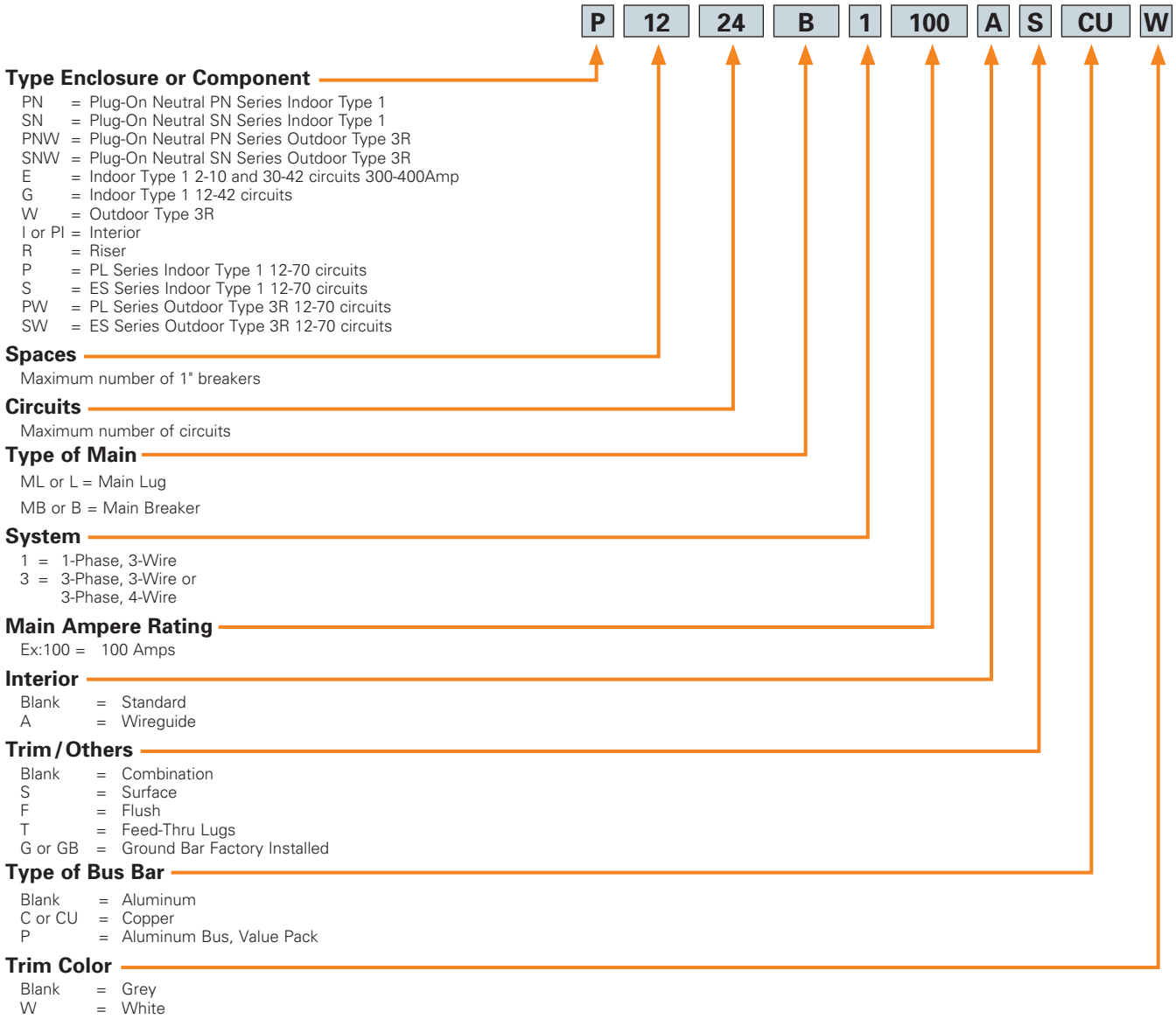
Catalog Numbering System



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

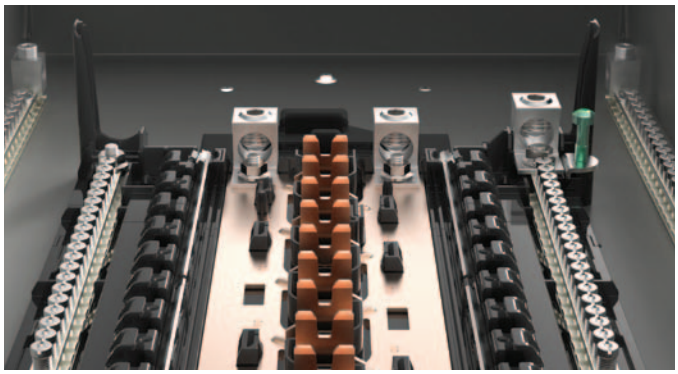
Underwriters' Laboratories, Inc. Reference File Numbers:

- 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

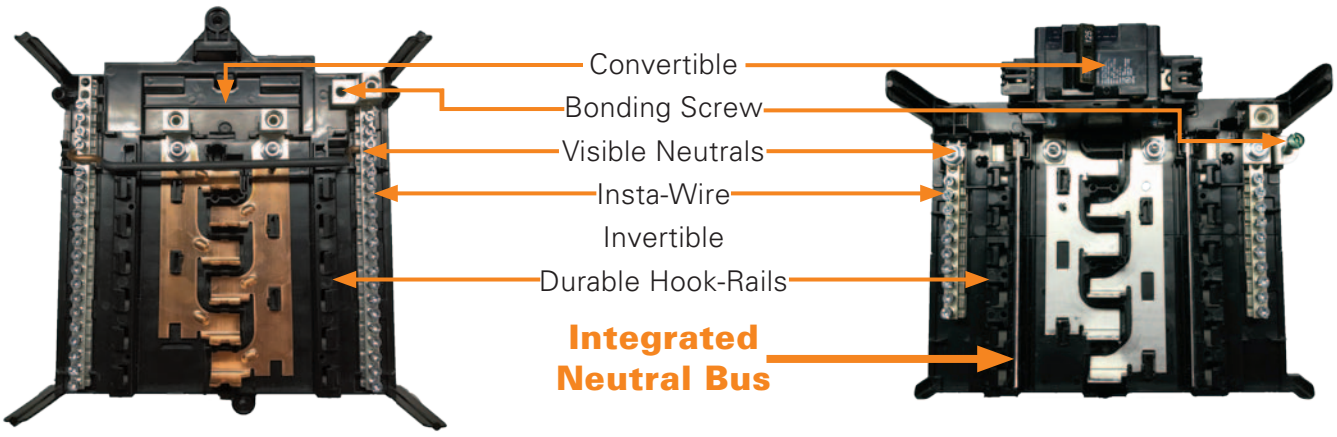
- Small electronic breaker footprint
- Design allows for neutral terminal accessibility
- Over 4 inches of wire bending space

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.

Electronic Breakers and Surge Protection

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.

For more information on the Surge Protection product line, see Section 10 and Section 7 Page 7-28 of the Speedfax at usa.siemens.com/speedfax.



FirstSurge™
Surge Protection Device



QSA Circuit Breaker and
Surge Protection Device



1-Pole
Combination Type AFCI



2-Pole
Combination Type AFCI



1-Pole
Dual Function



1-Pole
GFCI

Plug-on neutral breaker offering:

- 1 and 2-pole CAFCI
- 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

	Breaker Type	Ampere Rating	10,000 A IR Catalog No.
AFCI	QAF2N Plug-on Neutral 1-Pole 120V AC	15	QA115AFCN
		20	QA120AFCN
	QAF2N Plug-on Neutral 2-Pole 120/240V AC	15	Q215AFCN
		20	Q220AFCN
Dual Function	QFGA2N Plug-on Neutral 1-Pole 120V AC	15	Q115DFN
		20	Q120DFN
GFCI (5mA)	QPF2N Plug-on Neutral 1-Pole 120V AC	15	QF115AN
		20	QF120AN
		30	QF130AN

Note: Both plug-on neutral and existing pigtail breakers are listed for use in plug-on neutral load centers. For information on the complete product line, go to page 25.

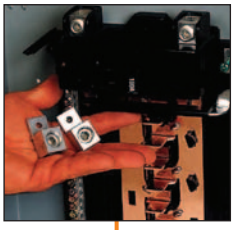
PN Series 1-Phase Plug-On Neutral Load Centers

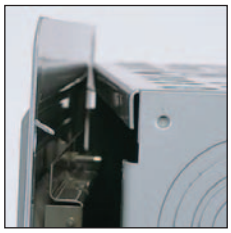
Features

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

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

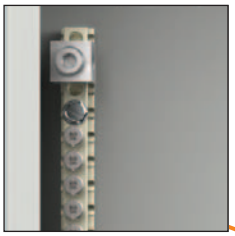
Invertible for bottom feed application.①

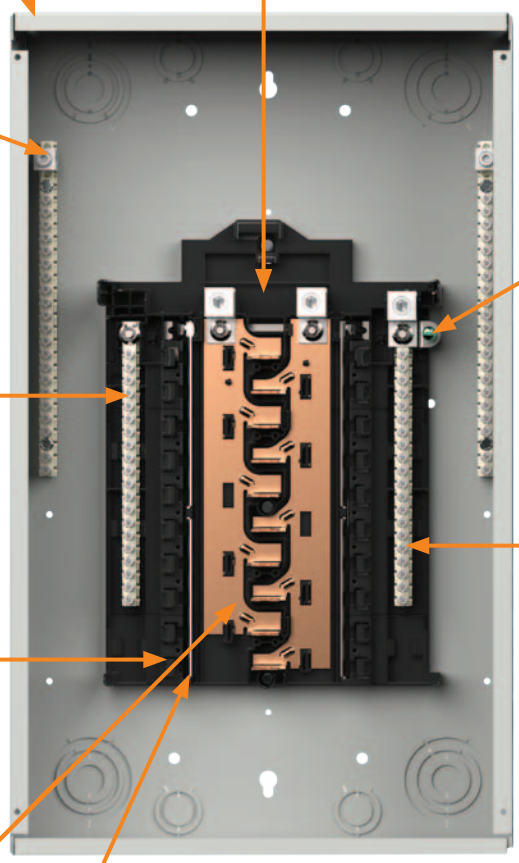




Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.

All devices are provided with 2 factory installed ground bars.



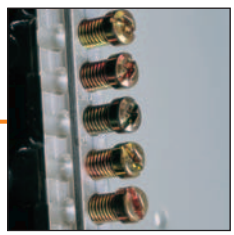




The pre-positioned bond screw eliminates bond strap/screw assemblies, and reduces the risk of losing components in the field.

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





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.

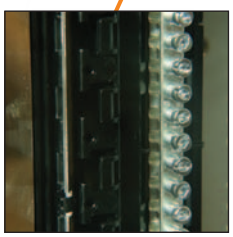
A rigid, sturdy base pan provides the ruggedness required for the most harsh applications.





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.

PL and ES Series 3-Phase Load Centers

PL Series:

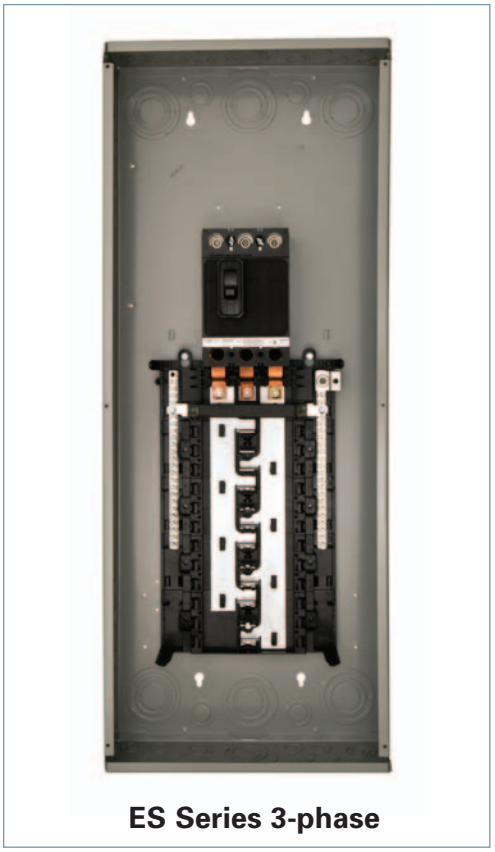
- Convertible
- Invertible
- Flush or Surface Mount Combination Cover
- Insta-wire neutrals & grounds
- Ground bars included
- Copper busbars
- Dual neutrals on all configurations
- Carton-in-carton packaging
- Lifetime warranty



PL Series 3-phase

ES Series:

- Invertible
- Flush or Surface Mount Combination Cover
- Insta-wire neutrals & grounds
- Aluminum busbars
- Single sided neutral on 24 circuits and below
- Single piece carton packaging
- 10 year warranty



ES Series 3-phase

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