

# Panelboards

## Distributor Stock - Type P1 Ready To Assemble Panelboards

Reference

### 400A Max. — 20" Wide x 5.75" Deep

1. Choose the appropriate Interior from the table below.
2. Choose the Main Device: Main Lugs from page 10-12, Main Breaker Kit from pages 10-12 - 10-13.
3. Choose Branch Breakers. BL, BQD and NGB breakers from pages 10-13 - 10-14.
4. Choose Feed-Thru Lugs or Subfeed Breaker Kit from page 10-12.

### Type P1 Into Stock Panelboards (Next Gen P1 introduced in June 2015)

Amps	Max. #of Poles	Original Main Lugs Interior Cat. Number	Next Gen P1 Main Lug Interior Cat. Number	Original Main Convertible Interior Cat. Number	Next Gen P1 Main Convertible Interior Cat. Number	Box Size	Type 1 Encl.	Type 3R/12 Encl.®	Type 1 Front Surface	Type1 Front Flush
<b>1-Phase, 3-Wire 120/240V</b>										
250	18	P1A18ML250A	P1A18MC250AT	P1A18MC250A	P1A18MC250AT	32	B32	WP32	S32B	F32B
	30	P1A30ML250A	P1A30ML250AT	P1A30MC250A	P1A30MC250AT	38	B38	WP38	S38B	F38B
	42	P1A42ML250A	P1A42ML250AT	P1A42MC250A	P1A42MC250AT	44	B44	WP44	S44B	F44B
	54	—	P1A54ML250AT	—	P1A54MC250AT	50	B50	WP50	S50B	F50B
400	18	P1A18ML400A	—	P1A18MC400A	—	62	B62	—	—	—
	30	P1A30ML400A	P1A30ML400AT	P1A30MC400A	P1A30MC400AT	68	B68	WP68	S68B	F68B
	42	P1A42ML400A	P1A42ML400AT	P1A42MC400A	P1A42MC400AT	74	B74	WP74	S74B	F74B
	54	—	P1A54ML400AT	—	P1A54MC400AT	—	—	—	—	—
250	18	P1A18ML250C	P1A18ML250CT	P1A18MC250C	P1A18MC250CT	32	B32	WP32	S32B	F32B
	30	P1A30ML250C	P1A30ML250CT	P1A30MC250C	P1A30MC250CT	38	B38	WP38	S38B	F38B
	42	P1A42ML250C	P1A42ML250CT	P1A42MC250C	P1A42MC250CT	44	B44	WP44	S44B	F44B
	54	—	P1A54ML250CT	—	P1A54MC250CT	50	B50	WP50	S50B	F50B
400	18	P1A18ML400C	—	P1A18MC400C	—	62	B62	—	—	—
	30	P1A30ML400C	P1A30ML400CT	P1A30MC400C	P1A30MC400CT	68	B68	WP68	S68B	F68B
	42	P1A42ML400C	P1A42ML400CT	P1A42MC400C	P1A42MC400CT	74	B74	WP74	S74B	F74B
	54	—	P1A54ML400CT	—	P1A54MC400CT	—	—	—	—	—
<b>3-Phase, 4-Wire 208Y / 120V</b>										
250	18	P1C18ML250A	P1C18ML250AT	P1C18MC250A	P1C18MC250AT	32	B32	WP32	S32B	F32B
	30	P1C30ML250A	P1C30ML250AT	P1C30MC250A	P1C30MC250AT	38	B38	WP38	S38B	F38B
	42	P1C42ML250A	P1C42ML250AT	P1C42MC250A	P1C42MC250AT	44	B44	WP44	S44B	F44B
	54	—	P1C54ML250AT	—	P1C54MC250AT	50	B50	WP50	S50B	F50B
400	18	P1C18ML400A	—	P1C18MC400A	—	62	B62	—	—	—
	30	P1C30ML400A	P1C30ML400AT	P1C30MC400A	P1C30MC400AT	68	B68	WP68	S68B	F68B
	42	P1C42ML400A	P1C42ML400AT	P1C42MC400A	P1C42MC400AT	74	B74	WP74	S74B	F74B
	54	—	P1C54ML400AT	—	P1C54MC400AT	—	—	—	—	—
250	18	P1C18ML250C	P1C18ML250CT	P1C18MC250C	P1C18MC250CT	32	B32	WP32	S32B	F32B
	30	P1C30ML250C	P1C30ML250CT	P1C30MC250C	P1C30MC250CT	38	B38	WP38	S38B	F38B
	42	P1C42ML250C	P1C42ML250CT	P1C42MC250C	P1C42MC250CT	44	B44	WP44	S44B	F44B
	54	—	P1C54ML250CT	—	P1C54MC250CT	50	B50	WP50	S50B	F50B
400	18	P1C18ML400C	—	P1C18MC400C	—	62	B62	—	—	—
	30	P1C30ML400C	P1C30ML400CT	P1C30MC400C	P1C30MC400CT	68	B68	WP68	S68B	F68B
	42	P1C42ML400C	P1C42ML400CT	P1C42MC400C	P1C42MC400CT	74	B74	WP74	S74B	F74B
	54	—	P1C54ML400CT	—	P1C54MC400CT	—	—	—	—	—
<b>3-Phase, 4-Wire 600Y/347V</b>										
250	18	P1L18ML250A	P1L18ML250AT	P1L18MC250A	P1L18MC250AT	32	B32	WP32	S32B	F32B
	30	P1L30ML250A	P1L30ML250AT	P1L30MC250A	P1L30MC250AT	38	B38	WP38	S38B	F38B
	42	P1L42ML250A	P1L42ML250AT	P1L42MC250A	P1L42MC250AT	44	B44	WP44	S44B	F44B
	54	—	P1L54ML250AT	—	P1L54MC250AT	50	B50	WP50	S50B	F50B
400	18	P1L18ML400A	—	P1L18MC400A	—	62	B62	—	—	—
	30	P1L30ML400A	P1L30ML400AT	P1L30MC400A	P1L30MC400AT	68	B68	WP68	S68B	F68B
	42	P1L42ML400A	P1L42ML400AT	P1L42MC400A	P1L42MC400AT	74	B74	WP74	S74B	F74B
	54	—	P1L54ML400AT	—	P1L54MC400AT	—	—	—	—	—
250	18	P1L18ML250C	P1L18ML250CT	P1L18MC250C	P1L18MC250CT	32	B32	WP32	S32B	F32B
	30	P1L30ML250C	P1L30ML250CT	P1L30MC250C	P1L30MC250CT	38	B38	WP38	S38B	F38B
	42	P1L42ML250C	P1L42ML250CT	P1L42MC250C	P1L42MC250CT	44	B44	WP44	S44B	F44B
	54	—	P1L54ML250CT	—	P1L54MC250CT	50	B50	WP50	S50B	F50B
400	18	P1L18ML400C	—	P1L18MC400C	—	62	B62	—	—	—
	30	P1L30ML400C	P1L30ML400CT	P1L30MC400C	P1L30MC400CT	68	B68	WP68	S68B	F68B
	42	P1L42ML400C	P1L42ML400CT	P1L42MC400C	P1L42MC400CT	74	B74	WP74	S74B	F74B
	54	—	P1L54ML400CT	—	P1L54MC400CT	—	—	—	—	—
<b>Interiors for NGB Breakers — 3-Phase, 4-Wire 600Y/347V</b>										
250	18	—	P1L18ML250AT-NGB	—	P1L18MC250AT-NGB	32	B32	WP32	S32B	F32B
	30	—	P1L30ML250AT-NGB	—	P1L30MC250AT-NGB	38	B38	WP38	S38B	F38B
	42	—	P1L42ML250AT-NGB	—	P1L42MC250AT-NGB	44	B44	WP44	S44B	F44B
	54	—	P1L54ML250AT-NGB	—	P1L54MC250AT-NGB	50	B50	WP50	S50B	F50B
400	18	—	—	—	—	62	B62	—	—	—
	30	—	P1L30ML400AT-NGB	—	P1L30MC400AT-NGB	68	B68	WP68	S68B	F68B
	42	—	P1L42ML400AT-NGB	—	P1L42MC400AT-NGB	74	B74	WP74	S74B	F74B
	54	—	P1L54ML400AT-NGB	—	P1L54MC400AT-NGB	—	—	—	—	—
250	18	—	P1L18ML250CT-NGB	—	P1L18MC250CT-NGB	32	B32	WP32	S32B	F32B
	30	—	P1L30ML250CT-NGB	—	P1L30MC250CT-NGB	38	B38	WP38	S38B	F38B
	42	—	P1L42ML250CT-NGB	—	P1L42MC250CT-NGB	44	B44	WP44	S44B	F44B
	54	—	P1L54ML250CT-NGB	—	P1L54MC250CT-NGB	50	B50	WP50	S50B	F50B
400	18	—	—	—	—	62	B62	—	—	—
	30	—	P1L30ML400CT-NGB	—	P1L30MC400CT-NGB	68	B68	WP68	S68B	F68B
	42	—	P1L42ML400CT-NGB	—	P1L42MC400CT-NGB	74	B74	WP74	S74B	F74B
	54	—	P1L54ML400CT-NGB	—	P1L54MC400CT-NGB	—	—	—	—	—



42 circuit with Back-fed Main



54 circuit 400A

© Front included in type 3R/12 Box.

# Panelboards

## Warehouse Stock – Type P1 Panelboards

*Selection*

### Lug Kits – Main or Feed Thru

Amp Rating	Matl.	Wire Range (includes Neutral)	Service	Original P1 Cat. No.	Next Gen P1 Cat. No.
250	AL	(1) #6 AWG- 350 kcmil (CU or AL)	1 Phase	<b>MLKA1</b>	<b>MLKA1A</b>
			3 Phase	<b>MLKA3</b>	<b>MLKA3A</b>
	CU	(1) #6 AWG- 350 kcmil (CU or AL)	1 Phase	<b>MLKC1</b>	<b>MLKC1A</b>
			3 Phase	<b>MLKC3</b>	<b>MLKC3A</b>
400	AL	(2) 1/0 - 250 kcmil or (1) #2 AWG-600 kcmil	1 Phase	<b>4MLKA1</b>	<b>4MLKA1A</b>
			3 Phase	<b>4MLKA3</b>	<b>4MLKA3A</b>
	CU	(2) 1/0 - 4/0 or (1) 1/0 - 600 kcmil	1 Phase	<b>4MLKC1</b>	<b>4MLKC1A</b>
			3 Phase	<b>4MLKC3</b>	<b>4MLKC3A</b>
400	AL	(1) AL 1/0-750 kcmil (2) AL/CU 250 kcmil max. [max.(1) 600 kcmil CU wire]	1 Phase	–	<b>4MLKA1B</b>
			3 Phase	–	<b>4MLKA3B</b>

### Breaker Mounting Kits 250A Max. – Main or Subfeed w/o Breaker

Amp Rating	Breaker Types	Service	Original P1 Cat. No.	Next Gen P1 Cat. No.②
100A	BL, BLH, HBL	1-Phase	<b>MBKBL1</b>	<b>MBKBL1A</b>
		3-Phase	<b>MBKBL3</b>	<b>MBKBL3A</b>
100A	BQD	1-Phase	–	<b>MBKBC1NBA</b>
		3-Phase	–	<b>MBKBC3NBA</b>
125A	NGB	1-Phase	<b>MBKBN1</b>	<b>MBKBC1NBA</b>
		3-Phase	<b>MBKBN3</b>	<b>MBKBC3NBA</b>
125A	ED4, ED6, HED4, HED6	1-Phase	<b>MBKED1</b>	<b>MBKED1A</b>
		3-Phase	<b>MBKED3</b>	<b>MBKED3A</b>
225A	QJ2, QJH2, QJ2H	1-Phase	<b>MBKQJ1</b>	<b>MBKQJ1A</b>
		3-Phase	<b>MBKQJ3</b>	<b>MBKQJ3A</b>
225A③	QR2, QRH2, HQR2, HQR2H	1-Phase	<b>MBKQR1</b>	<b>MBKQR1A</b>
		3-Phase	<b>MBKQR3</b>	<b>MBKQR3A</b>
250A	FXD6, FD6, HFD6, HFXD6	1-Phase	<b>MBKFD1</b>	<b>MBKFD1A</b>
		3-Phase	<b>MBKFD3</b>	<b>MBKFD3A</b>
400A①	JXD2, JD6, JXD6, HJD6, HJXD6	1-Phase	<b>MBKJD1</b>	<b>MBKJD1A</b>
		3-Phase	<b>MBKJD3</b>	<b>MBKJD3A</b>

### Copper Neutral Lug Kits – 250A

No. of Circuits	Description	Original P1 Cat. No.	Next Gen P1 Cat. No.
18	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware	<b>CNKL18</b>	Use 30 ckt kit
30		<b>CNKL30</b>	<b>CNLK30A</b>
42		<b>CNKL42</b>	<b>CNLK42A</b>
54, 66		–	<b>CNLK54A</b>

### 2/0 Neutral Lug Kits – 250A and 400A

No. of Circuits	Description	Original P1 Cat. No.	Next Gen P1 Cat. No.
18	2 or 4 Branch Neutral Strips, Hardware	–	Use 30 ckt kit
30		–	<b>LNLK30A</b>
42		–	<b>LNLK42A</b>
54, 66		–	<b>LNLK54A</b>

### 200% Neutral Lug Kits/250A

No. of Circuits	Description	Original P1 Cat. No.	Next Gen P1 Cat. No.
18	2 or 4 Branch Neutral Strips, 2 Main Neutral Lugs, Hardware	<b>2NLK18</b>	Use 30 ckt kit
30		<b>2NLK30</b>	<b>2NLK30A</b>
42		<b>2NLK42</b>	<b>2NLK42A</b>
54, 66		–	<b>2NLK54A</b>

### 200% Neutral Lug Kits/400A

No. of Circuits	Description	Original P1 Cat. No.	Next Gen P1 Cat. No.
18	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware	<b>42NLK18</b>	Use 30 ckt kit
30		<b>42NLK30</b>	<b>42NLK30A</b>
42		<b>42NLK42</b>	<b>42NLK42A</b>
54, 66		–	<b>42NLK54A</b>

① 400 amp kit is for main only – not allowed for subfeed breaker.  
 ② **MBKBFA** kit is available to mount BL/BQD/NGB 2-pole or 3-pole in unit space as a "Back-Fed Main". This occupies branch space and reduces circuit count by 2 or 3 positions. (includes Neutral Lug, "MAIN" label and instructions).  
 ③ Although QR is rated 250A, it is limited to 225A in panelboard.  
 ④ Original P1 kits will not work with Next Gen P1 interiors if the chart shows different part numbers for each.



**MBKFD3A**



### Miscellaneous Parts and Accessories

Catalogue Number	Description
<b>BK1</b>	Bonding Kit for 400A max. Original P1 Panels
<b>BK1A</b>	Bonding Kit for 400A max. Next Gen P1 Panels
<b>BK2</b>	Bonding kit for S1/S2 400 & 600
<b>BK3</b>	Bonding kit for S3 Panel
<b>IMK1</b>	Interior Adjusting Kit
<b>11-1824-01</b>	Directory Card Holder
<b>LPDC01</b>	Directory Card (Pack of 10; ref. 12-1110-01)
<b>MCHK</b>	Metal Card Holder Kit
<b>NBK03</b>	Number Strips 1–42. Stick-on type; Use w/ P1 series Panels
<b>NBK04</b>	Number Strips 43–84. Stick-on type; Use w/ P1 series Panels
<b>NBK05</b>	Number Strips 85–126. Stick-on type; Use w/ P1 series Panels
<b>NBK06</b>	Number Strips 127–168. Stick-on type; Use w/ P1 series Panels
<b>EGK</b>	AL Ground Bus 44 Connections
<b>ECGK</b>	CU Ground Bus 44 Connections
<b>IGK</b>	Insulated AL Ground Bus
<b>ICGK</b>	Insulated CU Ground Bus
<b>EWK1</b>	End Wall Kit with Knockouts (20" W x 5.75" DP)
<b>EWK2</b>	End Wall Kit with Knockouts (24" W x 7.75" DP)
<b>P1SCRWS</b>	Package of 42 breaker mounting screws for P1
<b>DFFP1</b>	1" Branch circuit filler plate (suitable for replacing QF3 in P1 thru P5 Panelboards and Switchboards)
<b>P1CONBPHCU</b> ④	Connector kit – 6 pcs. B-phase Copper
<b>P1CONBPHAL</b> ④	Connector kit – 6 pcs. B-phase Aluminum
<b>P1CONACPHCU</b> ④	Connector kit – 6 pcs. A or C-phase Copper
<b>P1CONACPHAL</b> ④	Connector kit – 6 pcs. A or C-phase Aluminum
<b>MBKQRFK</b>	P1/Next Gen P1 Filler for 1PH/3PH QR. Horizontal mount only.
<b>TPS9IKITP1</b>	Original P1 mounting bracket for SPD TPS3 09
<b>TPS9IKITP1A</b>	Next Gen P1 mounting bracket for SPD TPS3 09

⑤ Next Gen P1 kits will not work with Original P1 interiors if the chart shows different part numbers for each.  
 ⑥ Replacement parts only.  
 ⑦ PDF can be downloaded and printed at this location: <http://www.nema.org/standards/pages/Panelboards.aspx> (ref. Material #11-1056-01)

# Panelboards

## Warehouse Stock – Type P1 Panelboards

*Selection*

**Main Breaker Mounting Kits with Breakers for P1 Panels** (250A and lower can be used as subfeed kits also)

Nex Gen P1 Catalogue No.	Description	Ratings	
		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/2-pole QR2 150A breaker	10kA	—
MBKQR33200A	Kit w/2-pole QR2 200A breaker	10kA	—
MBKQR33225A	Kit w/2-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
MBKHF33250A	Kit with 3-Pole HFD6 250A Breaker	100kA	25kA
MBKJD33400A <sup>Ⓞ</sup>	Kit w/2-pole JXD6 300A breaker	65kA	25kA

NOTE: \*Next Gen P1\* Kits above only work for interior numbers ending in "T" or "N". Use \*Original P1\* main connector kits and loose breaker for all others.

### GFCI Personnel Protection (5MA)

Breaker Type	Ampere Rating	Catalogue Number	Interrupting Ratings (kA) RMS Symmetrical Amperes		
			Volts AC		
			120	120/240	240
BLF2 1-Pole	15	BF115A BF120A BF130A	10	—	—
	20				
	30				
BLFB 2-Pole	15	BF215A BF220A BF230A BF240A BF250A BF260A	—	10	—
	20				
	30				
	40				
	50				
	60				
BLHF2 1-Pole	15	BF115AH BF120AH BF130AH	22	—	—
	20				
	30				
BLHF2 2-Pole	15	BF215AH■ BF220AH BF230AH BF240AH■ BF250AH■ BF260AH	—	22	—
	20				
	30				
	40				
	50				
	60				
HBLF2 1-Pole	15	BF115AHH BF120AHH BF130AHH	65	—	—
	20				
	30				



**300A Main installed.**  
These Next Gen P1 kits can now be used as top or bottom feed.

### AFCI – Combination Type Arc Fault Circuit Interrupter

Breaker Type	Ampere Rating	Catalogue Number	Interrupting Ratings (kA) RMS Symmetrical Amperes		
			Volts AC		
			120	120/240	240
BAF2 1-pole	15	BA115AFC	10	—	—
	20	BA120AFC	10	—	—
BAFH2 1-pole	15	BA115AFCH	22	—	—
	20	BA120AFCH	22	—	—
HBAF2 1-pole	15	BA115AFCHH	65	—	—
	20	BA120AFCHH	65	—	—
BAF 2-pole	15	B215AFC	—	10	—
	20	B20AFC	—	10	—
BAF2 2-pole	15	B215AFCH	—	22	—
	20	B220AFCH	—	22	—

### Dual Function AFCI/GFCI Circuit Breakers

Breaker Type	Ampere Rating	Catalogue Number	Interrupting Ratings (kA) RMS Symmetrical Amperes		
			Volts AC		
			120	120/240	240
BFGA2 1-pole	15	B115DF	10	—	—
	20	B120DF	10	—	—
BFGA2 1-pole	15	B115DFH	22	—	—
	20	B120DFH	22	—	—
HBFGA2 1-pole	15	B115DFHH	65	—	—
	20	B120DFHH	65	—	—

■ Built to order. Allow 8-10 weeks for delivery.

Ⓞ Kits are for Main only. New "Next Gen P1" kits can be used for either top feed or bottom feed.