Distributor Stock – Type P1 Panelboards

Lug Kits — Main or Feed Thru

Amp Rating	Mat.	Wire Range (includes Neutral)	Service	Original P1 Catalog No.	Revised P1 Catalog No.
	AL	(1) #6 AWG-	1 Phase	MLKA1	MLKA1A
250	AL	350 kcmil (CU or AL)	3 Phase	MLKA3	MLKA3A
250	cυ	(1) #6 AWG- 350 kcmil (CU or AL)	1 Phase	MLKC1	MLKC1A
			3 Phase	MLKC3	MLKC3A
	AL	(2) 1/0 - 250 kcmil or (1) #2 AWG-600 kcmil	1 Phase	4MLKA1	4MLKA1A
400	AL		3 Phase	4MLKA3	4MLKA3A
400	CU	(2) 1/0 - 4/0 or (1) 1/0 - 600 kcmil	1 Phase	4MLKC1	4MLKC1A
			3 Phase	4MLKC3	4MLKC3A
400		(1) AL 1/0-750 kcmil	1 Phase	-	4MLKA1B
400	AL	(2) AL/CU 250kcmil max. [max.(1) 600 kcmil CU wire]	3 Phase	-	4MLKA3B

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

Ampere Rating	Breaker Types	Service	Original P1 Catalog No.	Revised P1 Catalog No. ^②
100A	BL, BLH, HBL	1-Phase	MBKBL1	MBKBL1A
		3-Phase	MBKBL3	MBKBL3A
100A	BQD	1 Dh	—	
125A	NGB, HGB, LGB	1-Phase	MBKNB1	MBKBC1NBA
100A	BQD	0 Dharas	MBKBC3	
125A	NGB, HGB, LGB	3-Phase	MBKNB3	MBKBC3NBA
125A	ED4, ED6, HED4, HHED6	1-Phase	MBKED1	MBKED1A
		3-Phase	MBKED3	MBKED3A
225A	QJ2, QJH2, QJ2H	1-Phase	MBKQJ1	MBKQJ1A
		3-Phase	MBKQJ3	MBKQJ3A
225A ³	QR2, QRH2, HQR2,	1-Phase	MBKQR1	MBKQR1A
	HQR2H	3-Phase	MBKQR3	MBKQR3A
250A	FXD6, FD6, HFD6,	1-Phase	MBKFD1	MBKFD1A
	HFXD6	3-Phase	MBKFD3	MBKFD3A
400A ^①	JXD2, JD6, JXD6,	1-Phase	MBKJD1	MBKJD1A
	HJD6, HJXD6	3-Phase	MBKJD3	MBKJD3A

^① 400 amp kit is for main only — not allowed for subfeed breaker.

Image: MBKBFA kit is available to mount BL/BQD/xGB 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).
Although QR is rated 250A, it is limited to 225A in panelboard.

Copper Neutral Lug Kits - 250A

	CNKL18	Use 30 ckt kit
	ONNETO	OSE SU CKI KII
2 or 4 Branch Neutral Strips,	CNKL30	CNLK30A
1 Main Neutral Lug, Hardware	CNKL42	CNLK42A
	—	CNLK54A
2	or 4 Branch Neutral Strips, Main Neutral Lug, Hardware	of 4 Branch Neutral Ottips,

2/0 Neutral Lug Kits - 250A and 400A

18	2 or 4 Branch Neutral Strips, Hardware	—	Use 30 ckt kit
30		_	LNLK30A
42		_	LNLK42A
54, 66		_	LNLK54A

200% Neutral Lug Kits/250A

18		2NLK18	Use 30 ckt kit
30	2 or 4 Branch Neutral Strips,	2NLK30	2NLK30A
42	2 Main Neutral Lugs, Hardware	2NLK42	2NLK42A
54, 66		_	2NLK54A

200% Neutral Lug Kits/400A

42NLK30A
42NLK42A
42NLK54A

NOTES:

Original P1 kits will not work with Revised P1 interiors if the chart shows different part numbers for each. OPDF can be downloaded (at no cost) and printed at this location: [®] Revised P1 kits will not work with Original P1 interiors if the chart shows different part numbers for each.

Isield installable Service Entrance Barrier kits are now available as required by UL67 (In COMPAS, you must select Service Entrance Required).



MBKFD3A



MBKQJ3A



Catalog #	Description		
BK1	Bonding Kit for 400A max. Original P1 Panels		
BK1A	Bonding Kit for 400A max. Revised P1 Panels		
BK2	Bonding kit for S1/S2 400 & 600		
BK3	Bonding kit for S3 Panel		
IMK1	Interior Adjusting Kit		
11-1824-01	Directory Card Holder		
LPDC01	Directory Card (Pack of 10; ref. 12-1110-01)		
МСНК	Metal Card Holder Kit		
NBK03	Number Strips 1–42. Stick-on type (P1 Panels only)		
NBK04	Number Strips 43–84. Stick-on type (P1 Panels only)		
NBK05	Number Strips 85–126. Stick-on type (P1 Panels only)		
NBK06	Number Strips 127–168. Stick-on type (P1 Panels only)		
EGK	AL Ground Bus 44 Connections		
ECGK	CU Ground Bus 44 Connections		
IGK	Insulated AL Ground Bus		
ICGK	Insulated CU Ground Bus		
SEBKRP1V1 ³	FD, QJ, QR Service Entrance Barrier Kit (Revised P1)		
SEBKRP1V2 ³	ED Service Entrance Barrier Kit (Revised P1)		
SEBKRP1V3 ³	BQD Service Entrance Barrier Kit (Revised P1) back-fed		
SEBKRP1V4 ³	xGB Service Entrance Barrier Kit (Revised P1) back-fed		
SEBKRP1V5 ³	BL/BQD/xGB Service Entrance Barrier Kit (RP1 in main space)		
SEBKP1P2P3V1 ³	JD, LD Service Entrance Barrier Kit (RP1, P1, P2, P3)		
EWK1	End Wall Kit with Knockouts (20" W x 5.75" DP)		
EWK2	End Wall Kit with Knockouts (24" W x 7.75" DP)		
EBF1	NEB/HEB Filler Plate		
P1SCRWS	Package of 42 breaker mounting screws for P1		
DFFP1	1" Branch circuit filler plate (used for BL/BQD/xGB/ xGB2/ED blank positions) (suitable for replacing QF3 in P1 thru P5 Panelboards and Switchboards)		
P1CONBPHCU ^①	Connector kit – 6 pcs. B-phase Copper		
P1CONBPHAL ^①	Connector kit – 6 pcs. B-phase Aluminum		
P1CONACPHCU [®]	Connector kit – 6 pcs. A or C-phase Copper		
P1CONACPHAL ^①	Connector kit – 6 pcs. A or C-phase Aluminum		
MBKQRFK	P1/Revised P1 Filler for 1PH/3PH QR. Horizontal mount only.		
ANSI/NEMA PB 1.1-2013	General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less (O&M Manual) [®]		

1) Replacement parts only.

as required by UL67. (In COMPAS, you must select Service Entrance Required.)

_

Panelboards

Circuit Breaker / Lighting and Distribution

Table P1-13 – Main Breaker Gutter Dimensions Inches (mm)

Main	Max. Interrupting Rating (kA)		Neutral Location
Breaker	20" wide box	24" wide box	20" wide box
BL, BLH, HBL ²	8.680 (220)3	10.690 (272)3	10.500 (267)
BQD ²	7.880 (200) ^③	9.880 (251) ^③	10.500 (267)
NGB, HGB, LGB ²	7.770 (197)③	9.770 (248)③	10.500 (267)
ED4, ED6, HED4	6.125 (156)	8.125 (206)	10.500 (267)
QJ2, QJH2, QJ2H	6.500 (165)	8.500 (216)	10.500 (267)
QR2, QRH2, HQR2, HQR2H	6.500 (165)	8.500 (216)	10.500 (267)
FD6, FXD6, HFD6, HFXD6	5.250 (133)	7.250 (184)	10.500 (267)
JD6, JXD6 ^①	15.000 (381)	15.000 (381)	26.500 (674)

^① JD frame mounted vertically.

② For Revised P1 with Back-fed Main option, use Side Gutter Wiring Spec Table P1-15.

⁽³⁾ These dimensions are for Revised P1 only. See Original P1 cut sheets for valid dimensions if needed (P1 production prior to January 2015).

Table P1-14 – Main Lug End Gutter Dimensions Inches (mm)

Amp	End Gutter		Neutral Location	
Rating	20" wide box	24" wide box	20" wide box	24" wide box
125	9.500 (242)	9.500 (242)	10.500 (267)	10.500 (267)
250	9.500 (242)	9.500 (242)	10.500 (267)	10.500 (267)
400	25.500 (648)	25.500 (648)	26.750 (680)	26.750 (680)

NOTE: Feed-thru lug and neutral wire bending space is 15.000" and 16.250" respectively on 400A panel.

<- B -÷

<- C→

←D→

←E →

← F →

Fig P1-1

BL, BLH, HBL

BLF, BLHF

BOD

BL, BLH, HBL

BLF, BLHF

BOD

NGB, HGB, LGB NGB, HGB, LGB

ED4, ED6, HED4, HHED6

QR2, QRH2, HQR2, HQR2H FXD6, FD6, HFD6

Panel Width

20 in. (508 mm)

QJ2, QJH2, QJ2H

A→

← B →

<- C →

Table P1-15 – Side Gutter Wiring Space Inches (mm) (Fig P1-1)

Reference Letter	Panel Width 20″	Panel Width 24" Optional
A②	6.375 (167)	8.375 (213)
B ^②	5.500 (140)	7.500 (191)
C ²	5.000 (127)	7.000 (178)
D	6.125 (156)	8.125 (206)
E	6.500 (165)	8.500 (216)
F	5.250 (133)	7.250 (184)

^① Subfeed mounting limit 1 per panel.

(2) For all Revised P1 panels using BL/BQD or xGB breakers as mains in back-fed position, use this chart for wiring space.



Feed-Thru (FT)



Non-Feed-Thru (NFT)

Miscellaneous Parts and Accessories

Catalog #	Description		
BK1	Bonding Kit for 400A max. Original P1 Panels		
BK1A	Bonding Kit for 400A max. Revised P1 Panels		
BK2	Bonding kit for S1/S2 400 & 600		
BK3	Bonding kit		
IMK1	Interior Adjusting Kit		
11-1824-01	Directory Card Holder		
LPDC01	Directory Card (Pack of 10; ref. 12-1110-01)		
МСНК	Metal Card Holder Kit		
NBK03	Number Strips 1-42. Stick-on type (P1 Panel only		
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		
ECGK	CU Ground Bus 44 Connections		
IGK	Insulated AL Ground Bus		
ICGK	Insulated CU Ground Bus		
SEBKRP1V1 ³	FD, QJ, QR Service Entrance Barrier Kit (Revised P1)		
SEBKRP1V2 ³	ED Service Entrance Barrier Kit (Revised P1)		
SEBKRP1V3 ³	BQD Service Entrance Barrier Kit (Revised P1) back-fed		
SEBKRP1V4 ³	xGB Service Entrance Barrier Kit (Revised P1) back-fed		
SEBKRP1V5 ³	BL/BQD/xGB Service Entrance Barrier Kit (RP1 in main space)		
SEBKP1P2P3V1 ³	JD, LD Service Entrance Barrier Kit (RP1, P1, P2, P3)		
EWK1	End Wall Kit with Knockouts (20" W x 5.75" DP		
EWK2	End Wall Kit with Knockouts (24" W x 7.75" DP		
EBF1	NEB/HEB Filler Plate		
P1SCRWS	Package of 42 breaker mounting screws for P1		
DFFP1	1" Branch circuit filler plate (used for BL/BQD/ xGB/xGB2/ED blank positions) (suitable for replacing QF3 in P1 thru P5 Panelboards and Switchboards)		
P1CONBPHCU ^①	Connector kit – 6 pcs. B-phase Copper		
P1CONBPHAL ^①	Connector kit – 6 pcs. B-phase Aluminum		
P1CONACPHCU ^①	Connector kit – 6 pcs. A or C-phase Copper		
P1CONACPHAL [®]	Connector kit – 6 pcs. A or C-phase Aluminum		
MBKQRFK	P1/Revised P1 Filler for 1PH/3PH QR. Horizontal mount only.		
ANSI/NEMA PB 1.1-2013	General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less (O&M Manual) [©]		

① Replacement parts only.

2 PDF can be downloaded (at no cost) and printed at: www.nema.org/standards/pages/Panelboards.aspx ③ Factory installed and Field installable Service Entrance

Barrier kits are now available as required by UL67. (In COMPAS, you must select Service Entrance Required.)



Example of Back-fed xGB Main breaker installed