30 | 2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware | **2NLK30** |
| 42 | 2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware | **2NLK42** |

**200% Neutral Lug Kits/400A**

| | | |
|---|---|---|
| 18<br>30<br>42 | 2 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware | **42NLK18**<br>**42NLK30**<br>**42NLK42** |

**Miscellaneous Parts and Accessories**

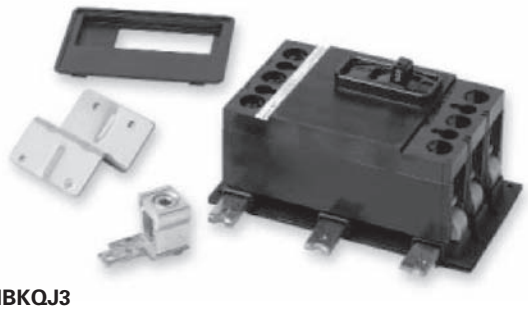
| Catalog Number | Description |
|---|---|
| **EGK** | Al Ground Bus 44 Connections |
| **BK1** | Bonding kit for 250A max. and all P1 panels |
| **BK2** | Bonding kit for S1/S2 400 & 600 |
| **BK3** | Bonding kit |
| **IMK1** | Interior Adjusting Kit |
| **11-1824-01** | Directory Card Holder |
| **12-1110-01** | Directory Card |
| **11-1056-01** | NEMA Instruction Book |
| **NBK03** | Number Strips 1–42 |
| **NBK04** | Number Strips 43–84 |
| **NBK05** | Number Strips 85–126 |
| **NBK06** | Number Strips 127–168 |
| **ECGK** | Cu Ground Bus 44 Connections |
| **IGK** | Insulated Al Ground Bus |
| **ICGK** | Insulated Cu Ground Bus |
| **EWK1** | End Wall Kit with Knockouts (20" W x 5.75" DP) |
| **EWK2** | End Wall Kit with Knockouts (24" W x 7.75" DP) |
| **QF3** | Filler Plate |
| **EBF1** | NEB/HEB Filler Plate |

### Type P1 Panelboards

**Breaker Mounting Kits 250A Max. — Main or Subfeed w/o Breaker**

| Ampere Rating | Breaker Types | Service | Catalog Number |
|---|---|---|---|
| 100A | BQD | 3-Phase | **MBKBC3** |
| 100A | BL, BLH, HBL | 1-Phase<br>3-Phase | **MBKBL1**<br>**MBKBL3** |
| 125A | NGB | 1-Phase<br>3-Phase | **MBKNB1**<br>**MBKNB3** |
| 125A | ED4, ED6, HED4, HED6 | 1-Phase<br>3-Phase | **MBKED1**<br>**MBKED3** |
| 225A | QJ2, QJH2, QJ2-H | 1-Phase<br>3-Phase | **MBKQJ1**<br>**MBKQJ3** |
| 250A | FXD6, FD6, HFD6, HFDX6 | 1-Phase<br>3-Phase | **MBKFD1**<br>**MBKFD3** |
| 400A① | JXD2, JD6, JXD6, HJD6, HJXD6 | 1-Phase<br>3-Phase | **MBKJD1**<br>**MBKJD3** |

① 400 amp kit is for main—only not allowed for subfeed breaker.



**MBKQJ3**



**MBKFD3**

• Revised •
07/25/13

# Panelboards

## Type 1 P1 Panelboard Modifications and Additions

*Selection*

### Enclosures

| Description |
|---|
| 6" end gutter<br>2" side gutter<br>Barrier in gutter (add to extra gutter price – min 4" required)<br>24" wide |
| Hinged trims<br>Piano hinged trims<br>Door-in-door trims<br>Screw to the box trims |
| Trim mounted devices . . . . . See page 11-80<br>• Pilot lights<br>• Toggle switches<br>• Push buttons<br>(Devices mounted to be wired to the trim should also have hinged trim specified) |
| Painted boxes . . . . . See page 11-80<br>Custom colors . . . . . See painted boxes<br>Increase gauge trims and boxes . . . . . See page 11-80<br>Stainless steel trims and boxes, Type 1 . . . . . See page 11-80 |

**Meters**
(Contact sales for pricing and application engineering for space requirements)

**Panel Skirts** See page 11-81

**Special Locks**

TEY
TEU1
Cat 60
LL803
LL806
Yale 47 (NYC)
National C413A
Best Lock 7-pin tumbler
Southco 1/4 Fastener
Corbin 1001 FAB7

### Panel Modifications

| Catalog No. Addition | Main Bus | Amp Ratings |
|---|---|---|
| C | Copper (tin pltd.) | 125A |
| C | Copper (tin pltd.) | 250A |
| C | Copper (tin pltd.) | 400A |

* "C" represents "A" in the 11th digit of the catalog number.

**Branch and Main Breaker and Accessories**
See breaker section for pricing on the following options
- Handle blocks
- Handle locks
- Aux. Contacts①
- UVR①

**Bus mounted SPD** see section 10

**Service Entrance Label**

Type P1 Panelboards are factory labeled suitable for use as service entrance equipment when NEC requirements are met. A panelboard cannot have more than six main disconnects, unless it is a lighting and appliance branch panelboard. Lighting and appliance branch panelboards are limited to two main disconnects.

① Accessories on 1" pole breakers (BL, BQD, ED) will take unit space.

### Panel Modifications (cont.)

**Grounding of Panelboards**

Ground Bars except for brazed to box are shipped with the panel interior factory mounted.
- Non-Insulated Equipment Ground Bar
- Copper Non-Insulated Ground Bar
- Al Insulated Equipment Ground Bar
- Cu Insulated Equipment Ground Bar
- Ground Bar Brazed to Box (not recommended for painted boxes)

**Shunt Trip on Main or Branch**

BL, BLH, HBL, BQD as branch only. BL, BLH, HBL, NGB, ED4, ED6, HED4, HED6, HHED6 uses 1" unit space for shunt trip as a branch device. All others may be used on mains or subfeeds. See breaker section for list price adders.

**Time Clocks**

Time clocks may be mounted in a 23" enclosure to be cable connected to the panel. Sangamo, Tork or Paragon time clock can be supplied.

| Description |
|---|
| Time Clock (1 or 2-pole, single or double throw contacts; 3-pole, single throw) 277V maximum with plain dial |
| Astronomical dial |
| An omitting device |
| Reserve power or carryover |
| Space and mounting provisions only |

### Remote Switches Modifications

(See page 11-79)

**Remote Control Switches**

480V AC max. mounted in a 23" enclosure to be cable connected to the panel.

**Application for Remote Switch**

| Switch Type | Modification |
|---|---|
| 920 | Mounts in 23" relay cabinet as a main only |
| LEN | 30A mounts in 23" relay cabinet as a main only |

**Feed-Thru Lugs**

Cannot be used in conduction with SPD or subfeed breakers

| Ampere Rating | Type | Connector Range |
|---|---|---|
| 250 | Al/Cu Lay-in Mechanical<br>Cu Lay-in Mechanical<br>Al/Cu Compression | (1)—#6 AWG-350 kcmil<br>(1)—#6 AWG-350 kcmil<br>(1)—#6 AWG-350 kcmil |
| 400 | Al/Cu AWG Mechanical<br>Cu<br>Al/Cu Compression | (2)—#3/0 AWG-250 kcmil or (1)—#3/0 AWG-600 kcmil<br>(2)—#3/0 AWG-250 kcmil or (1)—#3/0 AWG-600 kcmil<br>(1) 400—600 kcmil |

**Note:** Specify copper or aluminum cable.

### Type P1, P2, and P3 Panelboards

**Miscellaneous Parts and Accessories**

| Catalog Number | Description |
|---|---|
| EGK | Al Ground Bus 44 Connections |
| BK1 | Bonding kit for 250A max. and all P1 panels |
| IMK1 | Interior Adjusting Kit |
| 11-1824-01 | Directory Card Holder |
| 12-1110-01 | Directory Card |
| 11-1056-01 | NEMA Instruction Book |
| NBK03 | Number Strips 1–42. Stick-on type; Use w/ P1 series Panels |
| NBK04 | Number Strips 43–84. Stick-on type; Use w/ P1 series Panels |
| NBK05 | Number Strips 85–126. Stick-on type; Use w/ P1 series Panels |
| NBK06 | Number Strips 127–168. Stick-on type; Use w/ P1 series Panels |
| ECGK | Cu Ground Bus 44 Connections |
| IGK | Insulated Al Ground Bus |
| ICGK | Insulated Cu Ground Bus |
| EWK1 | End Wall Kit with Knockouts (20" W x 5.75" DP) |
| EWK2 | End Wall Kit with Knockouts (24" W x 7.75" DP) |
| QF3 | Filler Plate |
| EBF1 | NEB/HEB Filler Plate |