

SIEMENS Revised P1 Unassembled Panelboard Components

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

INTERIOR

MAIN DEVICE

ACCESSORIES

ENCLOSURE

FEEDER BREAKERS

120/240V Single Phase - Three Wire

Ampere Rating	Circuits	Interior ¹	Enclosure			Main / Subfeed Device ⁶		Feeder Breakers
			N1 Box	Front ²	N3R	Main Lugs ³	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) Ex. 1Pole 20A@10KAIC = B120 Ex. 2Pole 40A@22KAIC = B240H
	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 ⁴	Choose from Group B on next page ⁷	
	42	P1A42MC400CT	B68	S68B	WP68	4MLKA1A ⁴		
	54	P1A54MC400CT	B74	S74B	WP74	4MLKA1A ⁴		

120/208V Three Phase - Four Wire

Ampere Rating	Circuits	Interior ¹	Enclosure			Main / Subfeed Device ⁶		Feeder Breakers
			N1 Box	Front ²	N3R	Main Lugs ³	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) Ex. 1Pole 20A@10KAIC = B120 Ex. 3Pole 50A@22KAIC = B350H
	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 ⁵	Choose from Group D on next page ⁷	
	42	P1X42MC400CT	B68	S68B	WP68	4MLKA3A ⁵		
	54	P1X54MC400CT	B74	S74B	WP74	4MLKA3A ⁵		

480Y/277V Three Phase - Four Wire

Ampere Rating	Circuits	Interior ¹	Enclosure			Main / Subfeed Device ⁶		Feeder Breakers
			N1 Box	Front ²	N3R	Main Lugs ³	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) Ex. 1Pole 20A@14KA = BQD120
	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 ⁵	Choose from Group F on next page	
	42	P1E42MC400CT	B68	S68B	WP68	4MLKA3A ⁵		
	54	P1E54MC400CT	B74	S74B	WP74	4MLKA3A ⁵		

Interiors for xGB Breakers -- 480Y/277V Three Phase - Four Wire

Ampere Rating	Circuits	Interior ¹	Enclosure			Main / Subfeed Device ⁶		Feeder Breakers
			N1 Box	Front ²	N3R	Main Lugs ³	Main Breaker	
250	18	P1718MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group E on next page	25K = NGB type = NGBxByyyB 35K = HGB type = HGBxByyyB 65K = LGB type = LGBxByyyB (x=Poles, and y=Trip Rating) Ex. 1Pole 20A@14KA = BQD120
	30	P1730MC250CT	B38	S38B	WP38	MLKA3A		
	42	P1742MC250CT	B44	S44B	WP44	MLKA3A		
	54	P1754MC250CT	B50	S50B	WP50	MLKA3A		
400	30	P1730MC400CT	B62	S62B	WP62	4MLKA3A ⁵	Choose from Group F on next page	
	42	P1742MC400CT	B68	S68B	WP68	4MLKA3A ⁵		
	54	P1754MC400CT	B74	S74B	WP74	4MLKA3A ⁵		

Required Accessories:

DFFP1 - 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

INTERIOR

ENCLOSURE

MAIN DEVICE

SERV. ENTRANCE BARRIER

FEEDER BREAKERS

ACCESSORIES

_____ x DFFP1
1 x EGK - or - 1 x ECGK -or-
1 x IGK - or - 1 x ICGK

+ OPTIONAL:

SUBFEED DEVICE

ADDITIONAL ACCESSORIES

Kits below required for Service Entrance Panels

SEBKR1V1 - FD, QJ, QR Service Entrance Barrier Kit (Revised P1)

SEBKR1V2 - ED Service Entrance Barrier Kit (Revised P1)

SEBKR1V3 - BQD Service Entrance Barrier Kit (Revised P1) back-fed main only

SEBKR1V4 - GB Service Entrance Barrier Kit (Revised P1) back-fed main only

SEBKR1V5 - BL/BQD/xGB Service Entrance Barrier Kit (RP1 in Main Space)

SEBKP1P2P3V1 - JD, LD Service Entrance Barrier Kit (RP1, P1, P2, P3)

For BL/BQD & xGB Mains use these strap kits (In Main or Sub Feed):

100 A max BL Strap Kit

MBKBL1A -- 2-pole

MBKBL3A -- 3-pole

100 A max BQD Strap Kit (or)

125 A max xGB Strap Kit

MBKBC1NBA -- 2-pole

MBKBC3NBA -- 3-pole

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.

GENERAL NOTES: (For Revised P1 only)

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

240V Main Breaker Kits ⁸				
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	MBKJD12300A	65K	Kit with 2 Pole JXD2 300A Breaker
		MBKJD1300A	65K	Kit with 2 Pole JXD6 300A Breaker
400	MBKJD12400A	65K	Kit with 2 Pole JXD2 400A Breaker	
	MBKJD1400A	65K	Kit with 2 Pole JXD6 400A Breaker	
C	100	MBKED3100A	65K	Kit with 3 Pole ED4 100A Breaker
	125	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
	175	MBKQR3150HA	65K	Kit with 3 Pole HQR2 150A Breaker
		MBKFD3150A	65K	Kit with 3 Pole FXD6 150A Breaker
	200	MBKQR3175A	10K	Kit with 3 Pole QR2 175A Breaker
		MBKQR3175HA	65K	Kit with 3 Pole HQR2 175A Breaker
225	MBKFD3175A	65K	Kit with 3 Pole FXD6 175A Breaker	
	250	MBKQR3200A	10K	Kit with 3 Pole QR2 200A Breaker
200		MBKQR3200HA	65K	Kit with 3 Pole HQR2 200A Breaker
	225	MBKFD3200A	65K	Kit with 3 Pole FXD6 200A Breaker
225		MBKQR3225A	10K	Kit with 3 Pole QR2 225A Breaker
	250	MBKQR3225HA	65K	Kit with 3 Pole HQR2 225A Breaker
250		MBKFD3225A	65K	Kit with 3 Pole FXD6 225A Breaker
	300	MBKJD32300A	65K	Kit with 3 Pole JXD2 300A Breaker
400		MBKJD3300A	65K	Kit with 3 Pole JXD6 300A Breaker
	400	MBKJD32400A	65K	Kit with 3 Pole JXD2 400A Breaker
400		MBKJD3400A	65K	Kit with 3 Pole JXD6 400A Breaker

480V Main Breaker Kits ⁸				
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	MBKJD3300A	35K	Kit with 3 Pole JXD6 300A Breaker
400	MBKJD3400A	35K	Kit with 3 Pole JXD6 400A Breaker	

Neutral Lug Kits	Part #	Number of Circuits	Description
250A/400A Copper	CNLK30A	18, 30	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	CNLK42A	42	
	CNLK54A	54	
(new) 250A/400A 2/O Neutral Kits	LNLK30A	18, 30	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	LNLK42A	42	
	LNLK54A	54	
250A 200% Neutral	2NLK30A	18, 30	2 or 4 Branch Neutral Strips, 1 Main Neutral Lug, Hardware
	2NLK42A	42	
	2NLK54A	54	
400A 200% Neutral	42NLK30A	30	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware
	42NLK42A	42	
	42NLK54A	54	

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 P1X30MC250CT
 1 B38
 1 S38B
 1 MBKQR3200A
 20 B120
 2 B240
 6 DFFP1
 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... **P1X30MC250CT.**

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 DFFP1** 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.

NOTES: (continued from page 1)
8) If used as sub-feed breaker, max allowable is 250A.

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