

## Electrical Data for I-Line II Busway

|                         |   |
|-------------------------|---|
| <b>Standards:</b>       | UL857 (File Number E22182); CSA C22.2 No. 27-1994 (File Number LL-61778); IEC 61439-6   |
| <b>Systems:</b>         | AC-3Ø3W, 3Ø4W, 1Ø2W, 1Ø3W. DC-2-pole. All neutrals are 100% capacity.   |
| <b>Voltage:</b>         | 600 volts AC/DC, 50 Hz and 60 Hz  |
| <b>Integral Ground:</b> | 50% capacity as standard for 800 A to 5000 A, as an option on 225 A to 600 A  |
| <b>Enclosure:</b>       | Indoor, indoor drip resistant, indoor splash resistant (IP54), and outdoor (indoor drip resistant, indoor splash resistant (IP54), and outdoor are available in I-Line II [800–5000 A] busway only) |

Table 12.21: Short Circuit Ratings: UL 3 Cycle Test (KA, RMS Symmetrical)<sup>[7]</sup>

| Ampere Rating | Aluminum |           |            |               | Copper   |           |            |               |
|---------------|----------|-----------|------------|---------------|----------|-----------|------------|---------------|
|               | AOF2 AF2 | AOFH AFH2 | AP AP2/AR2 | APH APH2/ARH2 | COF2 CF2 | COFH CFH2 | CP CP2/CR2 | CPH CPH2/CRH2 |
| 225           | —        | —         | 22         | —             | —        | —         | 22         | —             |
| 400           | —        | —         | 22         | 42            | —        | —         | 22         | 42            |
| 600           | —        | —         | 22         | 42            | —        | —         | 22         | 42            |
| 800           | 50       | 85        | 50         | 75            | 50       | 85        | 50         | 75            |
| 1000          | 50       | 100       | 50         | 100           | 50       | 85        | 50         | 75            |
| 1200          | 50       | 100       | 50         | 100           | 50       | 100       | 50         | 100           |
| 1350          | 50       | 100       | 50         | 100           | 50       | 100       | 50         | 100           |
| 1600          | 50       | 100       | 50         | 100           | 50       | 100       | 50         | 100           |
| 2000          | 100      | 150       | 125        | 150           | 50       | 100       | 65         | 100           |
| 2500          | 100      | 150       | 125        | 150           | 100      | 150       | 125        | 150           |
| 3000          | 100      | 150       | 125        | 150           | 100      | 150       | 125        | 150           |
| 3200          | —        | —         | —          | —             | 100      | 150       | 125        | 150           |
| 4000          | 150      | 200       | 200        | 200           | 150      | 200       | 200        | 200           |
| 5000          | —        | —         | —          | —             | 150      | 200       | 200        | 200           |

## Fusible Plug-In Units, Class R Fuse Kits, and Hooksticks

Table 12.22: Fusible Plug-In Units<sup>[8]</sup>

| Ampere Rating      | Type of Connection | 240 Vac<br>3-Pole, 3 Fuse + G | 120/208 Vac, (240 Vac Max.)<br>4-Pole, 3 Fuse + G | 600 Vac<br>3-Pole, 3 Fuse + G | 277/480 Vac, (600 Vac Max.)<br>4-Pole, 3 Fuse + G |
|--------------------|--------------------|-------------------------------|---|-------------------------------|---|
|                    |                    | Catalog No.                   | Catalog No.                                       | Catalog No.                   | Catalog No.                                       |
| 30                 | Plug-in            | PQ3203G                       | PQ4203G   | PQ3603G                       | PQ4603G   |
| 60                 |                    | PQ3206G                       | PQ4206G   | PQ3606G                       | PQ4606G   |
| 100                |                    | PQ3210G                       | PQ4210G   | PQ3610G                       | PQ4610G   |
| 200                |                    | PQ3220G                       | PQ4220G   | PQ3620G                       | PQ4620G   |
| 200 <sup>[9]</sup> |                    | PS3220G <sup>[9]</sup>        | PS4220G <sup>[9]</sup>                            | PS3620G <sup>[9]</sup>        | PS4620G <sup>[9]</sup>                            |
| 400                |                    | PBQ3640G <sup>[10]</sup>      | PBQ4640G <sup>[10]</sup>                          | PBQ3640G <sup>[10]</sup>      | PBQ4640G <sup>[10]</sup>                          |
| 600                |                    | PBQ3660G <sup>[10]</sup>      | PBQ4660G <sup>[10]</sup>                          | PBQ3660G <sup>[10]</sup>      | PBQ4660G <sup>[10]</sup>                          |
| 800                | Bolt-on            | —                             | —   | PTQ36080G ( ) <sup>[11]</sup> | PTQ46080G ( ) <sup>[11]</sup>                     |
| 1000               |                    | —                             | —   | PTQ36100G ( ) <sup>[11]</sup> | PTQ46100G ( ) <sup>[11]</sup>                     |
| 1200               |                    | —                             | —   | PTQ36120G ( ) <sup>[11]</sup> | PTQ46120G ( ) <sup>[11]</sup>                     |

**Class J Fuses** – Provisions for installing Class J fuses are included in 30 through 600 A fusible devices. Conversion to Class J fuse spacing requires relocating the load side fuse base assembly from standard Class H fuse location to an alternate position in the enclosure.

There are three different types of plug-in connections:

- High Ampere Bolt-On Connection (catalog numbers that begin with “PT”)—bolted “joint pack” type connection
  - Used on I-Line/I-Line II busway amperages 800 A aluminum and greater.
  - Used on I-Line/I-Line II busway amperages 1000 A copper and greater.
- High Ampere Plug-In Connection (catalog numbers that begin with “PB”)—individual bolted jaws for connections
- Low Ampere Plug-In Connection (catalog numbers that begin with “P,” except for “PB” and “PT”)—spring pressure jaws for connection

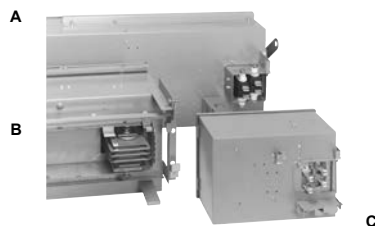
Table 12.23: Class R Fuse Kits<sup>[12]</sup>

| Switch Size (A) | Voltage Rating                                 | Kit <sup>[12]</sup> Catalog No. |
|-----------------|--|---------------------------------|
| 30              | 250 V <sup>[13]</sup><br>600 V <sup>[13]</sup> | QMB30R<br>QMB36R                |
| 60              | 250 V <sup>[13]</sup><br>600 V <sup>[13]</sup> | QMB36R<br>QMB60R                |
| 100<br>200      | All  | HRK1020                         |
| 400<br>600      | All  | QMB4060R                        |

**Class R Fuse Kits** when installed reject all but class R fuses.



“Hook-Swing” Mounting



A – High Ampere Plug-In Connection  
B – High Ampere Bolt-On Connection  
C – Low Ampere Plug-In Connection

<sup>[7]</sup> 6-cycle and 30-cycle, and fuse/circuit breaker series connected ratings are available. Please reference 5600CT9101.

<sup>[8]</sup> For IP54 splash resistant construction, add an “M54” suffix.

<sup>[9]</sup> For use on vertical riser applications only.

<sup>[10]</sup> For vertical riser applications, order auxiliary mounting kit—Catalog Number PBQ4060RMK.

<sup>[11]</sup> This device uses bolt-on connection. It may be used only on plug-in busway with same number of poles. To complete the catalog number, replace the blank with an “H” for the plug-in unit to be mounted on horizontally-oriented busway and “V” for the plug-in unit to be mounted on vertically-oriented busway. Not for use on 800 A copper busway.

<sup>[12]</sup> Kit must be field installed.

<sup>[13]</sup> Contains parts to convert two units.