

Next Gen P1—Ready To Assemble Panelboards

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Panelboard Ratings

Description	Next Gen P1
Max. Voltage	600Y/347V AC Max.
System	1-Phase, 3-wire 3-Phase, 4-wire
Amperage	400A Max. Mains 125A Max. Branch (Interior) 250A Max. Branch (Subfeed Breaker)
Circuits	18, 30, 42, 54
Branch Disconnect Devices	BL, BLH, HBL, BQD, BQD6, BLE, BLEH, BLF, BLHF, BAF, BAFH, BAF2, BAFH2, HBAF2, NGB
Subfeed Circuit Breakers	ED2, ED4, ED6, HED4, QR2, QRH2, HQR2, HQR2H, FD6, HFD6, FXD6, HFXD6
Enclosure Heights Inches (mm)	32, 38, 44, 50 @ 250A (813, 965, 1118, 1270) 62, 68, 74 @ 400A (1574, 1727, 1880)
Standard Trims	Fas-Latch – 1 Piece Surface or Flush

Step 2

Select the box and trim needed. Select the appropriate height based on number of circuits. For interiors with copper bussing, replace the 11th digit with a "C"

Type P1 panelboards

Interiors only – Less branch breakers

Amps	Max. # of Poles	Bus Material	Next Gen P1 Main Lug Interior Catalogue Number	Box Type 1 Encl.	Trims Type 1 Surface	Trims Type 1 Flush
1-Phase, 3-Wire 120/240V						
18			P1A18ML250AT	B32	S32B	F32B
30			P1A30ML250AT	B38	S38B	F38B
42	AI	Al	P1A42ML250AT	B44	S44B	F44B
54			P1A54ML250AT	B50	S50B	F50B
30			P1A30ML400AT	B62	S62B	F62B
400	42	AI	P1A42ML400AT	B68	S68B	F68B
54			P1A54ML400AT	B74	S74B	F74B
3-Phase, 4-Wire 208Y/120V						
18			P1C18ML250AT	B32	S32B	F32B
30			P1C30ML250AT	B38	S38B	F38B
42	AI	Al	P1C42ML250AT	B44	S44B	F44B
54			P1C54ML250AT	B50	S50B	F50B
30			P1C30ML400AT	B62	S62B	F62B
400	42	AI	P1C42ML400AT	B68	S68B	F68B
54			P1C54ML400AT	B74	S74B	F74B
3-Phase, 4-Wire 600Y/347V						
18			P1L18ML250AT	B32	S32B	F32B
30			P1L30ML250AT	B38	S38B	F38B
42	AI	Al	P1L42ML250AT	B44	S44B	F44B
54			P1L54ML250AT	B50	S50B	F50B
30			P1L30ML400AT	B62	S62B	F62B
400	42	AI	P1L42ML400AT	B68	S68B	F68B
54			P1L54ML400AT	B74	S74B	F74B
Interiors for NGB Breakers – 3-Phase, 4-Wire 600Y/347V						
18			P1L18ML250AT-NGB	B32	S32B	F32B
30			P1L30ML250AT-NGB	B38	S38B	F38B
42	AI	Al	P1L42ML250AT-NGB	B44	S44B	F44B
54			P1L54ML250AT-NGB	B50	S50B	F50B
30			P1L30ML400AT-NGB	B62	S62B	F62B
400	42	AI	P1L42ML400AT-NGB	B68	S68B	F68B
54			P1L54ML400AT-NGB	B74	S74B	F74B

Step 3

Select main breaker kit or feed-thru lug kit (if required). Main/subfeed breaker mounting kits may be ordered with or without breaker.

Main breaker mounting kits with breakers

Catalogue Number	Description	Max. Interrupting Rating (kA)	
		240V	600V
MBKED33100A	Kit w/3-pole ED6 100A breaker	65kA	18kA
MBKED33125A	Kit w/3-pole ED6 125A breaker	65kA	18kA
MBKQR12225A	Kit w/2-pole QR2 225A breaker	10kA	—
MBKQR33150A	Kit w/3-pole QR2 150A breaker	10kA	—
MBKQR33200A	Kit w/3-pole QR2 200A breaker	10kA	—
MBKQR33225A	Kit w/3-pole QR2 225A breaker	10kA	—
MBKFD33200A	Kit w/3-pole FXD6 200A breaker	65kA	22kA
MBKFD33225A	Kit w/3-pole FXD6 225A breaker	65kA	22kA
MBKFD33250A	Kit w/3-pole FXD6 250A breaker	65kA	22kA
MBKFH33250A	Kit w/3-Pole HFD6 250A breaker	100kA	25kA
MBKJD3400A	Kit w/3-pole JXD6 400A breaker	65kA	25kA

Lug Kits – Main or Feed Thru

Amp Rating	Main Bus Material	Wire Range (includes Neutral)	Service	Next Gen P1 Catalogue Number
250	Al	(1) #6 AWG – 350 kcmil (Cu or Al)	1 Phase	MLKA1A
	Al	(1) #6 AWG – 350 kcmil (Cu or Al)	3 Phase	MLKA3A
	Cu	(1) #6 AWG – 350 kcmil (Cu or Al)	1 Phase	MLKC1A
400	Al	(2) 1/0 - 250 kcmil or (1) #2 AWG-600 kcmil	1 Phase	4MLKA1A
	Al	(2) 1/0 - 250 kcmil or (1) #2 AWG-600 kcmil	3 Phase	4MLKA3A
	Cu	(1) 1/0-600 kcmil Cu or (2) 1/0-4/0 Cu	1 Phase	4MLKC1A
400	Al	Al 1/0-750 kcmil (max. 600 kcmil Cu wire)	3 Phase	4MLKC3A
	Al	Al 1/0-750 kcmil (max. 600 kcmil Cu wire)	1 Phase	4MLKA1B
			3 Phase	4MLKA3B

Breaker Mounting Kits – Main or Subfeed Strap Kit w/o Breaker

Amp Rating	Breaker Types	Service	Next Gen P1 Catalogue Number
100A	BQD	3-Phase	MLK3A
100A	BL, BLH, HBL	1-Phase	MLK1A
100A	BL, BLH, HBL	3-Phase	MLK3A
125A	NGB	1-Phase	MLK1A
125A	NGB	3-Phase	MLK3A
125A	ED4, ED6, HED4	1-Phase	MLK1A
125A	ED4, ED6, HED4	3-Phase	MLK3A
225A	QR2, QRH2, HQR2, HQR2H	1-Phase	MLK1A
225A	QR2, QRH2, HQR2, HQR2H	3-Phase	MLK3A
250A	FXD6, FD6, HFD6, HFXD6	1-Phase	MLK1A
250A	FXD6, FD6, HFD6, HFXD6	3-Phase	MLK3A
400A	JXD2, JD6, JXD6, HJD6, HJXD6	1-Phase	MLK1A
400A	JXD2, JD6, JXD6, HJD6, HJXD6	3-Phase	MLK3A



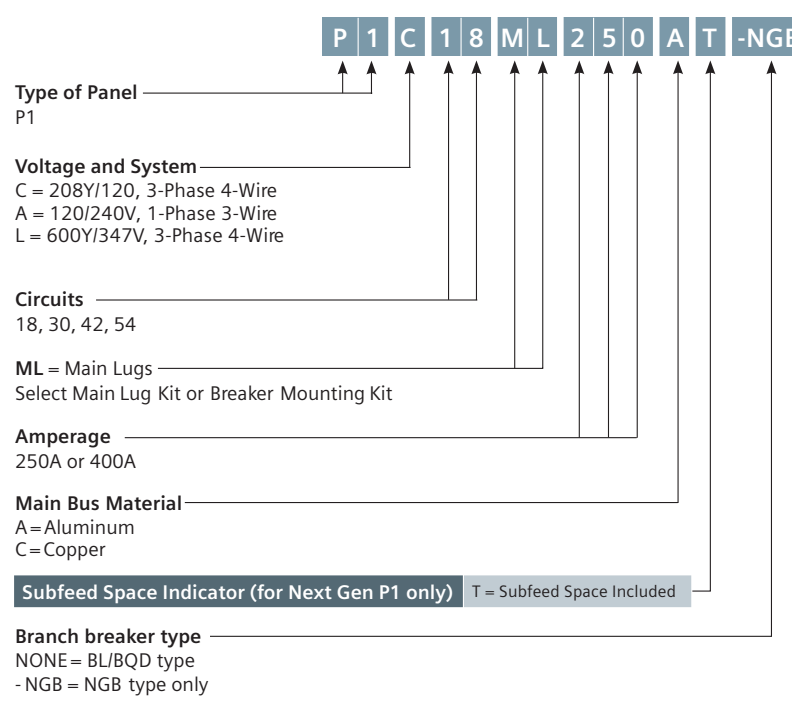
© 400 amp kits is for main only – not allowed for subfeed breaker

Step 1

Determine Voltage, System, Amperage and Bussing Material to select the appropriate Interior from the table in Step 2.

New for Next Gen P1:

- Up to 54 circuit P1 interiors
- 750 kcmil Main Lug kit available for 400A panels
- NGB branch feeder breaker interiors, allowing branch devices up to 125A and interrupting rating of 14kA @ 600Y/347V
- BL/BQD and NGB type Main Breakers allowed only as "Back-Fed" construction in unit space



Step 4

List required branch circuit breakers, type BL, BQD6 or NGB (based on selected interrupting rating).

BL Branch Breakers 10,000A IR (120/240V)			BLH Branch Breakers 22,000A IR (120/240V)			BQD6 Branch Breakers 10,000A IR max. @ 600/347 Vac			NGB Branch Breakers 14,000 IR max. @ 600/347 Vac			
Ampere Rating	1-Pole Catalogue Number	2-Pole Catalogue Number	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	
15	B115	B215	B315	B115H	B215H	B315H	BQD6115	BQD6215	BQD6315	NGB1B015B	NGB2B015B	NGB3B015B
20	B120	B220	B320	B120H	B220H	B320H	BQD6120	BQD6220	BQD6320	NGB1B020B	NGB2B020B	NGB3B020B
30	B130	B230	B330	B130H	B230H	B330H	BQD6130	BQD6230	BQD6330	NGB1B030B	NGB2B030B	NGB3B030B
40	B140	B240	B340	B140H	B240H	B340H	BQD6140	BQD6240	BQD6340	NGB1B040B	NGB2B040B	NGB3B040B
50	B150	B250	B350	B150H	B250H	B350H	BQD6150	BQD6250	BQD6350	NGB1B050B	NGB2B050B	NGB3B050B
60	B160	B260	B360	B160H	B260H	B360H	BQD6160	BQD6260	BQD6360	NGB1B060B	NGB2B060B	NGB3B060B
70	B170	B270	B370	B170H	B270H	B370H	BQD6170	BQD6270	BQD6370	NGB1B070B	NGB2B070B	NGB3B070B
80	—	B280	B380	—	B280H	B380H	—	—	—	NGB1B080B	NGB2B080B	NGB3B080B
90	—	B290	B390	—	B290H	B390H	—	—	—	NGB1B090B	NGB2B090B	NGB3B090B
100	—	B2100	B3100	—	B2100H	B3100H	—	—	—	NGB1B100B	NGB2B100B	NGB3B100B
110	—	—	—	—	—	—	—	—	—	NGB1B110B	NGB2B110B	NGB3B110B
125	—	—	—	—	—	—	—	—	—	NGB1B125B	NGB2B125B	NGB3B125B

GFCI Personnel Protection (5mA) 10,000A IR				GFCI Equipment Protection (30mA) 22,000A IR				AFCI – Combination Type Arc Fault Circuit Interrupter 10,000A IR, 22,000A IR, 65,000 IR		
Ampere rating	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	1-Pole Catalogue Number	2-Pole Catalogue Number	3-Pole Catalogue Number	
15	BF115	BF215	BF115H	BF215H	BE115	BE215	BA115AFC	BA115AFCH	BA115AFCHH	
20	BF120	BF220	BF120H	BF220H	BE120	BE220	BA120AFC	BA120AFCH	BA120AFCHH	
30	BF130	BF230	BF130H	BF230H	BE130	BE230	—	—	—	
40	—	BF240	—	BF240H	—	BE240	—	—	—	
50	—	BF250	—	BF250H	—	BE250	—	—	—	
60	—	BF260	—	BF260H	—	BE260	—	—	—	

Step 5

Select P1 accessories.

Copper Neutral Lug Kits – 250A

No. of circuits	Next Gen P1 Catalogue Number	Description
18	Use 30 ckt kit	
30	CNLK30A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
42	CNLK42A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
54, 66	CNLK54A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware

200% Neutral Lug Kits – 250A

No. of circuits	Next Gen P1 Catalogue Number	Description
18	Use 30 ckt kit	
30	2NLK30A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
42	2NLK42A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
54, 66	2NLK54A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware

2/0 Neutral Lug Kits – 250A & 400A

No. of circuits	Next Gen P1 Catalogue Number	Description
18	Use 30 ckt kit	
30	LNLK30A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
42	LNLK42A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
54, 66	LNLK54A	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware

200% Neutral Lug Kits – 400A

No. of circuits	Next Gen P1 Catalogue Number	Description
18	Use 30 ckt kit	
30	42NLK30A	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware
42	42NLK42A	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware
54, 66	42NLK54A	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware

Surge Protection Devices

Catalogue #	TPS3	02	09	00	01	02
TPS3 02 Internally mounted; direct bus connection				TPS3 09 Internally or Externally mounted (20A 2-pole breaker required)		

Miscellaneous Parts and Accessories

Catalogue Number	Description
BK1A	Bonding Kit for 250A max. Next Gen P1 panels
IMK1	Interior Adjusting Kit
11-1824-01	Directory Card Holder
LPDC01	Directory Card (Pack of 10; ref. 12-1110-01)
11-1056-01B	Instruction Book
NBK03	Number Strips 1–42. Stick-on type; Use w/ P1 series Panels
NBK04	Number Strips 43–84. Stick-on type; Use w/ P1 series Panels
NBK05	Number Strips 85–126. Stick-on type; Use w/ P1 series Panels
NBK06	Number Strips 127–168. Stick-on type; Use w/ P1 series Panels
EGK	Al Ground Bus 44 Connections
ECKG	Cu Ground Bus 44 Connections
IGK	Insulated Al Ground Bus
ICGK	Insulated Cu Ground Bus
P1SCRW5	Package of 42 breaker mounting screws for P1
DFFP1	1" Branch circuit filler plate – suitable for replacing QF3-UL in panelboards (Package of 100 filler plates)
P1CONBPCHU	Connector kit – 6 pcs. B-phase Copper
P1CONBPHAL	Connector kit – 6 pcs. B-phase Aluminum
P1CONACPCHU	Connector kit – 6 pcs. A or C-phase Copper
P1CONACPHAL	Connector kit – 6 pcs. A or C-phase Aluminum
MCHK	1 Metallic directory card holder
FPLK2	2 Spare Fas-latch trim locks with 2 keys
SDKN	Dripshield kit (20" W x 5.75" D)
TPS9KITP1A	Next Gen P1 mounting bracket for SPD TPS3 09
MBKBFA	Back-Fed Main Breaker kit

For more information visit: www.siemens.ca/powerdistribution