QUICK SELECTOR GUIDE

Revised P1 Unassembled Panelboard Components

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

1-Phase, 3-Wire 120/240V (BL/BQD Branch Breakers Only)

Ampere Rating	Circuits	Interior[1]	Enclosure N1 Box	Enclosure Front[2]	Enclosure N3R/12[8]	Main / Subfeed Device[6] Main Lugs[3]	Main / Subfeed Device[6] Main Braker	Feeder Breakers
250	18	P1A18MC250CT	B32	S32B	WP32	MLKA1A	Choose from Group A on next page	10K = BL type = Bxyy
	30	P1A30MC250CT	B38	S38B	WP38	MLKA1A		22K = BLH type = BxyyH
	42	P1A42MC250CT	B44	S44B	WP44	MLKA1A		65K = HBL type = BxyyHH
	54	P1A54MC250CT	B50	S50B	WP50	MLKA1A		(x=Poles, and y=Trip Rating)
400	30	P1A30MC400CT	B62	S62B	WP62	4MLKA1A [4]	Choose from Group D on next page	
	42	P1A42MC400CT	B68	S68B	WP68	4MLKA1A [4]		Ex. 1Pole 20A@10KAIC = B120
	54	P1A54MC400CT	B74	S74B	WP74	4MLKA1A [4]		Ex. 2Pole 40A@22KAIC = B240H

3-Phase, 4-Wire 208Y/120V (BL/BQD Branch Breakers Only)

Ampere Rating	Circuits	Interior[1]	Enclosure N1 Box	Enclosure Front[2]	Enclosure N3R/12[8]	Main / Subfeed Device[6] Main Lugs[3]	Main / Subfeed Device[6] Main Braker	Feeder Breakers
250	18	P1X18MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group B or C on next page	10K = BL type = Bxyy
	30	P1X30MC250CT	B38	S38B	WP38	MLKA3A		22K = BLH type = BxyyH
	42	P1X42MC250CT	B44	S44B	WP44	MLKA3A		65K = HBL type = BxyyHH
	54	P1X54MC250CT	B50	S50B	WP50	MLKA3A		
400	30	P1X30MC400CT	B62	S62B	WP62	4MLKA3A [5]	Choose from Group D on next page [7]	(x=Poles, and y=Trip Rating)
	42	P1X42MC400CT	B68	S68B	WP68	4MLKA3A [5]		Ex. 1Pole 20A@10KAIC = B120
	54	P1X54MC400CT	B74	S74B	WP74	4MLKA3A [5]		Ex. 3Pole 50A@22KAIC = B350H

3-Phase, 4-Wire 480Y/277V (BQD Branch Breakers Only)

Ampere Rating	Circuits	Interior[1]	Enclosure N1 Box	Enclosure Front[2]	Enclosure N3R/12[8]	Main / Subfeed Device[6] Main Lugs[3]	Main / Subfeed Device[6] Main Braker	Feeder Breakers
250	18	P1E18MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group E on next page	
	30	P1E30MC250CT	B38	S38B	WP38	MLKA3A		14K ONLY = BQD type = BQDxyy
	42	P1E42MC250CT	B44	S44B	WP44	MLKA3A		
	54	P1E54MC250CT	B50	S50B	WP50	MLKA3A		(x=Poles, and y=Trip Rating)
400	30	P1E30MC400CT	B62	S62B	WP62	4MLKA3A [5]	Choose from Group F on next page	
	42	P1E42MC400CT	B68	S68B	WP68	4MLKA3A [5]		Ex. 1Pole 20A@14KA = BQD120
	54	P1E54MC400CT	B74	S74B	WP74	4MLKA3A [5]		

3-Phase, 4-Wire 480Y/277V (xGB/3VA41 Branch Breakers Only)

Ampere Rating	Circuits	Interior[1]	Enclosure N1 Box	Enclosure Front[2]	Enclosure N3R/12[8]	Main / Subfeed Device[6] Main Lugs[3]	Main / Subfeed Device[6] Main Braker	Feeder Breakers
250	18	P1818MC250CT	B32	S32B	WP32	MLKA3A	Choose from Group E on next page	
	30	P1830MC250CT	B38	S38B	WP38	MLKA3A		25K = 3VA41 = SEAB Type
	42	P1842MC250CT	B44	S44B	WP44	MLKA3A		35K = 3VA41 = MEAB Type
	54	P1854MC250CT	B50	S50B	WP50	MLKA3A		65K = 3VA41 = HEAB Type
400	30	P1830MC400CT	B62	S62B	WP62	4MLKA3A [5]	Choose from Group F on next page	
	42	P1842MC400CT	B68	S68B	WP68	4MLKA3A [5]		
	54	P1854MC400CT	B74	S74B	WP74	4MLKA3A [5]		See 3VA41 Supplement

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.
8) Replace "WP" with "NR" for NEMA 3R enclosures.

Required Accessories

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

INTERIOR	
ENCLOSURE & FRONT	
MAIN DEVICE	
SERV. ENTRANCE BARRIER	
FEEDER BREAKERS * BT Twin 1-pole breakers can be substituted for any 1-pole BL (B1515 & B2020) or BLH (B1515H & B2020H) up to limited qty per panel. (10 for 18ckt, 20 for 30ckt, 30 max. for 42+ ckt)	
ACCESSORIES	X DFFP1A 1 x EGK - or - 1 x ECGK -or- 1 x IGK - or - 1 x ICGK
+ OPTIONAL	
SUBFEED DEVICE ADDITIONAL ACCESSORIES	

INTERIOR
ENCLOSURE
MAIN DEVICE
FEEDER / BREAKERS
ACCESSORIES

Kits below required for Service Entrance Panels

SEBKRP1V1	FD, QJ, QR Service Entrance Barrier Kit (Revised P1)
SEBKRP1V2	ED Service Entrance Barrier Kit (Revised P1)
SEBKRP1V3	BL/BQD/3VA41 Service Entrance Barrier Kit (Revised P1) back-fed main only
SEBKRP1V4	xGB Service Entrance Barrier Kit (Revised P1) back-fed main only
SEBKRP1V6	BL/BQD/3VA41/xGB Service Entrance Barrier Kit (RP1 in Main Space)
SEBKRP1V7	3VA52/61/62 Service Entrance Barrier Kit (Horizontal Mount)
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

COMMENTS

General Notes: For Revised P1 only

A) Any backfed main in unit space must use Main Label Kit # MBKBFA to identify Main.
B) The Revised P1 (18 circuit 250A only) is limited to 100A per connection (200A per pair) when installing BL/BQD or xGB Branch Breakers across from one another. 3VA41 does not have this restriction. All other configurations allow 125A per connection max. (250A per pair max.)

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Revised P1 Unassembled Panelboard Components (cont'd.)

240V Main Breaker Kits [1]

Group	Ampere Rating	Part #	AIC@ 240V	Description
A	125A	MBKQR1125A	10K	Kit with 2 Pole QR2 125A Breaker
		MBKQR1125HA	65K	Kit with 2 Pole HQR2 125A Breaker
	150A	MBKQR1150A	10K	Kit with 2 Pole QR2 150A Breaker
		MBKQR1150HA	65K	Kit with 2 Pole HQR2 150A Breaker
	175A	MBKQR1175A	10K	Kit with 2 Pole QR2 175A Breaker
		MBKQR1175HA	65K	Kit with 2 Pole HQR2 175A Breaker
	200A	MBKQR1200A	10K	Kit with 2 Pole QR2 200A Breaker
		MBKQR1200HA	65K	Kit with 2 Pole HQR2 200A Breaker
	225A	MBKQR1225A	10K	Kit with 2 Pole QR2 225A Breaker
		MBKQR1225HA	65K	Kit with 2 Pole HQR2 225A Breaker
B	125A	MBKQR3125A	10K	Kit with 3 Pole QR2 125A Breaker
		MBKQR3125HA	65K	Kit with 3 Pole HQR2 125A Breaker
	150A	MBKQR3150A	10K	Kit w/3-pole QR2 150A Breaker
		MBKQR3150HA	65K	Kit w/3-pole HQR2 150A Breaker
	175A	MBKQR3175A	10K	Kit w/3-pole QR2 175A Breaker
		MBKQR3175HA	65K	Kit w/3-pole HQR2 175A Breaker
	200A	MBKQR3200A	10K	Kit w/3-pole QR2 200A Breaker
		MBKQR3200HA	65K	Kit w/3-pole HQR2 200A Breaker
	225A	MBKQR3225A	10K	Kit w/3-pole QR2 225A Breaker
		MBKQR3225HA	65K	Kit w/3-pole HQR2 225A Breaker
C	150A	MBKVAM3150A	85K	Kit with 3 Pole 3VA52 150A Breaker, MFAS
	200A	MBKVAM3200A	85K	Kit with 3 Pole 3VA52 200A Breaker, MFAS
		MBKVAH3200A	100K	Kit with 3 Pole 3VA52 200A Breaker, HFAS
	225A	MBKVAM3225A	85K	Kit with 3 Pole 3VA52 225A Breaker, MFAS
	250A	MBKVAM3250A	85K	Kit with 3 Pole 3VA52 250A Breaker, MFAS
		MBKVAH3250A	100	Kit with 3 Pole 3VA52 250A Breaker, HFAS
D	300A	MBKVAM1300A	85K	Kit with 2 Pole 3VA53 300A Breaker, MJAS
	400A	MBKVAM1400A	85K	Kit with 2 Pole 3VA53 400A Breaker, MJAS
	300A	MBKVAM3300A	85K	Kit with 3 Pole 3VA53 300A Breaker, MJAS
		MBKVAH3300A	100K	Kit with 3 Pole 3VA53 300A Breaker, HJAS
	400A	MBKVAM3400A	85K	Kit with 3 Pole 3VA53 400A Breaker, MJAS
		MBKVAH3400A	100K	Kit with 3 Pole 3VA53 400A Breaker, HJAS

480V Main Breaker Kits [1]

Group	Ampere Rating	Part #	AIC@ 480V	Description
E	150A	MBKVAM3150A	35K	Kit with 3 Pole 3VA52 150A Breaker, MFAS
	200A	MBKVAM3200A	35K	Kit with 3 Pole 3VA52 200A Breaker, MFAS
		MBKVAH3200A	65K	Kit with 3 Pole 3VA52 200A Breaker, HFAS
	225A	MBKVAM3225A	35K	Kit with 3 Pole 3VA52 225A Breaker, MFAS
	250A	MBKVAM3250A	35K	Kit with 3 Pole 3VA52 250A Breaker, MFAS
		MBKVAH3250A	65K	Kit with 3 Pole 3VA52 250A Breaker, HFAS
F	300A	MBKVAM3300A	35K	Kit with 3 Pole 3VA53 300A Breaker, MJAS
		MBKVAH3300A	65K	Kit with 3 Pole 3VA53 300A Breaker, HJAS
	400A	MBKVAM3400A	35K	Kit with 3 Pole 3VA53 400A Breaker, MJAS
		MBKVAH3400A	65K	Kit with 3 Pole 3VA53 400A Breaker, HJAS

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, 42, 54	2 or 4 Branch Neutral Strips, 1 Main 600MCM Neutral Lug, Hardware

1) 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.

B) The Revised P1 (18 circuit 250A only) is limited to 100A per connection (200A per pair) when installing BL/BQD or xGB Branch Breakers across from one another. 3VA41 does not have this restriction. All other configurations allow 125A per connection max. (250A per pair max.)

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	DFFP1A
1	EGK
1	EBKRP1V1

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 B. 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.

7) Add Service Entrance Barrier Kit if this Panel is to be rated for Service Entrance.

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