

# SIEMENS

*Ingenuity for life*



## Plug-On Neutral Load Centers and Electronic Breakers

Simple. Spacious. Secure.



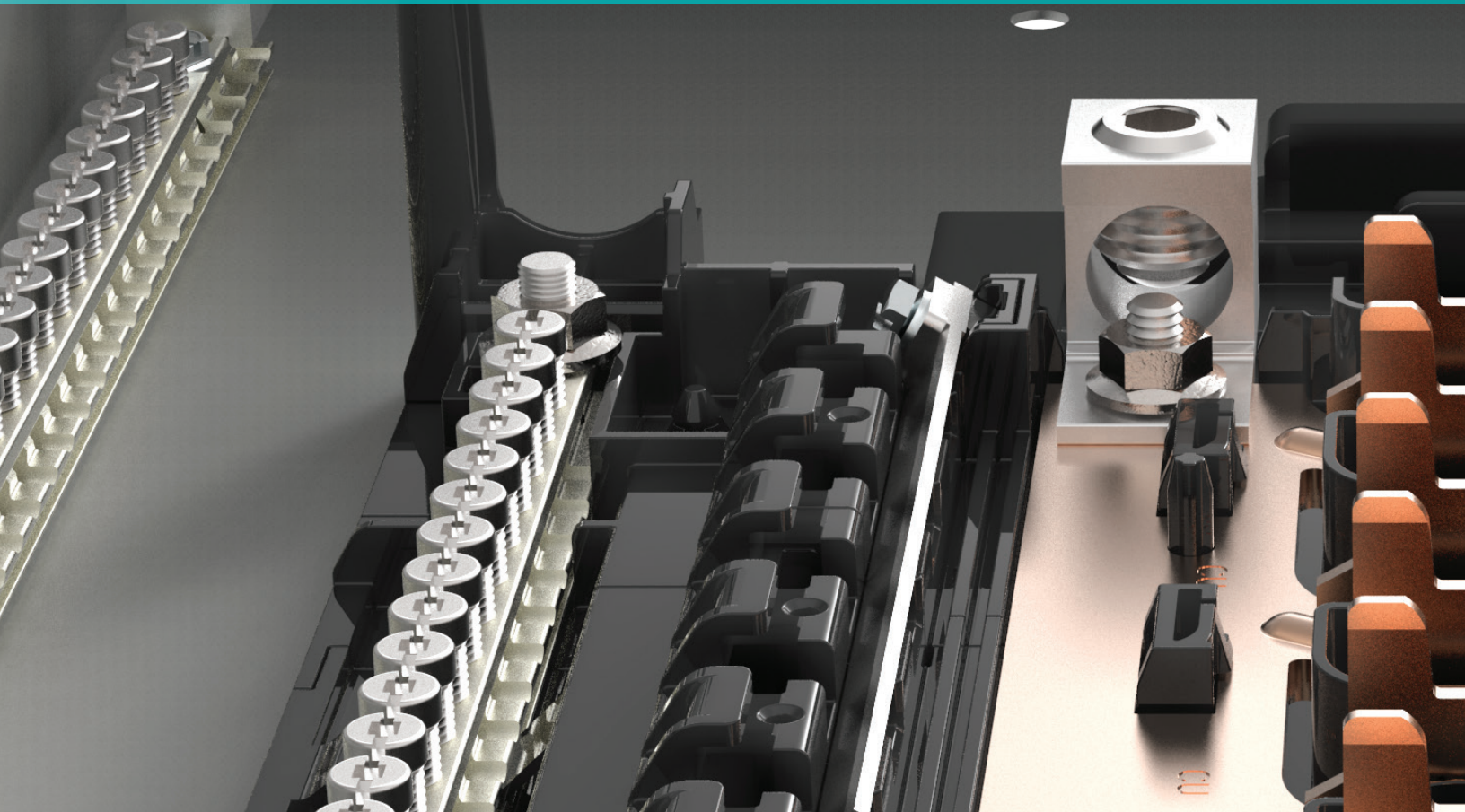
Installs just like any other circuit breaker.

Now without the pigtail.

No new wiring practice or installation  
method required.

[usa.siemens.com/loadcenters](http://usa.siemens.com/loadcenters)

You have come to know Siemens solutions for their durability, innovation, and safety attributes. This continues with the plug-on neutral load center with electronic breakers to provide a more secure connection resulting in a more confident installation.



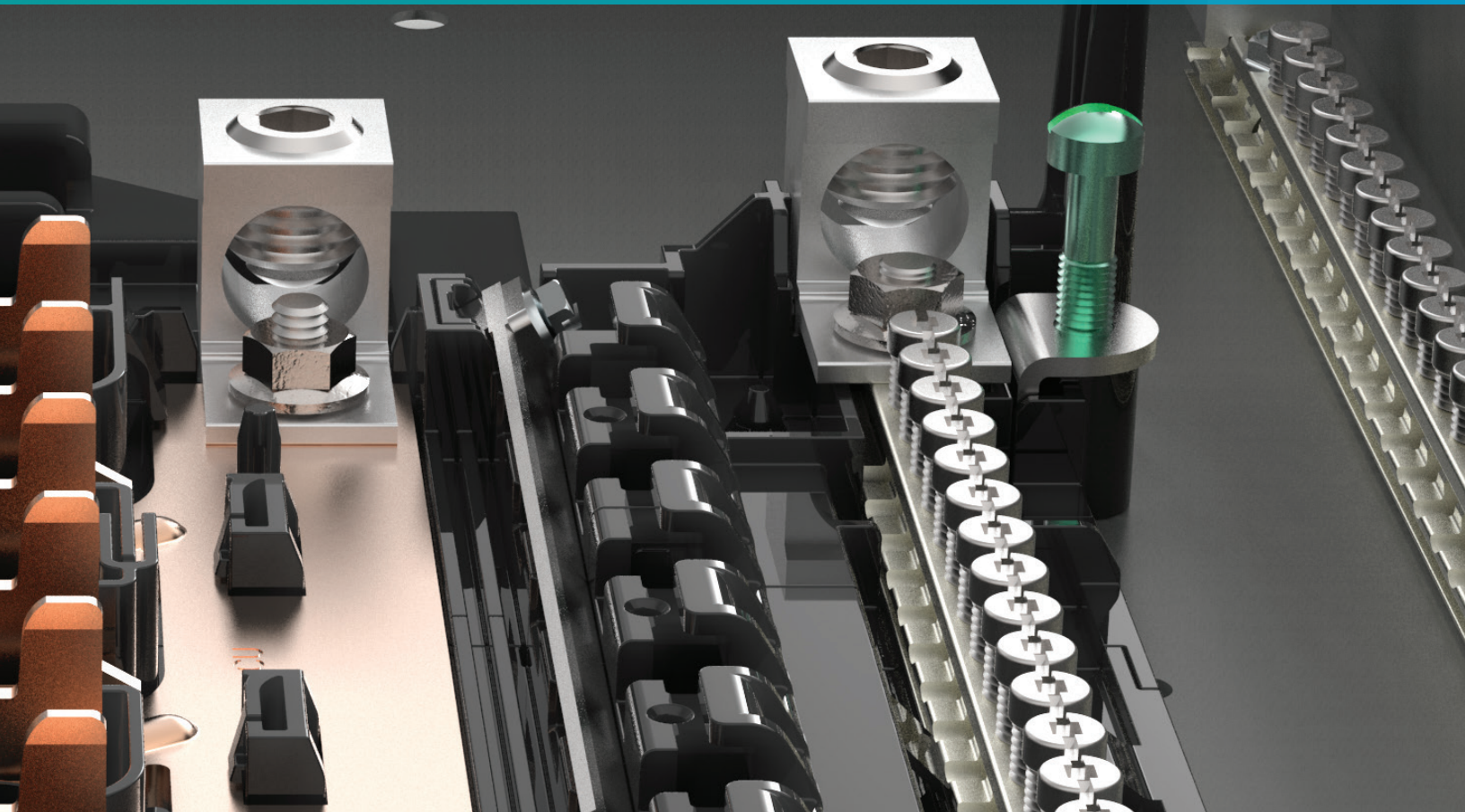
# Simple Spacious Secure

- Quicker breaker installation
- Wiring made easier with the neutral lug removed on CAFCI breakers
- Same great features as PL and ES load centers
- Small electronic breaker footprint
- Design allows for neutral terminal accessibility
- Over 4 inches of wire bending space
- Same reliable installation method
- Neutral clip is the same as line side
- Durable hook-rail

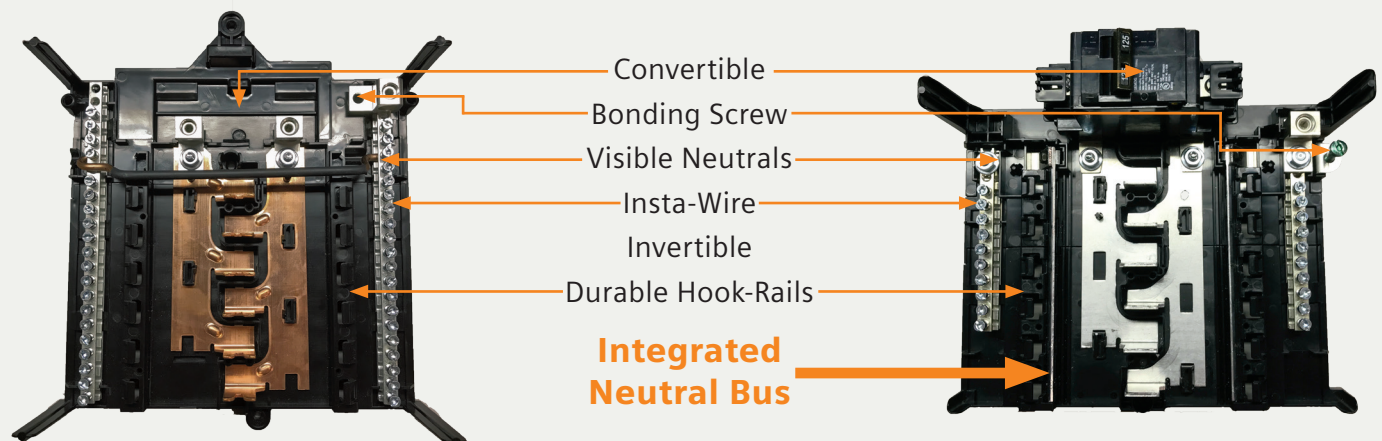
A Siemens Advantage



With an overall smaller electronic breaker footprint, the plug-on neutral load center still gives you over 4" of wire bending space, which allows for a simpler, cleaner, and faster path to a finished project.



The plug-on neutral load center has the same great features of the PL and ES line, plus an integrated neutral bus.<sup>①</sup>



<sup>①</sup> PN panels are convertible and come with two ground bars. SN panels come with one ground bar.

## Plug-on neutral breaker offering:

- 1 and 2-pole AFCI
- 1-pole Dual Function (CAFCI/GFCI)
- 1-pole GFCI

## Features:

- Load Lug(s) only on the CAFCI breakers
- LED indicators for troubleshooting
- Insta-Wire connectors

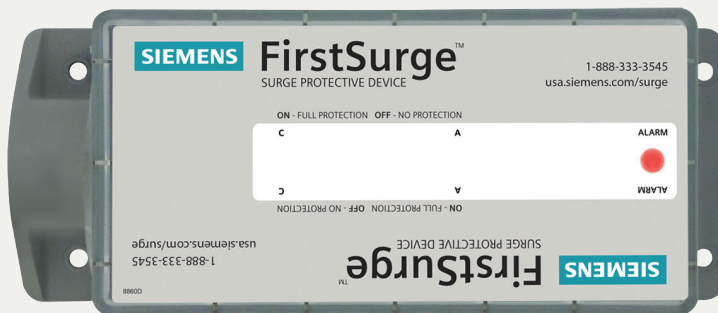
## Technical Data:

- 10,000 AIC
- 120V
- UL Listed
- HACR and SWD rated

| Combination Type AFCI |           |
|-----------------------|-----------|
| 1-pole                | QA115AFCN |
|                       | QA120AFCN |
| 2-pole                | Q215AFCN  |
|                       | Q220AFCN  |
| Dual Function         |           |
| 1-pole                | Q115DFN   |
|                       | Q120DFN   |
| GFCI Class A 5mA      |           |
| 1-pole                | QF115AN   |
|                       | QF120AN   |
|                       | QF130AN   |

Note: Both plug-on neutral and existing pigtail breakers are listed for use in plug-on neutral load centers.

The new plug-on neutral load center is compatible with existing surge solutions including the QSA breaker and FirstSurge™ stand-alone units. Additionally, there are four panels offered with a factory-installed FirstSurge unit.



FirstSurge™  
Surge Protection Device



QSA Circuit Breaker and  
Surge Protection Device





CAFCI



Dual Function

CAFCI breakers now have a single lug only. The branch neutral conductor is returned to the neutral terminal bar. CAFCI breakers can be installed in the same manner as a thermal magnetic (standard) breaker. This allows the installer to land ground and neutral conductors before installing the breaker and power conductor.



Plug-on neutral breakers are designed using the existing line side clip to make the neutral connection. This clip is time tested and offers a secure connection.

# PN Series 1-phase Main Breaker/Convertible Plug-On Neutral Load Centers ⑥

1-phase, 3-wire, 120/240 Volts AC

Main Breaker / Convertible Load Centers ①  
100-225 Amperes

Copper Bus  
60/75°C Rated

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                             | Outdoor Enclosure - NEMA Type 3R |                             |
|------------|---------------|-----------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) ② | Catalog Number                   | Enclosure Height (inches) ③ |
| 100        | 12            | 24              | PN1224B1100C                   | 18                          | PNW1224B1100C                    | 21                          |
| 100        | 16            | 32              | PN1632B1100C                   | 21                          | PNW1632B1100C                    | 23                          |
| 100        | 20            | 20              | PN2020B1100C                   | 21                          | PNW2020B1100C                    | 27                          |
| 100        | 20            | 40              | PN2040B1100C                   | 21                          | —                                | —                           |
| 100        | 24            | 24              | PN2424B1100C                   | 24                          | —                                | —                           |
| 100        | 30            | 30              | PN3030B1100C                   | 26                          | —                                | —                           |
| 100        | 30            | 48              | —                              | —                           | PNW3048B1100C                    | 29                          |
| 125        | 30            | 30              | PN3030B1125C                   | 26                          | —                                | —                           |
| 125        | 30            | 48              | —                              | —                           | PNW3048B1125C                    | 29                          |
| 150        | 8             | 16              | —                              | —                           | PNW0816B1150TC ⑤                 | 23                          |
| 150        | 20            | 40              | PN2040B1150C                   | 24                          | PNW2040B1150C                    | 27                          |
| 150        | 30            | 30              | PN3030B1150C                   | 30                          | —                                | —                           |
| 150        | 30            | 48              | —                              | —                           | PNW3048B1150C                    | 35                          |
| 200        | 8             | 16              | —                              | —                           | PNW0816B1200TC ⑤                 | 23                          |
| 200        | 20            | 40              | PN2040B1200C                   | 26                          | PNW2040B1200C                    | 27                          |
| 200        | 30            | 48              | PN3048B1200 ④                  | 30                          | —                                | —                           |
| 200        | 30            | 48              | PN3048B1200C                   | 30                          | PNW3048B1200C                    | 35                          |
| 200        | 40            | 40              | PN4040B1200 ④                  | 36                          | —                                | —                           |
| 200        | 40            | 40              | PN4040B1200C                   | 36                          | PNW4040B1200C                    | 38                          |
| 200        | 40            | 60              | PN4060B1200 ④                  | 36                          | —                                | —                           |
| 200        | 40            | 60              | PN4060B1200C                   | 36                          | —                                | —                           |
| 200        | 54            | 82              | PN5482B1200C                   | 42                          | —                                | —                           |
| 225        | 42            | 64              | PN4264B1225C                   | 39                          | PNW4264B1225C                    | 38                          |
| 225        | 54            | 82              | PN5482B1225C                   | 43                          | —                                | —                           |

① Factory installed 22KAIC main breaker. Suitable for use as service equipment.

② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

③ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

④ Includes all PN series features with aluminum bus.

⑤ Feed-thru lugs.

⑥ Available (made to order) in white by adding "W" to the end of the catalog number.

# PN Series 1-phase Main Lug/Convertible Plug-On Neutral Load Centers ⑥

1-phase, 3-wire, 120/240 Volts AC

Main Lug / Convertible Load Centers ③  
125-225 Amperes

Copper Bus  
60/75°C Rated

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                             | Outdoor Enclosure - NEMA Type 3R |                             |
|------------|---------------|-----------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) ① | Catalog Number                   | Enclosure Height (inches) ② |
| 125        | 12            | 12              | PN1212L1125C                   | 18                          | PNW1212L1125C                    | 21                          |
| 125        | 12            | 24              | PN1224L1125C                   | 18                          | PNW1224L1125C                    | 21                          |
| 125        | 16            | 32              | PN1632L1125C                   | 21                          | PNW1632L1125C                    | 23                          |
| 125        | 20            | 20              | PN2020L1125C                   | 21                          | —                                | —                           |
| 125        | 20            | 40              | PN2040L1125C                   | 21                          | —                                | —                           |
| 125        | 24            | 48              | PN2448L1125C                   | 24                          | —                                | —                           |
| 125        | 30            | 48              | PN3048L1125C                   | 26                          | PNW3048L1125C                    | 29                          |
| 125        | 40            | 40              | PN4040L1125C                   | 36                          | —                                | —                           |
| 150        | 20            | 40              | PN2040L1150C                   | 24                          | PNW2040L1150C                    | 27                          |
| 200        | 8             | 16              | —                              | —                           | PNW0816L1200TC ⑤                 | 23                          |
| 200        | 12            | 24              | PN1224L1200C                   | 21                          | PNW1224L1200C                    | 23                          |
| 200        | 20            | 40              | PN2040L1200C                   | 26                          | PNW2040L1200C                    | 27                          |
| 200        | 24            | 48              | PN2448L1200C                   | 30                          | —                                | —                           |
| 200        | 30            | 30              | PN3030L1200C                   | 30                          | —                                | —                           |
| 200        | 30            | 48              | PN3048L1200 ④                  | 30                          | —                                | —                           |
| 200        | 30            | 48              | PN3048L1200C                   | 30                          | PNW3048L1200C                    | 35                          |
| 200        | 40            | 40              | PN4040L1200 ④                  | 36                          | —                                | —                           |
| 200        | 40            | 40              | PN4040L1200C                   | 36                          | PNW4040L1200C                    | 38                          |
| 200        | 40            | 60              | PN4060L1200C                   | 36                          | —                                | —                           |
| 225        | 12            | 24              | —                              | —                           | PNW1224L1225C                    | 27                          |
| 225        | 42            | 64              | PN4264L1225C                   | 39                          | PNW4264L1225C                    | 38                          |
| 225        | 54            | 82              | PN5482L1225C                   | 43                          | —                                | —                           |

① Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

② Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

③ 125A load centers will accept MBK100A and MBK125A. 150A load centers will accept MBK150A. 200A load centers will accept MBK200A and MBK150A. 225A load centers will accept MBK225A, MBK200A, MBK150A.

④ Includes all PN series features with aluminum bus.

⑤ Feed-thru lugs.

⑥ Available (made to order) in white by adding "W" to the end of the catalog number.

# SN Series 1-phase Main Breaker Plug-On Neutral Load Centers ⑤

1-phase, 3-wire, 120/240 Volts AC

Main Breaker Load Centers ①  
100-225 Amperes

Aluminum Bus  
60/75°C Rated

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                             | Outdoor Enclosure - NEMA Type 3R |                             |
|------------|---------------|-----------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) ② | Catalog Number                   | Enclosure Height (inches) ③ |
| 100        | 12            | 24              | SN1224B1100                    | 18                          | SNW1224B1100                     | 21                          |
| 100        | 16            | 32              | SN1632B1100                    | 21                          | SNW1632B1100                     | 23                          |
| 100        | 20            | 20              | SN2020B1100                    | 21                          | SNW2020B1100                     | 27                          |
| 100        | 20            | 40              | SN2040B1100                    | 21                          | —                                | —                           |
| 100        | 24            | 48              | SN2448B1100                    | 24                          | —                                | —                           |
| 100        | 30            | 30              | SN3030B1100                    | 26                          | —                                | —                           |
| 100        | 30            | 48              | SN3048B1100                    | 26                          | —                                | —                           |
| 125        | 12            | 24              | —                              | —                           | SNW1224B1125                     | 21                          |
| 125        | 16            | 32              | SN1632B1125                    | 21                          | —                                | —                           |
| 125        | 20            | 40              | —                              | —                           | SNW2040B1125                     | 27                          |
| 125        | 24            | 24              | SN2424B1125                    | 24                          | SNW2424B1125                     | 27                          |
| 125        | 30            | 30              | SN3030B1125                    | 26                          | —                                | —                           |
| 125        | 30            | 48              | SN3048B1125                    | 26                          | SNW3048B1125                     | 29                          |
| 150        | 16            | 32              | SN1632B1150                    | 24                          | —                                | —                           |
| 150        | 20            | 40              | SN2040B1150                    | 24                          | SNW2040B1150                     | 27                          |
| 150        | 24            | 48              | SN2448B1150                    | 26                          | —                                | —                           |
| 150        | 30            | 30              | SN3030B1150                    | 30                          | —                                | —                           |
| 150        | 30            | 48              | SN3048B1150                    | 30                          | SNW3048B1150                     | 35                          |
| 200        | 40            | 40              | —                              | —                           | SNW4040B1150                     | 38                          |
| 200        | 8             | 16              | —                              | —                           | SNW0816B1200T ④                  | 23                          |
| 200        | 12            | 24              | —                              | —                           | SNW1224B1200                     | 23                          |
| 200        | 16            | 32              | SN1632B1200                    | 24                          | —                                | —                           |
| 200        | 20            | 40              | SN2040B1200                    | 26                          | SNW2040B1200                     | 27                          |
| 200        | 24            | 48              | SN2448B1200                    | 30                          | —                                | —                           |
| 200        | 30            | 48              | SN3048B1200                    | 30                          | SNW3048B1200                     | 35                          |
| 200        | 40            | 40              | SN4040B1200                    | 36                          | SNW4040B1200                     | 38                          |
| 200        | 40            | 60              | SN4060B1200                    | 36                          | —                                | —                           |
| 200        | 42            | 64              | SN4264B1200                    | 39                          | —                                | —                           |
| 200        | 54            | 82              | SN5482B1200                    | 42                          | —                                | —                           |
| 225        | 42            | 64              | SN4264B1225                    | 39                          | SNW4264B1225                     | 38                          |
| 225        | 54            | 82              | SN5482B1225                    | 43                          | —                                | —                           |

① Factory installed 22KAIC main breaker. Suitable for use as service equipment.

② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

③ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

④ Feed-thru lugs.

⑤ Available (made to order) in white by adding "W" to the end of the catalog number.



# SN Series 1-phase Main Lug Plug-On Neutral Load Centers ④

1-phase, 3-wire, 120/240 Volts AC

Main Lug Load Centers  
100-225 Amperes

Aluminum Bus  
60/75°C Rated

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                             | Outdoor Enclosure - NEMA Type 3R |                             |
|------------|---------------|-----------------|--------------------------------|-----------------------------|----------------------------------|-----------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) ① | Catalog Number                   | Enclosure Height (inches) ② |
| 125        | 12            | 12              | SN1212L1125                    | 18                          | SNW1212L1125                     | 21                          |
| 125        | 12            | 24              | SN1224L1125                    | 18                          | SNW1224L1125                     | 21                          |
| 125        | 16            | 32              | SN1632L1125                    | 21                          | SNW1632L1125                     | 21                          |
| 125        | 20            | 20              | SN2020L1125                    | 21                          | —                                | —                           |
| 125        | 20            | 40              | SN2040L1125                    | 21                          | SNW2040L1125                     | 23                          |
| 125        | 24            | 24              | SN2424L1125                    | 24                          | SNW2424L1125                     | 27                          |
| 125        | 24            | 48              | SN2448L1125                    | 24                          | —                                | —                           |
| 125        | 30            | 48              | SN3048L1125                    | 26                          | SNW3048L1125                     | 29                          |
| 125        | 40            | 40              | SN4040L1125                    | 30                          | —                                | —                           |
| 150        | 16            | 32              | SN1632L1150                    | 21                          | —                                | —                           |
| 150        | 20            | 40              | SN2040L1150                    | 24                          | SNW2040L1150                     | 27                          |
| 150        | 24            | 48              | SN2448L1150                    | 26                          | —                                | —                           |
| 200        | 8             | 16              | —                              | —                           | SNW0816L1200T ③                  | 23                          |
| 200        | 12            | 24              | SN1224L1200                    | 21                          | SNW1224L1200                     | 21                          |
| 200        | 20            | 40              | SN2040L1200                    | 26                          | SNW2040L1200                     | 27                          |
| 200        | 24            | 48              | SN2448L1200                    | 26                          | —                                | —                           |
| 200        | 30            | 30              | SN3030L1200                    | 30                          | —                                | —                           |
| 200        | 30            | 48              | SN3048L1200                    | 30                          | SNW3048L1200                     | 29                          |
| 200        | 40            | 40              | SN4040L1200                    | 36                          | SNW4040L1200                     | 35                          |
| 225        | 12            | 24              | —                              | —                           | SNW1224L1225                     | 21                          |
| 225        | 40            | 60              | SN4060L1225                    | 36                          | —                                | —                           |
| 225        | 42            | 64              | SN4264L1225                    | 36                          | SNW4264L1225                     | 38                          |
| 225        | 54            | 82              | SN5482L1225                    | 42                          | —                                | —                           |

① Indoor enclosures are 14 1/4" wide by 3 7/8" deep.

② Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.

③ Feed-thru lugs.

④ Available (made to order) in white by adding "W" to the end of the catalog number.

# Specialty Main Lug and Main Breaker Plug-On Neutral Load Centers

1-phase, 3-wire, 120/240 Volts AC

## Factory Installed FirstSurge Load Centers

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                           | Surge Protection |
|------------|---------------|-----------------|--------------------------------|---------------------------|------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) |                  |
| 200        | 30            | 48              | PN3048B1200S14                 | 36                        | 140kA            |
| 200        | 40            | 60              | PN4060B1200S14                 | 42                        | 140kA            |
| 200        | 30            | 48              | SN3048B1200S06                 | 36                        | 60kA             |
| 200        | 40            | 60              | SN4060B1200S06                 | 42                        | 60kA             |

## 500 Kcmil Lug Load Center

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                           |
|------------|---------------|-----------------|--------------------------------|---------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) |
| 200        | 30            | 48              | SN3048L1200L50                 | 36                        |

## Selectable Main Load Centers

| Amp Rating | No. of Spaces | No. of Circuits | Indoor Enclosure - NEMA Type 1 |                           | Outdoor Enclosure - NEMA Type 3R |                           |
|------------|---------------|-----------------|--------------------------------|---------------------------|----------------------------------|---------------------------|
|            |               |                 | Catalog Number                 | Enclosure Height (inches) | Catalog Number                   | Enclosure Height (inches) |
| 125        | 24            | 24              | SN2424C1125                    | 24                        | SNW2424C1125                     | 27                        |
| 200        | 20            | 40              | SN2040C1200                    | 26                        | SNW2040C1200                     | 27                        |
| 200        | 30            | 48              | SN3048C1200                    | 30                        | SNW3048C1200                     | 35                        |
| 200        | 40            | 40              | SN4040C1200                    | 36                        | SNW4040C1200                     | 38                        |

## Notes:

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue lines spaced evenly across the page, typical of standard notebook paper. The lines are thin and light blue, set against a plain white background. There are no margins, text, or other markings on the page.



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