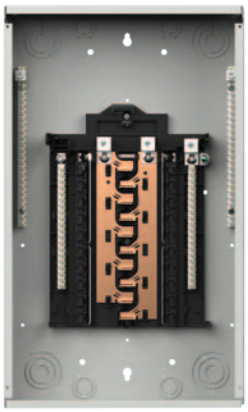
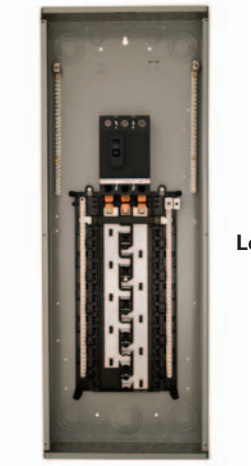
Load Centers & Circuit Breakers



PN Plug-On Neutral Load Center



PL Series Load Center



Generator Ready Load Center

Contents

Load Centers

Catalog Numbering System 1-2
Plug-On Neutral Load Centers 1-3
Electronic Breakers and Surge Protection 1-4
PN Series 1-Phase Plug-On Neutral Load Centers
- Features 1-5
- 1-phase, 3-wire, 120/240 Volts AC Main Breaker/Convertible 1-6
- 1-phase, 3-wire, 120/240 Volts AC Main Lug/Convertible 1-7

SN Series 1-Phase Plug-On Neutral Load Centers
- Features 1-8
- 1-phase, 3-wire, 120/240 Volts AC Main Breaker 1-9
- 1-phase, 3-wire, 120/240 Volts AC Main Lug 1-10
- 1-phase, 3-wire, 120/240 Volts AC Specialty Main Lug and Breakers 1-11

PL and ES Series 3-Phase Load Centers
- Features 1-12
- PL Series Main Lug and Main Breakers 1-13
- PL Series Unassembled Load Centers 1-14
- ES Series Main Lug and Main Breakers 1-15

EQ® Load Centers, 300-400 Amp 1-16
Generator Ready Load Centers 1-17
Riser Panel Load Centers 1-18
EQ® Load Centers, Small Circuit and Circuit Breaker Enclosures 1-19 – 1-20
Renovation Interiors 1-21
Load Center Accessories 1-22 – 1-25
Knockout Diagrams 1-26 – 1-30
Load Center Cross Reference 1-31 – 1-39

Circuit Breakers

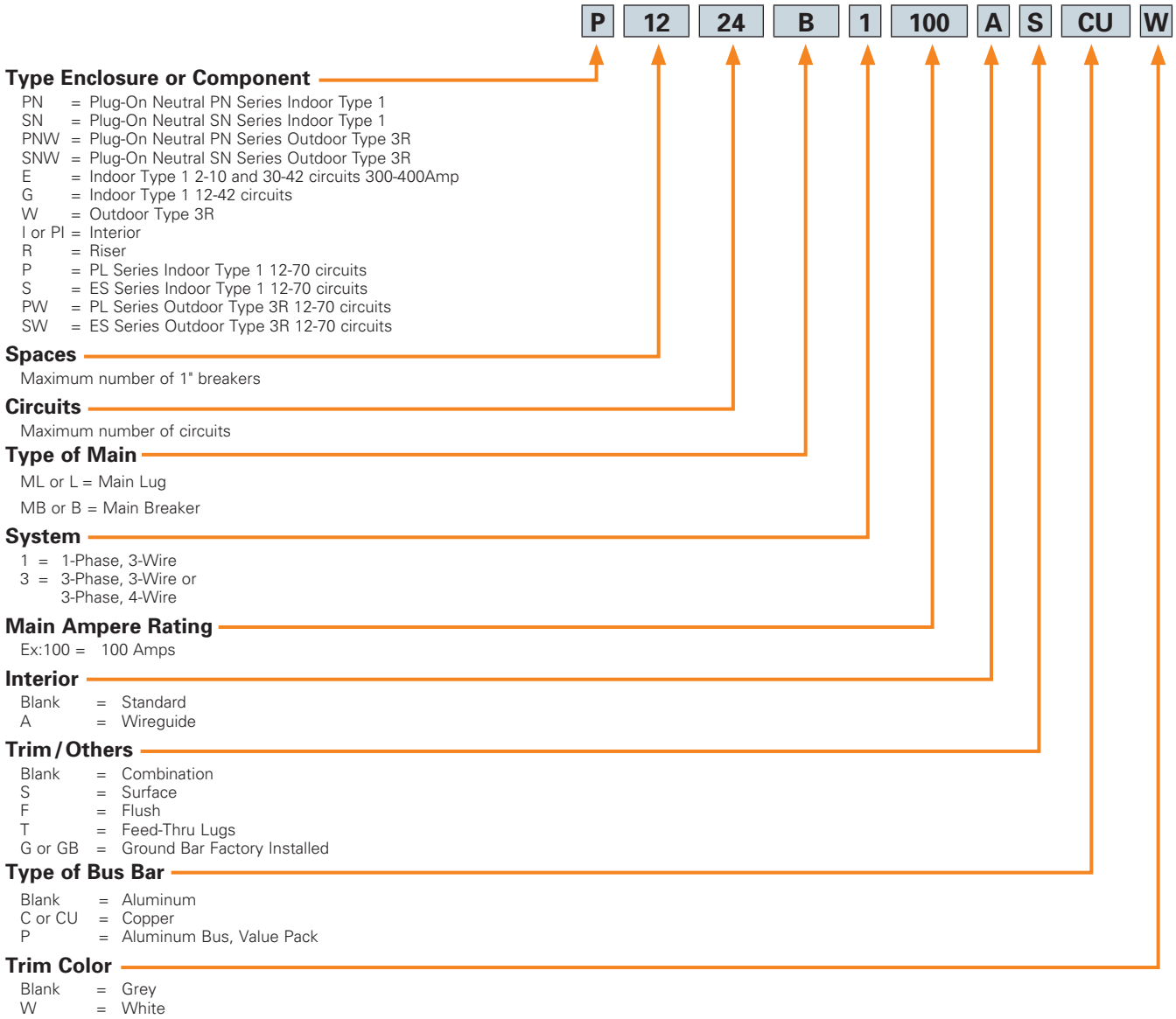
Arc-Fault and Ground-Fault Breakers 1-40
Type QP, 1" Breakers 1-41
Duplex, Triplex and Quadplex Plug-In Breakers 1-42
Special Application Breakers 1-43
Type QD, 3/4" Breakers 1-44
Main and Branch Circuit Breakers 1-45
Circuit Breaker Dimension Drawings and Lug Data 1-46 – 1-47
Circuit Breaker Accessories 1-48 – 1-49

Surge Protection Products 1-50 – 1-52

AC Disconnects, 1-Phase, NEMA 3R Rated 1-53

Scan to connect online to the most up-to-date version of this Section of SPEEDFAX.

Catalog Numbering System



Type Enclosure or Component

PN = Plug-On Neutral PN Series Indoor Type 1
SN = Plug-On Neutral SN Series Indoor Type 1
PNW = Plug-On Neutral PN Series Outdoor Type 3R
SNW = Plug-On Neutral SN Series Outdoor Type 3R
E = Indoor Type 1 2-10 and 30-42 circuits 300-400Amp
G = Indoor Type 1 12-42 circuits
W = Outdoor Type 3R
I or PI = Interior
R = Riser
P = PL Series Indoor Type 1 12-70 circuits
S = ES Series Indoor Type 1 12-70 circuits
PW = PL Series Outdoor Type 3R 12-70 circuits
SW = ES Series Outdoor Type 3R 12-70 circuits

Spaces

Maximum number of 1" breakers

Circuits

Maximum number of circuits

Type of Main

ML or L = Main Lug

MB or B = Main Breaker

System

1 = 1-Phase, 3-Wire
3 = 3-Phase, 3-Wire or 3-Phase, 4-Wire

Main Ampere Rating

Ex:100 = 100 Amps

Interior

Blank = Standard
A = Wireguide

Trim / Others

Blank = Combination
S = Surface
F = Flush
T = Feed-Thru Lugs
G or GB = Ground Bar Factory Installed

Type of Bus Bar

Blank = Aluminum
C or CU = Copper
P = Aluminum Bus, Value Pack

Trim Color

Blank = Grey
W = White

Products Shown In Sections 1 of this Speedfax Meet or Exceed the Following Standards.

- UL50 — Electric Cabinets and Boxes
- UL67 — Electric Panelboards
- UL486 — Wire Connectors
- UL489 — Molded-Case Circuit Breakers
- UL869 — Service Equipment
- UL943 — Ground Fault interrupters (Class A — Personnel Protection)
- Federal Specification W-P-115b — Panel Power Distribution
- Federal Specification W-C-375B — Circuit Breakers
- NEC
- NEMA 250

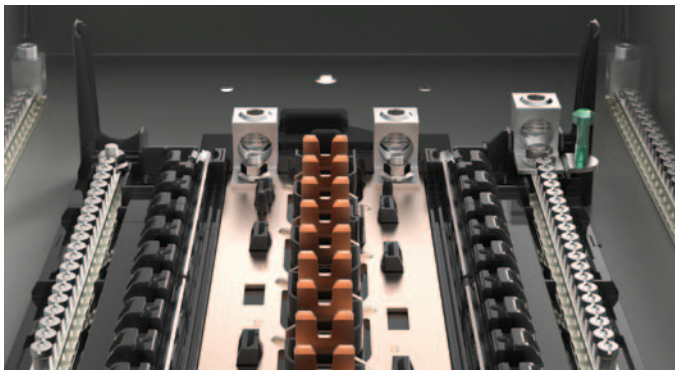
Underwriters' Laboratories, Inc. Reference File Numbers:

- Series Connected Circuit Breaker Information is recognized by UL under file #E10848(N)
- Load Centers Listed by UL under file #E10703
- Load Centers UL recognized components found under file #E10703, Volume 6 and 7. (Also referenced under the recognized components directory — section QEUY2)
- EQ Circuit Breakers are Listed by UL under file #E82615

Plug-On Neutral Load Centers

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.

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.



Simple

- Quicker breaker installation
- Wiring made easier with the neutral lug removed on CAFCI breakers
- Same great features as PL and ES load centers

Spacious

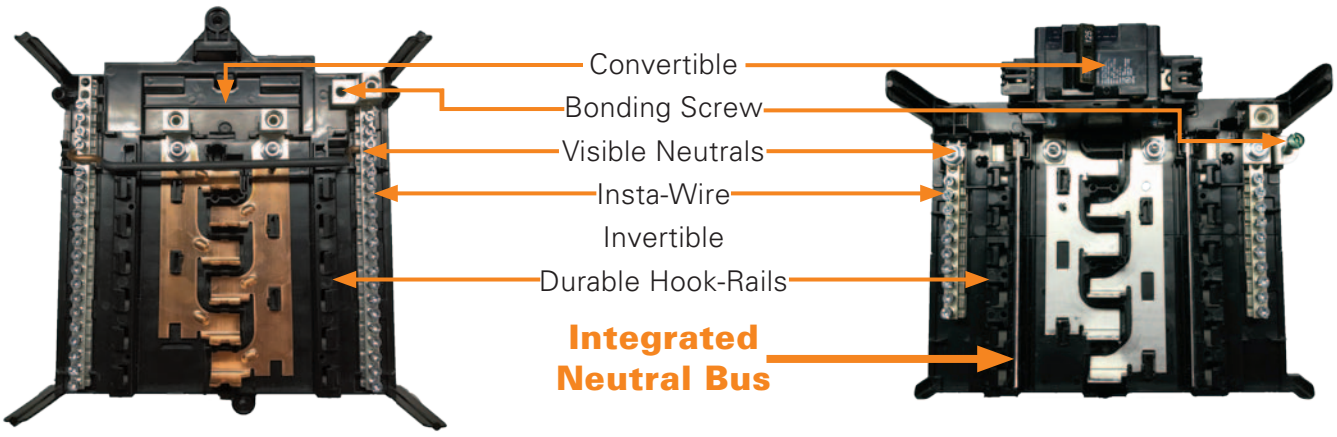
- Small electronic breaker footprint
- Design allows for neutral terminal accessibility
- Over 4 inches of wire bending space

Secure

- Same reliable installation method
- Neutral clip is the same as line side
- Durable hook-rail

A Siemens Advantage

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



① PN panels are convertible and come with two ground bars. SN panels come with one ground bar.

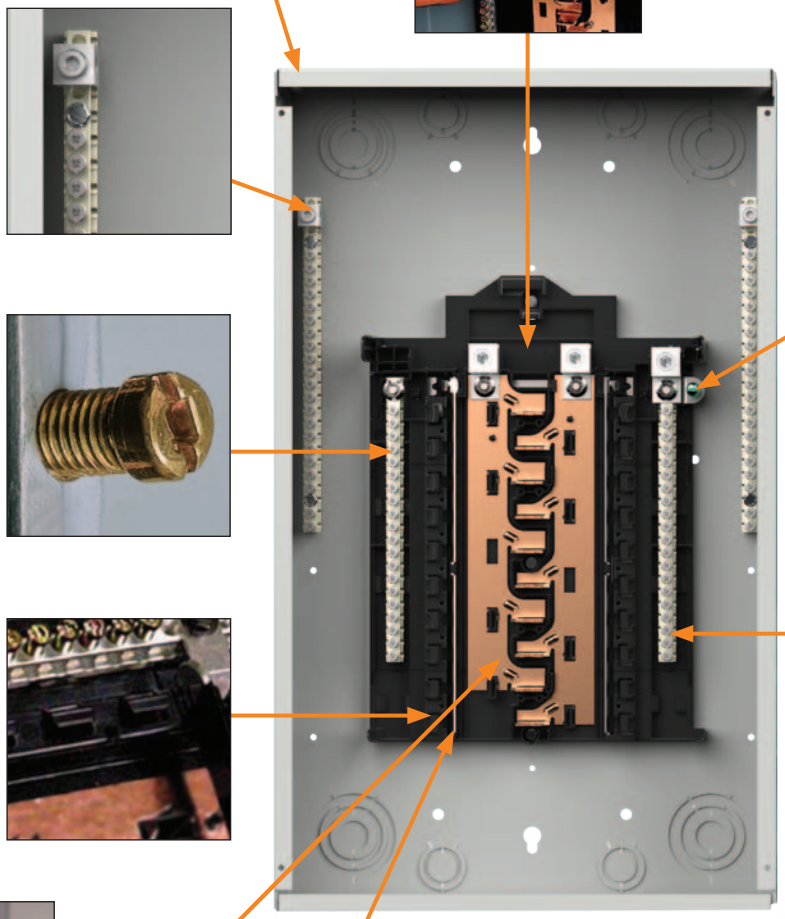
PN Series 1-Phase Plug-On Neutral Load Centers

Features

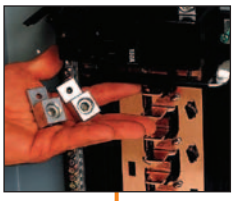
- Convertible
- Invertible
- Bonding Screw
- Visible Neutrals
- Insta-Wire
- Durable Hook-Rails
- Integrated Neutral Bus
- Extended Lifetime Warranty

- Sku's with C suffix that are 150A and above are tin plated copper bus
- Tin plated copper bus stamped with CU to indicate copper
- 100% Neutral & Ground positions based on number of circuits

- Can use twin AFCI breakers in all PN & SN Series load centers
- Easy to install neutral kits. Click here for the PN & SN Accessory and Replacement Parts Guide.
- Click here for Siemens Warranty Information.

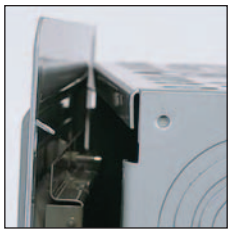


Invertible for bottom feed application.①



All devices convertible from main lug to main breaker and vice versa.

All devices are provided with 2 factory installed ground bars.



Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.

Combination head screw on the neutrals, ground, trim, upper pan, and bond screw provide installation flexibility.



The pre-positioned bond screw eliminates bond strap/screw assemblies, and reduces the risk of losing components in the field.

A rigid, sturdy base pan provides the ruggedness required for the most harsh applications.

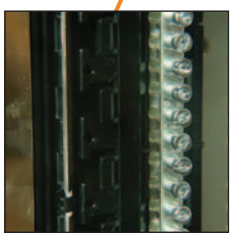


The patented INSTA-WIRE™ neutral/ground system allows for faster installation because screws are backed out, ready for wire insertion. The visible neutral and grounds system aids in the insertion of conductors.



The outdoor enclosure has a slide hinge door for the easiest installation and can be removed by backing out only one screw.

Copper Bus②



All devices come with an integrated neutral bus.

1-Phase PN Series Plug-On Neutral Load Centers ship with trims packaged separately.



① Applies only to NEMA 1 PN and SN plug-on neutral load centers.
② PN SKUs that have a C suffix have copper bus.

PN Series 1-Phase Plug-On Neutral Load Centers

1-phase, 3-wire, 120/240 Volts AC Main Lug/Convertible

Main Lug/Convertible Load Centers③
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 Number⑥	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	—	—	**PNW0816L1200TC⑤**	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	**PN3048L1200④**	30	—	—
200	30	48	**PN3048L1200C**	30	**PNW3048L1200C**	35
200	40	40	**PN4040L1200④**	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.

Cross Reference

Phase	Enclosure	Legacy Catalog Number	New Catalog Number	Main	Amperage	Bus
1	Indoor	**LC1224B1100**	**SN1224B1100**	Main Breaker	100	Aluminum
1	Indoor	**LC1224L1125**	**SN1224L1125**	Main Lug	125	Aluminum
1	Indoor	**LC1224L1125P**	**SN2020B1100P1**	Main Lug	125	Aluminum
1	Indoor	**LC1224L1125W**	**SN1224L1125W**	Main Lug	125	Aluminum
1	Indoor	**LC1632B1150**	**SN1632B1150**	Main Breaker	150	Aluminum
1	Indoor	**LC1632B1200**	**SN1632B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC1632L1125**	**SN1632L1125**	Main Lug	125	Aluminum
1	Indoor	**LC1632L1125W**	**SN1632L1125W**	Main Lug	125	Aluminum
1	Indoor	**LC1632L1150**	**SN1632L1150**	Main Lug	150	Aluminum
1	Indoor	**LC2040B1100**	**SN2040B1100**	Main Breaker	100	Aluminum
1	Indoor	**LC2040B1100CU**	**PN2040B1100C**	Main Breaker	100	Copper
1	Indoor	**LC2040B1100P**	**SN2020B1100P1**	Main Breaker	100	Aluminum
1	Indoor	**LC2040B1150**	**SN2040B1150**	Main Breaker	150	Aluminum
1	Indoor	**LC2040B1200**	**SN2040B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC2040B1200CU**	**PN2040B1200C**	Main Breaker	200	Copper
1	Indoor	**LC2040B1200P**	**SN3048B1200P1**	Main Breaker	200	Aluminum
1	Indoor	**LC2040L1125**	**SN2040L1125**	Main Lug	125	Aluminum
1	Indoor	**LC2040L1125CU**	**PN2040L1125C**	Main Lug	125	Copper
1	Indoor	**LC2040L1200**	**SN2040L1200**	Main Lug	200	Aluminum
1	Indoor	**LC2040L1200CU**	**PN2040L1200C**	Main Lug	200	Copper
1	Indoor	**LC2440B1100**	**SN2448B1100**	Main Breaker	100	Aluminum
1	Indoor	**LC2440B1150**	**SN2448B1150**	Main Breaker	150	Aluminum
1	Indoor	**LC2440B1200**	**SN2448B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC2440L1150**	**SN2448L1150**	Main Lug	150	Aluminum
1	Indoor	**LC2440L1200**	**SN2448L1200**	Main Lug	200	Aluminum
1	Indoor	**LC2448B1100**	**SN2448B1100**	Main Breaker	100	Aluminum
1	Indoor	**LC2448B1100P**	**SN2020B1100P1**	Main Breaker	100	Aluminum
1	Indoor	**LC3040B1100**	**SN3048B1100**	Main Breaker	100	Aluminum
1	Indoor	**LC3040B1100W**	**SN3048B1100W**	Main Breaker	100	Aluminum
1	Indoor	**LC3040B1150**	**SN3048B1150**	Main Breaker	150	Aluminum
1	Indoor	**LC3040B1200**	**SN3048B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC3040B1200CU**	**PN3048B1200C**	Main Breaker	200	Copper
1	Indoor	**LC3040B1200P**	**SN3048B1200P1**	Main Breaker	200	Aluminum
1	Indoor	**LC3040L1125**	**SN3048L1125**	Main Lug	125	Aluminum
1	Indoor	**LC3040L1200**	**SN3048L1200**	Main Lug	200	Aluminum
1	Indoor	**LC3040L1200CU**	**PN3048L1200C**	Main Lug	200	Copper
1	Indoor	**LC3054B1200**	**SN3048B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC3060B1200P**	**SN3048B1200P1**	Main Breaker	200	Aluminum
1	Indoor	**LC4040B1200**	**SN4040B1200**	Main Breaker	200	Aluminum
1	Indoor	**LC4040B1200CU**	**PN4040B1200C**	Main Breaker	200	Copper
1	Indoor	**LC4040B1200P**	**SN4040B1200P1**	Main Breaker	200	Aluminum
1	Indoor	**LC4040L1200**	**SN4040L1200**	Main Lug	200	Aluminum

Cross Reference

Phase	Enclosure	Legacy Catalog Number	New Catalog Number	Main	Amperage	Bus
1	Indoor	**P2040B1100ACUW**	**PN2040B1100CW**	Main Breaker	100	Copper
1	Indoor	**P2040B1150ACU**	**PN2040B1150C**	Main Breaker	150	Copper
1	Indoor	**P2040B1150ACUW**	**PN2040B1150CW**	Main Breaker	150	Copper
1	Indoor	**P2040B1200ACU**	**PN2040B1200C**	Main Breaker	200	Copper
1	Indoor	**P2040B1200ACUW**	**PN2040B1200CW**	Main Breaker	200	Copper
1	Indoor	**P2040B1200CU**	**PN2040B1200C**	Main Breaker	200	Copper
1	Indoor	**P2040L1125ACU**	**PN2040L1125C**	Main Lug	125	Copper
1	Indoor	**P2040L1125ACUW**	**PN2040L1125CW**	Main Lug	125	Copper
1	Indoor	**P2040L1150ACU**	**PN2040L1150C**	Main Lug	150	Copper
1	Indoor	**P2040L1150ACUW**	**PN2040L1150CW**	Main Lug	150	Copper
1	Indoor	**P2040L1200ACU**	**PN2040L1200C**	Main Lug	200	Copper
1	Indoor	**P2040L1200ACUW**	**PN2040L1200CW**	Main Lug	200	Copper
1	Indoor	**P2040L1200CU**	**PN2040L1200C**	Main Lug	200	Copper
1	Indoor	**P2424B1100CU**	**PN2424B1100C**	Main Breaker	100	Copper
1	Indoor	**P2430L1125CUSG**	**PN2448L1125C**	Main Lug	125	Copper
1	Indoor	**P2440L1125CU**	**PN2448L1125C**	Main Lug	125	Copper
1	Indoor	**P2440L1125CUW**	**PN2448L1125CW**	Main Lug	125	Copper
1	Indoor	**P2440L1200CU**	**PN2448L1200C**	Main Lug	200	Copper
1	Indoor	**P2448B1100ACU**	**PN2424B1100C**	Main Breaker	100	Copper
1	Indoor	**P2448B1100ACUW**	**PN2424B1100CW**	Main Breaker	100	Copper
1	Indoor	**P2448L1125ACU**	**PN2448L1125C**	Main Lug	125	Copper
1	Indoor	**P2448L1125ACUW**	**PN2448L1125CW**	Main Lug	125	Copper
1	Indoor	**P2448L1200ACU**	**PN2448L1200C**	Main Lug	200	Copper
1	Indoor	**P2448L1200ACUW**	**PN2448L1200CW**	Main Lug	200	Copper
1	Indoor	**P3030B1100CU**	**PN3030B1100C**	Main Breaker	100	Copper
1	Indoor	**P3030B1125CU**	**PN3030B1125C**	Main Breaker	125	Copper
1	Indoor	**P3030B1125CUW**	**PN3030B1125CW**	Main Breaker	125	Copper
1	Indoor	**P3030B1150CU**	**PN3030B1150C**	Main Breaker	150	Copper
1	Indoor	**P3030L1200CU**	**PN3030L1200C**	Main Lug	200	Copper
1	Indoor	**P3040B1200**	**PN3048B1200**	Main Breaker	200	Aluminum
1	Indoor	**P3040B1200CU**	**PN3048B1200C**	Main Breaker	200	Copper
1	Indoor	**P3040B1200W**	**PN3048B1200W**	Main Breaker	200	Aluminum
1	Indoor	**P3040L1125CU**	**PN3048L1125C**	Main Lug	125	Copper
1	Indoor	**P3040L1125CUW**	**PN3048L1125CW**	Main Lug	125	Copper
1	Indoor	**P3040L1200**	**PN3048L1200**	Main Lug	200	Aluminum
1	Indoor	**P3040L1200CU**	**PN3048L1200C**	Main Lug	200	Copper
1	Indoor	**P3040L1200CUSG**	**PN3048L1200C**	Main Lug	200	Copper
1	Indoor	**P3040L1200CUW**	**PN3048L1200CW**	Main Lug	200	Copper
1	Indoor	**P3040L1200SG**	**PN3048L1200**	Main Lug	200	Aluminum
1	Indoor	**P3040L1200W**	**PN3048L1200W**	Main Lug	200	Aluminum
1	Indoor	**P3042B1125CUSP**	**PN3030B1125C**	Main Breaker	125	Copper
1	Indoor	**P3054B1200S140**	**PN3048B1200S14**	Main Breaker	200	Copper

Load Centers

Cross Reference

Phase	Enclosure	Legacy Catalog Number	New Catalog Number	Main	Amperage	Bus
1	Indoor	**P3054L1200CU**	**PN3048L1200C**	Main Lug	200	Copper
1	Indoor	**P3060B1100ACU**	**PN3030B1100C**	Main Breaker	100	Copper
1	Indoor	**P3060B1100ACUW**	**PN3030B1100CW**	Main Breaker	100	Copper
1	Indoor	**P3060B1125ACU**	**PN3030B1125C**	Main Breaker	125	Copper
1	Indoor	**P3060B1125ACUW**	**PN3030B1125CW**	Main Breaker	125	Copper
1	Indoor	**P3060B1150ACU**	**PN3030B1150C**	Main Breaker	150	Copper
1	Indoor	**P3060B1150ACUW**	**PN3030B1150CW**	Main Breaker	150	Copper
1	Indoor	**P3060B1200A**	**PN3048B1200**	Main Breaker	200	Aluminum
1	Indoor	**P3060B1200ACU**	**PN3048B1200C**	Main Breaker	200	Copper
1	Indoor	**P3060B1200ACUW**	**PN3048B1200CW**	Main Breaker	200	Copper
1	Indoor	**P3060B1200AW**	**PN3048B1200W**	Main Breaker	200	Aluminum
1	Indoor	**P3060L1125ACU**	**PN3048L1125C**	Main Lug	125	Copper
1	Indoor	**P3060L1125ACUW**	**PN3048L1125CW**	Main Lug	125	Copper
1	Indoor	**P3060L1200A**	**PN3048L1200**	Main Lug	200	Aluminum
1	Indoor	**P3060L1200ACU**	**PN3048L1200C**	Main Lug	200	Copper
1	Indoor	**P3060L1200ACUW**	**PN3048L1200CW**	Main Lug	200	Copper
1	Indoor	**P3060L1200AW**	**PN3048L1200W**	Main Lug	200	Aluminum
1	Indoor	**P4040B1200**	**PN4040B1200**	Main Breaker	200	Aluminum
1	Indoor	**P4040B1200CU**	**PN4040B1200C**	Main Breaker	200	Copper
1	Indoor	**P4040B1200CUSG**	**PN4040B1200C**	Main Breaker	200	Copper
1	Indoor	**P4040B1200CUW**	**PN4040B1200CW**	Main Breaker	200	Copper
1	Indoor	**P4040B1200W**	**PN4040B1200W**	Main Breaker	200	Aluminum
1	Indoor	**P4040L1125CU**	**PN4040L1125C**	Main Lug	125	Copper
1	Indoor	**P4040L1125CUW**	**PN4040L1125CW**	Main Lug	125	Copper
1	Indoor	**P4040L1200**	**PN4040L1200**	Main Lug	200	Aluminum
1	Indoor	**P4040L1200CU**	**PN4040L1200C**	Main Lug	200	Copper
1	Indoor	**P4040L1200CUSG**	**PN4040L1200C**	Main Lug	200	Copper
1	Indoor	**P4040L1200CUW**	**PN4040L1200CW**	Main Lug	200	Copper
1	Indoor	**P4040L1200SG**	**PN4040L1200**	Main Lug	200	Aluminum
1	Indoor	**P4060B1200S140**	**PN4060B1200S14**	Main Breaker	200	Copper
1	Indoor	**P4080B1200A**	**PN4060B1200**	Main Breaker	200	Aluminum
1	Indoor	**P4080B1200ACU**	**PN4060B1200C**	Main Breaker	200	Copper
1	Indoor	**P4080B1200ACUW**	**PN4060B1200CW**	Main Breaker	200	Copper
1	Indoor	**P4080B1200AW**	**PN4060B1200W**	Main Breaker	200	Aluminum
1	Indoor	**P4080L1125ACU**	**PN4040L1125C**	Main Lug	125	Copper
1	Indoor	**P4080L1125ACUW**	**PN4040L1125CW**	Main Lug	125	Copper
1	Indoor	**P4080L1200A**	**PN4040L1200**	Main Lug	200	Aluminum
1	Indoor	**P4080L1200ACU**	**PN4060L1200C**	Main Lug	200	Copper
1	Indoor	**P4080L1200ACUW**	**PN4060L1200CW**	Main Lug	200	Copper
1	Indoor	**P4080L1200AW**	**PN4040L1200W**	Main Lug	200	Aluminum
1	Indoor	**P4260B1225CU**	**PN4264B1225C**	Main Breaker	225	Copper
1	Indoor	**P4260B1225CUW**	**PN4264B1225CW**	Main Breaker	225	Copper