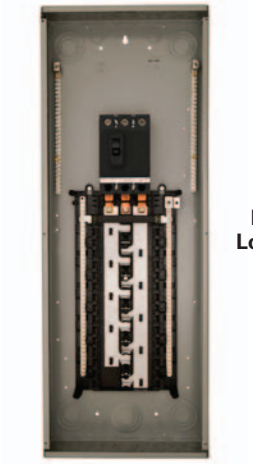
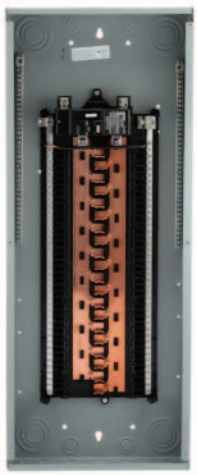


PL Series Load Center

Generator Ready Load Center



WireGuide Load Center

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

Contents

Load Centers

Catalog Numbering System	1-2
Siemens PL and ES Series Load Centers™ Introduction	1-3
WireGuide™ Load Centers and Breakers	1-3
PL Series Load Centers Features and Product Offering	1-4 – 1-5
PL Series Single Phase Main Lug & Main Breaker Load Centers	1-6
PL Series Single Phase Special Load Centers	1-7
PL Series Three Phase Main Lug & Main Breaker Load Centers	1-8
PL Series Three Phase Unassembled Load Centers	1-9
ES Series Load Centers Features and Product Offering	1-10 – 1-11
ES Series Single Phase Main Lug & Main Breaker Load Centers	1-12
ES Series Single Phase Special Load Centers	1-14
ES Series Three Phase Main Lug & Main Breaker Load Centers	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
Load Centers OEM Interiors and Accessories	1-21 – 1-24
Standby Power Systems	1-25 – 1-26
Knockout Diagrams	1-27 – 1-31
Load Center Cross Reference	1-32 – 1-33

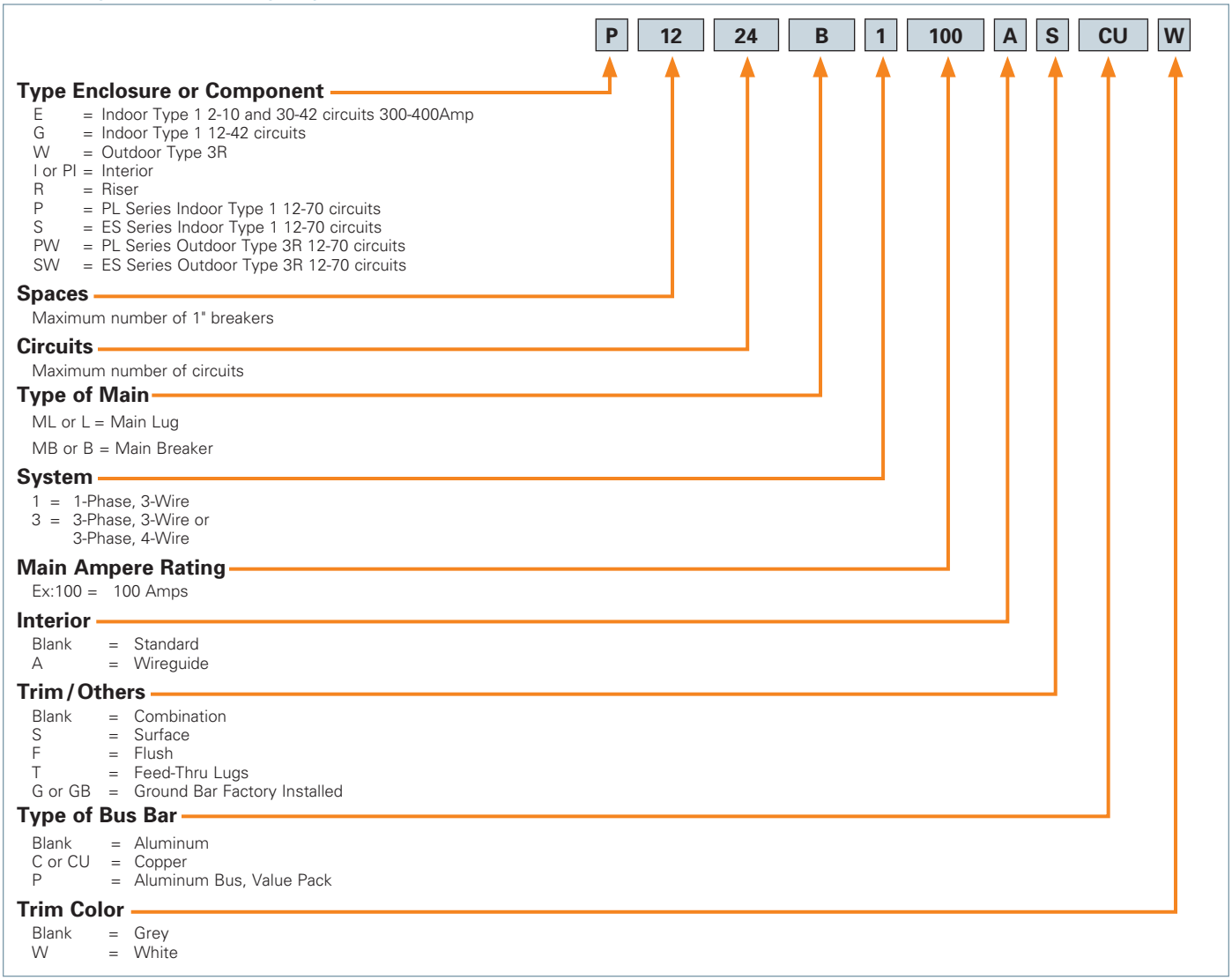
Circuit Breakers

Arc-Fault and Ground-Fault Breakers	1-34
Dual Arc-Fault and Ground-Fault Breakers	1-35
Type QP, 1" Breakers	1-36
Duplex, Triplex and Quadplex Plug-In Breakers	1-37
Special Application Breakers	1-38
Type QD, 3/4" Breakers	1-39
Main and Branch Circuit Breakers	1-40
Circuit Breaker Dimension Drawings and Lug Data	1-41 – 1-42
Circuit Breaker Accessories	1-43 – 1-44

Surge Protection Products 1-45 – 1-47

AC Disconnects, 1-Phase, NEMA 3R Rated 1-48

Catalog Numbering System



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

Load Centers

Siemens PL and ES Series Load Centers™ Overview

PL Series:

- Convertible
- Invertible①
- Insta-wire neutrals & grounds
- Ground bars included
- Copper busbars
- Dual neutrals on all configurations
- Carton-in-carton packaging
- Lifetime warranty

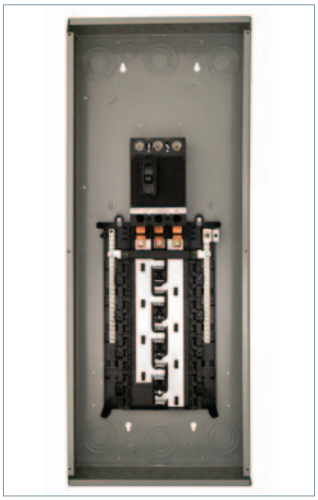
ES Series:

- Invertible①
- Insta-wire neutrals & grounds
- Aluminum busbars
- Single sided neutral on 24 circuits and below
- Single piece carton packaging
- 10 year warranty

PL Series 1-phase

PL Series 3-phase

ES Series 1-phase



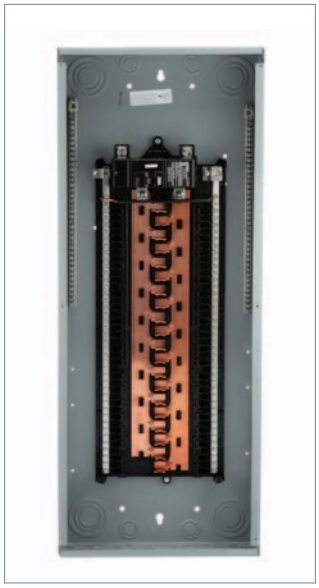
ES Series 3-phase

NEW WireGuide™ Load Centers and Breakers

WireGuide load centers accept new AFCIs with shortened neutral wires that slide directly into the neutral bar.

Features

- Over 4 inches of breaker wire bending space
- 11 SKUs each available in both grey and white①
- Pre-trimmed and ready to install neutral wires have an "Oops Loop" if extra wire is needed
- Full length neutral bars
- Decreased installation time
- WireGuide breakers available by adding "WG" suffix to existing catalog numbers. See page 1-34 for more details.



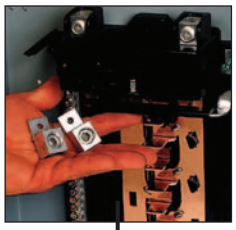
WireGuide Load Centers

Combination Type AFCI WireGuide Breaker

① Applies only to NEMA 1 ES and PL Load Centers

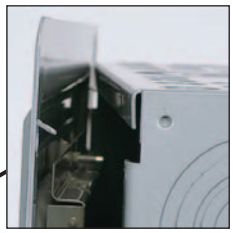
PL Series Load Centers

Features



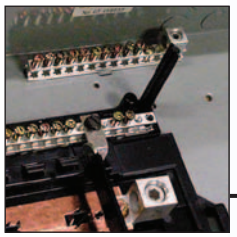
All devices convertible from main lug to main breaker and vice versa.

Invertible for bottom feed application.①



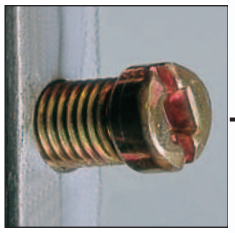
Mounting tabs on the trim hold it in place on the load center, freeing up both hands to drive the trim screws.

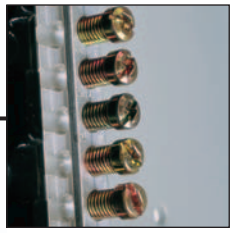
All devices are provided with 2 factory installed ground bars.



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.

Copper Bus

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

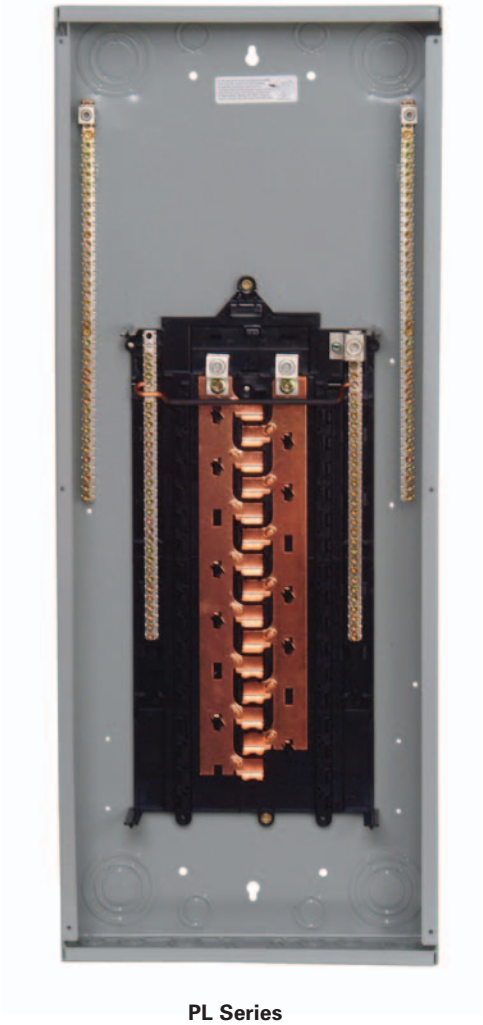
PL Series Load Centers ship with trims packaged separately.

① Applies only to NEMA 1 ES and PL Load Centers

The PL Series Load Center product line provides a wide array of variation to meet any application need.

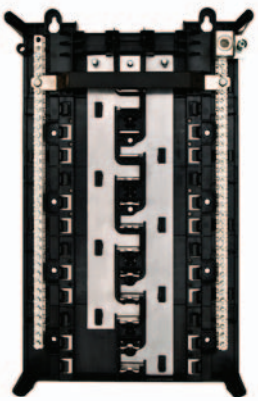
The following offering is available in the PL Series product line:

- 12-70 Circuits/Spaces
- Indoor and Outdoor enclosures
- 100 to 225 Amp
- Main Lug and Main Breakers
- Un-assembled offering in 3-phase



PL Series
1-phase Main Lug

PL Series
3-phase Main Breaker



Un-assembled 3-phase

PL Series 1-Phase Main Lug & Main Breaker Load Centers

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

Main Breaker/Convertible Load Centers①

Copper Bus⑦

12-70 Circuits / 100-225 Amperes

60/75°C Rated 22,000A IR②

Amp Rating	No. of Spaces	Indoor Enclosure – NEMA Type 1					Outdoor Enclosure – NEMA Type 3R		
		No. of Circuits	PL Catalog Number	No. of Circuits	PL with WireGuide Interior Catalog Number⑨	NEMA 1 - Enclosure Height (inches)③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches) ④
100	12	24	P1224B1100CU	—	—	18	24	PW1224B1100CU	21
	16	24	P1624B1100CU⑨	—	—	21	24	PW1624B1100CU	23
	20	20	P2020B1100CU	40	P2040B1100ACU	24	20	PW2020B1100CU	27
		24	P2024B1100CU				—	—	—
	24	24	P2424B1100CU	48	P2448B1100ACU	24	—	—	—
	30	30	P3030B1100CU	60	P3060B1100ACU	30	—	—	—
		40	—	—	—	—	40	PW3040B1100CU	35
125	30	30	P3030B1125CU⑨	60	P3060B1125ACU	30	40	PW3040B1125CU	35
150	20	30	P2030B1150CU	40	P2040B1150ACU	24	—	—	—
		30	—	—	—	—	30	PW2030B1150CU	27
	30	30	P3030B1150CU	60	P3060B1200ACU	30	—	—	—
		40	—	—	—	—	40	PW3040B1150CU	35
200	20	40	P2040B1200CU	40	P2040B1200ACU	30	40	PW2040B1200CU	27
	30	40	P3040B1200CU	60	P3060B1200ACU	36	40	PW3040B1200CU	35
			P3040B1200⑧⑨	60	P3060B1200A⑧	36	—	—	—
	40	40	P4040B1200CU⑨	80	P4080B1200ACU	36	40	PW4040B1200CU	38
			P4040B1200⑧⑨	80	P4080B1200A⑧	36	—	—	—
	54	70	P5470B1200CU	80	P5480B1200ACU	44	—	—	—
225	42	60	P4260B1225CU⑨	80	P4280B1225ACU	39	60	PW4260B1225CU	42
	54	70	P5470B1225CU⑨	80	P5480B1225ACU	44	—	—	—

Single phase factory installed 22kA IR main circuit breaker offers 22/10kA IR series combination rating when using 10kA type QP, QT, QPF, QE, QN, and QAF2/QAF2C branch breakers.

Main Lug/Convertible Load Centers⑥

Copper Bus⑦

12-70 Circuits / 125-225 Amperes

60/75° Rated 100,000A IR

Amp Rating	No. of Spaces	Indoor Enclosure - NEMA Type 1					Outdoor Enclosure - NEMA Type 3R		
		No. of Circuits	PL Catalog Number	No. of Circuits	PL with WireGuide Interior Catalog Number⑨	NEMA 1 - Enclosure Height (inches)③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches)④
125	12	12	P1212L1125CU⑤	—	—	18	12	PW1212L1125CU⑤	21
		24	P1224L1125CU⑤	—	—	18	24	PW1224L1125CU⑤	21
	16	24	P1624L1125CU	—	—	21	24	PW1624L1125CU	23
	20	20	P2020L1125CU⑨	40	P2040L1125ACU	24	—	—	—
		24	P2024L1125CU			24	—	—	—
	24	40	P2440L1125CU⑨	48	P2448L1125ACU	24	—	—	—
	30	40	P3040L1125CU⑨	60	P3060L1125ACU	30	40	PW3040L1125CU	35
	40	40	P4040L1125CU⑨	80	P4080L1125ACU	36	—	—	—
150	20	30	P2030L1150CU	40	P2040L1150ACU	24	30	PW2030L1150CU	27
200	12	24	P1224L1200CU	—	—	24	24	PW1224L1200CU⑤	23
	20	40	P2040L1200CU	40	P2040L1200ACU	30	40	PW2040L1200CU	27
	24	40	P2440L1200CU	48	P2448L1200ACU	30	—	—	—
	30	30	P3030L1200CU	60	P3060L1200ACU	36	—	—	—
		40	P3040L1200CU⑨				40	PW3040L1200CU	35
		54	P3054L1200CU				54	PW3054L1200CU	35
		40	P3040L1200⑧⑨	60	P3060L1200A⑧	36	—	—	—
	40	40	P4040L1200CU⑨	80	P4080L1200ACU	36	40	PW4040L1200CU	38
		40	P4040L1200⑧	80	P4080L1200A⑧	36	—	—	—
225	12	24	—	—		—	24	PW1224L1225CU	23
	42	60	P4260L1225CU⑨	80	P4280L1225ACU	39	60	PW4260L1225CU	42
	54	70	P5470L1225CU	80	P5480L1225ACU	44	—	—	—

① Suitable for use as service equipment.
② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC®.
⑥ 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.
⑦ Copper bus load centers are recommended for those applications where the environment may be severe (i.e. far and coastal areas).
⑧ Includes all PL Series features with aluminum bussing.
⑨ Available (made to order) in white by adding "W" to the end of the part number.

PL Series 1-Phase Special Application Load Centers

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

Split Ground Series Main Lug Convertible Load Centers — Copper Bus

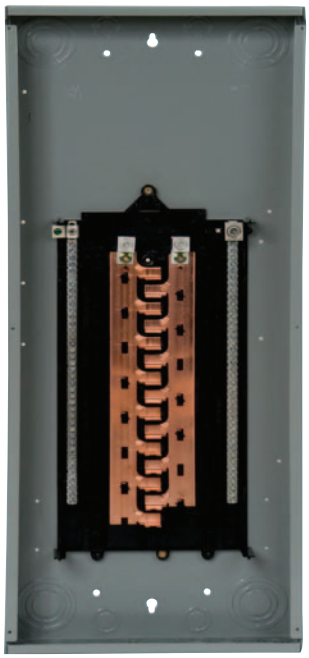
12-60 Circuits / 125-200 Amperes — 60/75° Rated, 100,000A IR

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)②
125	12	24	**P1224L1125CUSG**	18
125	16	24	**P1624L1125CUSG**	21
125	20	30	**P2030L1125CUSG**	24
125	24	30	**P2430L1125CUSG**	24
150	20	30	**P2030L1150CUSG**	24
200	30	40	**P3040L1200CUSG**	36
200	30	40	**P3040L1200SG**①	36
200	40	40	**P4040L1200CUSG**	36
200	40	40	**P4040L1200SG**①	36
225	40	60	**P4260L1225CUSG**	39

Split Ground Series Main Breaker Convertible Load Centers — Copper Bus

40 Circuits / 200 Amperes — 60/75° Rated, 22,000A IR③

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)②
200	40	40	**P4040B1200CUSG**	36



Split Ground Load Centers have factory installed 100% neutral with factory bonded 75% ground. No neutral tie strap.

First Surge PL Load Centers — Copper Bus

54-60 Circuits — 60/75° Rated, 22,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Surge Protection	Enclosure Height (inches)②
200	30	54	**P3054B1200S140**	**140kA**	36
200	40	60	**P4060B1200S140**	**140kA**	42

Outdoor Trailer Panels — Copper Bus

16 Circuits / 200 Amperes — 60/75° Rated, 22,000A IR⑤

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Main Breaker		Enclosure Height (inches)④
200	8	16	**PW0816L1200TC**	MBK150A or MBK200A	Field Installed	23
200	8	16	**PW0816B1200TC**	MBK200A	Factory Installed	23

① Includes all PL Series features with aluminum bussing.
② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
③ May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Main lug panel rated 100,000A IR.
⑥ Load centers with white trim have increased lead time of 3-4 weeks. Sold in pallet quantities only.
⑦ Load centers with CUW suffix indicates copper bus with white trim. Load centers with W suffix only indicates aluminum bus with white trim.

PL Series 3-Phase Main Lug & Main Breaker Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC

Main Breaker/Convertible Load Centers — Copper Bus⑧⑩

30-70 Circuits / 100-225 Amperes — 60/75°C Rated 22,000A IR①

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)③	Catalog Number	Enclosure Height (inches)④
100	12	24	**P1224B3100CU②**	24	—	—
100	30	42	**P3042B3100CU②**	30	—	—
125	30	30	**P3030B3125CU**	39	—	—
150	24	42	**P2442B3150CU**	36	—	—
150	42	42	**P4242B3150CU**	42	—	—
200	30	54	**P3054B3200CU**	39	**PW3054B3200CU**	38
200	42	60	**P4260B3200CU⑪**	42	**PW4260B3200CU**	42
225	42	60	**P4260B3225CU**	42	—	—
225	42	60	**P4260B3225TCU⑥**	49	—	—
225	54	70	**P5470B3225CU**	49	—	—

Main Lug/Convertible Load Centers⑤ — Copper Bus⑧⑩

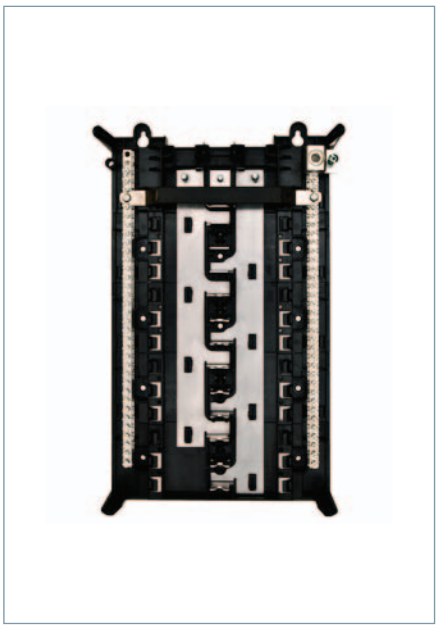
12-70 Circuits / 125-225 Amperes — 60/75° Rated 100,000A IR⑨

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)③	Catalog Number	Enclosure Height (inches)④
125	12	24	**P1224L3125CU⑦**	21	**PW1224L3125CU⑦**	21
200	24	42	**P2442L3200CU**	36	**PW2442L3200CU**	35
200	30	54	**P3054L3200CU**	39	**PW3054L3200CU**	38
225	42	60	**P4260L3225CU**	42	**PW4260L3225CU⑩**	42
225	54	70	**P5470L3225CU**	49	—	—

① May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
② Back fed main breaker.
③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC®.
⑥ Includes factory installed feed through lugs and is also non-convertible.
⑦ Non-convertible to main breaker.
⑧ All load centers are provided with tin plated copper bus bars.
⑨ Rated 100,000A IR in series with breakers listed on wiring diagram.
⑩ All load centers are provided with tin-plated copper bus bars.
⑪ Available (made to order) in white by adding "W" to the end of the part number

PL Series 3-Phase Unassembled Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC



Main Breaker Convertible Unassembled Load Centers — Copper Bus⑤

24-70 Circuits / 100-225 Amperes — 60/75°C Rated 22,000A IR①

Interiors				Enclosure		Trim Kit	
Amp Rating	No. of Spaces	No. of Circuits	Interior Catalog Number	Enclosure Height (inches)③	Enclosure Catalog Number	No. Breaker Spaces	Trim Catalog Number⑤
100	30	42	**PI3042B3100CU②**	30	**3PE30**	30	**PT3042B3100**
150	24	42	**PI2442B3150CU**	36	**3PE36**	24	**PT2442X3150**
200	30	54	**PI3054B3200CU**	39	**3PE39**	30	**PT3054X3200**
200	42	60	**PI4260B3200CU**	42	**3PE42**	42	**PT4260X3200**
225	54	70	**PI5470B3225CU**	49	**3PE49**	54	**PT5470X3225**

Main Lug Convertible Unassembled Load Centers — Copper Bus⑤

12-70 Circuits / 125-225 Amperes — 60/75° Rated 100,000A IR⑥

Interiors				Enclosure		Trim Kit	
Amp Rating	No. of Spaces	No. of Circuits	Interior Catalog Number	Enclosure Height (inches)③	Enclosure Catalog Number	No. Breaker Spaces	Trim Catalog Number④
125	12	24	**PI1224L3125CU**	21	**3PE21**	12	**PT1224L3125**
200	24	42	**PI2442L3200CU**	36	**3PE36**	24	**PT2442X3200**
200	30	54	**PI3054L3200CU**	39	**3PE39**	30	**PT3054X3200**
225	42	60	**PI4260L3225CU**	42	**3PE42**	42	**PT4260X3225**
225	54	70	**PI5470L3225CU**	49	**3PE49**	54	**PT5470X3225**

① May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
② Back fed main breaker.
③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
④ Trim catalog numbers with a "B" indicate for use with main breaker and is not convertible. "L" indicates for use with main lug and is not convertible. "X" indicates can be used with convertible interior.
⑤ All load center interiors are provided with tin plated copper bus bars.
⑥ Rated 100,000A IR in series with breakers listed on wiring diagram.

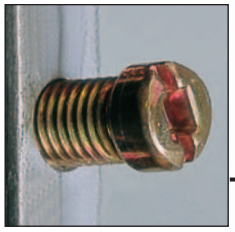
ES Series Load Centers

Features

Invertible for bottom feed application.①

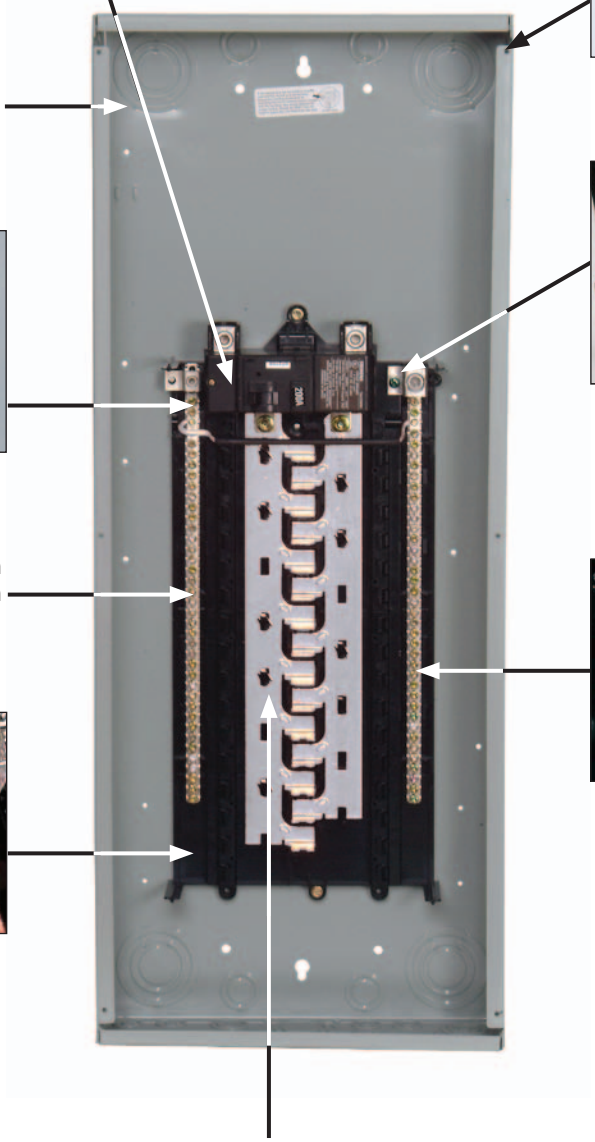
Ground bar field installed (select skus with "G" suffix will have ground bar factory installed).

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



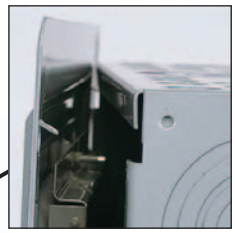
Single side inboard neutral on 24 circuits and below; dual on 30 circuits and above.

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



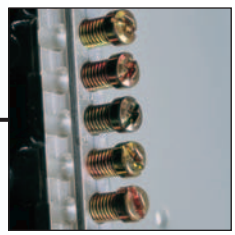
Aluminum bus.

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



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

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



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.

ES Series Load Centers ship in single piece carton.

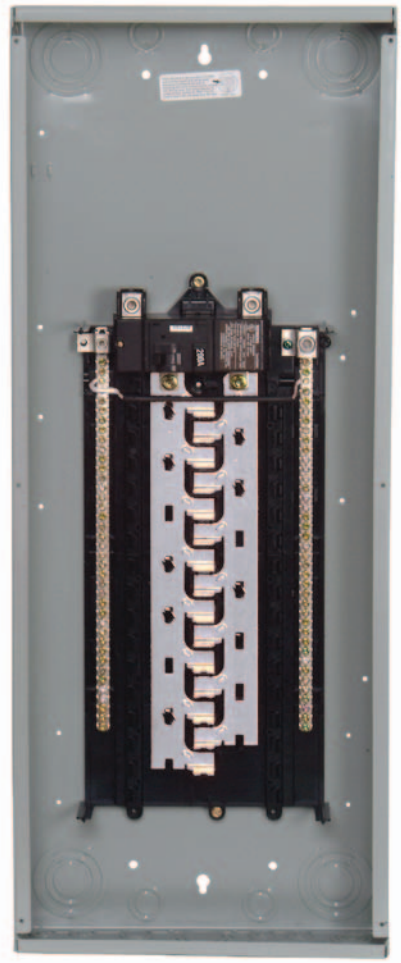
① Applies only to NEMA 1 ES and PL Load Centers

The ES Series Load Center product line provides a wide array of variation to meet any application need.

The following offering is available in the ES Series product line:

- 12-70 Circuits/Spaces
- Indoor and Outdoor enclosures
- 100 to 225 Amp
- Main Lug and Main Breakers
- Value packs – a mix of branch breakers provided with the load center.

ES Series
1-phase Main Lug
125A, 12-24 circuits



ES Series
1- phase Main Breaker
125- 225A, 30-70 circuits

ES Series
3-phase Main Breaker

ES Series 1-Phase Main Lug & Main Breaker Load Centers

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

Main Breaker①

Aluminum Bus

12-70 Circuits / 100-225 Amperes

60/75°C Rated 22,000A IR②

Amp Rating	No. of Spaces	Indoor Enclosure – NEMA Type 1					Outdoor Enclosure – NEMA Type 3R		
		No. of Circuits	ES Catalog Number	No. of Circuits	ES with WireGuide Interior Catalog Number⑧	NEMA 1 - Enclosure Height (inches)③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches)④
100	10	20	S1020B1100	—	—	18	—	—	—
	12	24	S1224B1100	—	—	18	24	SW1224B1100	21
	16	24	S1624B1100⑧	—	—	21	24	SW1624B1100	23
	20	20	S2020B1100	40	S2040B1100A	24	20	SW2020B1100	27
		24	S2024B1100				—	—	—
	30	30	S3030B1100⑧	60	S3060B1100A	30	—	—	—
125	12	24	—	—	—	—	24	SW1224B1125	21
	16	24	S1624B1125	—	—	21		—	—
		32	—	—	—	—	24	SW2024B1125	27
	24	24	S2424B1125⑧	48	S2448B1125A	24	24	SW2424B1125	27
	30	30	S3030B1125⑧	60	S3060B1125A	30	—	—	—
		40	S3040B1125				40	SW3040B1125	35
150	16	30	S1630B1150	—	—	24	—	—	—
	20	30	S2030B1150	40	S2040B1200A	24	—	—	—
	24	30	S2430B1150	48	S2448B1200A	30	—	—	—
	30	30	S3030B1150⑧	60	S3060B1150A	30	—	—	—
		40	S3040B1150				40	SW3040B1150	35
	40	40	—	—	—	—	40	SW4040B1150	38
200	16	32	S1632B1200	—	—	24	—	—	—
	20	40	S2040B1200	40	S2040B1200A	30	40	SW2040B1200	27
	24	40	S2440B1200	48	S2448B1200A	30	—	—	—
	30	40	S3040B1200⑧	60	S3060B1200A	36	40	SW3040B1200	35
	40	40	S4040B1200⑧	80	S4080B1200A	36	40	SW4040B1200	38
	42	60	S4260B1200	80	S4280B1200A	39	—	—	—
	54	70	S5470B1200	80	S5480B1200A	44	—	—	—
225	42	60	S4260B1225	80	S4280B1225A	39	60	SW4260B1225	42
	54	70	S5470B1225	80	S5480B1225A	44	—	—	—

Main Lug

Aluminum Bus

12-70 Circuits / 125-225 Amperes

60/75° Rated 100,000A IR

Amp Rating	No. of Spaces	Indoor Enclosure - NEMA Type 1					Outdoor Enclosure - NEMA Type 3R		
		No. of Circuits	ES Catalog Number(6)	No. of Circuits	ES with WireGuide Interior Catalog Number⑥⑧	NEMA 1 - Enclosure Height (inches)③	No. of Circuits	Catalog Number	NEMA 3R - Enclosure Height (inches)④
125	12	12	S1212L1125⑤	—	—	18	12	SW1212L1125⑤	21
		24	S1224L1125⑤	—	—	18	24	SW1224L1125⑤	21
	16	24	S1624L1125	—	—	21	24	SW1624L1125	21
	20	20	S2020L1125⑧	40	S2040L1125AG	21	—	—	—
		20	S2020L1125G⑧				——	—	—
		24	S2024L1125				—	—	—
		24	S2024L1125G				—	—	—
	24	24	S2424L1125⑧	48	S2448L1125AG	24	24	SW2424L1125	27
		24	S2424L1125G⑧				—	—	—
		40	S2440L1125⑧				—	—	—
		40	S2440L1125G				—	—	—
	30	40	S3040L1125⑧	—	S3060L1125AG	30	40	SW3040L1125	29
		40	S3040L1125G⑧	—			—	—	—
	40	40	S4040L1125	80	S4080L1125AG	36	—	—	—
150	20	30	S2030L1150⑧	40	S2040L1150AG	24	30	SW2030L1150	27
200	12	24	S1224L1200⑤		—	21	24	SW1224L1200⑤	21
	20	40	S2040L1200	40	S2040L1200AG	24	40	SW2040L1200	27
	24	40	S2440L1200⑧	48	S2448L1200AG	30	—	—	—
	30	30	S3030L1200⑧	60	S3060L1200AG	30	—	—	—
		40	S3040L1200⑧				40	SW3040L1200	35
		54	S3054L1200				54	SW3054L1200	35
		40	S3040L1200L50⑦	—	—	36	—	—	—
	40	40	S4040L1200⑧	80	S4080L1200AG	36	40	SW4040L1200	35
225	12	24	—	—	—	—	24	SW1224L1225	23
	42	60	S4260L1225	80	S4280L1225AG	36	60	SW4260L1225	38
	54	70	S5470L1225	80	S5480L1225AG	42	—	—	—

① Suitable for use as service equipment.
② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC®.
⑥ ES Series single phase skus with a "G" suffix have ground bar included (factory installed).
⑦ Line and Neutral Lug Wire Range: 500 kcmil - #2 AL/CU
⑧ Available (made to order) in white by adding "W" to the end of the part number.

ES Series 1-Phase Unassembled Load Centers

1-phase, 3-wire SN, 120/240 Volts A

Features

- Available for the most popular ES Load Centers
- Gives the ability to order in bulk
- Enclosures will have minimal packaging for less hassle and waste at the job site
- Keeps the covers separate to prevent damage or theft
- Includes full size cardboard covers to keep the interior safe during painting
- All main lug panels include factory installed ground bars

Main Breaker ES Unassembled Load Centers①

Aluminum Bus

24-40 Circuits / 125-200 Amperes

60/75° Rated 22,000A IR②

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
125	**SB2424B1125**	Main Breaker	24	24	24	14.5	4.25	**ST2424B1125**	36
200	**SB3040B1200**	Main Breaker	30	40	36	14.5	4.25	**ST3040B1200**	30
200	**SB4040B1200**	Main Breaker	40	40	36	14.5	4.25	**ST4040B1200④**	30

Selectable Main ES Unassembled Load Centers③

Aluminum Bus

30-40 Circuits / 200 Amperes

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
150/200	**SB3040C1200G**	Convertible	30	40	36	14.5	4.25	**ST3040X1200**	30
150/200	**SB4040C1200G**	Convertible	40	40	36	14.5	4.25	**ST4040X1200**	30

Main Lug ES Unassembled Load Centers③

Aluminum Bus

24-40 Circuits / 125-200 Amperes

60/75° Rated 100,000A IR

Amp Rating	Box Catalog Number	Main	No. of Spaces	No. of Circuits	Dimensions			Trim Catalog Number	Pallet Quantity
					Height	Width	Depth		
125	**SB2440L1125G**	Main Lug	24	40	24	14.5	4.25	**ST2440L1125**	36
125	**SB3040L1125G**	Main Lug	30	40	30	14.5	4.25	**ST3040L1125**	36
200	**SB3040L1200G**	Main Lug	30	40	30	14.5	4.25	**ST3040L1200**	36
200	**SB4040L1200G**	Main Lug	40	40	36	14.5	4.25	**ST4040L1200**	30

① Suitable for use as service equipment.
② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
③ ES Series single phase skus with a "G" suffix have ground bar included (factory installed).
④ Available (made to order) in white by adding "W" to the end of the part number.

ES Series 1-Phase Special Load Centers

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

First Surge ES Load Centers — Aluminum Bus

54-60 Circuits — 60/75° Rated, 22,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Surge Protection	Enclosure Height (inches)②
200	30	54	**S3054B1200S060**	**60kA**	36
200	40	60	**S4060B1200S060**	**60kA**	42

Outdoor Trailer Panels — Aluminum Bus

16 Circuits / 200 Amperes — 60/75° Rated 100,000A IR

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Main Breaker		Enclosure Height (inches)④
200	8	16	**SW0816L1200T**	N/A	N/A	23
200	8	16	**SW0816B1200T**⑤	MBK200A	Factory Installed	23

Value Pack Load Centers③ — Aluminum Bus

Catalog Number	Load Center	Breakers Included	Amp	N0. of Spaces	No. of Circuits
S2020B1100P	S2020B1100	(3) Q120, (1) Q230	100	20	20
S3040B1200P	S3040B1200	(3) Q120, (1) Q230	200	30	40
S3040L1200P	S3040L1200	(3) Q120, (1) Q230	200	30	40
S4040B1200P	S4040B1200	(3) Q120, (1) Q230	200	30	40
S3054B1200P	N/A	(3) Q120, (1) Q230	200	30	54

Split Ground Series Load Centers⑥

30-40 Circuits / 125-200 Amperes

16 Circuits / 200 Amperes — Aluminum Bus

Branch Circuits			Indoor Enclosure – NEMA Type 1	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)②
125	20	30	**S2030L1125SG**	21
150	30	30	**S3030B1150SG**	30
200	40	40	**S4040B1200SG**	36

Selectable Main Load Centers⑦

24-40 Circuits / 125-200 Amperes — Aluminum Bus

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R		Available Kits	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)②	Catalog Number	Enclosure Height (inches)④	Main Lug	Main Breaker
125	24	24	**S2424C1125**	24	**SW2424C1125**	27	ECMLK125	MBK100A, MBK125A
200	20	40	**S2040C1200**	35	**SW2040C1200**	35	ECMLK225	MBK200A
200	30	40	**S3040C1200**	36	**SW3040C1200**	35	ECMLK225	MBK150A, MBK200A
200	40	40	**S4040C1200**	36	**SW4040C1200**	38	ECMLK225	MBK150A, MBK200A

① Load centers with white trim have increased lead time of 3-4 weeks. Sold in pallet quantities only. Additional charge will apply. Contact sales office for details.
② Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
③ Breakers are shipped inside a sleeve located inside the load center.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Main breaker rated 22,000A IR.
⑥ Split Ground load centers have factory installed 100% neutral with factory bonded 75% ground.
⑦ Selectable main load centers do not come with main lugs or main breakers. Those kits are sold separately.

ES Series 3-Phase Main Lug & Main Breaker Load Centers

3-phase, 3-wire, 240 Volt AC or 3-phase, 4-wire, 120/240 or 120/208 Volts AC

Main Breaker — Aluminum Bus

30-60 Circuits / 100-225 Amperes — 60/75°C Rated 10,000A IR①

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)③	Catalog Number	Enclosure Height (inches)④
100	12	24	**S1224B3100②**	24	**SW1224B3100**	23
100	30	30	**S3030B3100②**	30	—	—
100	30	42	**S3042B3100②**	30	—	—
125	30	42	**S3042B3125**	35	—	—
150	24	42	**S2442B3150**	36	**SW2442B3150**	35
150	42	42	**S4242B3150**	42	—	—
150	30	54	**S3054B3150**	35	—	—
200	30	54	**S3054B3200**	39	**SW3054B3200**	38
200	42	60	**S4260B3200**	42	**SW4260B3200**	42
225	42	42	**S4242B3225**	42	**SW4242B3225**	42

Main Lug⑤ — Aluminum Bus

12-70 Circuits / 125-225 Amperes — 60/75° Rated 100,000A IR⑥

Branch Circuits			Indoor Enclosure – NEMA Type 1		Outdoor Enclosure – NEMA Type 3R	
Amp Rating	No. of Spaces	No. of Circuits	Catalog Number	Enclosure Height (inches)③	Catalog Number	Enclosure Height (inches)④
125	12	24	**S1224L3125**	21	**SW1224L3125**	21
150	18	36	**S1836L3150**	24	**SW1836L3150**	23
150	24	42	**S2442L3150**	30	**SW2442L3150**	27
200	12	24	**S1224L3200**	21	**SW1224L3200**	21
200	24	42	**S2442L3200**	30	**SW2442L3200**	27
200	30	54	**S3054L3200⑦**	30	**SW3054L3200**	35
225	42	60	**S4260L3225⑦**	36	**SW4260L3225**	38
225	54	70	**S5470L3225⑦**	42	—	—

① May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating.
② Back fed main breaker.
③ Indoor enclosures are 14 1/4" wide by 3 7/8" deep.
④ Outdoor enclosures are 14 1/2" wide by 4 1/4" deep.
⑤ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided. See article 230.71 of the NEC®.
⑥ Rated 100,000A IR in series with breakers listed on wiring diagram.
⑦ Available (made to order) in white by adding "W" to the end of the part number.

EQ® Load Centers—300-400Amp

1-Phase, 3-Wire/3-Phase, 3-Wire, 4-Wire

Features

- UL listed for 60/75°C conductors. See equipment markings for applications.
- Copper bus standard.
- Factory installed lock on indoor enclosure.
- Outdoor enclosures use HV type hubs. See page 1-22.

E3030MB1400SCU

Main Breaker 300-400 Ampere①

1Ø, 3-Wire — **120/240 Volts AC**

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number③	Std. Pkg.	Dimensions (inches) Height	Width	Depth	Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches) Height	Width	Depth④
300	42	20	**E4242MB1300FCU**	1	58	20	6	Flush	—	—	—	—	—
300	42	20	**E4242MB1300SCU**	1	58	20	6	Surface	—	—	—	—	—
400	30	14	**E3030MB1400SCU**	1	52	20	6	Surface	**W3030MB1400CU**	1	52	20	6
400	42	20	**E4242MB1400FCU**	1	58	20	6	Flush	**W4242MB1400CU**	1	58	20	6
400	42	20	**E4242MB1400SCU**	1	58	20	6	Surface	—	—	—	—	—

3Ø, 3-Wire, 4-Wire — **240 Volts AC**

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number③	Std. Pkg.	Dimensions (inches) Height	Width	Depth	Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches) Height	Width	Depth④
300	42	20	**E4242MB3300SCU**	1	58	20	6	Surface	—	—	—	—	—
400	30	14	**E3030MB3400SCU**	1	52	20	6	Surface	—	—	—	—	—
400	42	20	**E4242MB3400FCU**	1	58	20	6	Flush	**W4242MB3400CU**	1	58	20	6
400	42	20	**E4242MB3400SCU**	1	58	20	6	Surface	—	—	—	—	—

Main Lug 400 Ampere

1Ø, 3-Wire — **120/240 Volts AC**

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (65,000A IR)						Outdoor Enclosure — NEMA Type 3R (65,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number③	Std. Pkg.	Dimensions (inches) Height	Width	Depth	Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches) Height	Width	Depth④
400	24	12	—	—	—	—	—	—	**W0606ML1400CU**②⑤⑥	1	43	20	6
400	30	14	**E3030ML1400SCU**	1	41	20	6	Surface	**W3030ML1400CU**	1	43	20	6
400	42	20	**E4242ML1400SCU**	1	47	20	6	Surface	—	—			
400	42	20	**E4242ML1400FCU**	1	47	20	6	Flush	**W4242ML1400CU**	—	47	20	6

3Ø, 3-Wire, 4-Wire — **240 Volts AC**

Ampere Rating	Branch Circuits Type QP		Indoor Enclosure — NEMA Type 1 (22,000A IR)						Outdoor Enclosure — NEMA Type 3R (22,000A IR)				
	Max. 1-Pole	Max. 2-Poles	Catalog Number	Std. Pkg.	Dimensions (inches) Height	Width	Depth	Trim Style	Catalog Number	Std. Pkg.	Dimensions (inches) Height	Width	Depth④
400	30	14	**E3030ML3400SCU**	1	41	20	6	Surface	—	—	—	—	—
400	42	20	**E4242ML3400FCU**	1	47	20	6	Flush	**W4242ML3400CU**	1	47	20	6
400	42	20	**E4242ML3400SCU**	1	47	20	6	Surface	—	—	—	—	—

① UL listed as suitable for use as service equipment.
② W0606ML14000CU rated at 22,000A IR.
③ Where noted suffix S = Surface, F = Flush.
④ Does not include 2" rainhead overhang.
⑤ Accepts up to six QN style breakers.
⑥ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided.

Generator Ready Load Centers

The Siemens generator ready load center can save thousands of dollars in future generator installation expenses while keeping initial expenses to a minimum. Works with an automatic standby generator or a portable generator.

Load Center Features

- UL Listed
- Indoor Type 1 and outdoor Type 3R
- 225A max rated
- Flush or surface mounting
- Fits between standard stud centers
- Tin plated copper bus bars
- 22 kAIC rated
- 120/240V ~
- Main lug – convertible to main breaker with addition of MBK150A, MBK200A, or MBK225A
- Main breaker – convertible to main lug with use of lug kit part no. ECMLK225
- Installation of transfer mechanism can be performed at time of generator installation.

Automatic transfer switch features:

- UL Listed
- Operates automatically when connected to generator
- Transfers load from utility to generator and back to utility
- Transfer switch (sold separately) catalog number: GENTFRSWTCH①③

Indoor Enclosure – NEMA Type 1

Amp Rating	No. of Spaces②	No. of Circuits②	Catalog Number	Dimensions (inches)		
				Height	Width	Depth
200	30	42	**G3042B1200GEN**	42	14.25	4
225	30	42	**G3042L1225GEN**	42	14.25	4
200	42	54	**G4254B1200GEN**	44	14.25	4
225	42	54	**G4254L1225GEN**	44	14.25	4

Outdoor Enclosure – NEMA Type 3R

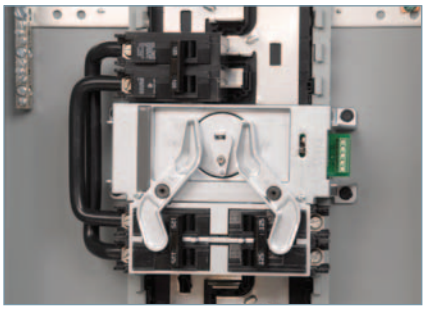
Amp Rating	No. of Spaces②	No. of Circuits②	Catalog Number	Dimensions (inches)		
				Height	Width	Depth
200	30	42	**W3042B1200GEN**	42	14.63	4
225	30	42	**W3042L1225GEN**	42	14.63	4

① Q2125S provided with GENTFRSWTCH for use with automatic transfer mechanism.

② 2 spaces and 2 circuits are reserved for standby generator installation.

③ Field install breaker for voltage sensing required.

NEMA 1



GENTFRSWTCH

NEMA 3R

Riser Panel Load Centers

1-Phase, 3-Wlre SN, 120/240Volts AC

Riser Panel Load Centers①

Riser panel load centers are ideal for high rise applications. The shifted interior provides room for conductors to pass through the load center. The tap kits allow the installer to tap off from those conductors to power the panel.

Features

- UL Listed for use in 1Ø and 3Ø riser gutter applications.
- Copper bus standard.
- Main lug factory standard - convertible to main breaker.
- Neutrals aligned on left side- keeps way clear for riser cables.
- Available in 125 and 200 amp models.
- Invertible for left and right hand applications.

R1632L1125CU

ECRLK250

Riser Gutter Tap Kit②

The riser gutter tap kit (ECRLK250) allows the installer to tap off the main conductors, eliminating the need to cut completely through the conductor. The tap kit accepts 250 -1/0 on the main conductor side and 250-#6 on the tap side.

Riser Gutter

The riser gutter (RAG24) is used to convert any load center 24" or larger into a riser panel.

Features

- Single and 3-phase applications
- Compatible with any single or 3-phase Siemens load center 24" or higher
- Flush trim included
- Load center mounting hardware and pass through brush included (Catalog no. RAG24)

Any Load Center 24" or larger

RAG24

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

Amp Rating	No. of Spaces	No. of Circuits	Catalog Number				Dimensions (inches)			Acceptable Main Breaker Kits
			Aluminum Bus	Aluminum Bus White Coating	Copper Bus	Copper Bus White Coating	Height	Width	Depth	
125	16	32	**R1632L1125**	**R1632L1125W**	**R1632L1125CU**	—	24	14.25	3.88	MBK100A,MBK125A
125	24	24	**R2424L1125**	**R2424L1125W**	**R2424L1125CU**	—	30	14.25	3.88	MBK100A, MBK125A
125	24	42	**R2442L1125**	**R2442L1125W**	**R2442L1125CU**	**R2442L1125CUW**	30	14.25	3.88	MBK100A, MBK125A
200	30	42	**R3042L1200**	**R3042L1200W**	**R3042L1200CU**	**R3042L1200CUW**	36	14.25	3.88	MBK150A, MBK200A

① The riser panels are single phase only, but can be fed from 1-phase or 3-phase systems running through the gutter trough area.

② ECRLK250 is sold separately

EQ® Load Centers—Small Circuit Load Centers

1-Phase, 3-Wire SN, 120/240Volts AC

Features/Applications

EQ Load Centers with main lugs feature a combination trim box in one package.

- Interiors offer removal in seconds
- Single phase
- One piece bus bar construction designed for use only with circuit breakers
- UL Listed
- UL listed on 60/75°C conductors (see equipment markings for applications)
- Positive load side circuit breaker hook rails
- Outdoor Type 3R devices use HS Type hubs. See page 1-22.

Small Circuit Load Centers

Ideal for subfeed applications

Renovation Panel

Ideal for older home renovation projects where the distance between the studs is narrower than current construction practices. The narrower panel eliminates the need to 'notch' out the existing studs.

Spa Panels

Spa Panels are ideal for outdoor applications requiring the use of ground fault protection, such as hot tubs. A factory installed 2-Pole GFCI breaker is provided, along with 2 extra circuits.

Main Lugs with Aluminum Bus⑥

100,000A IR

4–16 circuits, 100–125 Amperes

1-Phase, 3-Wire, SN 120/240 Volts AC

Branch Circuits				Indoor Enclosure — NEMA Type 1					Outdoor Enclosure — NEMA Type 3R				
Amp Rating	Max. 1-Pole No. of Spaces	No. of Circuits	QP Max. 2-Poles	Catalog Number— Replace Suffix F (Flush) with S for Surface Mounting	Std. Pkg.	Dimensions (inches) H	W	D	Catalog Number	Std Pkg.	Dimensions (inches) H	W	D
100	12	24	6	**E1224ML1100FG**①	1	14 3/4	12 3/8	3 7/8	—	—	—	—	—
125	4	8	2	**E0408ML1125F**②④⑤	5	12 5/8	6 5/8	3 1/2	**W0408ML1125**②④⑫	5	12 1/4	6	4 1/4
125	4	8	2	—	—	—	—	—	**W0408L1125SPA50**③④⑧	1	12 1/4	6	4 1/4
125	4	8	2	—	—	—	—	—	**W0408L1125SPA60**③④⑧	1	12 1/4	6	4 1/4
125	8	16	4	**E0816ML1125F**⑤	1	14 3/4	12 3/8	3 7/8	—	—	—	—	—

Main Lug and Main Breaker with Copper Bus⑥⑨

100,000A IR

4–16 circuits, 100–225 Amperes

1-Phase, 3-Wire, SN 120/240 Volts AC

Branch Circuits				Indoor Enclosure — NEMA Type 1					Outdoor Enclosure — NEMA Type 3R				
Amp Rating	Max. 1-Pole No. of Spaces	No. of Circuits	QP Max. 2-Poles	Catalog Number	Std. Pkg.	Dimensions (inches) H	W	D	Catalog Number	Std. Pkg.	Dimensions (inches) H	W	D
100	10	20	4	**E1020MB1100FCGP**⑦	1	14 3/4	12 3/8	3 7/8	—	—	—	—	—
100	12	24	6	**E1224ML1100FCU**	1	14 3/4	12 3/8	3 7/8	—	—	—	—	—
125	8	16	4	**E0816ML1125FCU**⑤	1	14 3/4	12 3/8	3 7/8	**W0816ML1125CU**⑤	1	14 3/4	12 1/8	4 1/4
125	8	16	4	**E0816ML1125SCU**	1	14 3/4	12 3/8	3 7/8	—	—	—	—	—
225	4	6	2	—	1	—	—	—	**W0406ML1225CU**②	1	23	10	4 1/8
200	4	4	2	—	1	—	—	—	**W0404MB1200CT**⑩⑪	1	20	11 1/8	4 3/4
150	4	4	2	—	1	—	—	—	**W0404MB1150CTS**⑪⑬	1	20	11 1/8	4 3/4
200	4	4	2	—	1	—	—	—	**W0404MB1200CTS**⑪⑬	1	20	11 1/8	4 3/4

① 70 amp maximum breaker.
② Will not accommodate 2-pole GFCI or circuit breaker with shunt trip.
③ Can accommodate 2-pole GFCI breaker up to 50A. For 2-pole 60A GFCI, a restriction of #6 wire applies due to wire bend space of the enclosure. Will not accommodate circuit breaker with shunt trip.
④ 100 amp maximum breaker.
⑤ Suitable for use as service entrance equipment when a main breaker (125A maximum) is back-fed in a branch position and used with main breaker retainer clip (Cat. No. ECMBR1).
⑥ Suitable for use as service entrance when not more than six main disconnecting means are provided. Check local codes and restrictions.
⑦ Two Q115 and one Q230 breaker included.
⑧ W0408L1125SPA50 provided with factory installed QF50 and ground bar. W0408L1125SPA60 provided with factory installed QF260 and ground bar.
⑨ Copper Bus load centers are recommended for those applications where the environment may be severe (i.e. farm and coastal areas).
⑩ 2" HS Type hub provided.
⑪ Type QNR main breaker factory installed.
⑫ CSA Listed
⑬ Cover plate included

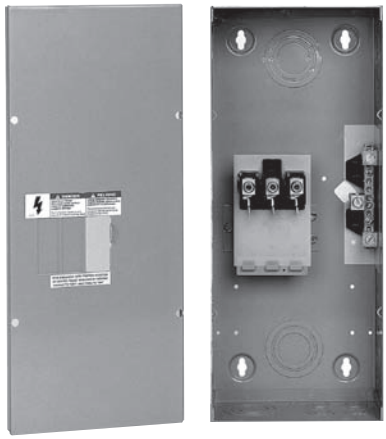
EQ® Load Centers—Circuit Breaker Enclosures

1-Phase and 3-Phase, 240V AC Max.

Features

- Circuit breaker enclosures range from 60A to 250A, indoor and outdoor models
- Designed for use exclusively with QP, QT, QPH, HQP, BQ, BQH, HBQ, QPP, QPPH, HQPP, QR2, QRH2, HQR2, and HQR2H circuit breakers
- UL listed
- Suitable for use as service entrance equipment
- UL listed for 60/75°C conductors (See equipment markings for applications)
- Outdoor type 3R devices use HS type hubs (pg. 1-21) except for the W0204ML1060 which uses the HA type hub

W0202MB1200CU



E0303ML3100CU

Amp. Rating	No. of Poles	Indoor Enclosure - NEMA Type 1							Outdoor Enclosure - NEMA Type 3R						
		Catalog Number	Breaker Used①	Max Short Circuit Rating	Std. Pkg.	Dimensions (inches) H	W	D	Catalog Number	Breaker Used①	Max Short Circuit Rating	Std. Pkg.	Dimensions (inches) H	W	D
1-Phase, 3-Wire SN - 120/240 Volts AC - Breaker Factory Installed															
100	2	**E0202MB1100**	Q2100	22k	1	17.2	7.2	4.3	**W0202MB1100CU**	Q2100	22k	1	17.2	7.3	4.3
150	2	—	—	—	—	—	—	—	**W0202MB1150CU**	QN2150H	65k	1	19.8	8.7	5
200		**E0202MB1200**	QN2200	22k	1	20	8.7	4	**W0202MB1200CU**	QN2200H	65k				
150	2	—	—	—	—	—	—	—	**WB2150BQR**	QR22B150L	10k	1	26.9	7.1	4.4
200		—	—	—	—	—	—	—	**WB2200BQR**	QR22B200L	10k				
225		—	—	—	—	—	—	—	**WB2225BQR**	QR22B225L	10k				
1-Phase, 3-Wire SN - 120/240 Volts AC - Enclosure Only															
60	2	**E0204ML1060S**②④	QP, QPH, or HQP	100k⑥	5	9.9	5.2	2.7	**W0204ML1060**②④	QP, QPH, or HQP	100k⑥	5	8.1	5.5	3.5
	2	**E0204ML1060F**②④							—			—	—	—	—
125	2	**E0204ML1125SCU**③	QP, QPH	22k	1	17.3	7.3	4.3	**W0204ML1125CU**③	QP or QPH	22k	1	17.2	7.3	4.3
	2	**E0204ML1125FCU**③							—		—	—	—	—	—
200	2	—	—	—	—	—	—	—	**W0202ML1200CU**	QN, QNH, or HQN	65k	1	19.8	8.7	5
225	1-4	—	—	—	—	—	—	—	**W0406ML1225CU**	QPP or QP	10k	1	23.2	10.4	4.5
225	2	—	—	—	—	—	—	—	**QR2N3R2**	QR2, QRH2, or HQR2	65k	1	26.9	7.1	4.4
250	2	**QR2N1S**	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6	—	—		—	—	—	—
	2	**QR2N1F**			1	31.4	9.6	5.6	—	—		—	—	—	—
3-Phase, 3-Wire 240 Volts AC or 3-Phase, 4-Wire SN — 120/208 Volts AC, 120/240, 240 Volts AC - Enclosure Only															
100	2-3	**E0303ML3100S**⑤	QP or QPH	22k	1	17.3	7.3	4.3	**W0303ML3100**⑤	QP or QPH	22k	1	17.2	7.3	4.3
100	2-3	**EB3100S**⑤	BQ or BQH	22k	1	17.3	7.3	4.3	**WB3100**⑤	BQ or BQH	22k	1	17.2	7.3	4.3
250	2-3	**QR2N1S**	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6	**QR2N3R3**	QR2, QRH2, HQR2, or HQR2H	100k	1	31.4	9.6	5.6
		QR2N1F							—		—	—	—	—	—

① Additional breaker types may be listed on the wiring diagram.
② Will not accommodate 2-pole GFCI or Circuit breaker with shunt trip.
③ Can accommodate 2-pole GFCI breaker up to 60A.
④ CSA Listed
⑤ Will not accommodate circuit breaker with shunt trip.
⑥ Series rating

Load Center OEM Interiors[1]

1Ø: Small Circuit Main Lug Interiors

Amps	Catalog Number[2]	Spaces	Circuits	Dimensions	
				Height	Width
60	**I0204ML1125CU**	2	2	4.40	1.85
60	**I0303ML3100CU**	3	3	5.77	3.42
125	**I0408ML1125**	4	8	4.51	6.61
125	**I0816ML1125CU**	8	16	6.19	6.81
125	**I0816ML1125CUSP**	8	16	6.19	6.81
200	**I0202L1200**	4	4	3.88	7.13
200	**I1220L1200CT**	12	20	9.00	7.00

1Ø: High Circuit Main Lug Interiors with Neutral Bars[4]

Amps	Catalog Number[2]	Spaces	Circuits	Dimensions	
				Height	Width
125	**I1224L1125CU**	12	24	10.80	9.80
125	**I1624L1125CU**	16	24	12.80	9.80
125	**I3040L1125CU**	30	40	20.80	9.80
200	**I0816L1200CT**[4]	8	16	10.80	9.80
200	**I1224L1200CU**	12	24	10.80	9.80
200	**I1632L1200CU**	16	32	12.80	9.80
200	**I2040L1200CU**	20	40	14.80	9.80
200	**I3040L1200CU**	30	40	14.80	9.80
200	**I4040L1200CU**	40	40	24.80	9.80
225	**I4242L1225CU**	42	42	26.80	9.80

3Ø: Main Lug Interiors[2]

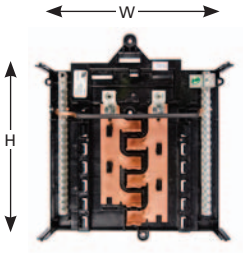
Amps	Catalog Number	Spaces	Circuits	Dimensions	
				Height	Width
125	**SI1224L3125B**	12	24	10.04	9.95
200	**SI1224L3200B**	12	24	10.04	9.95
200	**SI2442L3200B**	24	42	16.04	9.95
200	**SI3054L3200B**	30	54	19.04	9.95
225	**SI4242L3225B**	42	42	25.04	9.95
125	**PI1224L3125CUB**	12	24	10.04	9.95
200	**PI1224L3200CUB**	12	24	10.04	9.95
200	**PI1836L3200CUB**	18	36	13.04	9.95
125	**PI1836L3125CUB**	18	36	13.04	9.95
200	**PI2442L3200CUB**	24	42	10.04	9.95
200	**PI3054L3200CUB**	30	54	19.04	9.95
225	**PI4242L3225CUB**	42	42	25.04	9.95

1Ø: Parallel Lug Interiors with Neutral Bars

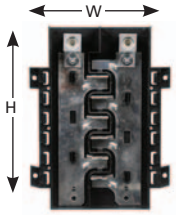
Amps	Catalog Number[2]	Spaces	Circuits	Dimensions	
				Height	Width
200	**CTI2040L1200CU**	20	40	14.80	9.80
200	**CTI2440L1200CU**	24	40	16.80	9.80
200	**CTI3040L1200CU**	30	40	20.80	9.80

Lug Data

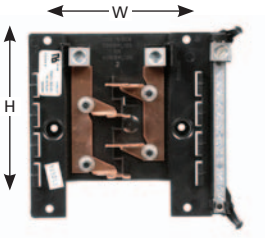
Interior	Amperage	Wire range	Torque
I0204ML1060	60	2/0 - 4 AWG	45 lb. - ins.
I0303ML3100	100	2/0 - 4 AWG	45 lb. - ins.
I1224ML1100	100	2/0 - 4 AWG	45 lb. - ins.
I0408ML1125	125	2/0 - 4 AWG	45 lb. - ins.
I0816ML1125CU/CUSP	60	2/0 - 4 AWG	45 lb. - ins.
Single Phase	125	2/0 - 4 AWG	110 lb. - ins.
Single Phase	200/225	300 kcmil - 4 AWG	250 lb. - ins.
Three Phase	125	300 kcmil - 6 AWG	340 lb. - ins.
Three Phase	200/225	300 kcmil - 6 AWG	340 lb. - ins.



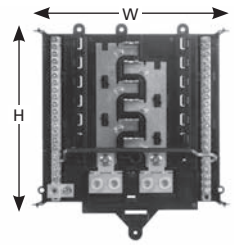
I1224L1125CU



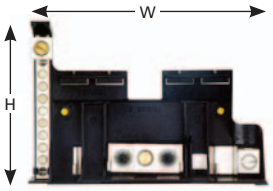
I1220L1200CT



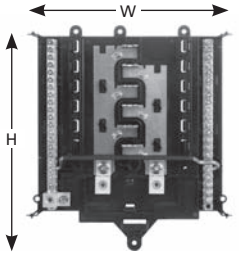
I0816ML1125CU



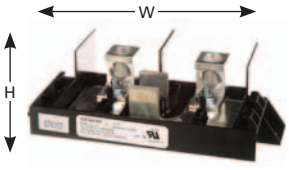
Parallel Lug



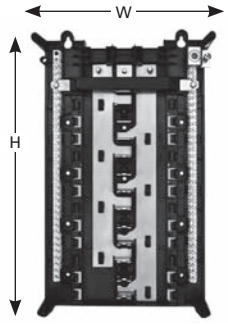
I0408ML1125



1 Phase



I0202L1200



3 Phase

[1] UL Recognized Components.
[2] The letters "CU" in any catalog number represent copper bus bars.
[3] Feed thru lugs provided.
[4] Convertible to main breaker using the MBK main breaker kits.

Load Centers

Load Center Accessories①

Ground Bar Kits (For ES and PL Load Centers)

Catalog Number	Description	Pack Qty
EC1GB8	GROUND BAR KIT-8 POS	1
EC1GB82	GROUND BAR KIT-8 POS, 2/0 LUG	1
EC2GB12	GROUND BAR KIT-12 POS	1
EC2GB122	GROUND BAR KIT-12 POS, 2/0 LUG	1
EC2GB15	GROUND BAR KIT-15 POS	1
EC2GB152	GROUND BAR KIT-15 POS, 2/0 LUG	1
EC3GB21	GROUND BAR KIT-21 POS	1
EC3GB212	GROUND BAR KIT-21 POS, 2/0 LUG	1
EC3GB27	GROUND BAR KIT-27 POS	1
EC3GB272	GROUND BAR KIT-27 POS, 2/0 LUG	1
EC3GB30	GROUND BAR KIT-30 POS	1
EC3GB302	GROUND BAR KIT-30 POS, 2/0 LUG	1
EC3GB352	GROUND BAR KIT-35 POS, 2/0 LUG	1
EC3GB352G	GROUND BAR KIT-35 POS, 2/0 LUG②	1

Ground Bar Kits (For Legacy Load Centers)

ECGB5	GROUND BAR KIT-5 POS	1
ECGB10	GROUND BAR KIT-10 POS	1
ECGB101	GROUND BAR KIT-10 POS, 1/0 LUG	1
ECGB14	GROUND BAR KIT-14 POS	1
ECGB141	GROUND BAR KIT-14 POS, 1/0 LUG	1
ECGB142	GROUND BAR KIT-14 POS, 2/0 LUG	1
ECGB20	GROUND BAR KIT-20 POS	1
ECGB201	GROUND BAR KIT-20 POS, 1/0 LUG	1
ECGB202	GROUND BAR KIT-20 POS, 2/0 LUG	1
ECINSGB5	INSULATED GROUND BAR KIT-5 POS	1
ECINSGB14	INSULATED GROUND BAR KIT-14 POS	1
ECINSGB20	INSULATED GROUND BAR KIT-20 POS	1

Hubs

ECHS000	HS TYPE CLOSURE PLATE	1
ECHS075	HS TYPE HUB - 3/4"	1
ECHS100	HS TYPE HUB - 1"	1
ECHS125	HS TYPE HUB - 1 1/4"	1
ECHS150	HS TYPE HUB - 1 1/2"	1
ECHS200	HS TYPE HUB - 2"	1
ECHS250	HS TYPE HUB - 2 1/2"	1
ECHA000	HA TYPE CLOSURE PLATE	1
ECHA075	HA TYPE HUB - 3/4'	1
ECHA100	HA TYPE HUB - 1"	1
ECHA125	HA TYPE HUB - 1 1/4"	1
ECHA150	HA TYPE HUB - 1 1/2"	1
ECHV000	HV TYPE CLOSURE PLATE	1
ECHV200	HV TYPE HUB - 2"	1
ECHV250	HV TYPE HUB - 2.5"	1
ECHV300	HV TYPE HUB 3"	1
ECHV350	HV TYPE HUB - 3.5"	1
ECHV400	HV TYPE HUB - 4"	1

Lock Kits

ECQFL2	FLUSH LOCK KIT FOR ULT., PL, ES, 3PH 100A-225A	1
ECQFL1	FLUSH LOCK KIT-REPLACEMENT FOR EQ LC	1
ECQFL3	ADD-A-LOCK (FLUSH LOCK) FOR 300-400A LC	1

Load Center Conversion Kits③④

Catalog Number	Description	Pack Qty
MBK100A	MAIN BREAKER KIT 100-125A 1PH 22K	1
MBK125A	MAIN BREAKER KIT 125A 1PH 22K	1
MBK150A	MAIN BREAKER KIT 150A-225A 1PH 22K	1
MBK200A	MAIN BREAKER KIT 200A-225A 1PH 22K	1
MBK225A	MAIN BREAKER KIT 225A 1PH 22K	1
MBK3100	MAIN BREAKER KIT 100A 3PH QP 240V 10K	1
MBK3125R	MAIN BREAKER KIT 125A 3PH 240V 10K, QR	1
MBK3150R	MAIN BREAKER KIT 150A 3PH 240V 10K, QR	1
MBK3175R	MAIN BREAKER KIT 175A 3PH 240V 10K, QR	1
MBK3200R	MAIN BREAKER KIT 200A 3PH 240V 10K, QR	1
MBK3225R	MAIN BREAKER KIT 225A 3PH 240V 10K, QR	1
MBK3125HR	MAIN BREAKER KIT 125A 3PH 240V 22K, QR	1
MBK3150HR	MAIN BREAKER KIT 150A 3PH 240V 22K, QR	1
MBK3175HR	MAIN BREAKER KIT 175A 3PH 240V 22K, QR	1
MBK3200HR	MAIN BREAKER KIT 200A 3PH 240V 22K, QR	1
MBK3225HR	MAIN BREAKER KIT 225A 3PH 240V 22K, QR	1
MBK3125HHR	MAIN BREAKER KIT 125A 3PH 240V 65K, QR	1
MBK3150HHR	MAIN BREAKER KIT 150A 3PH 240V 65K, QR	1
MBK3175HHR	MAIN BREAKER KIT 175A 3PH 240V 65K, QR	1
MBK3200HHR	MAIN BREAKER KIT 200A 3PH 240V 65K, QR	1
MBK3225HHR	MAIN BREAKER KIT 225A 3PH 240V 65K, QR	1
HMBK3125HR	MAIN BREAKER KIT 125A 3PH 240V 100K, QR	1
HMBK3150HR	MAIN BREAKER KIT 150A 3PH 240V 100K, QR	1
HMBK3175HR	MAIN BREAKER KIT 175A 3PH 240V 100K, QR	1
HMBK3200HR	MAIN BREAKER KIT 200A 3PH 240V 100K, QR	1
HMBK3225HR	MAIN BREAKER KIT 225A 3PH 240V 100K, QR	1
ECMLK125	1 PH MAIN LUG CONVERSION KIT 100-125A	1
ECMLK225	1 PH MAIN LUG CONVERSION KIT 150-225A	1
ECMLK3125	3 PH MAIN LUG CONVERSION KIT 100-125A	1
ECMLK3225	3 PH MAIN LUG CONVERSION KIT 150-225A	1

Lug Kits

ECCS1	COLLAR STRAP FOR GRD BARS #14-1/0	1
ECCS2	COLLAR STRAP FOR GRD BARS #6-250	1
ECLKB1	NEUTRAL LUG KIT WITH BOND TAB	1
ECLK3	NEUTRAL LUG KIT #1-300 FOR EQIII LC	1
ECLK1-2	NEURTAL LUG KIT #2 TO 1/0 FOR EQIII LC	1
ECLK2	NEUTRAL LUG KIT #4-2/0 FOR EQIII LC, PL, ES	1
ECLK2SC	2/0 LUG FOR 125AMP NEUTRAL FEEDER	1
ECLK2125	125A SUB FEED LUGS-USES 2 SPACES	1
ECLK2225	150A-225A SUB FEED LUGS-USES 4 SPACES	1
ECLK3225	3P SUB FEED LUGS-USES 6 SPACES	1
ECRLK250	RISER LUG KIT 250 KCMIL	3

Miscellaneous Load Center Accessories

ECCP1	PKG OF 100 CIRCUIT DIRECTORY	100
ECQF3	QP/BQ/ED2 FILLER PLATE	5
ECMBF125	1 PH 100&125A MAIN BREAKER FILLER PLATE	1
EC3PMFP1	3 POLE MAIN FILLER PLATE, QJ	1
EC3PMFPR	3 POLE MAIN FILLER PLATE, QR	1
ECSMK1	SURFACE MOUNT 1/4" SPACE KIT FOR LC'S	4
ECTS2	LC TRIM SCREWS	6
ECTS2W	LC TRIM SCREWS WHITE	6
ECLCHINGE	GREY LC HINGES	100
ECADHLCDIRLBL	ADHESIVE LC DIRECTORY LABELS	100
ECSIELATCH	SIEMENS LC LATCHES	25
ECBONDSCRW	LC BOND SCREW	10
ECSN1	SCREWS & NUTS FOR HC HUB-BOTTOM USE	4
RAG24	RISER AUX GUTTER 24"	1
ECAFL	ARC FLASH LABEL	10

Neutral Bar Kits

ECLNB14	MLO NEUTRAL BAR KIT-14 POS	1
ECCNB16	CONVERTIBLE LC NEUTRAL BAR KIT-16 POS	1
ECMLK125	1 PH MAIN LUG CONVERSION KIT 100-125A	1

① The pack quantity is the number that is sold in a pack. Items listed on this page must be ordered in multiples of pack quantities but items are priced per each. For example, ECRLK250 come 3 to a pack so must be ordered in multiples of 3 but pricing would be individual unit price times 3.

② Bar has green-colored screws.
③ QR Main Breaker Kits include a QR filler plate.
④ Main Breaker Kits include line terminal barriers.

Lug Kit, 3-Pole, Subfeed or Feed thru Applications
ECLK3225

2 PH Main Lug Conversion Kit
150A-225A
ECMLK225

Main Breaker Kit
200A - 225A, 1PH 22K
MBK200A

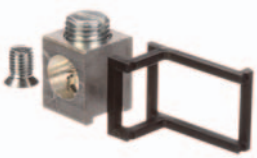
3-Pole Main Breaker Kit
MBK3200

Main Breaker Retainer Kit for EQ Load Centers
ECMBR1

Main Breaker Retainer kit for PL, ES, & Ultimate Load Centers
ECMBR2

Ground Bar Kit
20 POS. 2/0 Lug
ECGB202

Ground Bar Kit, **ECGB14**



Neutral Lug Kit**, ECLK1-2**
wire range — #2-1 AWG
Cu or Al

Neutral Lug Kit, **ECLK3**
wire range — #1-300 MCM
Neutral Lug Kit, **ECLK2**
wire range — #4-#2/0 AWG
Cu or Al

For use on Ground Bar only
Collar Strap, Wire Range;
ECCS1; ECCS2

Add-A-Lock
(Flush Lock) **ECQFL1**
For EQ load centers

Filler Plate, **ECQF3**

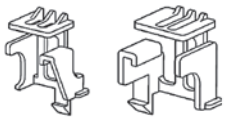
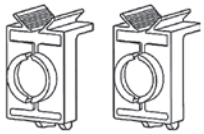
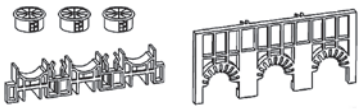
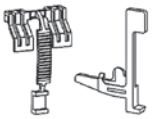
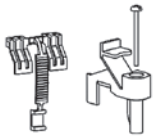
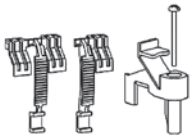
Add-A-Lock
(Flush Lock), **ECQFL2**
PL, ES, Ultimate Load Centers
and EQ III up to 225A

Add-A-Lock
(Flush Lock), **ECQFL3**
300-400A Load Centers

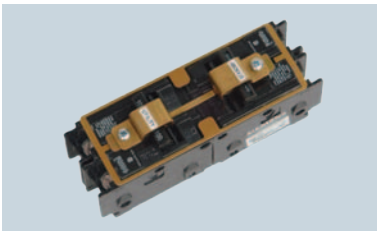
Load centers and meter combos

Touchsafe barriers are required for any single main service entrance application for a panel covered under UL 67. Line Terminal Barriers will be included in Main Breaker Load Centers and Single Main Meter Combos manufactured after January 1, 2017.

Single phase and 3-phase main breaker kits will include a barrier. Field installable kits are being created for replacements if needed and line terminal barriers are being added to hold down kits that can be used in back-fed applications. The barriers are designed to have minimal interference during load center installation, and can be removed and reattached as necessary.

	Catalog number	Description
	**ECLTB1**	For EQ Main Breakers/MBK kits 100A-125A
	**ECLTB2**	For EQ Main Breakers/MBK kits 150A-225A
	**ECLTB3**	For QN / QNR type breakers
	**ECLTB4**	For QR 3 phase breakers
	**ECMBR1**	For 2 Pole QP / MP-T type breakers for EQIII (extruded basepan) and Line 5 Load Centers
	**ECMBR2**	For 2 Pole QP / MP-T type breakers to be used with Ultimate LCs (now ES / PL), Murray or Rock Solid
	**ECMBR3**	For 3 Pole QP / MP-T type breakers to be used with PL, ES 3 phase load centers
	**ECLX387HD**	For 2 Pole MP-T type breakers in legacy Murray load centers

Convert load centers or meter combinations into standby power panels



Standard features

- UL listed for use in most Siemens load centers and meter combinations
- Suitable for use with optional standby systems in accordance with article 702 of the National Electric Code
- Corrosion resistant finish
- Easy assembly requiring no modifications to the load center or meter combination
- Remains attached to the main breakers when load center cover

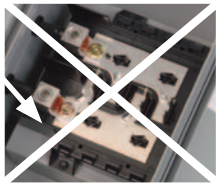
Panels in which the bussing or wire forms from the meter socket land on main lugs are not acceptable for use in standby systems because turning the main breaker to "OFF" does not prevent feedback to the utility power lines. Examples of such panels include catalog numbers that start with the following letters.

MC0606L1200*

MM0406L1*

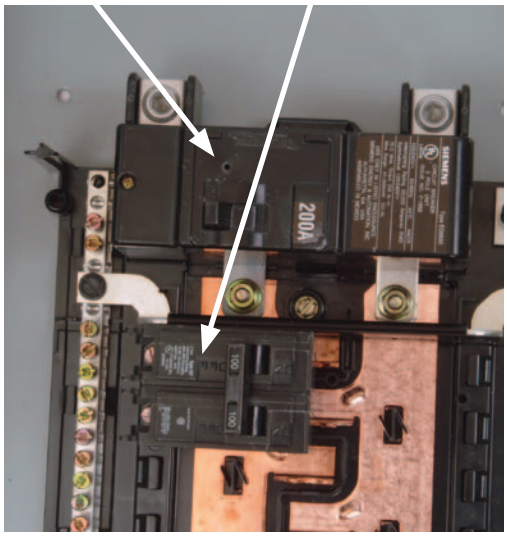
MC1212L1200*

Wire forms or bussing



Utility main breaker

Standby power main breaker



To activate standby power the utility main breaker must be in the "OFF" position to prevent dangerous feedback between the power sources.

Acceptable usage of Interlock Kits by load center/meter combination catalog numbers

ES Series Load Centers can utilize interlock kits: 1, 2, 5, 6, 7. Kits 3 and 4 can also be used on main breaker panels.

PL Series Load Centers can utilize interlock kits: 1, 2, 3, 4, 5, 6, 7.

Siemens Meter Combinations			
MC0408B1200RGA	8	MC1020B1100S	1 2
MC0408B1200RT	8	MC1224B1100EFC	2
MC0408B1200T	8	MC1224B1100ESC	2
MC0816B1150JLT	9	MC1224B1125EFC	2
MC0816B1150RCT	8	MC1224B1125ESC	2
MC0816B1150TH	5 7	MC2040B1150JLC	8
MC0816B1200CT	8	MC2040B1200JLC	8
MC0816B1200EFN	2	MC2040B1200R	5 7
MC0816B1200ESN	2	MC2040B1200RC	9
MC0816B1200EST	2	MC2040B1200RJBC	9
MC0816B1200JLT	9	MC2442S1200FC	2
MC0816B1200RCT	8	MC2442S1200SC	2
MC0816B1200RGA	8	MC3042B1200FED	3
MC0816B1200RTH	5 7	MC3042B1200JLC	8
MC0816B1200T	7	MC3042B1400FD	5 7
MC0816B1200TH	5 7	MC3042B1400SC	5 7
MC0816B1350RLTM	5	MC3042B1400SCS	5 7
MC0816B1400RLTM	5	MC3042B1400SD	5 7
MC0816B1400SCS	5 7	MC3042B1400SDS	5 7
MC1020B1100F	1 2	MC4040S1200SC	5

Numbers 1 through 9 in these tables represent the last digit in each interlock kit catalog number. Example: 1 = ECSBPK01

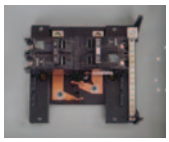
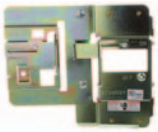
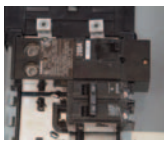
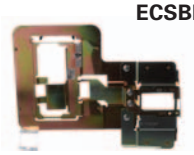
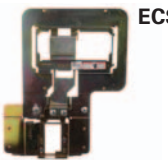
When used in horizontal positions as typical in most load centers, ECSBPK07 is recommended for use only with QNR type circuit breakers.

Standby power interlock kits are not intended for use with AFCI, GFCI, 3-pole or 1/2" frame circuit breakers and 4 space, 125 amp load centers.

Siemens type EQ load centers using a "4-pole" main breaker do not have a kit available to interlock this main to branch circuits. Branch circuit positions can be interlocked.

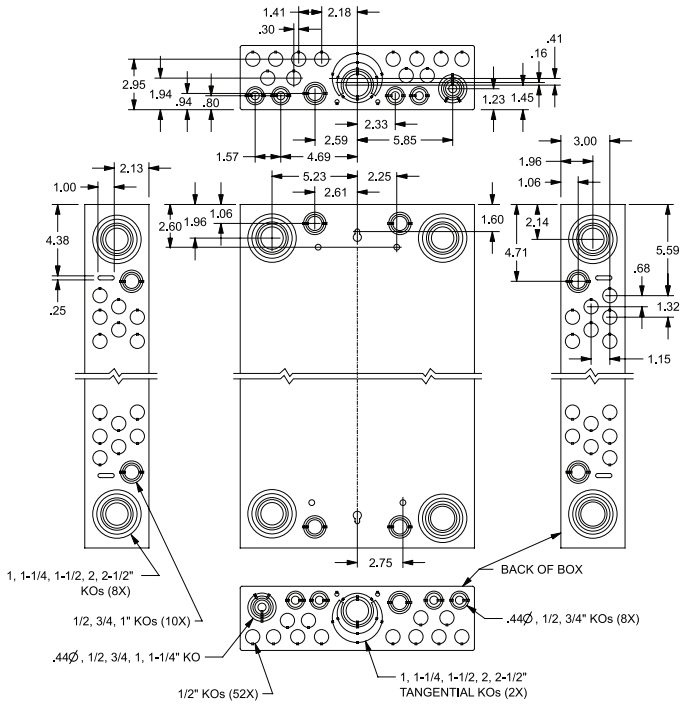
Prevents dangerous feedback between two sources of power

Manual Transfer Interlock Kits①

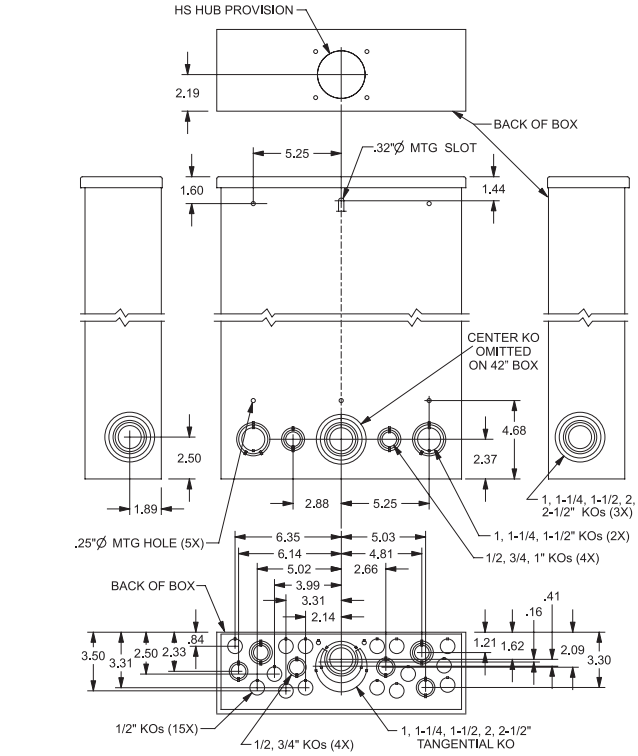
Catalog number	Usage Information	Utility main breaker types	Standby main breaker types	Interlock Number
ECSBPK01 	For use on load centers or meter combinations that will accept 2-pole circuit breakers opposite one another as shown.	QP, QPH, HQPH	QP, QPH, HQPH	1 
ECSBPK02 	For use on load centers or meter combinations that will accept 2- or 4-pole next to a 2-pole circuit breaker side by side as shown.	QP, QPH, HQPH	QP, QPH, HQPH	2 
ECSBPK03② 	For use on UltimateTM and Rock Solid load centers, 150 amp and higher, to connect the main breaker to a 2-pole circuit breaker.	MBK150A, MBK200A, OR MBK225A	QP, QPH, HQPH	3 
ECSBPK04② 	For use on Ultimate and Rock Solid load centers, 125 amp and lower, to connect the main breaker to a 2-pole circuit breaker.	MBK100A or MBK125A	QP, QPH, HQPH	4 
ECSBPK05 	For use on load centers or meter meter combinations that will accept a QNR (MD-TR) frame circuit breaker next to a 2-pole circuit breaker as shown.	QNR, QNRH, HQNR	QP, QPH, HQPH	5 
CSBPK06② 	For use on load centers or meter combinations that will accept a QN (MD-T) frame circuit breaker next to a 2-pole circuit breaker as shown.	QN, QNH, HQN	QP, QPH, HQPH	6 
ECSBPK07 	For use on load centers or meter combinations that will accept two QNR (MD--TR) circuit breakers side by side as shown OR will accept two QN (MD--T) circuit breakers side by side as shown.	QNR, QNRH, HQNR, QN, QNH, HQN	QNR, QNRH, HQNR QN, QNH, HQN	7 
ECSBPK08② 	For use on 8 space, over/under, OH/UG feed meter combinations as shown. Limited application to specific catalog numbers.	QPP, QPPH	QP, QPH, HQPH	8 
ECSBPK09② 	For use on 20 space, over/under, OH/UG feed meter combinations as shown. Limited application to specific catalog numbers.	QPP, QPPH	QP, QPH, HQPH	9 

① Manual breaker interlock kits are attached to the breakers not the trim of the load center.

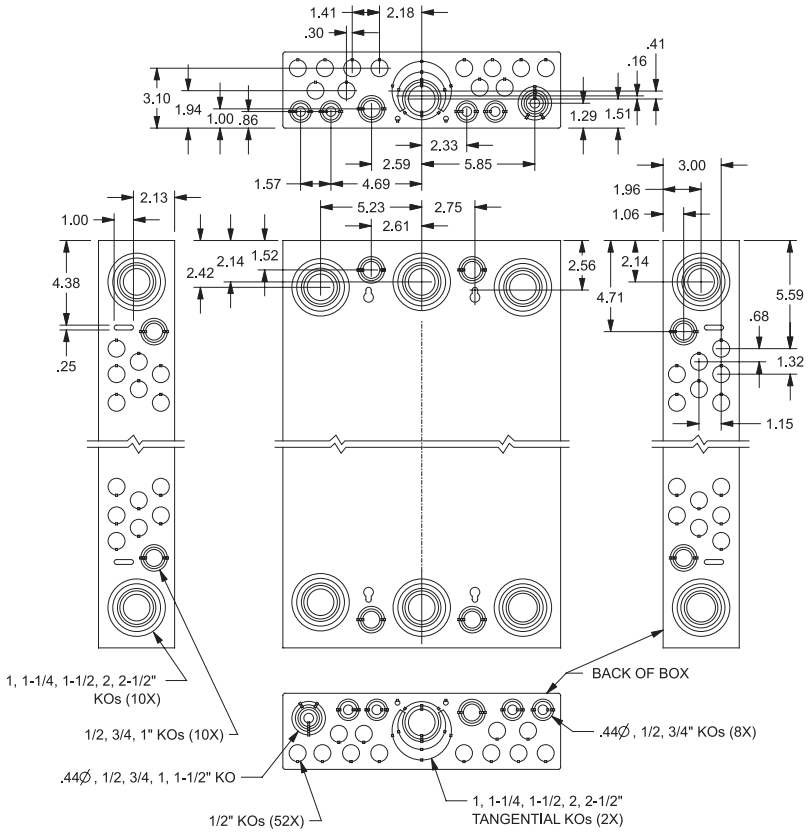
② These kits take up 2 spaces adjacent to the 2 pole breaker being interlocked. Those spaces cannot accommodate filler plates.



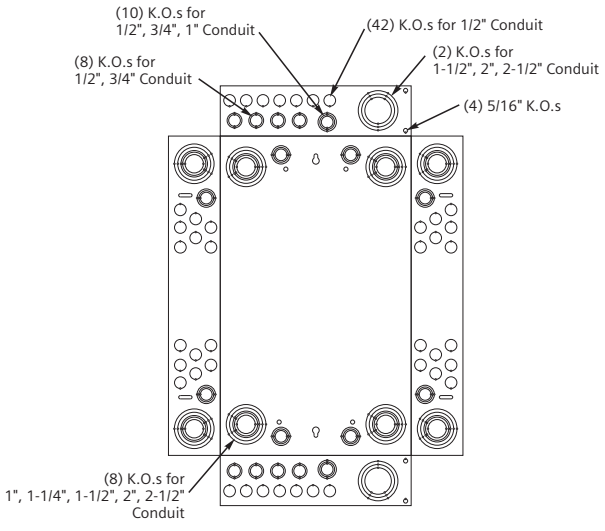
ES, PL, and Generator Ready
1 Phase Load Centers
Indoor



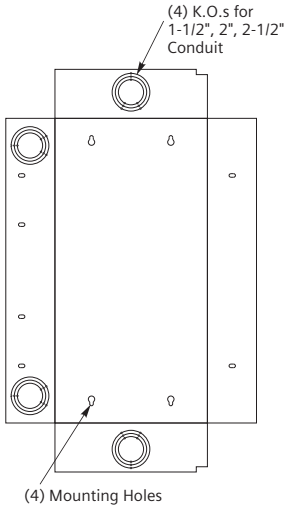
ES, PL, and Generator Ready
1 and 3 Phase Load Centers
Outdoor



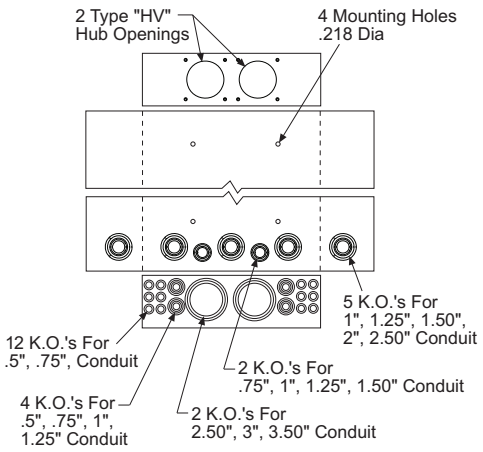
ES and PL
3 Phase Load Centers



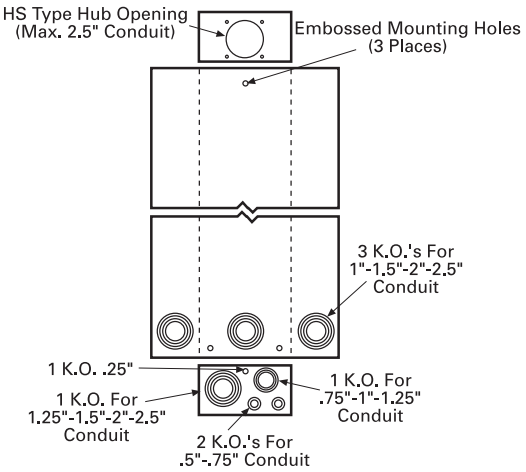
All Riser Panels



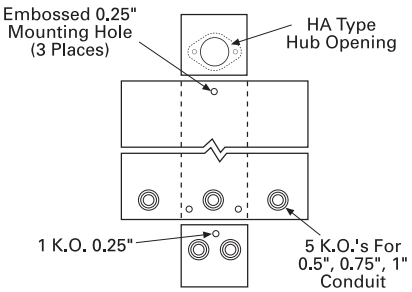
RAG24



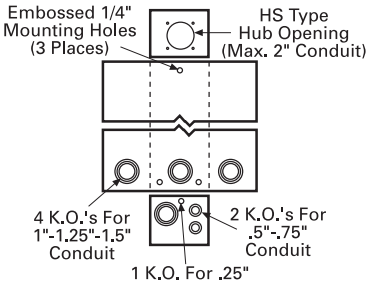
Outdoor 400A Load Center



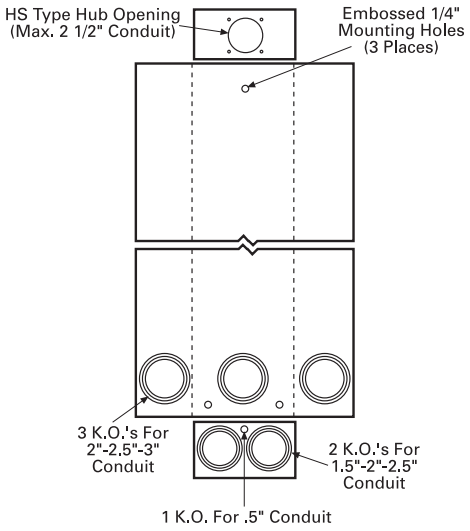
W0406ML1125CU



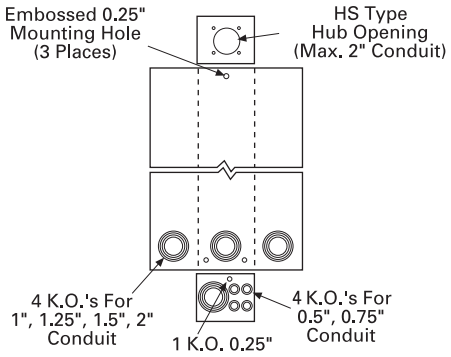
W0204ML1060



W0408ML1125



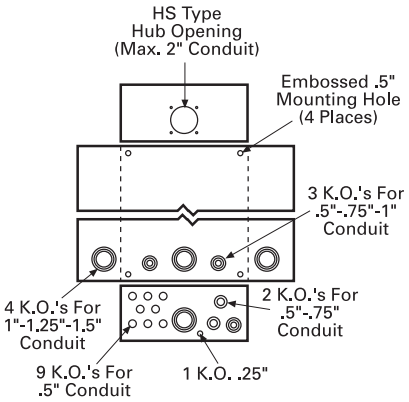
WB2225 and WB32225



W0204ML1125

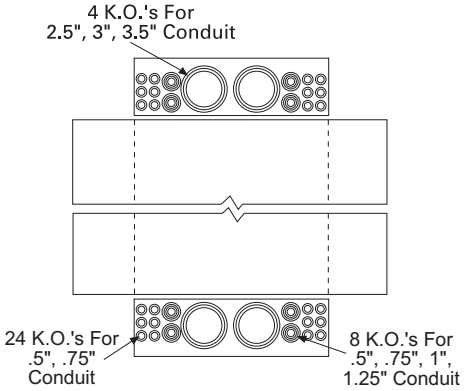
W0303ML3100

WB3100

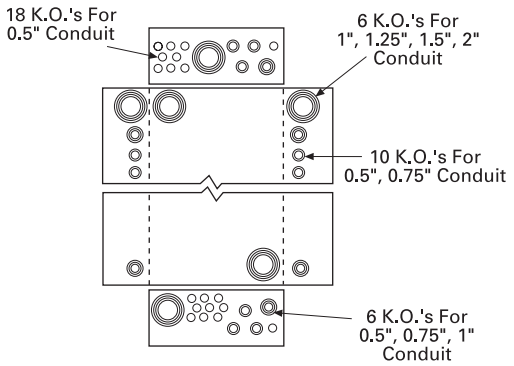


W0612ML1125

W0816ML1125



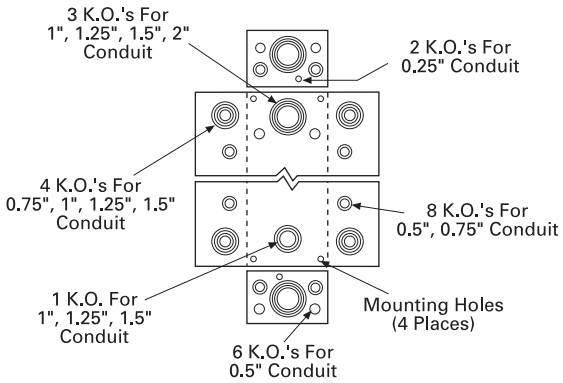
Indoor 300-400A Load Center



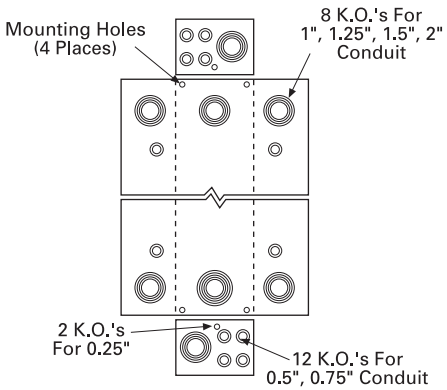
E0612ML1125

E0816ML1125

E1224ML1100F

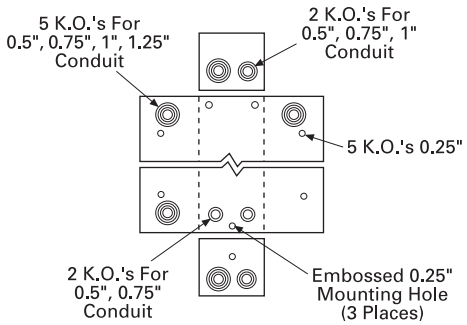


E0408ML1125



E0303ML3100SCU

EB3100



E0204ML1060

Ultimate Load Center Cross Reference to ES Series and PL Series

Phase	Type	Current Sku	ES Series	PL Series
1 Phase	Indoor	New	—	P3040L1200SG
		New	—	P4040L1200SG
		New - Higher Circuits	—	P4260L1225CUSG
		New - Higher Circuits	S3054L1200	P3054L1200CU
		New - Higher Circuits	S5470B1225	P5470B1225CU
		New - Higher Circuits	S5470L1225	P5470L1225CU
		New - Higher Circuits	SW3054L1200	PW3054L1200CU
		G1212L1125	S1212L1125	-
		G1212L1125CU	—	P1212L1125CU
		G1224B1100	S1224B1100	-
		G1224B1100CU	—	P1224B1100CU
		G1224L1125	S1224L1125	-
		G1224L1125CU	—	P1224L1125CU
		G1224L1125CUSG	—	P1224L1125CUSG
		G1224L1200CU	S1224L1200	P1224L1200CU
		G1624B1100	S1624B1100	-
		G1624B1100CU	—	P1624B1100CU
		G1624B1100W	S1624B1100W	-
		G1624L1125	S1624L1125	-
		G1624L1125CU	—	P1624L1125CU
		G1624L1125CUSG	—	P1624L1125CUSG
		G1630B1150	S1630B1150	-
		G2020B1100	S2020B1100	-
		G2020B1100CP	S2020B1100P	-
		G2020B1100CU	—	P2020B1100CU
		G2020L1125	S2020L1125	-
		G2020L1125CU	—	P2020L1125CU
		G2020L1125CUW	S2020L1125W	—
		G2030B1150	S2030B1150	—
		G2030B1150CU	—	P2030B1150CU
		G2030L1125CUSG	—	P2030L1125CUSG
		G2030L1150	S2030L1150	—
		G2030L1150CU	—	P2030L1150CU
		G2030L1150CUSG	—	P2030L1150CUSG
		G2040B1200	S2040B1200	—
		G2040B1200CU	—	P2040B1200CU
		G2040L1200	S2040L1200	—
		G2040L1200CU	—	P2040L1200CU
		G2424B1100CU	—	P2424B1100CU
		G2424B1125	S2424B1125	—
		G2424L1125	S2424L1125	—
		G2424L1125W	S2424L1125W	—
		G2430B1150	S2430B1150	—
		G2430L1125CUSG	—	P2430L1125CUSG
		G2440B1200	S2440B1200	—
		G2440L1125CU	S2440L1125	P2440L1125CU
		G2440L1200	S2440L1200	—
		G2440L1200CU	—	P2440L1200CU
		G3030B1100CU	S3030B1100	P3030B1100CU
		G3030B1150	S3030B1150	—
		G3030B1150CU	—	P3030B1150CU
		G3030L1200	S3030L1200	—
		G3030L1200CU	—	P3030L1200CU
		G3030L1200W	S3030L1200W	—
		G3040B1200	S3040B1200	P3040B1200
		G3040B1200CP	S3040B1200P	—
		G3040B1200CU	—	P3040B1200CU
		G3040L1125CU	—	P3040L1125CU
		G3040L1125CUW	S3040L1125W	—
		G3040L1200	S3040L1200	P3040L1200
		G3040L1200CP	S3040L1200P	—
		G3040L1200CU	—	P3040L1200CU
		G3040L1200CUSG	—	P3040L1200CUSG
		G4040B1200	S4040B1200	P4040B1200
		G4040B1200CP	S4040B1200P	—
		G4040B1200CU	—	P4040B1200CU
		G4040B1200W	S4040B1200W	P4040B1200W
		G4040L1125CU	S4040L1125	P4040L1125CU
		G4040L1200	S4040L1200	P4040L1200
		G4040L1200CU	—	P4040L1200CU
		G4040L1200CUSG	—	P4040L1200CUSG
		G4242B1225CU	S4260B1225	P4260B1225CU
		G4242L1225CU	S4260L1225	P4260L1225CU
		G2020B1100SP	S2024B1100	P2024B1100CU
		G2020L1125SP	S2020L1125G	—
		G2024L1125SP	S2024L1125/S2024L1125G	P2024L1125CU
		G2424L1125SP	S2424L1125G	—
		G3030B1125CU	S3030B1125	P3030B1125CU
		G3040L1125	S3040L1125/S3040L1125G	—
		G4040B1200CUSG	—	P4040B1200CUSG

Ultimate Load Center Cross Reference to ES Series and PL Series

Phase	Type	Current Sku	ES Series	PL Series
1 Phase	Outdoor	W0816B1200CT	SW0816B1200T	PW0816B1200TC
		W0816L1200CT	SW0816L1200T	PW0816L1200TC
		W1212L1125CU	SW1212L1125	PW1212L1125CU
		W1224B1100CU	SW1224B1100	PW1224B1100CU
		W1224L1125CU	SW1224L1125	PW1224L1125CU
		W1224L1200CU	SW1224L1200	PW1224L1200CU
		W1224L1225CU	SW1224L1225	PW1224L1225CU
		W1624B1100CU	SW1624B1100	PW1624B1100CU
		W1624L1125CU	SW1624L1125	PW1624L1125CU
		W2020B1100CU	SW2020B1100	PW2020B1100CU
		W2030L1150CU	SW2030L1150	PW2030L1150CU
		W2040B1200CU	SW2040B1200	PW2040B1200CU
		W2040L1200CU	SW2040L1200	PW2040L1200CU
		W2424L1125CU	SW2424L1125	—
		W3040B1200CU	SW3040B1200	PW3040B1200CU
		W3040L1125CU	SW3040L1125	PW3040L1125CU
		W3040L1200CU	SW3040L1200	PW3040L1200CU
		W4040B1200CU	SW4040B1200	PW4040B1200CU
		W4040L1200CU	SW4040L1200	PW4040L1200CU
		W4242B1225CU	SW4260B1225	PW4260B1225CU
		W4242L1225CU	SW4260L1225	PW4260L1225CU
3 Phase	Indoor	New	S4242B3150	—
		New – Higher Circuits	—	P5470B3225CU
		New – Higher Circuits	S5470L3225	P5470L3225CU
		G1224L3125CU	S1224L3125	P1224L3125CU
		G1224L3200CU	S1224L3200	—
		G1836L3150CU	S1836L3150	—
		G2442B3150CU	S2442B3150	P2442B3150CU
		G2442B3150CU22	—	P2442B3150CU
		G2442L3150CU	S2442L3150	—
		G2442L3200CU	S2442L3200	P2442L3200CU
		G3030B3100CU	S3030B3100	P3042B3100CU
		G3030B3100CU22	—	P3042B3100CU
		G3042B3200CU	S3054B3200	P3054B3200CU
		G3042L3200CU	S3054L3200	P3054L3200CU
		G4242B3200CU	S4260B3200	P4260B3200CU
		G4242B3225CU	S4242B3225	P4260B3225TCU/ P4260B3225CU
		G4242L3225CU	S4260L3225	P4260L3225CU
	Outdoor	W1224L3125CU	SW1224L3125	PW1224L3125CU
		W1224L3200CU	SW1224L3200	—
		W1836L3150CU	SW1836L3150	—
		W2442B3150CU	SW2442B3150	—
		W2442L3150CU	SW2442L3150	—
		W2442L3200CU	SW2442L3200	PW2442L3200CU
		W3042B3200CU	SW3054B3200	PW3054B3200CU
		W3042B3200CU22	—	PW3054B3200CU
		W3042L3200CU	SW3054L3200	PW3054L3200CU
		W4242B3200CU	SW4260B3200	PW4260B3200CU
		W4242B3200CU22	—	PW4260B3200CU
		W4242B3225CU	SW4242B3225	PW4260L3225CU
		W4242L3225CU	SW4260L3225	—

Arc-Fault Circuit Interrupters (AFCI)

AFCI's detect arcing faults (an unintentional arcing condition in a circuit) that standard circuit breakers are unable to detect. The device is intended to mitigate the effects of arcing faults by functioning to de-energize the circuit when an arc-fault is detected.

Combination Type AFCI

Detects all three possible types of arc faults: line-to-ground, line-to-neutral, and series.

Breaker Type	Ampere Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.	65,000 A IR Catalog No.
QAF2/QAFH2/HQAF2 **1-Pole 120V AC**	15 20	QA115AFC ①② QA120AFC ①②	QA115AFCH ① QA120AFCH ①	QA115AFCHH■ ① QA120AFCHH■ ①
QAF/QAFH **2-Pole 120/240V AC**	15 20	Q215AFC ①② Q220AFC ①②	Q215AFCH■ ① Q220AFCH■ ①	— —

Branch-Feeder AFCI

Detects line-to-ground and line-to neutral arcs.

QAF2/QAFH2/HQAF2 **1-Pole 120V AC**	15 20	QA115AF ① QA120AF ①	QA115AFH■ ① QA120AFH■ ①	QA115AFHH■ ① QA120AFHH■ ①

NEW Dual Function AFCI/GFCI

The Dual Function Circuit Breaker combines Combination Type AFCI and GFCI, protecting against both Arc Faults and (5mA) Ground Faults. The device includes the Self Test feature, making it the first in class in electrical safety for homeowners.

QFGA2/QFGAH2/ HQFGA2 **1-Pole 120V AC**	15 20	Q115DF ①② Q120DF ①②	Q115DFH■ ① Q120DFH ①	Q115DFHH■ ① Q120DFHH■ ①

Ground-Fault Circuit Interrupters (GFCI)

Provides Class A (5mA) ground fault protection. Intended for personnel protection. Includes Self Test as an added safety feature.

Breaker Type	Amp Rating	10,000 A IR Catalog No.	22,000 A IR Catalog No.	65,000 A IR Catalog No.
QPF2/QPHF2/HQPF2 **1-Pole 120V AC Plug-in**	15 20 30	QF115A①② QF120A①② QF130A①	QF115AH■① QF120AH■① QF130AH■①	QF115AHH■① QF120AHH■① QF130AHH■①
QPF/QPHF **2-Pole 120/240V AC Plug-in**	15 20 30 40 50 60	QF215A QF220A QF230A QF240A QF250A QF260A	QF215AH■ QF220AH■ QF230AH■ QF240AH■ QF250AH■ QF260AH■	— — — — — —

Ground Fault Equipment Protection (30mA)

Provides protection of equipment from damaging line-to-ground faults currents. De-energizes the circuit for all ungrounded conductors of the circuit.

QE/QEH **1-Pole 120V AC Plug-in**	15 20 30	QE115 QE120 QE130	QE115H■ QE120H■ QE130H■	— — —
QE/QEH **2-Pole 120/240V AC Plug-in**	15 20 30 40 50 60	QE215 QE220 QE230 QE240 QE250 QE260	QE215H■ QE220H■ QE230H■ QE240H■ QE250H■ QE260H■	— — — — — —

QAF2/QPF/QE/QPF2 Accessories

Description	Catalog Number①
Padlocking Device 1-Pole	**ECPLD1**
Padlocking Device 2-Pole	**ECPLD2**
Handle Block	**ECBX231M**

■ Built to order. Allow 8 -10 weeks for delivery.
① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.
② Add WG to the part number for the WireGuide version.

• UL Listed • HACR Rated


1-Pole Combination Type AFCI


2-Pole Combination Type AFCI


1-Pole Branch Feeder AFCI


1-Pole Dual Function AFCI/GFC

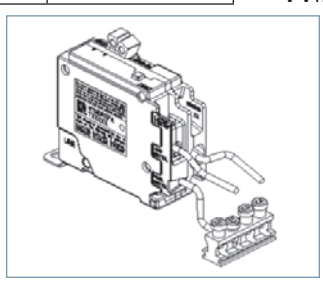

1-Pole GFCI

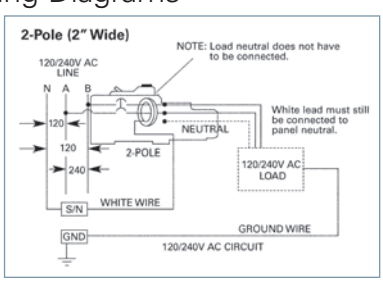

2-Pole GFCI


1-Pole Equipment Protection


2-Pole Equipment Protection

Wiring Diagrams





Two state-of-the-art technologies combined in one device!
Dual Function Circuit Breakers: **QFGA2/QFGAH2/HQFGA2**

Introducing the Dual Function Circuit Breaker that provides Arc Fault and Ground Fault protection in one device. The 2014 National Electric Code requires Arc Fault protection on Kitchen and Laundry circuits where Ground fault protection is currently a requirement. One solution to meet this code is to pair an AFCI circuit breaker with a GFCI receptacle. The Dual function breaker will replace the Arc fault breaker and the Ground Fault receptacle. Additionally, the breaker will help eliminate the use of two separate devices and improve cost savings.

Features

- Plug-in or bolt-on branch circuit breakers for Siemens single phase load centers
- Self Test feature as required by UL 1699 effective June 2015
- Saving time – ease of installation – only One product to install vs. Two
- Saving money – Two safety devices combined into One.
- LED trip indicator – a Siemens exclusive!
- Available with interrupting rating of 10kA, 22kA or 65kA
- UL Listed
- Torque rating: 25 lb. in.
- Padlocking device available, use catalog number ECPLD1
- Both lugs at the same angle - for easier wiring

1-Pole Dual Function Circuit Breaker

Continuous Current Rating @ 40° C	Type QP① 10,000A IR Catalog Number	Type QPH 22,000A IR Catalog Number	Type HQP 65,000A IR Catalog Number
1-Pole Plug-In (120V AC)⑤			
10	Q110⑨	—	—
15	Q115③	Q115H③	Q115HH■③
20	Q120③	Q120H③	Q120HH■③
25	Q125	Q125H■	Q125HH■
30	Q130	Q130H	Q130HH■
35	Q135■	Q135H■	Q135HH■
40	Q140	Q140H	Q140HH■
45	Q145■	Q145H■	Q145HH■
50	Q150	Q150H	Q150HH■
60	Q160	Q160H■	Q160HH■
70	Q170	Q170H■	Q170HH■
2-Pole Plug-In (Common-Trip 120/240V AC)⑥			
10	Q210⑨	—	—
15	Q215	Q215H	Q215HH
20	Q220	Q220H	Q220HH
25	Q225	Q225H■	Q225HH■
30	Q230	Q230H	Q230HH
35	Q235	Q235H■	Q235HH■
40	Q240	Q240H	Q240HH■
45	Q245	Q245H■	Q245HH■
50	Q250	Q250H	Q250HH
60	Q260	Q260H	Q260HH
70	Q270	Q270H	Q270HH
80	Q280	Q280H■	Q280HH■
90	Q290	Q290H	Q290HH■
100	Q2100	Q2100H	Q2100HH
110	Q2110	Q2110H	Q2110HH■
125	Q2125	Q2125H	Q2125HH
2-Pole Plug-In (Common-Trip 240V AC)④⑥			
15	Q215R	—	—
20	Q220R	—	—
30	Q230R	—	—
40	Q240R	—	—
50	Q250R	—	—
3-Pole Plug-In (Common-Trip 240V AC)⑦			
15	Q315	Q315H	Q315HH■
20	Q320	Q320H	Q320HH
25	Q325	Q325H■	Q325HH■
30	Q330	Q330H	Q330HH
35	Q335	Q335H■	Q335HH■
40	Q340	Q340H	Q340HH
45	Q345	Q345H■	Q345HH■
50	Q350	Q350H	Q350HH
60	Q360	Q360H	Q360HH
70	Q370	Q370H	Q370HH■
80	Q380	Q380H	Q380HH■
90	Q390	Q390H	Q390HH■
100	Q3100	Q3100H	Q3100HH

Q120

Q220

Q320

QP / QPH / HQP Internal Accessories

Control Voltage AC	Catalog Number	Field/Factory Installed
120V Shunt Trip	add suffix …00S01■	Factory
24V Shunt Trip	add suffix …00S07■	Factory
120V Auxiliary Switch	add suffix …01■②	Factory

Modifications

Description	Catalog Number
400 Hz Calibration	add suffix …Y⑧
Marine 50°C Ambient Calibration	add suffix …M
Fungus Proofing	add suffix …F

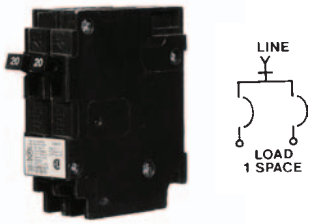
For external accessories please refer to page 1-43.

■ Built to order. Allow 2-3 weeks for delivery.

① UL Listed for use with 60/75° wire through 40 amps, UL listed for use with 75° wire only for 50 amps and above, HACR rated.
② 1A and 1B contacts.
③ UL Listed for frequent switching applications (SWD). 120V AC Fluorescent Lighting.
④ UL Listed for use on 3-phase grounded "B" systems — 10,000 for this application.
⑤ Shipped 12 per sleeve.
⑥ Shipped 6 per sleeve.
⑦ Shipped 4 per sleeve.
⑧ UL Listed 5 KA IR.
⑨ Type QP1, UL listed for 16 AWG conductors and multiple wires.

Duplex Circuit Breakers

Breaker Type	Ampere Rating	Catalog Number	Catalog Number
QT **1-Pole** **10K AIC** **120V AC**	15–15	**Q1515**	**Q1515NC**①
	15–20	**Q1520**	**Q1520NC**①
	20–20	**Q2020**	**Q2020NC**①
	20–30	**Q2030**	—
	30–15■	**Q3015**	—
	30–20	**Q3020**	—
	30–30	**Q3030**	**Q3030NC**①
	SHIPPING: 12 per carton, (Wt. 4.8 lbs.)		

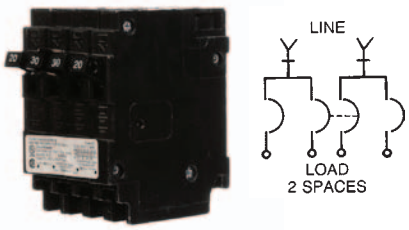


QT Duplex

These space saver duplex breakers combine two independent 1/2" breaker poles in a common unit. This unit plugs into one load center stab and requires one panel space. HACR rated.

Triplex Circuit Breakers

Breaker Type	Ampere Rating: Single Pole	Ampere Rating: Common-Trip 2-Pole	Catalog Number
QT **2-Pole** **10K AIC** **120/240V AC** **Inner Poles** **Common Trip**	15	15	**Q21515CT**
	15	20	**Q21520CT**
	15	25	**Q21525CT**■
	15	30	**Q21530CT**
	15	35	**Q21535CT**■
	15	40	**Q21540CT**
	15	45	**Q21545CT**■
	15	50	**Q21550CT**
	20	20	**Q22020CT**
	20	25	**Q22025CT**■
	20	30	**Q22030CT**
	20	35	**Q22035CT**■
	20	40	**Q22040CT**
	20	45	**Q22045CT**■
	20	50	**Q22050CT**
	30	30	**Q23030CT**
	SHIPPING: 6 per carton, (Wt. 4.9 lbs.)		

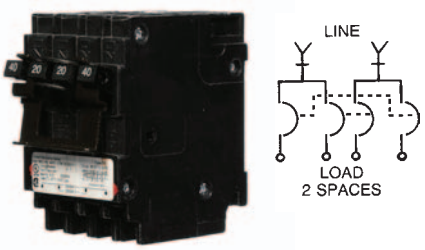


QT Triplex

These space saver triplex breakers provide a 2-pole common trip breaker for 120/240V AC circuits and two single poles for 120V AC circuits. Triplex require two panel spaces. HACR rated.

Quadplex Circuit Breakers

Breaker Type	Ampere Rating: Common-Trip 2-Pole Outside	Ampere Rating: Common-Trip 2-Pole Inside	Catalog Number
QT **2-Pole** **10K AIC** **120/240V AC** **Inner and** **Outter 2 Poles** **Common Trip**	15	15	**Q21515CT2**
	15	30	**Q21530CT2**
	20	20	**Q22020CT2**
	20	50	**Q22050CT2**
	30	20	**Q23020CT2**
	30	25	**Q23025CT2**
	30	30	**Q23030CT2**
	30	50	**Q23050CT2**
	40	20	**Q24020CT2**
	40	30	**Q24030CT2**
	40	40	**Q24040CT2**
	SHIPPING: 6 per carton, (Wt. 4.8 lbs.)		



QT Quadplex

These space saver quadplex breakers provide two sets of common trip, two-pole breakers for 120/240V AC circuits, and require two panel spaces. HACR rated.

For external accessories, please refer to page 1-43.

For inches / millimeters conversion, see Application Data section.

■ Built to order. Allow 2–3 weeks for delivery.

① Non-CTL. For replacement use only in panels manufactured before 1968

HID Lighting

For high-intensity discharge lamp loads having in-rush currents above the instantaneous trip setting of a standard breaker.

Breaker Type	Wiring Diagram	Complete Breaker UL Unenclosed	
		Ampere Rating	Catalog Number
QP 1-Pole 120V AC	Figure 1	15	Q115HID①■
		20	Q120HID①
		30	Q130HID
QP 2-Pole 120/240V AC	Figure 2	15	Q215HID
		20	Q220HID■
		30	Q230HID■

Molded Case Switch

For applications that do not require overcurrent protection.

QP 1-Pole 120V AC	Figure 1	100	Q1100S
QP 2-Pole 120/240V AC	Figure 2	30 50 60 125	Q230S Q250S Q260S Q2125S

No-Noise

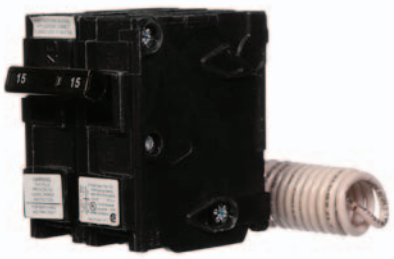
For applications that require a reduction in the 60-cycle hum of a standard breaker.

QP 2-Pole 120/240V AC	Figure 2	50 60	Q250NN■ Q260NN

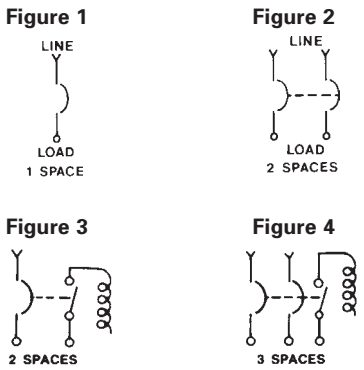
Switching Neutrals

Used where all conductors are required to be disconnected. Neutral pole of the circuit breaker does not connect to load center bus. One side is wired to neutral and the other side to the device.

QG 2-Wire Common Trip 120V AC	Figure 3	15 20	QG215 QG220
QG 3-Wire Common Trip 120/240V AC	Figure 4	20	QG320



Switching Neutral



Wiring Diagrams

■ Built to order. Allow 2–3 weeks for delivery.
Note: All circuit breakers on this page are 10K AIC

① UL Listed as SWD (Switching Duty) Rated, suitable for 120V AC Fluorescent Lighting.

Features

- 3/4" format
- HACR Rated
- UL Classified for use in certain Square D load centers

Type QD Circuit Breakers

The Type QD circuit breaker line is available in 1-pole and 2-pole common trip versions listed on this page.

The circuit breakers are UL Classified and UL Listed.

All QD breakers are supplied with load side connectors suitable for 60/75°C wire and are calibrated for 40°C maximum ambient applications.

UL Classified

Siemens Type QD circuit breakers are UL Classified for use in specific Square D load centers in place of Square D Type QO® circuit breakers. A Panelboard Compatibility List packaged with each QD breaker shows which type QD circuit breakers are acceptable for use in Square D load centers.

The interrupting rating on these circuit breakers is 10,000A IR maximum and they are ***not*** series rated with Square D circuit breakers or equipment. This UL Classification allows a Siemens Type QD circuit breaker to be used in place of a Square D Type QO circuit breaker in those load centers that are specifically shown on the Panelboard Compatibility list. For additional information, contact your local Siemens sales engineer.

D120

D220

Continuous Current Rating @ 40°C	1-Pole	2-Pole
	120V	120/240V Common Trip
	Catalog Number	Catalog Number
15	D115①	D215
20	D120①	D220
30	D130	D230
40	D140	D240
50	D150	D250
60	D160	D260

Shipping Weights

Number of Poles	Number Per Carton	Shipping Weight (lbs.)
1	16	3.8
2	8	4.2

Panelboard Compatibility List

Listed Panelboards—Square D—Catalog Numbers

QO2L30F/S	QO12M100/RB	QO120-30M150/RB	QO130-40M200
QO2-4L70F/S	QO16-20M100/RB	QO124L150G	QO130M200/RB
QO2-4L70TS	QO16M100/RB	QO124M150	QO130-40L200G/RB
QO2-4L70RB	QO20M100/RB	QO130L150G/RB	QO140M200/RB
QO6-12L100F/S	QO112L125G/RB	QO130M150/RB	QO16L200/RB
QO6-12L100DF/S	QO112-24L125G/RB	QO16L150/RB	QO16M200/RB
QO6-12L100TF/S	QO112-24L125GWGC	QO16M150/RB	QO18-16M200FTRB
QO6-12L100DTF/S	QO116L125G	QO16-30L150/RB	QO20-40L200/RB
QO6-12L100RB	QO116-24L125G/RB	QO18-16M150FTRB	QO20-40M200TF/S
QO8-16L100F/S	QO12-24L125/RB	QO20-30M150/RB	QO20-40M200/RB
QO8-16L100DF/S	QO120-24L125G	QO20-30M150TF/S	QO24L200/RB
QO8-16L100TF/S	QO120-24L125GWGC	QO20-30L150	QO24M200/RB
QO8-16L100DTF/S	QO120L125G	QO24L150/RB	QO30L200/RB
QO8-16L100RB	QO124L125G/RB	QO24M150/RB	QO30M200/RB
QO112M100/RB	QO124M125/RB	QO30L150/RB	QO30-40L200/RB
QO116M100/RB	QO16L125/RB	QO30M150/RB	QO30-40M200/RB
QO120M100/RB	QO16-12M125FTRB	QO8-16M200FT/RB	QO40M200/RB
QO124M100	QO16-24L125/RB	QO112L200G/RB	QO140M225
QO12L100DF/S	QO20L125/RB	QO120-40M200/RB	QO142L225G/RB
QO12L100RB	QO20-24L125/RB	QO120-40M200TC	
QO12-20M100/RB	QO24L125/RB	QO124M200	
QO12-20M100TF/S	QO120-30L150G	QO130L200G/RB	

For inches / millimeters conversion, see Application Data section.

① UL Listed for frequent switching applications (SWD). 120V AC Fluorescent Lighting. One or two load conductors.

Circuit Breakers

Main and Branch Circuit Breakers①

Breaker Type	Ampere Rating	Catalog Number	Catalog Number	UL Interrupting Ratings (kA)
QN 2-Pole 120/240V AC	150	QN2150	QN2150R②	10
	175	QN2175■	QN2175R②■	10
	200	QN2200	QN2200R②	10
QNH 2-Pole 120/240V AC	150	QN2150H	QN2150RH②	22
	175	QN2175H■	QN2175RH②■	22
	200	QN2200H	QN2200RH②	22
HQN 2-Pole 120/240V AC	150	HQN2150	HQN2150R②	65
	175	HQN2175■	—	65
	200	HQN2200	HQN2200R②	65

Requires 4 panel spaces, 2 adjacent and 2 opposite. **SHIPPING:** 1 per carton (Wt. 3 lbs.)

QNR⑤ QN⑤

Main Breaker Kits

For use in PL, ES, and Ult Load Centers④			For use in EQIII Load Centers			
UL Type	Ampere Rating	Catalog Number	UL Type	Ampere Rating	Catalog Number	UL Interrupting Ratings (kA)
EQ8681	100	MBK100A	EQ9675	100	MBK100	22
EQ8682	125	MBK125A	EQ9677	125	MBK125	22
EQ8693	150	MBK150A	EQ9683	150	MBK150	22
—	—	—	EQ9684	175	MBK175■	22
EQ8695	200	MBK200A	EQ9685	200	MBK200	22
EQ8696	225	MBK225A	EQ9686	225	MBK225	22

EQ9675

Breaker Type	Ampere Rating	Catalog Number	UL Interrupting Ratings (kA)
QPJ③ 3-Pole 240V AC	125	QPJ3125	10
	150	QPJ3150	10
	200	QPJ3200	10

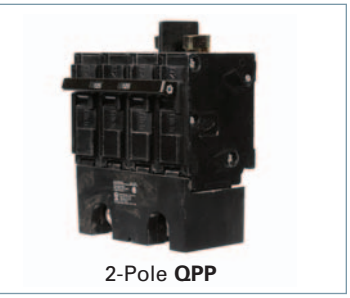
Requires 6 spaces due to cross over design. Fits only EQIII 125-400A 3-phase load centers

SHIPPING: 5 per carton (Wt. 17 lbs.)

MBK (100,125)A MBK (150,200,225)A

Breaker Type	Ampere Rating	Catalog Number	UL Interrupting Breaker Ratings (kA) Volts AC 120/240
QPP 2-Pole 120/240V AC	125	Q2125B	10
	150	Q2150B	10
	175	Q2175B■	10
	200	Q2200B	10
	225	Q2225B	10
QPPH 2-Pole 120/240V AC	125	Q2125BH	22
	150	Q2150BH	22
	175	Q2175BH■	22
	200	Q2200BH	22
	225	Q2225BH■	22
HQPP 2-Pole 120/240V AC	125	Q2125BHH■	65
	150	Q2150BHH	65
	175	Q2175BHH■	65
	200	Q2200BHH	65
	225	Q2225BHH■	65
HQPPH 2-Pole 120/240V AC	100	HQ2100BH■	100
	125	HQ2125BH■	100
	150	HQ2150BH■	100
	175	HQ2175BH■	100
	200	HQ2200BH■	100
	225	HQ2225BH■	100

QPJ

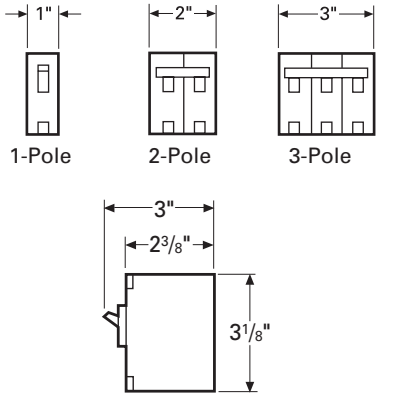


2-Pole QPP

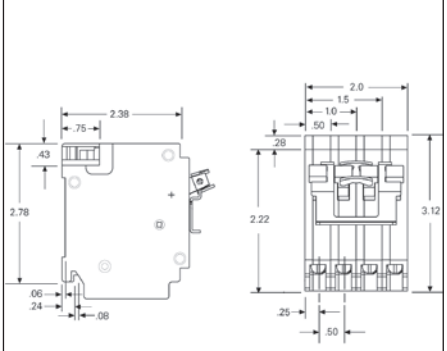
For inches / millimeters conversion, see Application Data section.
■ Built to order. Allow 2–3 weeks for delivery.

① All circuit breakers on this page are common trip.
② Reverse handle.
③ CSA Listed.
④ MBK100A for use in 100 and 125A load centers.
MBK125A for use in 125A load centers.
MBK150A for use in 150, 200 and 225A load centers.
MBK200A for use in 200 and 225A load centers.
MBK225A for use in 225A load centers.
MBK175A for use in 200 and 225A load centers.

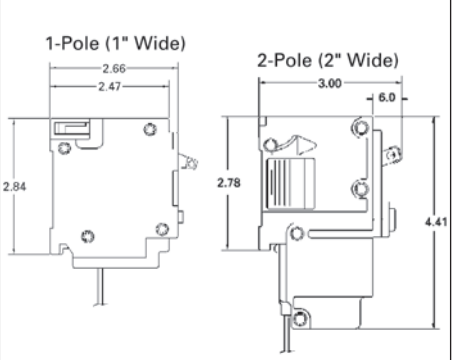
⑤ QNR required for horizontal applications or vertical applications where the lugs are facing up. The QN breaker is required for vertical applications where the lugs are facing down as shown.



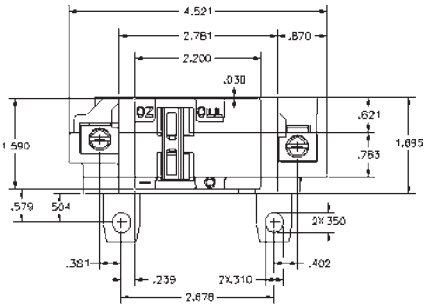
QP, QPH, HQP



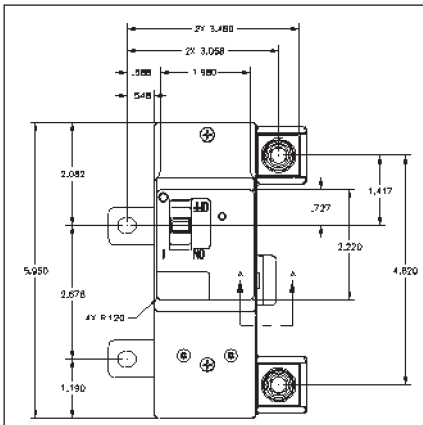
Type **QT**



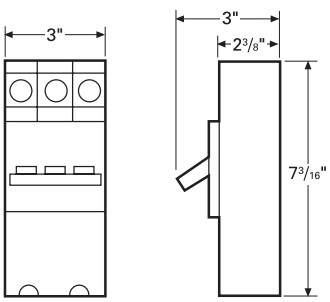
Type **QPF, QPHF, QE, QAF2, QAF2H**



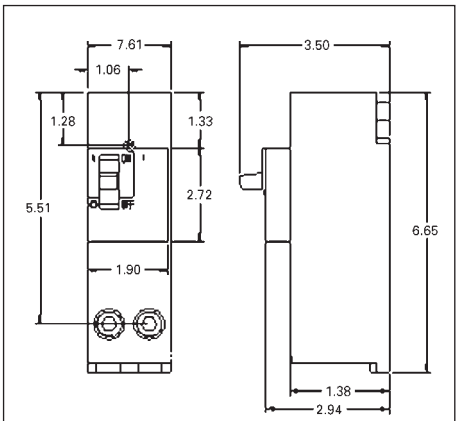
Type **EQ8681, EQ8682**



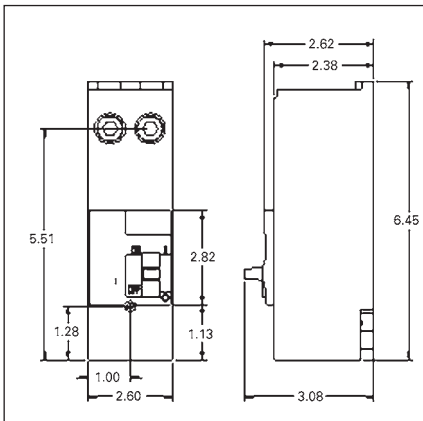
Type **EQ8693, EQ8695, EQ8696**



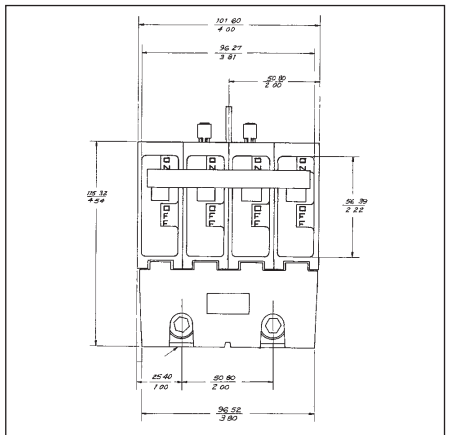
Type **QPJ**



Type **QN, QNH, HQN**



Type **QNR, QNRH, HQNR**



Type **QPP, QPPH, HQPP, HQPPH**

① All standard circuit breakers are calibrated to 40°C maximum ambient application.

Circuit Breaker Type	Circuit Breaker Ampere Rating	Cables Per Connector	Connector Wire Range
	LOAD SIDE		
QP, QPH, HQP, Plug-in	10	2	#14-#16 AWG Cu
	15–35	1 1	#14–#6 AWG Cu #14–#6 AWG Al
	40–50	1 1	#8–#6 AWG Cu #8–#4 AWG Al
	55-125	1 1	#8-#2/0 AWG Cu #8-#2/0 AWG Al
QP 1 & 2-Pole Only	55-60	1	#6-#4 AWG Cu-Al (#3 AWG compatible with QPH & HQP)
QT	15–35	1 1	#14–#6 AWG Cu #14–#6 AWG Al
	40	1	#8 AWG CU-Al
	40–50	1 1	#8–#6 AWG Cu #8–#4 AWG Al
QPF, QPHF	15–30	1 1	#14–#10 AWG Cu #12–#8 AWG Al
	40–60	1 1	#8–#6 AWG Cu #8–#4 AWG Al
QAF2, QAFH2, QFGA2, QFGAH2	15–20	1 1	#14–#12 AWG Cu #12–#10 AWG Al
QD	15–20	2	#14–#8 AWG Cu Only
	15–20	1 1	#14–#12 AWG Cu #12–#10 AWG Al
	25–35	1 1	#10–#8 AWG Cu #10–#6 AWG Al
	40–60	1 1	#8–#6 AWG Cu #8–#4 AWG Al
QN, QNH, HQN	150–200	1	#1–300kcmil Cu-Al
QS, QSH, QSHH, HQS, HQSH	100–225	1	#3–300kcmil Cu-Al
EQ8681-Ultimate, PL, ES	100	1	#4–3/0 AWG Cu-Al
EQ8682-Ultimate, PL, ES	125	1	#4–3/0 AWG Cu-Al
EQ8693-Ultimate, PL, ES	150	1	#1–300kcmil Cu-Al
EQ8695-Ultimate, PL, ES	200	1	#1–300kcmil Cu-Al
EQ8696-Ultimate, PL, ES	225	1	#1–300kcmil Cu-Al
QPP, QPPH, HQPP, HQPPH	125	1 1	#1 AWG Cu #2/0 AWG Al
	150	1 1	#1/0 AWG Cu #3/0 AWG Al
	175	1 1	#2/0 AWG Cu #4/0 AWG Al
	200	1 1	#3/0 AWG Cu 250kcmil AWG Al
	225	1 1	#4/0 AWG Cu 300kcmil AWG Al
EQ9675-EQIII	100	1 1	#8-#2/0 AWG Cu #8-#2/0 AWG Al
EQ9677-EQIII	125	1 1	#8-#2/0 AWG Cu #8-#2/0 AWG Al
EQ9683-EQIII	150	1 1	#1/0 AWG Cu #3/0 AWG Al
EQ9684	175	1 1	#3/0 AWG Cu 250kcmil AWG AL
EQ9685-EQIII	200	1 1	#3/0 AWG Cu 250kcmil AWG Al
EQ9686-EQIII	225	1 1	#4/0 AWG Cu 300kcmil AWG Al
QPJ	125–200	1	#2–300kcmil Cu-Al

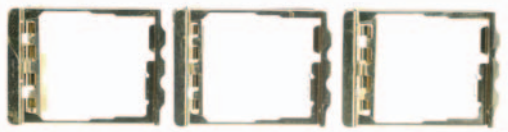
Circuit Breaker Accessories ④⑤⑥⑦⑧⑨

Catalog Number	For Use With Breaker Type	Number of Poles	Standard Package
Padlocking Device For locking breaker in "OFF" position. Note "ON" position does not affect breaker fuctionally			
ECPLD1	Type QP, BL, QAF2, QPF2, QE, QT-Duplex, BQ, BQXD	1P	3 Pieces
ECPLD1R	Type QP, BL, QAF2, QPF, QE, QT-Duplex, BQ, BQXD (Red Color)	1P	3 Pieces
ECPLD2	Type QP, BL, QAF2, QPF, QE, QT-Triplex & Quadplex, BQ, BQXD	2P	3 Pieces
ECPLD2R	Type QP, BL, QAF2, QPF, QE, QT-Triplex & Quadplex, BQ, BQXD (Red Color)	2P	3 Pieces
ECPLD3	Type QP, BL, QAF2, QPF, QE, BQ	3P	1 Piece
US2:ECPLD3R	Type QP, BL, QAF2, QPF, QE, BQ (Red Color)	3P	1 Piece
ECQLD3	Type QP, BL, BQ, BQXD	1P	10 Pieces
ECQLD4	Type QT-Duplex	QT-Duplex Breakers	10 Pieces
ECQLN3②	150-225 MBKA, QN, QNR	n/a	1 Piece
ECQTH4	Type QP, BL, BQH	Designed for (3) 1P Breakers	1 Piece
Handle Tie Provide simultaneous swiching of 2 adjacent handles.			
ECQTH2	Type QT Duplex	Designed for (2) QT Duplex Breakers	25 Pieces
ECQTH3	Type QP, BL	2P	50 Pieces
Mechanical Interlock①			
ECQML12	Type QP, BL, BQ Interlock Bracket	Designed for 1" Breaker	10 Pieces
Handle Blocking Device For holding breaker in "ON" or "OFF" position. Not a lockout/tagout device			
ECQL1	Type QP, BL, BQ, BQXD	1P	10 Pieces
ECBX231M	Type QT-Duplex	1/2" Breakers	10 Pieces
Main Breaker Retainer			
ECMBR1③	EQ Load Centers		1 Piece
ECMBR2	PL, ES, and Ultimate Load Centers: 2-pole QP		1 Piece
ECMBR3	PL, ES, and Ultimate Load Centers: 3-pole QP		1 Piece
Mounting Accessories			
MB120	Type BQ, BQH Mounting Clips	1P	20 Pieces
FP9508	Type BQ, BQH FACE MOUNT PLATE	1P	10 Pieces
FP9555	Type BQ, BQH FACE MOUNT PLATE	2P	10 Pieces
FP9556	Type BQ, BQH FACE MOUNT PLATE	3P	10 Pieces
SMB6R	Type BQ MOUNTING BRACKET	1P, 2P, 3P	6 Pieces
TCH65K	Type BQ MOUNTING ADAPTER		500 Pieces
BR2	Type BQ, BQH, BQXD Back Mounting Plates	2P	10 Pieces
BR3	Type BQ, BQH, BQXD Back Mounting Plates	3P	10 Pieces
BR4	Type BQ, BQH, BQXD Back Mounting Plates	4P	10 Pieces
I0204ML1125CU	Type QP Back Mounting Plates	1P, 2P	10 Pieces
I0303ML3100CU	Type QP Back Mounting Plates	3P	10 Pieces
Replacement Lugs			
TA1Q1	Type BQ, NGG 100A Al Cu LGS	n/a	6 Pieces
TC1Q1	Type BQ, NGG 40A Al Cu LUGS	n/a	6 Pieces
Finger Shield			
BQFS1K	Type BQXD Finger Shield (Bulk Pack)	n/a	1000 Pieces
BQFS2	Type BQXD Finger Shield	n/a	2 Pieces
Filler Plate			
ECQF3	1" Filler Plate	n/a	5 Pieces

① For a complete list of standby power mechanical interlock kits, see page 1-25
② For use with Ultimate Load Center Main Breakers
③ Not suitable for use on 15-50A, 10 AIC Type QP Circuit Breakers
④ QP Type includes QPH, HQP
⑤ BL Type includes BLH, HBL
⑥ BQ Type includes BQH, HBQ
⑦ QAF2 Type includes QAFH2, BAF2, BAFH2, QFGA2, QFGAH2, BFGA2, BFGAH2
⑧ QPF Type includes QPHF, BLF, BLHF
⑨ QE Type includes QEH, BLE, BLEH

Padlocking Device

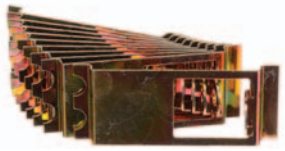
ECPLD1



ECPLD2

ECPLD1R/2R/3R (Single pole pictured. 2-/3-pole available)

ECQLD3

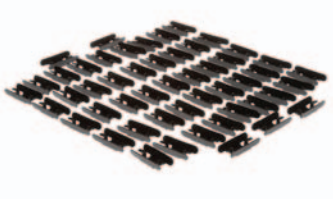


ECQLD4

ECQTH4

Handle Tie

ECQTH2



ECQTH3

Handle Blocking Device

ECQL1

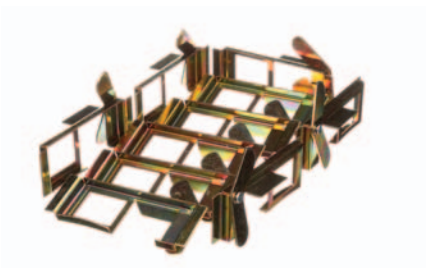
ECBX231M

Main Breaker Retainer

ECMBR1

ECMBR2

Mechanical Interlock



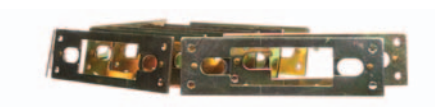
ECQML12

Mounting Accessories

MB120

SMB6R

I0204ML1125



FP9508

FP9555

FP9556

Features

- 2 inch wide plug-on design
  - — Includes (2) 1 Pole circuits breakers
  - — No loss of load center spaces
- Easy to install and perfect for retrofit
- LEDs provide protection status

Benefits

By installing a Siemens Circuit Breaker and Surge Protective Device (SPD) in the load center of the residence, surge protection is provided for all branch circuits①.

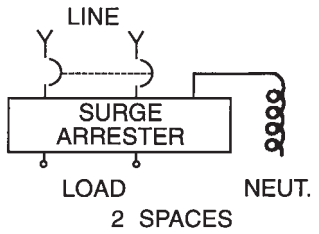
Two green LED indicator lights are provided to show that surge protection is provided for all circuits connected to the load center. These breakers should be used for circuit protection of frequently used household or facility circuits because the lights and devices connected to these circuits provide an effective indication that surge protection is being provided.

The circuit breaker and SPD utilize Siemens-built 150V AC, 40mm, metal oxide varistors (MOVs). The maximum impulse rating for the SPD module is 40kA. The standard interrupting rating for the circuit breakers is 10k AIC. All Type QP circuit breakers and SPD are plug-on style, with load terminals provided. The devices are rated for 120/240V AC and are calibrated for 40 degrees C maximum ambient applications.

Breaker Type	Ampere Rating	Catalog Number	Surge Type
QP 1- Pole 120/240V AC 10K AIC	(2) 15	**QSA1515SPD**	SPD
	(2) 20	**QSA2020SPD**	SPD

Catalog Number	**QSA1515SPD QSA2020SPD**
Amperage	15 or 20 Amp
Number of Poles	(2) 1-Pole Circuit Breakers
Initial Clamping Level	240 Volts
Transient Energy Rating	360 Joules line-to-neutral 720 Joules line-to-line
Transient Suppression	500 volts peak, line-to-neutral
Voltage Rating	1000 volts peak, line-to-line
Peak Current Rating (impulse)	40,000 amperes
Discharge Voltage Characteristic	@ 1,500A, 600 volts @ 5,000A, 800 volts (both line-to-neutral)
Discharge Current Withstand Rating	10,000 amperes line-to-neutral
Circuit Breaker Interrupting Rating	10,000A, 120/240V AC
Listings/Certifications	UL, CSA Meets UL 1449 4th Edition

Circuit Breaker and Surge Protective Device (SPD)



① For warranty information please refer to the surge website www.usa.siemens.com/surge

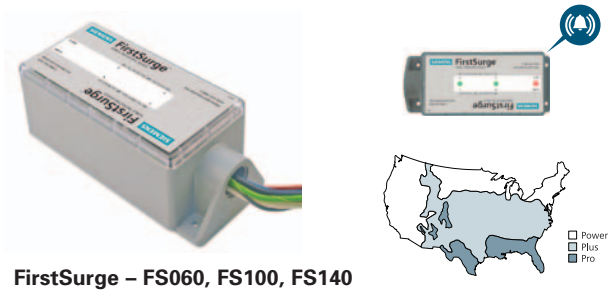
FirstSurge™ - Power, Plus, or Pro

- 4th Listed, Type 2, Surge Protective Device (SPD
- Surge Current Capacities:
  - 60,000 A,FirstSurge Power (FS060)
  - 100,000 A,FirstSurge Plus (FS100)
  - 140,000 A, FirstSurge Pro (FS140)
- 3 Stage Commercial Grade Notification:
  - Protection Status LEDs
  - Audible Alarm
  - Flashing Red Service LED
- Ground Reference Monitoring (GRM)
- 10 year product & connected equipment warranty*

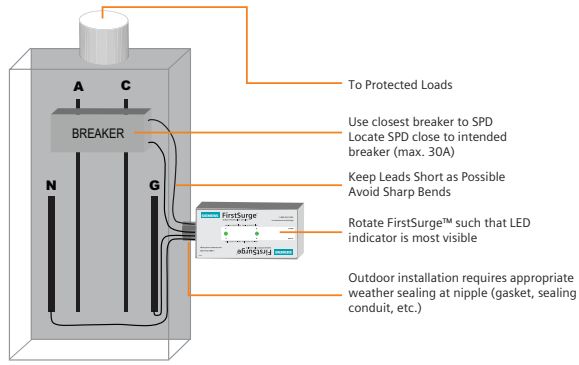
* See www.usa.siemens.com/surge for warranty terms and conditions.

Surge Type	Catalog Number
FirstSurge Power	**FS060**
FirstSurge Plus	**FS100**
FirstSurge Pro	**FS140**

AC Surge Protection	
UL and CSA Listings	1449 4th Edition & CSA 22.2 No. 269.2
Surge Spike Capacity	60kA, 100kA, or 140kA
Line Voltage	120/240 1 Phase 50/60 Hz
UL 1449 4th Edition VPR	L-N, L-G, N-G: 600 V; L-L: 900V
Rated Voltage (MCOV)	L-N, L-G, and N-G: 150V; L-L: 300V
Short Circuit Current Rating (SCCR)	100kA
Inominal (I_n) Rating	20kA
Response Time	<1 nanosecond
Enclosure	NEMA 4X Indoor and Outdoor Rated
Product Warranty	10 years



FirstSurge – FS060, FS100, FS140



Type 1 SPD / Surge Arrestor Replacement

TPS3 03

TPS3 03 is a UL 1449 4th Edition 50 kA Type 1 compact surge protective device that can be used as a replacement secondary surge or lighting arrestors. Having a Type 1 designation allows for flexible electrical system connection location (line or load side) as well as UL 96A compliance (@ 20 kA I_n).

TPS3 03 Key Features

- UL 1449 4th Edition Listed Type 1
- Type 1 Rated SPD
- 50 kA Per Phase Surge Current
- 20 kA I_n (Most models)
- 200 kA SCCR (Most models
- UL 96A Lightning Protection Master Labeling compliant (@ 20 kA))
- Every MOV is monitored
- Mounts external to electrical distribution equipment
  - Recommend for Line Side or Load Side Applications
- Standard compact NEMA 4X polycarbonate enclosure
- Modes of Protection: L-N or L-G and L-L
- Standard Monitoring: LED Indicator
- Dimensions: 3.25" x 3.25" x 3.3"
  (82.6 mm x 82.6 mm x 83.8 mm)
- Weight: 2 lb. (0.9 kg)
- 2 Year Product Warranty

Available Options:

- Dry contacts & Audible Alarm (option "D")

TPS3 03

TPS3 01 DIN RAIL Mounting

Ordering Information

Catalog # TPS3 ☐ 03 ☐☐☐☐

Voltage Code
- **A** = 120/240 V, 1Ø, 3W
- **B** = 120/240 V, 3Ø, 4W
- **C** = 120/208 V, 3Ø, 4W
- **D** = 240 V, 3Ø, 3W
- **E** = 277/480 V, 3Ø, 4W
- **F** = 480 V, 3Ø, 3W
- **G** = 600 V, 3Ø, 3W
- **K** = 380/220 V, 3Ø, 4W
- **L** = 600/347 V, 3Ø, 4W

Surge Current (kA)
- **05** = 50 kA per phase

Options
- **D** = Dry contact & audible alarm
- **N** = Adds N-G Protection

Example: **TPS3C0305D0** = Type 1 SPD for a 208/120V application with a surge current capacity of 50 kA per phase, in a standard NEMA 4X enclosure with dry contacts and audible alarm option.

When an option is not selected, include a **zero** (**0**) in the field.

Available Accessories: Ordered Separately

RMSIE = Remote monitor

FSPHONE & FSPHONE4X

- UL/cUL listed
- Hardwired Telephone/Modem/Fax/DSL protection
- Exceptionally fast response time
- Low insertion loss
- Available with or without enclosure
- 5 Year product warranty*

* See www.usa.siemens.com/surge for warranty terms and conditions.

The Siemens FSPHONE & FSPHONE4X is a 2 pair, hardwired surge protector designed to stop surges from entering through the main telephone incoming service connection. It is equipped with a failshort device to permanently ground the telephone line in the event of a power cross. The FSPHONE is designed for indoor applications where the FSPHONE4X is useed for outdoor mounting is required.

The FSPHONE4X includes the FSPHONE plus a weatherproof enclosure to facilitate indoor or outdoor applications. The enclosure is molded of temperature and humidity resistant thermoplas-tic to resist cracking and discoloration. The cover can be secured with a tie wrap or similar locking device.

FSPHONE

FSPHONE4X

AC Surge Protection	
Catastrophic Surge Circuit	Yes
Spike Capacity	200 Amps
Let Through Voltage	<270V
Overcurrent Protection	Yes
Response Time	<1 nanosecond
Environmentally Sealed	Yes
UL/cUL Listings	497A
Meets Telcordia (formallly Bellcore) GR-974-CORE Requirements for Telecommunications Line Protectors	Yes
Product Warranty	5 years

Surge Type	Catalog Number
Telco	**FSPHONE**
Telco	**FSPHONE4X**

Coaxial Service Entrance Surge Protection

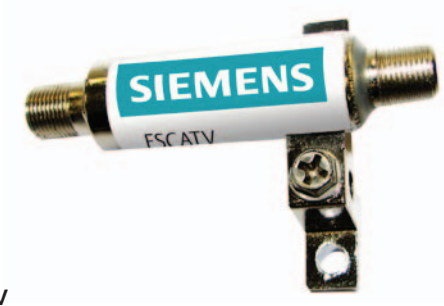
FSCATV

- UL/cUL listed surge protection
- Rated for CATV, DSS, TV, VCR, and Cable Modem
- Easy to install
- Standard Female to Female F connector
- Low insertion loss
- Automatic recovery
- 5 Year product warranty*

* See www.usa.siemens.com/surge for warranty terms and conditions.

Siemens FSCATV shields coaxial connected electronics in residential and light commercial applications against electrical transient damage, including lightning, from entering through the main cable connection.

FSCATV includes a section of coaxial cable with female to female splice for line side application. The Siemens warranty covers product defects for 5 years. To have complete protection for your equipment, home, or business, it is important to protect AC power lines and all data lines the equipment is connected through.



FSCATV

AC Surge Protection	
Frequency Range	DC thru 1.5 GHz
Catastrophic Surge Circuit	Yes
Spike Capacity	5000 Amps, 8/20 µSec
Impedance	75 Ohms
Overcurrent Protection	Yes
Return Loss	30dB @ 1 GHz
Insertion Loss	<0.1dB
UL/cUL Listings	497B
Meets IEEE C62.41.1 Requirements	Yes
Product Warranty	5 Years

Surge Type	Catalog Number
Coaxial	**FSCATV**

AC Disconnects

1-Phase, NEMA 3R Rated

WN2060

WN2060GFCI

WF2060PL

WNAS2060GFCI

Steel AC Disconnects①

Ampere Rating	Disconnect Type	Catalog Number	Horse Power Rating	Dimensions			Pallet Qty.
				Height	Width	Depth	
30	Fused Pullout	**WF2030**	3	7¼	5	2⅛	360
60	Fused Pullout	**WF2060**	10	9	5	2⅛	360
60	Non-fused Pullout	**WN2060**	10	7¼	5	2⅛	360
60	Non-automatic Switch	**WNAS2060**	10	7¼	5	2⅛	360

Plastic AC Disconnects①

Ampere Rating	Disconnect Type	Catalog Number	Horse Power Rating	Dimensions			Pallet Qty.
				Height	Width	Depth	
30	Fused Pullout	**WF2030PL**	3	7¼	5	2½	216
60	Fused Pullout	**WF2060PL**	10	7¼	5	2½	216
60	Non-fused Pullout	**WN2060PL**	10	7¼	5	2½	360
60	Non-Fused Pullout	**WN2060PLX**	10	8	5¾	3½	288
60	Non-automatic switch	**WNAS2060PL**	10	7¼	5	2½	360

Steel AC Disconnects with 15 Amp GFCI Receptacle①

Ampere Rating	Disconnect Type	Catalog Number	Horse Power Rating	Dimensions			Pallet Qty.
				Height	Width	Depth	
30	Fused Pullout	**WF2030GFCI**	3	9	6⅛	5 3/16	112
60	Fused Pullout	**WF2060GFCI**	10	9	6⅛	5 3/16	112
60	Non-fused Pullout	**WN2060GFCI**	10	7⅛	5¾	5 3/16	144
60	Non-automatic Switch	**WNAS2060GFCI**	10	7⅛	5¾	5 3/16	144

Wire Range Table

Connector	Copper		Aluminum	
	Solid	Stranded	Solid	Stranded
Line	#14-8	#14-3	#12-8	#12-3
Load	#14-8	#14-3	#12-8	#12-3
Neutral	#12-8	#12-2	#12-8	#12-2
Equip. Grnd	#12-8	#12-2	#12-8	#12-2

① Accepts Class H Fuse