

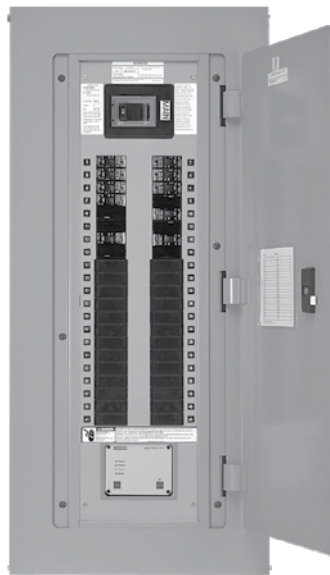
P1 Panelboards

Features

P1 panelboards are pre-engineered to accept the most common modifications without increasing box height. The enclosure size is determined by the number of circuits as shown in the Main Lug Table P1-5 or the Main Circuit breaker Table P1-3. All P1 Main Lug or main breaker panelboards have space built-in to accept either feed-thru lugs equal to the panel rating, one subfeed circuit breaker up to 250 amperes or a surge suppressor (TVSS) without increasing box height.

Note the following features, all found in the innovative P1 lighting panelboards:

- Symmetrical interiors - No top or bottom. To change from top to bottom (or vice versa), simply invert the interior. The deadfront labeling is always right-side up.
- First in the - industry Ratings of 125 through 400A main lug and main breaker. Field convertible from main lug to main breaker and vice versa - with no increase in enclosure height.
- Field adaptability of feed-thru lugs or subfeed circuit breaker without increasing enclosure size.
- Neutral system is field upgradeable to 200% capacity - another industry first.



- Three circuit sizes means only three box heights, regardless of main configuration through 250 amp and an additional three circuit version and boxes available at 400 amps.
- Suitable for use as service entrance given compliance with NEC.
- Bonding provisions are shipped with each panel.
- 240V and 480V / 277V for versions utilize identical boxes and fronts.

Voltage – 480Y / 277 Vac max.
250V Vdc max.

Amperage – 400 amp max.

Short Circuit Rating – 200 KAIC max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker, or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P1 panel is limited to 22 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P1 panel meets the majority of the market's bussing requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67 - the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P1 panel is temperature rated copper. The copper bus option for the panel is tin-plated.

Weight – Approximate

Total panelboard weight when filled with a normal quantity of breakers and accessories is about 3 lbs. (1 kg) per inch (54g per mm) of box height.

Box Material Gauge

Width	Height (in.)	Gauge Steel
20"	32, 38, 44	#16
	56, 62, 68	

Trim Material Gauge

Width	Height (in.)	Gauge Steel
20"	32, 38, 44	#14
	56, 62, 68	

Lighting Panelboards

Main Lug or Main Breaker

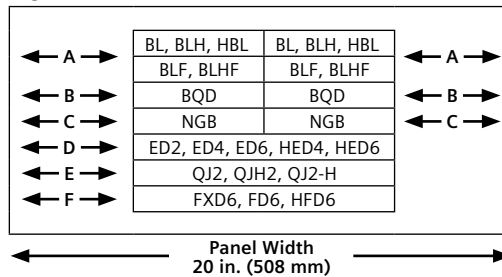
Maximum Ampere Rating	Main Breaker Type	Maximum Number of Poles	Box Height Inches (mm)	Connections Suitable for Cu or Al
100	BL, BLH HBL BQD	18 30 42	32 (813) 38 (965) 44 (1118)	#8-#6 AWG Cu or Al #8-6 AWG Cu or #8-4 AWG Al #8-#1 AWG Cu or #6-#1/0 AWG Al
125	NGB		32 (813) 38 (965) 44 (1118)	15-30 amp #14-#6 Cu or #12-#6 Al 35-125 amp #6-1/0 Cu. #4-2/0 Al.
	EDZ, ED4 ED6, HED4 HED6		32 (813) 38 (965)	#14-#10 AWG Cu or #12-10 AWG Al #3-3/0 Cu or 44 (1118) #1-2/0 Al
225	QJ2 QJH2 QJ2-H		32 (813) 38 (965) 44 (1118)	#6 AWG-300 Kcmil (Cu) or #4 AWG-300 Kcmil (Al)
250	FXD6 FD6 HFD6, HFXD6		32 (813) 38 (965) 44 (1118)	#6 AWG-350 Kcmil (Cu) or #4 AWG-350 Kcmil (Al)
≤250	MLO	32 (813) 38 (965) 44 (1118)	(1) #4-350 Kcmil	
400	JD6, JXD6 HJD6 HJXD6	18 30 42	56 (1422) 62 (1575) 68 (1727)	3/0-500 Kcmil (Cu) or 4/0-500 Kcmil (Al)
	MLO	56 (1422) 62 (1575) 68 (1727)	(1) 250 -600 Kcmil or (2) #3/0-500 Kcmil	

Side Gutter Wiring Space Inches (mm) (Fig. P1-1)

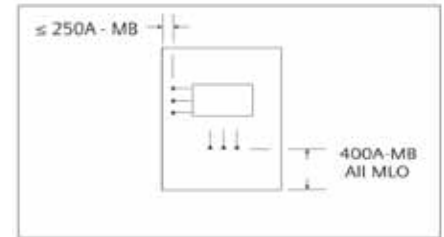
Reference Letter	Panel Width 20"	Panel Width 24" Optional
A	6.375 (162)	8.375 (213)
B	5.500 (140)	7.500 (191)
C	5.000 (127)	7.000 (178)
D ^①	6.125 (156)	8.125 (206)
E ^①	6.500 (165)	8.500 (216)
F ^①	5.250 (133)	7.250 (184)

① Subfeed mounting limit 1 per panel

Fig. P1-1



Main Device Gutter

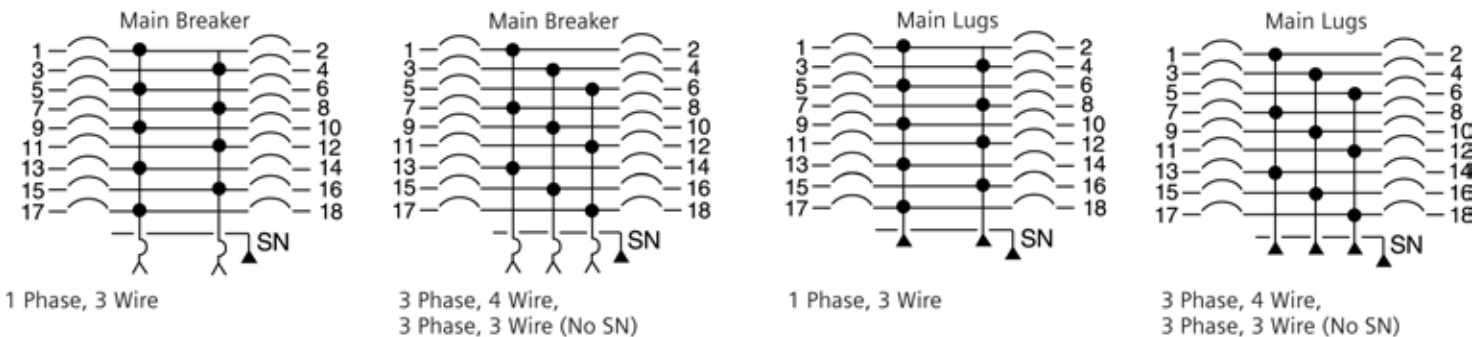


Main Breaker Gutter Dimensions Inches (mm)

Main Breaker	Gutter		Neutral Location
	20" wide box	24" wide box	20" wide box
BL, BLH, HBL, BQD	8.500 (216)	10.500 (267)	11.500 (292)
ED2, ED4, ED6, HED4	6.125 (156)	8.125 (206)	11.500 (292)
QJ2, QJH2, QJ2-H	6.500 (165)	8.500 (216)	11.500 (292)
FD6, FXD6, HFD6	5.250 (133)	7.250 (184)	11.500 (292)
JD6, JXD6 & #1;	15.000 (381)	15.000 (381)	26.750 (680)

① JD frame mounted vertically.

Typical Panelboard Wiring Diagrams



Breaker Mounting Kit – Main or Subfeed w/o Breaker

Amp Rating	Breaker Frames	Service	Catalog Number
100	BL, BLH, HBL	1 Phase	MBKBL1
		3 Phase	MBKBL3
	BQD	3 Phase	MBKBC3
125	NGB	1 Phase	MBKNB1
		3 Phase	MBKNB3
	ED2, ED4, ED6, HED4, HED6	1 Phase	MBKED1
		3 Phase	MBKED3
225	QJ2, QJH2, QJ2-H	1 Phase	MBKQJ1
		3 Phase	MBKQJ3
250	FXD6, FD6, HFD	1 Phase	MBKFD1
		3 Phase	MBKFD3
400 ^①	JD2, JD6, JXD6, HJD6, HJXD6	1 Phase	MBKJD1
		3 Phase	MBKJD3

200% Neutral Lug Kits – 250A

Number of Circuits	Description	Catalog Number
18	2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware	2NLK18
30	2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware	2NLK30
42	2 Branch Neutral Strips, 2 Main Neutral Lug, Hardware	2NLK42

200% Neutral Lug Kits – 400A

Number of Circuits	Description	Catalog Number
18	2 Branch Neutral Strips, 4 Main Neutral Lug, Hardware	42NLK18
30	2 Branch Neutral Strips, 4 Main Neutral Lug, Hardware	42NLK30
42	2 Branch Neutral Strips, 4 Main Neutral Lug, Hardware	42NLK42

Lug Kits – Main or Feed-thru

Amp Rating	Material	Wire Range	Service	Catalog Number
250	Al	(1) #6 AWG-350 Kcmil (Cu or Al)	1 Phase	MLKA1
		(1) #6 AWG-350 Kcmil (Cu or Al)	3 Phase	MLKA3
	Cu	(1) #6 AWG-350 Kcmil (Cu or Al)	1 Phase	MLKC1
		(1) #6 AWG-350 Kcmil (Cu or Al)	3 Phase	MLKC3
400	Al	(2) 3/0 - (1) 600 Kcmil	1 Phase	4MLKA1
		(2) 3/0 - (1) 600 Kcmil	3 Phase	4MLKA3
	Cu	(2) 3/0 - (1) 600 Kcmil	1 Phase	4MLKC1
		(2) 3/0 - (1) 600 Kcmil	1 Phase	4MLKC3

Copper Neutral Lug Kits – 250A and 400A

Number of Circuits	Description	Catalog Number
18	2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware	CNLK18
30	2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware	CNLK30
42	2 Branch Neutral Strips, 1 Main Neutral Lug, Hardware	CNLK42

Branch Circuit Breakers

Max. Amp Rating	Breaker Type	No. of Poles	Amp Rating	Maximum Interrupting Rating (kA)							Load Connectors
				Volts – AC						DC	
				120	120/240	240	277	480	600	250	
100	BL	1	15 - 70	10	–	–	–	–	–	–	15-20A #14-#10 AWG Cu #12-#10 AWG Al 25-35A #8-#6 AWG Cu #8-#6 AWG Al 40-50A #8-#6 AWG Cu #8-#4 AWG Al 55-70A #8-#4 AWG Cu #8-#2 AWG Al 80-100A #4-#1/0 AWG Cu #2-#1/0 AWG Al
		2	15 - 100	–	10	–	–	–	–	–	
		3	15 - 100	–	–	10	–	–	–	–	
	BL, HD	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 30	–	10	–	–	–	–	–	
	BLR	2	15 - 100	–	–	10	–	–	–	–	
	BLE	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	22	–	–	–	–	–	
	BLEH	1	15 - 30	22	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLF	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLHF	1	15 - 30	22	–	–	–	–	–	–	
		3	15 - 60	–	22	–	–	–	–	–	
	BGL ^②	2	15 - 30	10	–	–	–	–	–	–	
		3	15 - 30	–	10	–	–	–	–	–	
	BAF	1	15 - 20	10	–	–	–	–	–	–	
BAFH	1	15 - 20	22	–	–	–	–	–	–		
BLH	1	15 - 70	–	22	–	–	–	–	–		
	2	15 - 100	–	22	–	–	–	–	–		
	3	15 - 100	–	–	22	–	–	–	–		
HBL	1	15 - 70	–	65	–	–	–	–	–		
	2	15 - 100	–	65	–	–	–	–	–		
	3	15 - 100	–	–	65	–	–	–	–		
BQD	1		–	65	–	14	–	–	14		
	2	15 - 100	–	65	–	–	14	–	14		
	3		–	–	65	–	–	14	14		
125	NGB ^③	1		100	–	–	25	–	–	14	
		2	15 - 125	–	100	100	–	25	–	–	
		3		–	100	100	–	25	–	–	

① Main Only

② Two pole breaker is one phase and neutral. Three pole is two phase and neutral.

③ P1 panel with NGB branch devices will not accept BL or BQD frames in the same panel as branch devices.

NOTE: BL, HBL, BLH and BQD breakers are mounted in common mountings in 3" or (6) pole increments.

Modifications and Dimensions

Panel Options, Enclosures

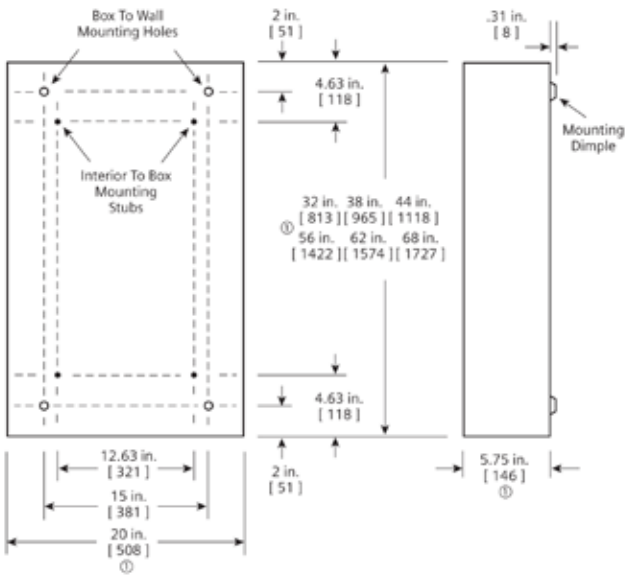
- Extra gutter to sides or ends of the can
- 24" wide boxes
- Hinged trims
- Door-in-door trims
- Screw to the box trims
- Trim mounted devices (Devices mounted and wired to the trim should also have hinged trim specified.)
 - Pilot lights
 - Toggle switches
 - Push buttons

- Painted boxes
- Custom colors
- Increase gauge trims and boxes
- Stainless steel trims and boxes, Type 1
- Aluminum trims and boxes, Type 1
- NEMA 3R enclosures
- NEMA 3R/12 enclosures
- NEMA 4 enclosures
- NEMA 4X enclosures

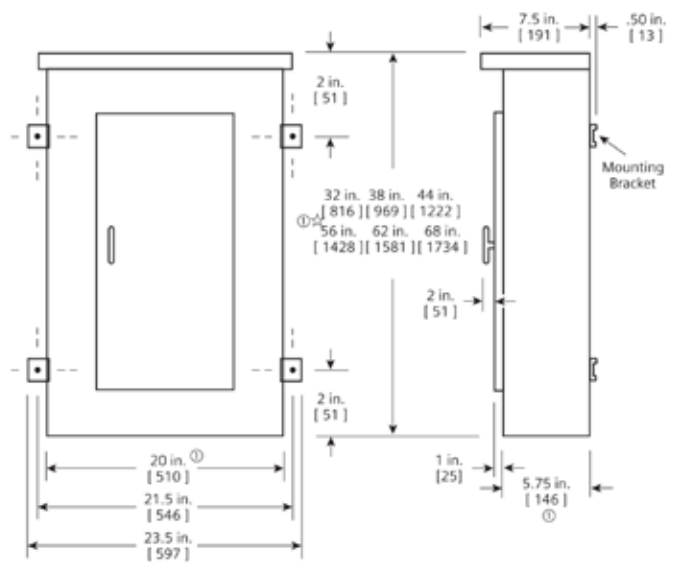
- Special keyed locks
 - TEY
 - TEU1
 - Cat 60
 - LL803
 - LL806
 - Yale
- Meters
(Contact application engineering for space requirements.)
- Panel skirts
- Gaskets between trim and box

Type P1 Dimensions

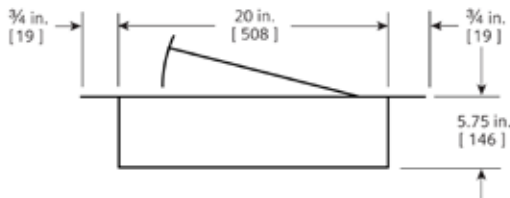
Type 1 Box (Box is Symmetrical)



Type 3R and 3R/12 Box



Flush Mounting



① Dimensions are interior of the box. Add 5/8" to width for absolute dimension. Add 1/8" to height for absolute dimension. Dimensions shown in inches and millimeters [].

Siemens Industry, Inc.
Building Technologies Division
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

www.usa.siemens.com/panelboards

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P2 Panelboards



Features

Flexibility is the hallmark of the P2 panel. This panel offers a wide array of factory-assembled options to meet virtually any lighting panel application. The ability to mix breaker frames within the unit space up to 225 amps will also meet certain distribution panel requirements in a much smaller package. Bussing options for the P2 vary from a typical temperature rating of 750 A/Si aluminum, to 1000 A/Si copper. Standard bussing in the P2 panel is tin-plated. Silver-plated copper is offered as an option. Integrated time clocks, bus mounted contactors (as mains or sub mains), split bus, and subfeed lugs (up to 400 amps) are just a few of the options available in this unique panel.

As with our other lighting panelboards, the standard P2 panel set up includes 18, 30, 42 or 54 breakers. In specific applications, the panel can accept 66, 78 or 90 circuits. The 6" circuit increments allow the user to configure the smallest possible panel size. The P2 starts with 9" of unit space (18 circuits of 1 pole breakers). Breakers mounted in the unit space can be mixed and matched to meet customer requirements. The 1" pole devices (BL, BOD, NGB, ED) are mounted in 3" or 6" increments. Breaker frames above 125A are single mounted in a 6" space. An example of a minimum panel is as follows: (6) 20A, 1-pole, BL breakers (3" of unit space) and a 225A, 3-pole, QJ breaker (6" of unit space) equaling 9" of unit space can be configured in a P2 panel without any extra provisions or space required. FD 250 and JD 400A breakers are mounted outside the unit space.

Another unique feature of the P2 panel is that blank unit space can be added to allow for future expansion or modifications. All expansion or modifications must be in 3" increments. BL, BQD, NGB, and ED frame breakers have 3" or 6" pole kits, and can be

mixed within unit space by these increments. Breakers of the same frame can cross from one mounting to another if contiguous. QJ frame breakers are mounted in 6" increments for two and three pole, single mounted units. Changes in the unit space length for BL, BQD, NGB or ED frame breakers require an addition deadfront, center strip kit. Check with sales or the factory for additional unit space kits.

Voltage – 600 Vac max.
250V Vdc max.

Amperage – 600 amp max.

Short Circuit Rating – 200 KAIC Max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P2 panel is limited to 22 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P2 panel has more options to meet market requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67 – the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P2 panel is: 750 A/Si aluminum, temperature rated copper, and 1000 A/Si copper. The copper bus option for this panel is tin-plated.

Weight – Approximate

Total panelboard weight when filled with a normal quantity of breakers and accessories is about 3 lbs. (1 kg) per inch (54g per mm) of box height.

Table P2-1 – Gauge Steel of Boxes Fronts, Surface and Flush

Dimensions in inches (mm)		Gauge Steel	
Width (in.)	Height (in.)	Box	Front
20" j	26 - 74 j	#16j	#14j
(508)j	(660, 1880)j		

Lighting Panelboards

Standard Circuit P2 Panels

Base Box Size Requirements for P2 Panels with Standard Line Lugs, and fewer than 55 poles of 1" module (BL,BQD, ED, NGB) branch breakers and provisions. Unit Spaces range from 9" to 45" (in 6" increments). Boxes range from 26" to 74" high (in 6" increments). Inclusion of optional modifications may require size increases that must be added to these base values to calculate the final box size for the panel. Vertical Main breaker options with the "Vert." designation are added-price options. Values in brackets [], at the bottom of each column, indicate the maximum allowable 1" module branch poles for each main type.

"B" Dimension Box Height	P2 Panels with Standard Line Lugs. Unit Space (starting with 9" and adding 6" increments) "A" Dimension														
	Main Lugs			Main Breakers											
	125A	250A	400A 600A	125A Horiz. BL, BQD, NGB, ED	125A Vert. ED ^①	125A Horiz. CED	225A Horiz. QJ	225A Vert. QJ ^①	250A Horiz. FD	250A Vert. FD ^①	250A CFD	400A JD	400A CJD	600A LD	600A CLD
26	9	—	—	9	—	—	—	—	—	—	—	—	—	—	—
32	15	9	—	15	9	9	9	—	—	—	—	—	—	—	—
38	21	15	9	21	15	15	15	9	9	—	—	—	—	—	—
44	27	21	15	27	21	21	21	15	15	9	—	—	—	—	—
50	27	27	21	27	27	27	27	21	21	15	9	9	—	—	—
56	39	27	27	39	33	33	33	27	27	21	15	15	—	9	—
62	45	39	33	45	39	39	39	33	33	27	21	21	9	15	9
68	45	45	39	45	45	45	45	39	39	33	27	27	15	21	15
74	45	45	45	45	45	45	45	45	45	39	33	33	21	27	21
	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[54p]	[42p]	[54p]	[42p]

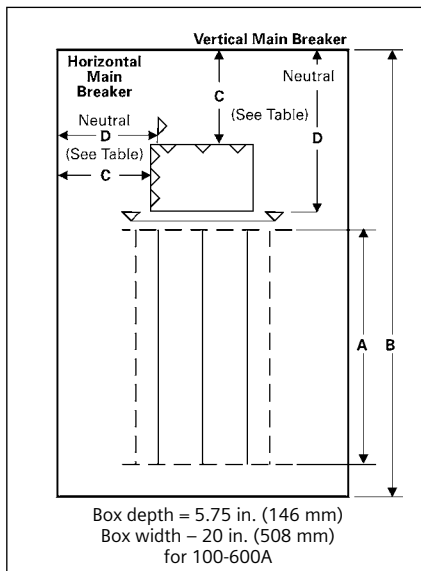
Extended Circuit P2 Panels

Base box size requirements for Extended Circuit P2 Panels with Standard Line Lugs, and 55 or more poles of 1" module (BL,BQD, ED, NGB) branch breakers and provisions. Unit Spaces range from 33" to 45" (in 6" increments). Boxes range from 56" to 74" high (in 6" increments). Inclusion of optional modifications may require size increases that must be added to these base values to calculate the final box size for the panel (see pages <?>, <?>). Vertical Main breaker options with the "Vert." designation are added-price options (see page <?>). Values in brackets [], at the bottom of each column, indicate the maximum allowable 1" module branch poles for each main type.

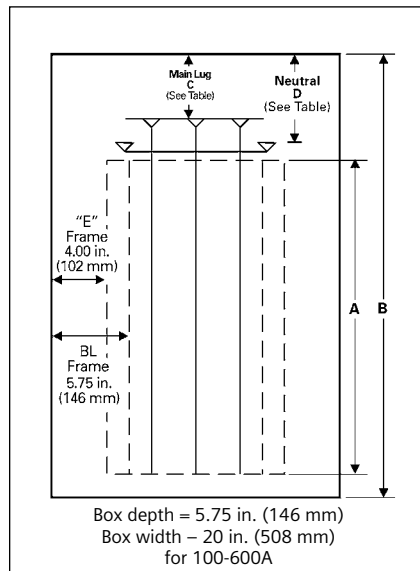
"B" Dimension Box Height	P2 Panels with Standard Line Lugs. Unit Space (starting with 9" and adding 6" increments) "A" Dimension														
	Main Lugs			Main Breakers											
	125A	250A	400A 600A	125A Horiz. BL, BQD, NGB, ED	125A Vert. ED ^①	125A Horiz. CED	225A Horiz. QJ	225A Vert. QJ ^①	250A Horiz. FD	250A Vert. FD ^①	250A CFD	400A JD	400A CJD	600A LD	600A CLD
56	33	—	—	33	—	—	33	—	—	—	—	—	—	—	—
62	39	33	33	39	33	33	39	33	—	—	—	—	—	—	—
68	45	39	39	45	39	39	45	39	33	—	—	—	—	—	—
74	45	45	45	45	45	45	45	39	33	—	—	33	—	—	—
	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[90p]	[78p]	[66p]	[54p]	[66p]	[42p]	[54p]	[42p]

①Note: The vertical main breaker application for ED, QJ, and FD adds 6" of box height.

Main breaker wire bending space diagram



Main lug wire bending space diagram



Standard Circuit P2 Panels

Main Breaker Wire Bending

Standard Circuits (up to 54 1" module branch poles)			
Panel Amps	Breaker Frames	C ^①	D ^①
100	BL	5.75	8.00
	BQD	5.13	8.00
125	NGB	4.63	8.00
	ED (horiz.)	4.00	8.00
	ED (vert.)	6.56	11.13
225	QJ (horiz.)	5.00	7.00
	QJ (vert.)	10.06	16.69
250	FD (horiz.)	5.00	7.00
	FD (vert.)	13.25	22.72
400	JD	15.38	25.00
600	LD	15.38	23.00

Extended Circuit P2 Panels

Main Breaker Wire Bending

Extended Circuits (more than 54 1" module branch poles)			
Panel Amps	Breaker Frames	C ^①	D ^①
100	BL	5.75	6.56
	BQD	5.13	6.56
125	NGB	4.63	6.56
	ED (horiz.)	4.00	6.56
	ED (vert.)	12.56	14.88
225	QJ (horiz.)	5.00	6.44
	QJ (vert.)	10.06	15.53
250	FD (horiz.)	5.00	5.63
	FD (vert.)	19.25	25.71
400	JD	15.38	23.75
600	LD (54p max)	N/A	N/A

Main Lug Connectors

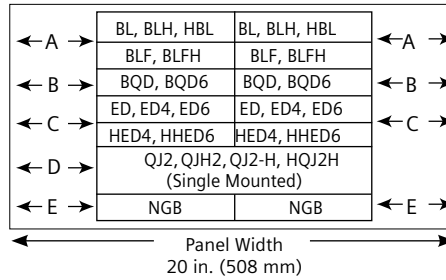
Standard Circuits (up to 54 1" module branch poles)			
Panel Amps	Standard Connectors	C ^①	D ^①
125	(1) #14-2/0	6.62	8.19
250	(1) #6 AWG - 350 MCM	11.75	10.72
400	(1) #4 AWG - 600 MCM or (2) #6 - 250 MCM	14.00	13.09
600	(2) #4 AWG - 500 MCM	14.00	11.00

Main Lug Connectors

Extended Circuits (more than 54 1" module branch poles)			
Panel Amps	Standard Connectors	C ^①	D ^①
125	(1) #14-2/0	12.62	8.91
250	(1) #6 AWG - 350 MCM	17.75	13.69
400	(1) #4 AWG - 600 MCM or (2) #6 - 250 MCM	14.00	14.19
600	(2) #4 AWG - 500 MCM	14.00	14.23

Branch Breaker Side Gutters Inches (mm)

Reference Letter	Panel Width 20" (508)
A	5.750 (146)
B	5.125 (130)
C	4.000 (102)
D ^②	5.000 (127)
E	4.625 (117)



① Refer to diagrams at the bottom of page 2.

② Single branch mounting construction.

Main Breaker Selection^①

Ampere Rating	Breaker Type	Maximum Interrupting Rating (kA)			Ref. Catalog Number	Available Trip Values
		240V	480V	600V		
100	BL	10	—	—	BL	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	HBL	65	—	—	HB	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	BQD	65	14	—	BQ	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	BLH	22	—	—	BH	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	ED4	65	18	—	E4	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	NGB	100	25	—	NB	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 100
	ED6	100	25	14	E6	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	HED4	100	42	—	H4	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
	HHED6	100	65	18	HA	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100
CED6 ^②	200	200	100	CE	15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100	
125	NGB	100	25	—	NB	110, 125
	ED4	65	18	—	E4	125
	ED6	65	25	18	E6	125
	HED4	100	42	—	H4	125
	HHED6	100	65	18	HA	125
	CED6 ^②	200	200	100	CE	125
225	QJ2	10	—	—	QJ	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	QJH2	22	—	—	QH	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	QJ2H	42	—	—	Q2	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	HQJ2H	100	—	—	Q3	60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	FD6	65	35	18	FD	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	FXD6	65	35	18	FX	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	HFD6	100	65	25	HF	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	HFXD6	100	65	25	H2	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
	CFD6 ^②	200	200	100	CF	70, 80, 90, 100, 110, 125, 150, 175, 200, 225
250	FD6	65	35	18	FD	250
	FXD6	65	35	18	FX	250
	HFD6	100	65	35	HF	250
	HFXD6	65	35	25	H2	250
	CFD6 ^②	200	150	100	CF	50
400	JXD6 ^②	65	35	25	JX	200, 225, 250, 300, 350, 400
	JD6 ^②	65	35	35	J6	200, 225, 250, 300, 350, 400
	HJXD6 ^②	100	65	35	H6	200, 225, 250, 300, 350, 400
	HJD6 ^②	100	65	35	H5	200, 225, 250, 300, 350, 400
	SJD6 ^②	65	35	25	SJ	200, 300, 400
	SHJD6 ^②	100	65	35	S2	200, 300, 400
	CJD6 ^②	200	200	100	CJ	200, 300, 400
	SCJD6 ^②	200	200	100	SC	200, 300, 400
600	LXD6 ^②	65	35	25	LX	450, 500, 600
	LD6 ^②	65	35	25	L6	250, 300, 350, 400, 450, 500, 600
	HLXD6 ^②	100	65	35	HL	250, 300, 350, 400, 450, 500, 600
	HLD6 ^②	100	65	35	HO	250, 300, 350, 400, 450, 500, 600
	SLD6 ^②	65	35	25	SL	300, 400, 500, 600
	SHLD6 ^②	100	65	35	S6	300, 400, 500, 600
	CLD6 ^②	200	150	100	CL	300, 400, 500, 600
	SCLD6	200	150	100	C6	300, 400, 500, 600

When an ED4, ED6, HED4, QJ2, QJH2, QJ2H, FD6, HFD6, or FXD6 frame main breaker, vertically mounted, is required, price as a main breaker panel and add from the table for the main breaker mounting.

Vertically Mounted Main Breaker

(available in 2-pole or 3-pole)

Ampere Rating	Breaker Type(s)	Unit Space (in.)
100	ED4, ED6, HED4	6
225	QJ2, QJH2, QJ2-H FXD6, FD6, HFD6	6

Subfeed Breakers (available in 2-pole or 3-pole)

Breaker Type	Mounting Position When Used as Subfeed Breaker	Ampere Ratings For Load	Maximum Interrupting Rating (kA) Symmetrical		
	Vertical		240V AC	480V AC	600V AC
FD6 ^③ , FXD6	Twin	70–250	65	35	22
HFD6 ^③ , HFXD6	Twin	70–250	100	65	25
JD6 ^④ , JXD6	Single	200–400	65	35	25
HJD6 ^④ , HJXD6	Single	200–400	100	65	35

① Interchangeable trip main breakers are mounted at top of panel only.

② Vertically mounted.

③ Twin mounted subfeed breakers are mounted at the bottom of panelboard only and adds 24" to the panel height.

④ Subfeed breaker is mounted at bottom of panelboard only. 400 amp subfeed breaker adds 24" to the panel height. (Only for use with MLO)

Standard Enclosures

Box Height (in.)	Catalog Number				
	Type 1 –Standard Trim			Type 3R	Type 3R/12
	Box	Surface	Flush		
26	B26	S26B	F26B	NR26	WP26
32	B32	S32B	F32B	NR32	WP32
38	B38	S38B	F38B	NR38	WP38
44	B44	S44B	F44B	NR44	WP44
50	B50	S50B	F50B	NR50	WP50
56	B56	S56B	F56B	NR56	WP56
62	B62	S62B	F62B	NR62	WP62
68	B68	S68B	F68B	NR68	WP68
74	B74	S74B	F74B	NR74	WP74

Options For Type 1 Trims

Items must be ordered as manual line item on Spartanburg

Hinged trim – Replace “B” suffix with “H”

Door-in-door – Replace “B” suffix with “D”

Metal card holder – Replace “B” suffix with “M” on standard trim, add “M” suffix on optional trims

Option For 24” Wide Enclosures with Equal Gutter on Both Sides

24” wide with equal gutter on both sides, add “24” as prefix

Breaker kits and accessories

Kit No.	Description	Contents
BBKB32	BL/BQD 6-pole 3” branch breaker kit	Kit contains top barrier, (3) A/C connectors, (1) B connector, hardware
BBKNB32	NGB 6-pole 3” branch mounting kit	Kit contains breaker support, interphase barriers (3) A/C connectors, (1) B phase connector, hardware
BBKED32	ED 6-pole 3” branch breaker kit	Kit contains breaker support, inter-phase barriers, (3) A/C connectors, (1) B connector, hardware
BBKQ1	QJ branch breaker kit for 2 and 3-pole single mount	Kit to contain all connectors and cover plates necessary to mount both 2 and 3-pole breakers
DFK1	BL, BQD, ED Dead front kit for 1” pole breakers	Center strips 3”, 6”, 9”, 15”, 21” plus mounting hardware
DFFP3	Dead front filler 3”	3” empty space filler and hardware
DFFP6	Dead front filler 6”	6” empty space filler and hardware
BNK2	Branch neutral (P2)	Three tier lug with mounting hardware to increase neutral capacity
P2BK1	P2 250A max. bonding kit	Bonding strap and hardware
P2BK2	P2 400A max. Bonding Kit	Bonding strap and hardware
P2BK3	P2 600A max. Bonding Kit	Bonding strap and hardware

Branch Circuit Breakers

Max. Amp Rating	Bolt-On Breaker Type	No. of Poles	Amp Rating	Maximum Interrupting Rating (kA)							Load Connectors
				Volts – AC						DC	
				120	120/240	240	277	480	600	250	
100	BL	1	15 - 70	10	–	–	–	–	–	–	15-20A #14-#10 AWG Cu #12-#10 AWG Al 25-35A #8-#6 AWG Cu #8-#6 AWG Al 40-50A #8-#6 AWG Cu #8-#4 AWG Al 55-70A #8-#4 AWG Cu #8-#2 AWG Al 80-100A #4-#1/0 AWG Cu #2-#1/0 AWG Al
		2	15 - 100	–	10	–	–	–	–	–	
		3	15 - 100	–	–	10	–	–	–	–	
	BL HID	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 30	–	10	–	–	–	–	–	
	BLR	2	15 - 100	–	–	10	–	–	–	–	
	BLE	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLEH	1	15 - 30	22	–	–	–	–	–	–	
		2	15 - 60	–	22	–	–	–	–	–	
	BLF	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLHF	1	15 - 30	22	–	–	–	–	–	–	
		3	15 - 60	–	22	–	–	–	–	–	
	BGL ^①	2	15 - 30	10	–	–	–	–	–	–	
		3	15 - 30	–	10	–	–	–	–	–	
BAF	1	15, 20	10	–	–	–	–	–	–		
BAFH	1	15, 20	22	–	–	–	–	–	–		
BLH	1	15 - 70	–	22	–	–	–	–	–		
	2	15 - 100	–	22	–	–	–	–	–		
	3	15 - 100	–	–	22	–	–	–	–		
HBL	1	15 - 70	–	65	–	–	–	–	–		
	2	15 - 100	–	65	–	–	–	–	–		
	3	15 - 100	–	–	65	–	–	–	–		
BQD	1	–	–	65	–	14	–	–	14		
	2	15 - 100	–	65	–	–	14	–	14		
	3	–	–	–	65	–	14 ^②	–	14		
NGB	1	–	100	–	–	25	–	–	14		
	2	15 - 125	–	100	100	–	25	–	–		
	3	–	–	100	100	–	25 ^②	–	–		
125	ED2	1	15 - 125	10	–	–	–	–	–		
		2, 3	–	–	–	–	–	–	–		
		–	–	–	–	–	–	–	–		
	ED4	1	15 - 125	65	–	–	22	–	–		
		2	–	–	–	65	–	18	–		
		3	–	–	–	65	–	18	30		
ED6	2	15 - 125	–	–	65	–	25	18			
	3	–	–	–	65	–	25	18			
HED4 HHED6	1	–	100	–	–	–	–	–			
	2	15 - 125	–	–	–	65	–	–			
	3	–	–	–	–	100	42	42			
225	QJ2	2 & 3	60 - 225	–	–	10	–	–	–		
		–	–	–	–	–	–	–	–		
	QJH2	2 & 3	60 - 225	–	–	22	–	–	–		
		–	–	–	–	–	42	–	–		
QJ2-H HQJ2H	2 & 3	60 - 225	–	–	42	–	–	–			
	–	–	–	–	–	100	–	–			

NOTE: QJ Breakers are single mounted in nit space and take 6” of unit space. Limited to (3) per panel max. BL, HBL, HBL and BQD breakers are mounted in common mountings in 3” or (6) pole increments. ED2, ED4, ED6, HED4 and HHED6 breakers are mounted in common mountings in 3” or (6) pole increments. NGB breakers are mounted in common mounting in 3” or (6) pole increments.

① Two pole breaker is one phase and neutral. Three pole is two phase and neutral. ② For use on 480Y/277 volt systems not suitable for 480 delta 3 phase 3 wire systems.

Box Size Additions for Optional Features

Options	Main Lugs				Main Breakers											
	125A	250A	400A	600A	125A Horiz. BL, BQD, ED, NGB	125A Horiz. CED	125A Vert. ED	225A Horiz. QJ	225A Vert. QJ	225A Horiz. FD	250A Vert. FD	250A Vert. CFD	400A JD	400A CJD	600A LD	600A CLD
*Min. Box Size	26"	32"	38"	38"	26"	32"	32"	32"	38"	38"	44"	50"	50"	62"	56"	62"
200% Neutral (lug type)	0	0	6 (all)	6 (all)	0	0	0	N/A	0	N/A	0	0	0	0	0	0
Std. Lugs (100% Neut. PNL)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CU Lugs (100% Neut. PNL)	6	6	6	0	N/A	N/A	0	N/A	0	N/A	0	0	0	0	0	0
Comp Lugs (100% Neut. PNL)	6	6	6	6	N/A	N/A	0	N/A	0	N/A	0	0	0	0	0	0
Feed-thru Standard Lugs	6	6	12	12	6	6	6	N/A	6	N/A	6	6	12	12	12	12
Feed-thru Cu Lugs	6	6	12	N/A	N/A	N/A	6	N/A	6	N/A	6	6	12	12	N/A	N/A
Feed-thru Comp Lugs	6	12	12	N/A	N/A	N/A	6	N/A	6	N/A	12	12	12	12	N/A	N/A
Subfeed Standard Lugs	0	6	6	N/A	—	—	—	—	—	—	—	—	N/A	—	—	—
Split Bus	6	6	6	6	6	6	6	N/A	6	N/A	6	6	6	6	6	6
(1) FD Subfeed (Horizontal Mtg.)	N/A	12	12	12	N/A	N/A	N/A	N/A	N/A	12	12	12	12	12	12	12
(2) FD Subfeed (Vertical Mtg.)	N/A	24	24	24	N/A	N/A	N/A	N/A	N/A	24	24	24	24	N/A	N/A	N/A
SPD	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

Split bus is paired with feed-thru lugs by default. Feed-thru lugs are to feed the section after the split.

NOTE: N/A = OPTION NOT AVAILABLE

*Min. Box Size, corresponding to 9" of Unit Space.

Compression Lugs

Style	Amp Rating	Breaker Type	Compression Connectors	Box Height Addition
MLO	125	N/A	(1)#6 - 350 kcmil Al/Cu	6
	250	N/A	(1)#6 - 350 kcmil Al/Cu	6
	400	N/A	(1) 400 - 600 kcmil Cu or (2)#6 - 350 kcmil Al/Cu	6
	600	N/A	(2)#6 - 350 kcmil Cu or Cu/Al or 400 - 600 kcmil Al/Cu	6
Main Breaker	100	ED4, ED6, HED4 HHED6, CED6 [Ⓞ]	(1)#14-2/0 AWG Cu or Al	Box must go to 24" wide on CED6 breaker only Add 6" to box height for NØ
	225	QJ2, QJH2, QJ2H	(1)#6 AWG - 350 kcmil Cu or Al	Box must go to 24" wide
	250	FXD6, HFD6, CFD6	(1)#6 AWG - 350 kcmil Cu or Al	Box must go to 24" wide for all breakers Requires an additional 6.0" box height
	400	JD6, JXD6, HJD6, CJD6, SJD6, SHJD6, SCJD6	(2)#1/0 AWG - 500 kcmil Cu or Al	9
	600	LD6, LXD6, HLD6, CJD6, SLD6, SHLD6, SCLD6	(2)#2/0 AWG - 500 kcmil Cu or Al	6

Alternate Lugs

Style	Amp Rating	Breaker Type	Standard AL Connectors	Box Height Addition
MLO	400	N/A	(1) 250 - 750 kcmil or (2)#3/0 AWG - 250 kcmil Cu or Al	6
Main Breaker	400	JD6, JXD6, HJD6, CJD6, SJD6, SHJD6, SCJD6	(1)#4/0 AWG - 750 kcmil Cu or Al	6

[Ⓞ] Not available for feed thru lug.

Modifications and Dimensions

Panel Options, Enclosures

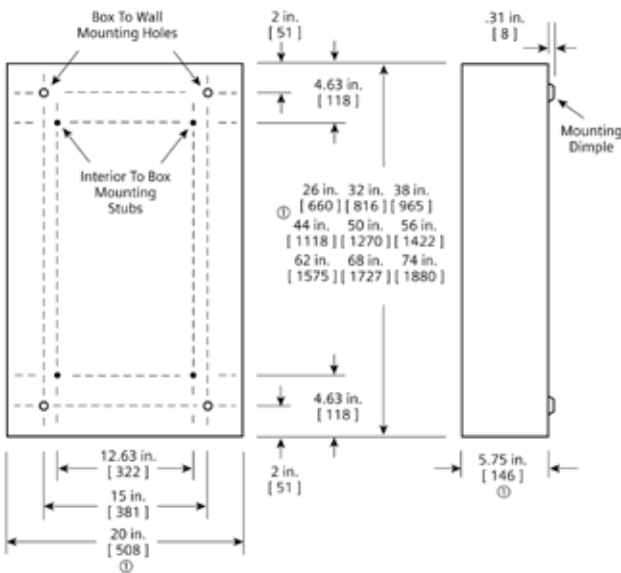
- Extra gutter to sides or ends of the can
- 24" wide boxes
- Hinged trims
- Door-in-door trims
- Screw to the box trims
- Trim mounted devices (Devices mounted and wired to the trim should also have hinged trim specified.)
 - Pilot lights
 - Toggle switches
 - Push buttons

- Painted boxes
- Custom colors
- Increase gauge trims and boxes
- Stainless steel trims and boxes, Type 1
- Aluminum trims and boxes, Type 1
- NEMA 3R enclosures
- NEMA 3R/12 enclosures
- NEMA 4 enclosures
- NEMA 4X enclosures

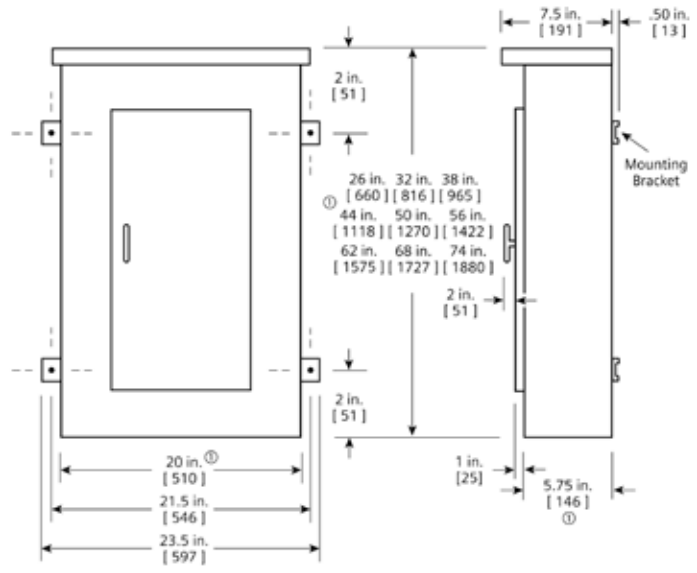
- Special keyed locks
 - TEY
 - TEU1
 - Cat 60
 - LL803
 - LL806
 - Yale
- Meters
(Contact application engineering for space requirements.)
- Panel skirts
- Gaskets between trim and box

Type P2 Dimensions

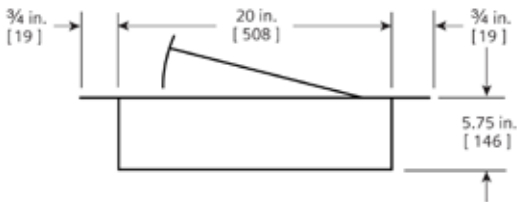
Type 1 Box (Box is Symmetrical)



Type 3R and 3R/12 Box



Flush Mounting



① Dimensions are interior of the box. Add 5/8" to width for absolute dimension. Add 1/8" to height for absolute dimension. Dimensions shown in inches and millimeters [].

Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

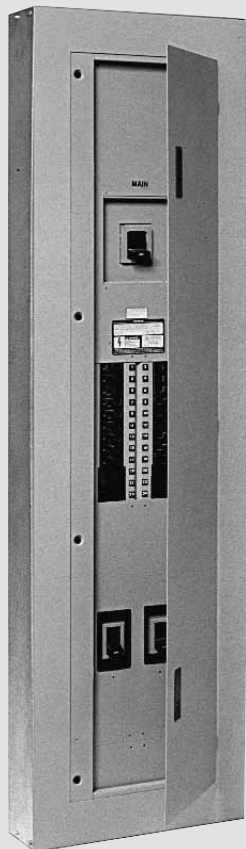
www.usa.siemens.com/panelboards

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P3 Panelboards



Features

The innovative P3 panelboard from Siemens is a smaller footprint distribution panel designed for applications that require more large-branch devices than typical lighting panels can support. This panel offers a wide array of factory-assembled options and has the ability to mix breaker frames in unit space up to 225 amps. Bussing options include standard, temperature-rated aluminum and temperature rated (750 ASI1 and 1,000 ASI²) copper. All aluminum bussing in the P3 panel is tin-plated as a standard. Silver-plating is the default for copper bus with tin as an option. Integrated time clocks, bus mounted contactors as mains or sub-mains, split bus and sub-feed lugs (up to 400 amps) are just a few of the options available in this unique panel.

The panel configurations, defined by unit space, allow for given amperage, main device, and box height. The P3 panel starts with a 56" high box. Breakers in unit space can be mixed and matched to meet customer requirements. All 1" pole breakers (BI, BOD, NGB, NEB, HEB and ED frames) are mounted in 3" or 6-pole increments. Breaker frames, rated 225 amps, are dual mounted in 6" increments in unit space. Also available are one or two 250 amp frame breakers or one 400 amp frame breaker, mounted as sub-feed devices outside the unit space.

Like other distribution panels, the P3 panel can include blank space for future expansion or modifications. Any expansions or modifications must be in 3" increments. BL, BQD, NGB, NEB, HEB, and ED frame breakers have 3" or 6-pole kits and can be mixed in unit space by these increments. Breakers of the same frame can cross from one mounting to another if contiguous. QJ frame breakers

are mounted in 6" increments for two and three pole single and twin mounted units. Changes in the unit space length for BI, BQD, NGB, NEB, HEB, and ED frame breakers require an additional deadfront center strip kit. Contact your Siemens representative for additional unit space kits.

Voltage – 600 Vac max.
250V Vdc max.

Amperage – 600 amp max.

Short Circuit Rating – 200 KAIC Max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P3 panel is limited to 22 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P3 panel has more options to meet market requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67 – the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P3 panel is: 750 A/si aluminum, temperature rated copper, and 1000 A/si copper. The copper bus option for this panel is tin-plated.

Weight – Approximate

Total panelboard weight when filled with a normal quantity of breakers and accessories is about 5 lbs. (1 kg) per inch (54g per mm) of box height.

Table P3-1 – Gauge Steel of Boxes Fronts, Surface & Flush

Dimensions in inches (mm)		Gauge Steel	
Width (in.)	Height (in.)	Box	Front
24" j	56 - 80 j	#16j	#14j
(610)j	(1422, 2032)j		

1 ASI = Amperes per square inch

Lighting Panelboards

www.usa.siemens.com/panelboards

SIEMENS

Panel Unit Space To Box Height Requirements

"B" Dimension Box Height	P3 Panels With Standard Line Lugs. Unit Space (starting with 9" and adding 6" increments) "A" Dimension										
	Main Lugs				Main Breakers						
	250A	400A	600A	800A	250A Horiz. FD	250A Vert. FD	250A CFD	400A JD	400A CJD	600A LD	600A CLD
56	27	21	21	21	21	15	9	9	—	9	—
62	33	27	27	27	27	21	15	15	9	15	9
68	39	33	33	33	33	27	21	21	15	21	15
74	45	39	39	39	39	33	27	27	21	27	21
80	51	45	45	45	45	39	33	33	27	33	27

Main Breaker Selection¹

"B" Box Height	P3 Panels Wit	Maximum interrupting rating (kA)			Lug wire range
		240V	480V	600V	
250	FD6, FXD6 (STD) HFD6, HFXD6 CFD6	65	35	18	#6 AWG - 350 Kcmil Cu or #4 AWG - 30 Kcmil Al
		100	65	25	
		200	150	100	
400	JXD6 (STD), JD6 HJD6, HJXD6 SJD6 CJD6, SCJD6	65	35	25	3/0 - 500 Kcmil Cu or 4/0 - 500 Kcmil Al
		100	65	35	
		65	35	25	
		200	200	100	
600	LXD6 (STD) LD6 HLD6, HLXD6 SLD6 SHLD6 CLD6, SCLD6	65	35	25	3/0 - 500 Kcmil Cu or 4/0 - 500 Kcmil Al
		65	35	25	
		100	65	35	
		65	35	25	
		100	65	35	
		200	150	100	

Fig. P3-1

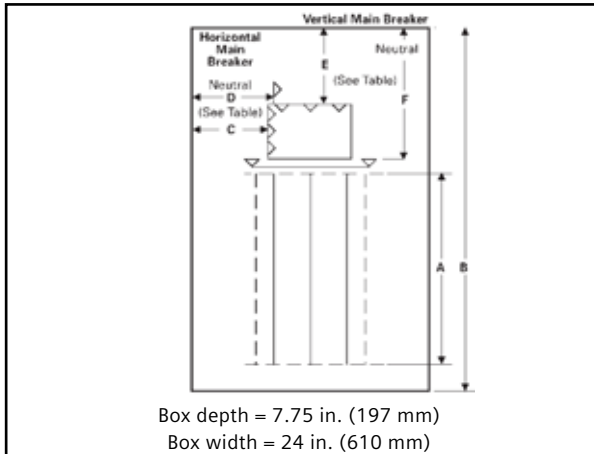
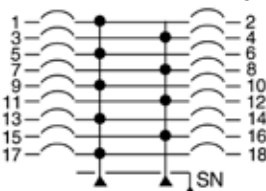


Table P3-1 – Gauge Steel of Boxes Fronts, Surface & Flush

Dimensions in inches (mm)		Gauge Steel	
Width	Height	Box	Front
24"	56 - 80	#16	#14
-610	(1422, 2032)		

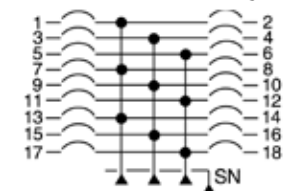
Typical Panelboard Wiring Diagrams

Main Breaker Main Lugs



1 Phase, 3 Wire

Main Breaker Main Lugs



3 Phase, 4 Wire,
3 Phase 3 Wire (No SN)

Branch Breaker Side Gutters Inches (mm) (Fig. P3-2)

Reference Letter	Panel Width 24" (609)
A	7.750 (197)
B	7.125 (181)
C	6.620 (168)
D	6.440 (164)
E	6.000 (152)
F	7.000 (178)

Fig. P3-2

Reference Letter	Panel Width 24" (610 mm)	Panel Width 24" (610 mm)	Reference Letter
← A →	BL, BLH, HBL	BL, BLH, HBL	← A →
← B →	BLF, BLFH	BLF, BLFH	← B →
← C →	BQD, BQD6	BQD, BQD6	← C →
← D →	NGB	NGB	← D →
← E →	NEB, HEB	NEB, HEB	← E →
← F →	ED, ED4, ED6	ED, ED4, ED6	← F →
	HED4, HHED6	HED4, HHED6	
	QJ2, QJH2, QJ2-H, HQJ2H	QJ2, QJH2, QJ2-H, HQJ2H	

Branch Breaker Side Gutters Inches (mm) (Fig. P3-2)

Box Height (In.)	Catalog Number			Type 3R	Type 3R/12
	Type 1 Standard Trim				
	Box	Surface	Flush		
56	24WD56	P3S56	P3F56	24NRD56	24WPD56
62	24WD62	P3S62	P3F62	24NRD62	24WPD62
68	24WD68	P3S68	P3F68	24NRD68	24WPD68
74	24WD74	P3S74	P3F74	24NRD74	24WPD74
80	24WD80	P3S80	P3F80	24NRD80	24WPD80

Options For Type 1 Trims

- Items must be ordered as manual line item on factory.
- Hinged trim – Add "H" suffix
- Door-in-door – Add "D" suffix
- Metal card holder – Add "M" suffix

¹Interchangeable trip main breakers are mounted at top of panel only.

Breaker kits and accessories

Kit No.	Description	Contents
BBKB32	BL/BQD 6-pole 3" branch breaker kit	Kit contains top barrier, (3) A/C connectors, (1) B connector, hardware
BBKNB32	NGB 6-pole 3 branch mounting kit	Kit contains breaker support, interphase barriers (3) A/C connectors, (1) B phase connector, hardware
BBKEB32	NEB/HEB 6 pole 3 branch breaker kit	Kit contains breaker support, interphase barriers (3) A/C connectors, (1) B phase connector, hardware
BBKED32	ED 6-pole 3" branch breaker kit	Kit contains breaker support, inter-phase barriers, (3) A/C connectors, (1) B connector, hardware
BBKQ1	QJ branch breaker kit for 2 and 3-pole single mount	Kit to contain all connectors and cover plates necessary to mount both 2 and 3-pole breakers
BBKQ2	Branch breaker kit for 2 and 3-pole QJ twin mount	Kit to contain all connectors and cover plates necessary to mount both 2 and 3-pole breakers
DFFP3	Deadfront filler 3"	3" empty space filler and hardware
DFFP6	Deadfront filler 6"	6" empty space filler and hardware
P3BK1	P3 bonding kit	Bonding strap and hardware
QF3	Filler plate for BL, BQD, ED frame branch breaker provisions	1" filler plate
EBF1	Filler plate for NEB/HEB branch breaker provision content	1" filler plate

Branch Circuit Breakers

Max. Amp Rating	Bolt-On Breaker Type	No. of Poles	Amp Rating	Maximum Interrupting Rating (kA)							Load Connectors
				Volts – AC						DC	
				120	120/240	240	277	480	600	250	
100	BL ¹	1	15 - 70	10	–	–	–	–	–	–	15-20A #14-#10 AWG Cu #12-#10 AWG Al 25-35A #8-#6 AWG Cu #8-#6 AWG Al 40-50A #8-#6 AWG Cu #8-#4 AWG Al 55-70A #8-#4 AWG Cu #8-#2 AWG Al 80-100A #4-#1/0 AWG Cu #2-#1/0 AWG Al
		2	15 - 100	–	10	–	–	–	–	–	
		3	15 - 100	–	–	10	–	–	–	–	
	BL HID	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 30	–	10	–	–	–	–	–	
	BLR	2	15 - 100	–	–	10	–	–	–	–	
	BLE	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLEH	1	15 - 30	22	–	–	–	–	–	–	
		2	15 - 60	–	22	–	–	–	–	–	
	BLF	1	15 - 30	10	–	–	–	–	–	–	
		2	15 - 60	–	10	–	–	–	–	–	
	BLHF	1	15 - 30	22	–	–	–	–	–	–	
		3	15 - 60	–	22	–	–	–	–	–	
BGL	2	15 - 30	10	–	–	–	–	–	–		
	3	15 - 30	–	10	–	–	–	–	–		
BAF	1	15, 20	10	–	–	–	–	–	–		
BAFH	1	15, 20	22	–	–	–	–	–	–		
BLH ¹	1	15 - 70	–	22	–	–	–	–	–		
	2	15 - 100	–	22	–	–	–	–	–		
	3	15 - 100	–	–	22	–	–	–	–		
HBL ¹	1	15 - 70	–	65	–	–	–	–	–		
	2	15 - 100	–	65	–	–	–	–	–		
	3	15 - 100	–	–	65	–	–	–	–		
BQD ^{1,3}	1	–	65	–	14	–	–	14	–		
	2	15 - 100	–	65	–	14	–	14	–		
	3	–	–	65	–	14	–	14	–		
125	NGB ^{2,3}	1	–	100	–	–	25	–	–	14	
		2	15 - 125	–	100	100	–	25	–	–	
		3	–	–	100	100	–	25	–	–	
	NEB ^{3,4}	1	–	85	–	–	35	–	–	–	
		2	15 - 125	–	85	85	–	35	–	–	
		3	–	–	85	85	–	35	–	–	
	HEB ^{3,4}	1	–	100	–	–	65	–	–	–	
		2	15 - 125	–	100	100	–	65	–	–	
		3	–	–	100	100	–	65	–	–	
	ED4 ⁵	1	15 - 125	65	–	–	22	–	–	–	
		2	–	–	–	65	–	18	–	30	
		3	–	–	–	65	–	18	–	–	
	ED6 ⁵	2	15 - 125	–	–	65	–	25	18	30	
		3	–	–	–	65	–	25	18	–	
HED4 ⁵ HHED6 ⁵	1	–	100	–	–	–	–	–	–		
	2	15 - 125	–	–	–	65	–	–	–		
	3	–	–	–	100	42	42	–	30		
225	QJ2 ⁶	2 & 3	60 - 225	–	–	10	–	–	–		
	QJH2 ⁶	2 & 3	60 - 225	–	–	22	–	–	–		
	QJ2-H ⁶	2 & 3	60 - 225	–	–	42	–	–	–		
	HQJ2H ⁶	2 & 3	100 - 225	–	–	100	–	–	–		

¹ BL, HBL, BLH and BQD breakers are mounted in common mountings in 3" or 6 pole increments.

² NGB breakers are counted in common mountings of 3" or 6 pole increments.

³ For use on 480Y/277 volt systems. Not suitable for 480 Delta 3 phase 3 wire systems.

⁴ NEB/HE breakers are counted in common mountings of 3" or 6 pole increments.

⁵ ED4, ED6, HED4 and HHED6 breakers are mounted in common mountings in 3" or (6) pole increments.

⁶ QJ Breakers are single mounted in unit space and take 6" of unit space. Limited to (3) per panel max.

Modifications and Dimensions

Panel Options, Enclosures

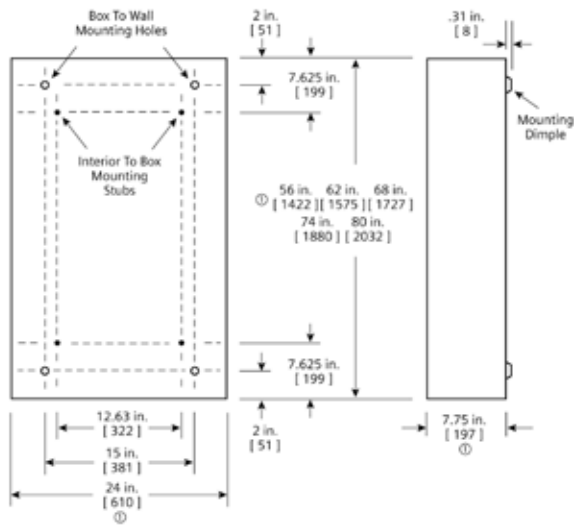
- Extra gutter to sides or ends of the can
- 24" wide boxes
- Hinged trims
- Door-in-door trims
- Screw to the box trims
- Trim mounted devices (Devices mounted and wired to the trim should also have hinged trim specified.)
 - Pilot lights
 - Toggle switches
 - Push buttons

- Painted boxes
- Custom colors
- Increase gauge trims and boxes
- Stainless steel trims and boxes, Type 1
- Aluminum trims and boxes, Type 1
- NEMA 3R enclosures
- NEMA 3R/12 enclosures
- NEMA 4 enclosures
- NEMA 4X enclosures

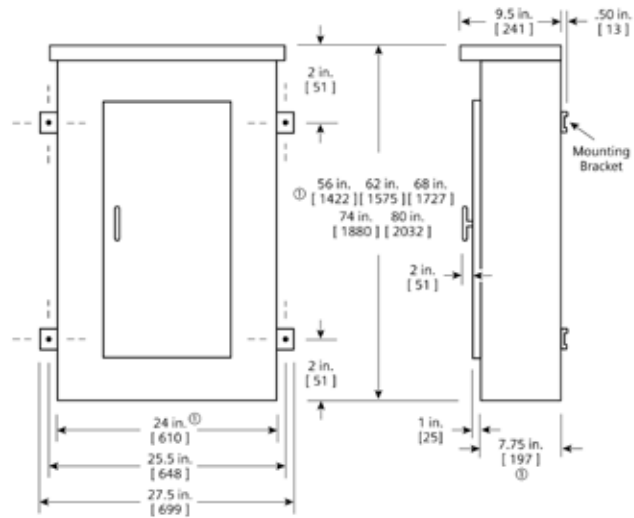
- Special keyed locks
 - TEY
 - TEU1
 - Cat 60
 - LL803
 - LL806
 - Yale
- Meters
(Contact application engineering for space requirements.)
- Panel skirts
- Gaskets between trim and box

Type P3 Dimensions

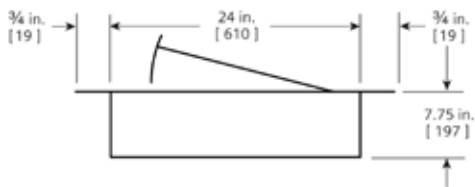
Type 1 Box (Box is Symmetrical)



Type 3R and 3R/12 Box



Flush Mounting



① Dimensions are interior of the box. Add 5/8" to width for absolute dimension. Add 1/8" to height for absolute dimension. Dimensions shown in inches and millimeters [].

Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

www.usa.siemens.com/panelboards

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