

# SIEMENS Revised P1 Unassembled Panelboard Components

A Complete Unassembled Panelboard Bill of Material should include each of the following:

120/240V Single Phase - Three Wire										
Ampere Rating	Circuits	Interior <sup>1</sup>	Enclosure			Main / Subfeed Device <sup>6</sup>		Feeder Breakers		
			N1 Box	Front <sup>2</sup>	N3R	Main Lugs <sup>3</sup>	Main Breaker			
250	18	P1A18MC250CT	B32	S32B	WP32	MLKA1A	Choose from Group A on next page	10K = BL type = Bxyy 22K = BLH type = BxyyH 65K = HBL type = BxyyHH (x=Poles, and y=Trip Rating)		
	30	P1A30MC250CT	B38	S38B	WP38	MLKA1A				
	42	P1A42MC250CT	B44	S44B	WP44	MLKA1A				
	54	P1A54MC250CT	B50	S50B	WP50	MLKA1A				
400	30	P1A30MC400CT	B62	S62B	WP62	4MLKA1A <sup>4</sup>	Choose from Group B on next page <sup>7</sup>	Ex. 1Pole 20A@10KAIC = B120 Ex. 2Pole 40A@22KAIC = B240H		
	42	P1A42MC400CT	B68	S68B	WP68	4MLKA1A <sup>4</sup>				
	54	P1A54MC400CT	B74	S74B	WP74	4MLKA1A <sup>4</sup>				

120/208V Three Phase - Four Wire										
Ampere Rating	Circuits	Interior <sup>1</sup>	Enclosure			Main / Subfeed Device <sup>6</sup>		Feeder Breakers		
			N1 Box	Front <sup>2</sup>	N3R	Main Lugs <sup>3</sup>	Main Breaker			
250	18	P1X18MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group C on next page	10K = BL type = Bxyy 22K = BLH type = BxyyH 65K = HBL type = BxyyHH (x=Poles, and y=Trip Rating)		
	30	P1X30MC250CT	B38	S38B	WP38	MLKA3A				
	42	P1X42MC250CT	B44	S44B	WP44	MLKA3A				
	54	P1X54MC250CT	B50	S50B	WP50	MLKA3A				
400	30	P1X30MC400CT	B62	S62B	WP62	4MLKA3A <sup>5</sup>	Choose from Group D on next page <sup>7</sup>	Ex. 1Pole 20A@10KAIC = B120 Ex. 3Pole 50A@22KAIC = B350H		
	42	P1X42MC400CT	B68	S68B	WP68	4MLKA3A <sup>5</sup>				
	54	P1X54MC400CT	B74	S74B	WP74	4MLKA3A <sup>5</sup>				

480Y/277V Three Phase - Four Wire										
Ampere Rating	Circuits	Interior <sup>1</sup>	Enclosure			Main / Subfeed Device <sup>6</sup>		Feeder Breakers		
			N1 Box	Front <sup>2</sup>	N3R	Main Lugs <sup>3</sup>	Main Breaker			
250	18	P1E18MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group E on next page	14K ONLY = BQD type = BQDxyy (x=Poles, and y=Trip Rating)		
	30	P1E30MC250CT	B38	S38B	WP38	MLKA3A				
	42	P1E42MC250CT	B44	S44B	WP44	MLKA3A				
	54	P1E54MC250CT	B50	S50B	WP50	MLKA3A				
400	30	P1E30MC400CT	B62	S62B	WP62	4MLKA3A <sup>5</sup>	Choose from Group F on next page	Ex. 1Pole 20A@14KA = BQD120		
	42	P1E42MC400CT	B68	S68B	WP68	4MLKA3A <sup>5</sup>				
	54	P1E54MC400CT	B74	S74B	WP74	4MLKA3A <sup>5</sup>				

Interiors for xGB Breakers -- 480Y/277V Three Phase - Four Wire										
Ampere Rating	Circuits	Interior <sup>1</sup>	Enclosure			Main / Subfeed Device <sup>6</sup>		Feeder Breakers		
			N1 Box	Front <sup>2</sup>	N3R	Main Lugs <sup>3</sup>	Main Breaker			
250	18	P1818MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group E on next page	25K = 3VA41 = SEAB Type 35K = 3VA41 = MEAB Type 65K = 3VA41 = HEAB Type		
	30	P1830MC250CT	B38	S38B	WP38	MLKA3A				
	42	P1842MC250CT	B44	S44B	WP44	MLKA3A				
	P1854MC250CT	B50	S50B	WP50	MLKA3A					
400	30	P1830MC400CT	B62	S62B	WP62	4MLKA3A <sup>5</sup>	Choose from Group F on next page	See 3VA41 Supplement		
	42	P1842MC400CT	B68	S68B	WP68	4MLKA3A <sup>5</sup>				
	54	P1854MC400CT	B74	S74B	WP74	4MLKA3A <sup>5</sup>				

**NOTES:**

- 1) Replace last "C" in Part Number with "A" for Aluminum
- 2) Replace "S" in Part Number with "F" if Flush Mount Front is Required.
- 3) Aluminum Lug Kit will accept Aluminum or Copper Conductors.  
(CU only versions are also available: MLKC1A, MLKC3A, 4MLKC1A, & 4MLKC3A.)
- 4) 4MLKA1B is also available for 1-Phase - accepts AL 500-750kcmil (max 600kcmil CU wire)
- 5) 4MLKA3B is also available for 3-Phase - accepts AL 500-750kcmil (max 600kcmil CU wire)
- 6) Service Entrance Barrier Kit is needed for Service Entrance-rated panels only.
- 7) 250A main/subfeed kits can be used in subfeed space of 400A panels.

ACCESSORIES	
<b>Required Accessories:</b>	
DFFP1A - Breaker Filler Plates (qty ??)	
Add one of the following:	
EGK - Aluminum Ground Bus - 44 Connection Points (or)	
ECGK - Copper (only) Ground Bus - 44 Connection Points (or)	
IGK - Insulated Aluminum Ground Bus - 44 Connection Points (or)	
ICGK - Insulated Copper only Ground Bus - 44 Connection Points	

See optional Neutral kits on page two.  
Main and subfeed Breaker strap kits without breakers are also available - See SpeedFax

<b>INTERIOR</b>	
<b>ENCLOSURE</b>	
<b>MAIN DEVICE</b>	
<b>SERV. ENTRANCE BARRIER</b>	
<b>FEEDER BREAKERS</b>	

<b>ACCESSORIES</b>	_____ x DFFP1A 1 x EGK - or - 1 x ECGK - or - 1 x IGK - or - 1 x ICGK
<b>+ OPTIONAL:</b>	
<b>SUBFEED DEVICE</b>	_____
<b>ADDITIONAL ACCESSORIES</b>	_____ _____ _____ _____

Kits below required for Service Entrance Panels	
SEBKR1P1V1 - FD, QJ, QR Service Entrance Barrier Kit (Revised P1)	
SEBKR1P1V2 - ED Service Entrance Barrier Kit (Revised P1)	
SEBKR1P1V3 - 3VA4/BQD Service Entrance Barrier Kit (Revised P1) back-fed main only	
SEBKR1P1V4 - GB Service Entrance Barrier Kit (Revised P1) back-fed main only	
SEBKR1P1V6 - BL/BQD/3VA4/xGB Service Entrance Barrier Kit (RP1 in Main Space)	
SEBKP1P2P3V1 - JD, LD and 3VA53/63 Service Entrance Barrier Kit	

For BL/BQD & 3VA41/xGB Mains use these strap kits (In Main or Sub Feed):  
100 A max BL/BQD or 125A max 3VA41/xGB  
MBKVA41A -- 2-pole only  
100 A max BL/BQD or 125A max 3VA41/xGB  
MBKVA41B -- 3-pole only

**GENERAL NOTES: (For Revised P1 only)**  
A) Any backfed main in unit space must use Main Label Kit # MBKBFA to identify Main.

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240V Main Breaker Kits <sup>8</sup>				
Group	Ampere Rating	Part #	AIC @ 240V	Description
A	125	MBKQR1125A	10K	Kit with 2 Pole QR2 125A Breaker
		MBKQR1125HA	65K	Kit with 2 Pole HQR2 125A Breaker
	150	MBKQR1150A	10K	Kit with 2 Pole QR2 150A Breaker
		MBKQR1150HA	65K	Kit with 2 Pole HQR2 150A Breaker
	175	MBKQR1175A	10K	Kit with 2 Pole QR2 175A Breaker
		MBKQR1175HA	65K	Kit with 2 Pole HQR2 175A Breaker
200	MBKQR1200A	10K	Kit with 2 Pole QR2 200A Breaker	
	MBKQR1200HA	65K	Kit with 2 Pole HQR2 200A Breaker	
225	MBKQR1225A	10K	Kit with 2 Pole QR2 225A Breaker	
	MBKQR1225HA	65K	Kit with 2 Pole HQR2 225A Breaker	
B	300	MBKVAM1300A	85K	Kit with 2 Pole 3VA53 300A Breaker
	400	MBKVAM1400A	85K	Kit with 2 Pole 3VA53 400A Breaker
C	100	MBKED3100A	65K	Kit with 3 Pole ED4 100A Breaker
		MBKQR3125A	10K	Kit with 3 Pole QR2 125A Breaker
		MBKQR3125HA	65K	Kit with 3 Pole HQR2 125A Breaker
	150	MBKED3125A	65K	Kit with 3 Pole ED4 125A Breaker
		MBKQR3150A	10K	Kit with 3 Pole QR2 150A Breaker
		MBKQR3150HA	65K	Kit with 3 Pole HQR2 150A Breaker
	175	MBKFD3150A	65K	Kit with 3 Pole FXD6 150A Breaker
		MBKQR3175A	10K	Kit with 3 Pole QR2 175A Breaker
		MBKQR3175HA	65K	Kit with 3 Pole HQR2 175A Breaker
	200	MBKFD3175A	65K	Kit with 3 Pole FXD6 175A Breaker
MBKQR3200A		10K	Kit with 3 Pole QR2 200A Breaker	
MBKQR3200HA		65K	Kit with 3 Pole HQR2 200A Breaker	
225	MBKFD3200A	65K	Kit with 3 Pole FXD6 200A Breaker	
	MBKQR3225A	10K	Kit with 3 Pole QR2 225A Breaker	
	MBKQR3225HA	65K	Kit with 3 Pole HQR2 225A Breaker	
250	MBKFD3225A	65K	Kit with 3 Pole FXD6 225A Breaker	
	MBKFD3225A	65K	Kit with 3 Pole FXD6 250A Breaker	
D	300	MBKVAM3300A	85K	Kit with 3 Pole 3VA53 300A Breaker
	400	MBKVAM3400A	85K	Kit with 3 Pole 3VA53 400A Breaker

Neutral Lug Kits	Part #	Number of Circuits	Description
250A/400A Copper	CNLK42B	18, 30, 42	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	CNLK54B	54	
(new) 250A/400A 2/0 Neutral Kits	LNLK4X11B	18, 30	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	LNLK6X17B	42	
	LNLK7X20B	54	
250A 200% Neutral	2NLK42B	18, 30, 42	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	2NLK54B	54	
400A 200% Neutral	42NLK54B	30	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware
		42	
		54	

NOTES: (continued from page 1)

8) If used as sub-feed breaker, max allowable is 250A.

480V Main Breaker Kits <sup>8</sup>				
Group	Ampere Rating	Part #	AIC @ 480V	Description
E	100	MBKED3100A	18K	Kit with 3 Pole ED4 100A Breaker
	125	MBKED3125A	18K	Kit with 3 Pole ED4 125A Breaker
	150	MBKFD3150A	35K	Kit with 3 Pole FXD6 150A Breaker
	175	MBKFD3175A	35K	Kit with 3 Pole FXD6 175A Breaker
	200	MBKFD3200A	35K	Kit with 3 Pole FXD6 200A Breaker
	225	MBKFD3225A	35K	Kit with 3 Pole FXD6 225A Breaker
F	250	MBKFD3250A	35K	Kit with 3 Pole FXD6 250A Breaker
	300	MBKVAM3300A	35K	Kit with 3 Pole 3VA53 300A Breaker
	400	MBKVAM3400A	35K	Kit with 3 Pole 3VA53 400A Breaker

**Sample:**

Contractor needs a NEMA 1 Surface-Mounted 120/208V 3 Phase, 4 Wire Panel with 200A Main Breaker, service entrance-rated 20 x 20A 1 Pole Feeder Breakers, and 2 x 40A 2 Pole Breakers. Smallest interior possible is OK, Main Copper Bus is preferred, and available Fault Current is 10K:

**Qty Part Number**

- 1 P1X30MC25OCT
- 1 B38
- 1 S38B
- 1 MBKQR3200A
- 20 B120
- 2 B240
- 6 DFFP1A
- 1 EGK
- 1 SEBKRP1V1

1) Since system voltage is 120/208 3Ph4W go to 2nd table. 200A is <=250A, so start with 250A row. Total number of circuits needed is 24 (20 + 2x2) and no additional space requested, so select 30 circuit. Copper is preferred so we don't need to change Interior in table...

**P1X30MC25OCT.**

2) Follow same row over to select N1 Box and Surface Mount Front... **B38 + S38B.**

3) Main Breaker Kit comes from Group C. **MBKQR3200A** is lowest AIC that meets customer need of 10KAIC.

4) Like the main breaker, select Feeder Breakers that meet customer need. BL is enough to meet 10K AIC so we need **20 x B120** breakers and **2 x B240** breakers.

5) Don't forget to fill the remaining unused spaces with filler plates: 30 circuit panel - 24 circuits used = **6 x DFFP1A** filler plates.

6) Even though a copper panel was requested and selected, the standard Aluminum **EGK** Ground bar is OK. It will accept both Al and Copper Conductors. If a "Copper Only" Ground was requested then we provide one ECGK.

**GENERAL NOTES: (For Revised P1 only)**

**A) Any backfed main in unit space must use Main Label Kit # MBKBFA to identify Main.**