

Quik-Spec™ Coordination Panelboard (QSCP) fusible 30-600 A panelboards



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Catalog symbol

- QSCP

Description

The Bussmann™ series Quik-Spec™ Coordination Panelboard (QSCP) is a configurable fusible panelboard for commercial/industrial branch or service entrance applications on systems up through 600 Vac.

This panelboard is designed to address the NEC® selective coordination requirements for emergency, legally required standby, critical operations data systems and Critical Operation Power Systems (COPS) per NEC 700.32, 701.32, 645.27 and 708.54. The QSCP is configured to order for the application. To confirm availability of options and constructions, contact your Bussmann series product representative.

Ratings

Volts: 600 Vac, 125 Vdc ≤ 80 A

Amps: 30, 60, 100, 200, 225, 400 and 600 A

SCCR: See Panelboard Short-Circuit Current Ratings table

Agency information

- UL listed to UL 67 - Panelboards
- UL 50/UL 50E – enclosures for electrical equipment
- cULus to CSA® Standard 22.2, No. 29 – panelboards and enclosed panelboards
- U.B.C. and C.B.C. Seismic Qualified, and I.B.C. Approved

Main options

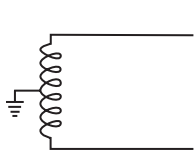
- Main Lug Only (MLO)
- Non-fused main disconnect
- Fused main disconnect

Branch disconnect options

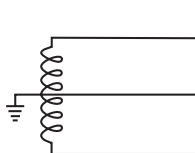
- 1-, 2- and 3-pole 15, 20, 30, 40, 50, 60, 70, 90, 100 and 200 amp rating rejection branch disconnects (see table on page 4 for details). Amp rating on 125 Vdc panels ≤ 80A. Contact factory for details.

AC and DC voltages and system types

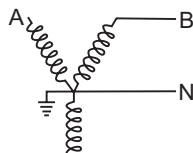
AC Voltages



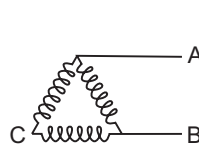
- 1-phase, 2 wire
- 120V, 240V



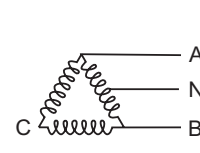
- 1-phase, 3 wire
- 120/240V



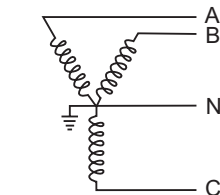
- 1-phase, 2 wire, Wye
- 277V



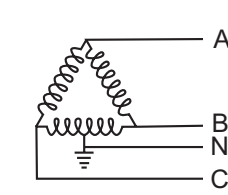
- 1-phase, 2 wire, Delta
- 480V



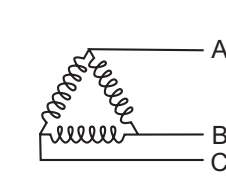
- 1-phase, 3 wire, Delta
- 240/480V



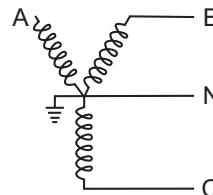
- 208Y/120V, 480Y/277V, 600Y/347V



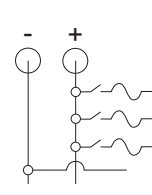
- 3-phase, 4 wire, Delta
- 240/120V, 480/240V



- 3-phase, 3 wire, Delta
- 240V, 480V, 600V, 240V Gnd B, 480V Gnd B, 600V Gnd B



- 1-phase, 3 wire, Wye
- 208Y/120V, 480Y/277V



- DC Applications
- Panel bus configured for DC applications, MLO option only, CCP2B 125Vdc ≤ 80A

Branch circuit positions

- 18, 30, 42, 60, 72, and 84

Neutral options

- Unbonded and bonded 200, 400 and 800 A

Ground options

- Isolated and non-isolated

Enclosures

- NEMA® 1, 3R, 4X and 12

Spare fuse compartment

- Six space spare fuse compartment standard on all models

Average NEMA 1 QSCP weights*

- 18 circuit: 80 lbs (36 kg); 30 circuit: 100 lbs (45 kg); 42 circuit: 110 lbs (50 kg); 60 circuit: 160 lb (73 kg); 72 circuit: 200 lb (90 kg); 84 circuit: 190 lb (86 kg) only available with MLO

* Weight varies by options chosen. If needed, consult factory for exact weight.

CCPB/CCP horsepower ratings

Branch disconnect	Amp rating	Hp rating @ Vac				
		120	240*	240**	480	600
CCP2B-(poles)-15CF	15	0.5	1.5	3	5	7.5
CCP2B-(poles)-20CF	20	0.75	2	3	7.5	10
CCP2B-(poles)-30CF	30	2	7.5	7.5	15	20
CCP2B-(poles)-40CF	40	2	3	7.5	20	10
CCP2B-(poles)-50CF	50	3	5	7.5	20	10
CCP2B-(poles)-60CF	60	2	7.5	15	30	20
CCP2B-(poles)-70CF†	70	3	7.5	15	30	40
CCP2B-(poles)-90CF†	90	5	10	20	50	40
CCP2B-(poles)-100CF†	100	5	10	20	50	40
CCP2-(poles)-200CF††	200	-	10	60	125	150

* Split-phase

** Three-phase

† Available for a bus rating of 225 A or higher.

†† Available for a bus rating of 600 A.

Panelboard Short-Circuit Current Ratings (SCCRs)

SCCR	AC main options				DC
	Main Lug Only (MLO)*	70-200 & 600 A main disc. no fuses* or w/ Class J fuses	225-400 A main disc. no fuses* or w/ Class J fuses	CCP2_CF main disc. (≤ 200 A)**	Main Lug Only (MLO)*
High	200 kA	200 kA	100 kA	200 kA	100 kA
Std.	50 kA	50 kA	50 kA	50 kA	20 kA

* For panelboards with main lugs only, subfeed main lugs, feed-through lugs, or non-fused disconnects, class J, T, or R fuses are required upstream. The maximum upstream fuse amperage is equal to the panel amperage.

** CUBEFuse™ disconnect.

Main device conductor information*

Main lug only (MLO)	Wire size	Lugs per phase	Wires per lug	Torque
≤60A mechanical lugs	2-4 AWG	1	1	5. 6N•m (50 lb-in)
	6-10 AWG	1	1	4.5 N•m (40 lb-in)
	12-14 AWG	1	1	1.7 N•m (15 lb-in)
>60 to 200A mechanical lugs	300 kcmil-1 AWG	1	1	42 N•m (375 lb-in)
	2-6 AWG	1	1	31 N•m (275 lb-in)
70-200A sub-feed mechanical lugs	300 kcmil-6 AWG	2	1	31 N•m (275 lb-in)
≤60A compression lugs	1/0-8AWG	1	1	N/A - Versa-Crimp VC-6 crimp tool recommended
70-200A compression lugs	300 kcmil-4 AWG	1	1	N/A - Versa-Crimp VC-6 crimp tool recommended
225-400A mechanical lugs	600 kcmil-4 AWG	1	1	56 N•m (500 lb-in)
225-400A subfeed mechanical lugs	600 kcmil-2 AWG	2	1	42 N•m (375 lb-in)
225-400A compression lugs	600-250 kcmil	1	1	N/A - Versa-Crimp VC-6 crimp tool recommended
600A mechanical lugs	350 kcmil-6AWG	2	1	37 N•m (325 lb-in)
600A sub-feed mechanical lugs	350 kcmil-6AWG	4	1	37 N•m (325 lb-in)
600A compression lugs	350 kcmil-250kcmil	2	1	N/A - Versa-Crimp VC-6 crimp tool recommended
Fused main disconnect	Wire size	Lugs per phase	Wires per lug	Torque
30-60A Disconnect	4-6 AWG	1	1	3.9 N•m (35 lb-in)
	8-18 AWG	1	1	2.2 N•m (20 lb-in)
100A Disconnect	1-3 AWG	1	1	6.2 N•m(55 lb-in)
	4-6 AWG	1	1	5.1 N•m(45 lb-in)
	8 AWG	1	1	4.5 N•m(40 lb-in)
	10 AWG	1	1	2.8 N•m(25 lb-in)
	12-18 AWG	1	1	2.2 N•m(20 lb-in)
200A Disconnect	350 kcmil-4AWG	1	1	28 N•m (250 lb-in)
225-400A Disconnect	500 kcmil - 3AWG	1	1	42 N•m (375 lb-in)
600A Disconnect	350 kcmil-6AWG	2	1	42 N•m (375 lb-in)
Non-fused main disconnect	Wire size	Lugs per phase	Wires per lug	Torque
30-60A Disconnect	4-6 AWG	1	1	3.9 N•m (35 lb-in)
	8-18 AWG	1	1	2.2 N•m (20 lb-in)
100A Disconnect	1-3 AWG	1	1	6.2 N•m(55 lb-in)
	4-6 AWG	1	1	5.1 N•m(45 lb-in)
	8 AWG	1	1	4.5 N•m(40 lb-in)
	10 AWG	1	1	2.8 N•m(25 lb-in)
	12-18 AWG	1	1	2.2 N•m(20 lb-in)
200A Disconnect	350 kcmil-4AWG	1	1	28 N•m (250 lb-in)
225-400A Disconnect	500 kcmil - 3AWG	1	1	42 N•m (375 lb-in)
600A Disconnect	350 kcmil-6AWG	2	1	42 N•m (375 lb-in)
Loadside fused disconnect	Wire size	Lugs per phase	Wires per lug	Torque
225-400A disconnect	300 kcmil-1 AWG	1	1	42 N•m (375 lb-in)
	2-6 AWG	1	1	31 N•m (275 lb-in)

* NEC 310.10(G) requires conductors in parallel to be 1/0 AWG and larger

Configuration table

Enclosure height	Panel amps	Branch positions	Available configurations		
33"	30-200	18	- main lug only	with or without Feed-Through-Lugs/advanced SPD	
			- non-fused disconnect, no loadside options	with or without advanced SPD	
	30-60	30	- main lug only, no loadside options	with or without advanced SPD	
		18	- 30 through 60A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
		30	- 30 through 60A fused main disconnect,	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	70-200	42	- 30 through 60A fused main disconnect	Feed-Through-Lugs/advanced SPD	
18		- 70 through 200A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD		
50"	30-200	30	- 70 through 200A fused main disconnect	with or without Feed-Through-Lugs/advanced SPD	
		18	- main lug only	with or without DIN-rail mounted SPD/advanced SPD	
	30-200	18	- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
		30	- main lug only	with DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
		42	- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	225-400	42	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
		18	- non-fused disconnect	with or without Feed-Through-Lugs/advanced SPD	
	600	30	- main lug only	with or without Feed-Through-Lugs/advanced SPD	
		18	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	59"	70-200	30	- main lug only	with or without DIN-rail mounted SPD/advanced SPD
			42	- 70 through 200A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
		30-200	42	- Fused/non-fused main disconnect	with or without DIN-rail mounted SPD/advanced SPD
225-400			18	- main lug only with loadside disconnect	with or without advanced SPD
		18	- non-fused disconnect	with DIN-rail mounted SPD/advanced SPD	
		18	- 225 through 400A fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
		30	- main lug only	with or without DIN-rail mounted SPD/advanced SPD	
		30	- fused main disconnect, with no loadside options	with or without advanced SPD	
		42	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
600		42	- non-fused disconnect, with no loadside options	with or without advanced SPD	
		18	- main lug only with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		18	- main lug only with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		30	- main lug only with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		30	- main lug only with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		42	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
69"		225-400	42	- main lug only	with or without DIN-rail mounted SPD/ advanced SPD
			42	- main lug only with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			18	- main lug only with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			18	- non-fused disconnect, with loadside disconnect	with or without advanced SPD
			30	- main lug only, with loadside disconnect	with or without advanced SPD
		600	30	- fused main disconnect	with DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
	42		- non-fused disconnect	with DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	42		- fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	60		- main lug only	without DIN-rail mounted SPD/feed-through lugs/advanced SPD	
	18		- main lug only with loadside disconnect with fuse	with or without advanced SPD	
	18		- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
	18		- 600A fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
79"	600	18	- non-fused diconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		18	- non-fused diconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		30	- 600A fused disconnect, with no loadside options	with or without advanced SPD	
		30	- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD	
79"	600	42	- non-fused disconnect, with no loadside options	with or without advanced SPD	
		18	- main lug only with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD	
		18	- fused diconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		18	- main lug only with up to twelve CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD	
79"	600	18	- fused diconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD	
		18	- main lug only with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD	

Other enclosures available. Consult factory for details.

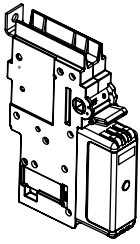
Configuration table (cont.)

Enclosure height	Panel amps	Branch positions	Available configurations	
79	600	30	- fused disconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- non-fused disconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- fused disconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- non-fused disconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- main lug only, with loadside disconnect with fuse	with or without advanced SPD
			- 600A fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
		42	- non-fused disconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- non-fused disconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
			- 600A fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
		83	- non-fused disconnect	with or without advanced SPD/ feed through
			- fused main disconnect	with or without advanced SPD/ feed through
83	600	100-200	- main lug only	with feed through lugs/ advanced SPD
			- fuse disconnect	with feed through lugs/ advanced SPD
			- non-fused disconnect	with feed through lugs/advanced SPD
			- fused disconnect	with or without advanced SPD/ feed through
			- non-fused disconnect	with or without advanced SPD/ feed through
			- fused disconnect, without load side options	
		225-400	- non-fused disconnect, without load side options	
			- main lug only	with or without feed through lugs
			- main lug only	with or without feed through lugs
89"	600	100-200	- main lug only	with or without feed-through lugs/ DIN-rail mounted SPD/ advanced SPD and mains/ branch metering
			- main lug only	with feed through lugs/ advanced SPD
			- fuse disconnect	with feed through lugs/ advanced SPD
			- non-fused disconnect	with feed through lugs/ advanced SPD
			- non-fused mains disconnect, with load side disconnect	with or without advanced SPD and mains/ branch metering
			- main lug only, with load side disconnect	with or without advanced SPD and mains/ branch metering
		225-400	- fused mains disconnect	with or without feed-through lugs/ DIN-rail mounted SPD/ advanced SPD and mains/ branch metering
			- fused/ non fused mains disconnect	with or without feed-through lugs/ DIN-rail mounted SPD/ advanced SPD and mains/ branch metering
			- fused disconnect	with or without advanced SPD/ feed through
			- non-fused disconnect	with or without advanced SPD/ feed through
			- fused disconnect, without load side options	
			- non-fused disconnect, without load side options	
		600	- main lug only	with or without feed through lugs
			- main lug only	with or without feed through lugs
			- non-fused disconnect, with loadside disconnect with fuse	with or without advanced SPD
			- main lug only with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
			- main lug only with up to twelve CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
			- main lug only with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
96"	600	18	- fused disconnect with up to six CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- main lug only with up to twelve CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
			- fused disconnect with up to twelve CCP2-200CF branch poles	with or without feed-through lugs/ DIN-rail mounted SPD/advanced SPD
			- non-fused disconnect with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
			- non-fused disconnect with up to twelve CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD
			- non-fused disconnect with up to six CCP2-200CF branch poles, with load side disconnect	with or without advanced SPD

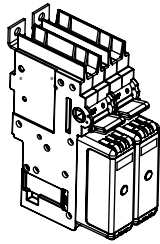
Other enclosures available. Consult factory for details.

Branch disconnects

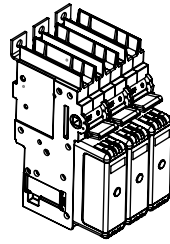
The QSCP uses the Bussmann series Compact Circuit Protector Base (CCPB) for its branch circuit disconnect up to 100 amps and the Compact Circuit Protector (CCP) for its 200 amp branch circuit disconnect. The CCPB accepts either the time-delay or fast-acting CUBEFuse while the CCP accepts the time-delay CUBEFuse.



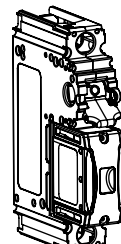
CCP2B-1-CF



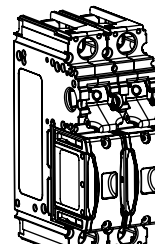
CCP2B-2-CF



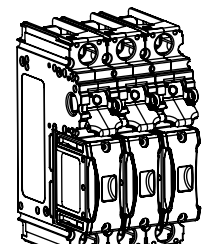
CCP2B-3-CF



CCP2-1-CF



CCP2-2-CF



CCP2-3-CF

15 to 60 amp switch box lug conductor data, 75°C Cu

AWG range	Class	Quantity	Torque N-m (lb-in)
4-6	Stranded, Class B to K	Single	3.95 (35)
8-18			2.26 (20)
6-8	Stranded, Class B/C	Dual	3.39 (30)
	Stranded, Class K		2.26 (20)
10-18	Stranded, Class B to K	Single/dual	2.26 (20)
10-18	Solid		
4-18	Stranded, UL ferrule, Class B/C	Single	3.39 (30)
6-18		Twin†	
4-18	Stranded, UL ferrule, Class K	Single	2.82 (25)
6-18		Twin†	

† Two stranded conductors placed in one UL Listed twin ferrule.

200 A switch lug conductor data, 75C Cu/Al

AWG range	Class	Quantity	Torque N-m (lb-in)
350- 4	Stranded, Class B/C	1	42.0(375)

70 to 100 amp switch box lug conductor data, 75°C Cu

AWG range	Class	Quantity	Torque N-m (lb-in)
12-18	Stranded, Class B to K	Single	2.26 (20)
10			2.82 (25)
8			4.52 (40)
4-6			5.08 (45)
1-3	Stranded, Class B to K	Dual	6.21 (55)
3-12			3.95 (35)
12-18	Stranded, UL ferrule, Class B/C	Single	2.26 (20)
10			3.95 (35)
1-8			4.52 (40)
10-18			2.26 (20)
6-8	Solid	Twin†	2.82 (25)
10-18			2.26 (20)
10-18	Solid	Single	2.26 (20)
		Dual	2.26 (20)
8-18	Class K	Single	2.26 (20)
1-6			3.39 (30)
3-10	Class K	Dual	5.08 (45)
8-18			2.26 (20)
1-6	Class K, UL ferrule	Single	3.39 (30)
6-18			2.26 (20)
		Twin	2.26 (20)

† Two stranded conductors placed in one UL Listed twin ferrule.

Accessories

Catalog no.	Description	Compatible CCP2B
CCP2B-60-LOD	Lock on device for select CCP2B bases	CCP2B-X-15CF*
		CCP2B-X-20CF*
		CCP2B-X-30CF*
		CCP2B-X-40CF*
		CCP2B-X-50CF*
		CCP2B-X-60CF*

*(X = 1,2,3 poles)

- Lock Shackle Size = 1/4" dia. max
- Flammability rating of lock on device PA12-GB nylon resin = 94V-0

CCP2B-60-LOD - Lock on device for Compact Circuit Protector Disconnect Switches up to 60 amps

The lock on device (CCP2B-60-LOD) ensures the ON state of a CCP2B switch used in fire alarm circuits and other critical circuit applications.

This device allows for compliance with NEC, UL and CE code requirements for fire alarm circuits and can accommodate a padlock to prevent the operation of the switch.

See data sheet 11323



Set screw size:
5/64"x3/8", 8-32 thread
Allen wrench size: 5/64"

Available Bussmann series CUBEFuse

CCPB*/CCP cat. no.	Poles	Fuse amp range	Max switch amps	Typical installed fuse amp range		
				Time-delay non-indicating fuses	Time-delay indicating fuses**	Fast-acting non-indicating fuses
CCP2B-1-15CF	1	1 to 15	15	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN	TCF6, TCF10, TCF15	FCF1RN, FCF3RN, FCF6RN, FCF10RN, FCF15RN
CCP2B-2-15CF	2					
CCP2B-3-15CF	3					
CCP2B-1-20CF	1	1 to 20	20	TCF17-1/2RN, TCF20RN	TCF17-1/2, TCF20	FCF20
CCP2B-2-20CF	2					
CCP2B-3-20CF	3					
CCP2B-1-30CF	1	1 to 30	30	TCF25RN, TCF30RN	TCF25, TCF30	FCF25RN, FCF30RN
CCP2B-2-30CF	2					
CCP2B-3-30CF	3					
CCP2B-1-40CF	1	1 to 40	40	TCF35RN, TCF40RN	TCF35, TCF40	FCF35RN, FCF40RN
CCP2B-2-40CF	2					
CCP2B-3-40CF	3					
CCP2B-1-50CF	1	1 to 50	50	TCF45RN, TCF50RN	TCF45, TCF50	FCF45RN, FCF50RN
CCP2B-2-50CF	2					
CCP2B-3-50CF	3					
CCP2B-1-60CF	1	1 to 60	60	TCF60RN	TCF60	FCF60RN
CCP2B-2-60CF	2					
CCP2B-3-60CF	3					
CCP2B-1-70CF	1†	1 to 70	70	TCF70RN	TCF70	FCF70RN
CCP2B-2-70CF	2†					
CCP2B-3-70CF	3†					
CCP2B-1-90CF	1†	1 to 90	90	TCF80RN, TCF90RN	TCF80, TCF90	FCF80RN, FCF90RN
CCP2B-2-90CF	2†					
CCP2B-3-90CF	3†					
CCP2B-1-100CF	1†	1 to 100	100	TCF100RN	TCF100	FCF100RN
CCP2B-2-100CF	2†					
CCP2B-3-100CF	3†					
CCP2-1-200CF	1††	110-200	200	TCF110RN, TCF125RN, TCF150RN, TCF175RN, TCF200RN	TCF110, TCF125, TCF150, TCF175, TCF200	N/A
CCP2-2-200CF	2††					
CCP2-3-200CF	3††					

* CCP2B disconnect can accept CUBEfuses with amp ratings less than or equal to the amp rating of the CCP2B disconnect.

** Correct fit with CCP2B disconnect requires indicating CUBEfuses with date code R38 or later.

† Available for a bus rating of 225 A or higher.

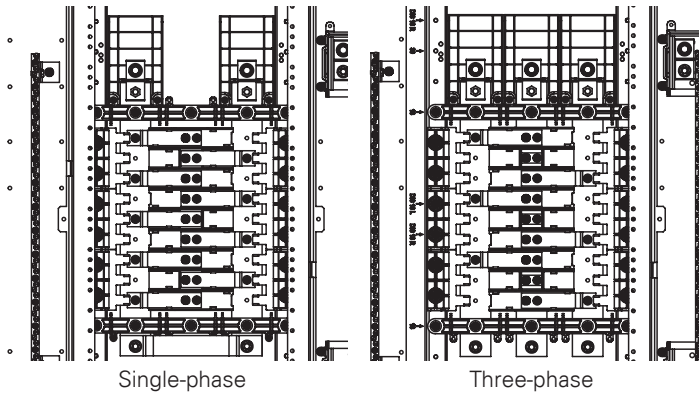
†† Available for a bus rating of 600 A

Busing

The busing features tin-plated copper with sufficient cross section to meet UL 67 temperature rise requirements.

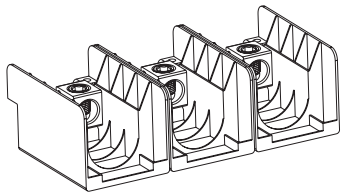
Distributed 1- and 3-phase busing

All CCP2B branch disconnects can be mounted in any branch circuit position.



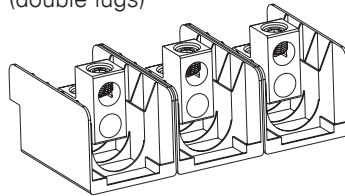
≤ 200 A main lugs for 60/75° Cu-Al conductors

Main mechanical lugs



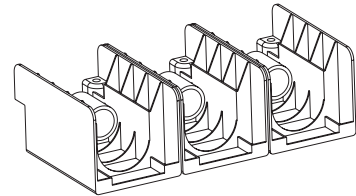
- ≤ 60 A panels
 - 2-4 AWG / 5.6 N•m (50 lb-in)
 - 6-10 AWG / 4.5 N•m (40 lb-in)
 - 12-14 AWG / 1.7 N•m (15 lb-in)
- > 60 to 200 A panels
 - 300 kcmil-1 AWG / 42 N•m (375 lb-in)
 - 2-6 AWG / 31 N•m (275 lb-in)

Main sub-feed mechanical lugs (double lugs)



- 70-200 A panels, (2) 300 kcmil - 6 AWG / 31 N•m (275 lb-in)
- Smaller lugs for ≤ 60 amp panels not available.

Main compression (crimp) lugs*

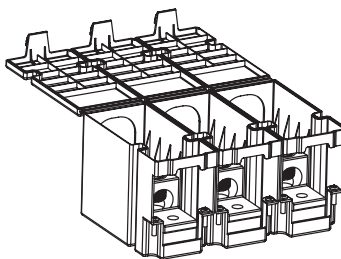


- ≤ 60 A panels, 1/0 - 8AWG
- > 60 A panels, 300 kcmil-4 AWG

* Versa-Crimp® VC-6 crimp tool recommended for wire crimping.

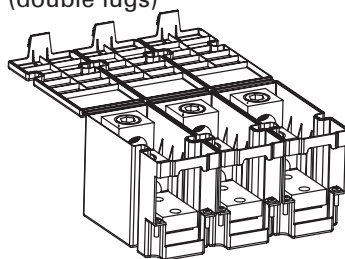
225-400 A main lugs for 60/75° Cu-Al conductors

Main mechanical lugs



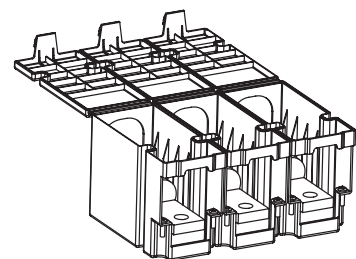
Main barrier cover open wire, 600 kcmil-4 AWG / 56 N•m (500 lb-in)

Main sub-feed mechanical lugs (double lugs)



Main barrier cover open wire, (2) 600 kcmil-2 AWG / 42 N•m (375 lb-in)

Main compression (crimp) lugs*



Main barrier cover open wire, 600-250 kcmil

* Burndy 644/444 crimp tool recommended for wire crimping.

Feed-through lugs

Compression, mechanical and double (sub-feed) lugs are all available as feed-through lugs except if the Surge Protective Device (SPD) or loadside disconnect options are chosen. Lug amp ratings will be based upon panelboard amp rating.

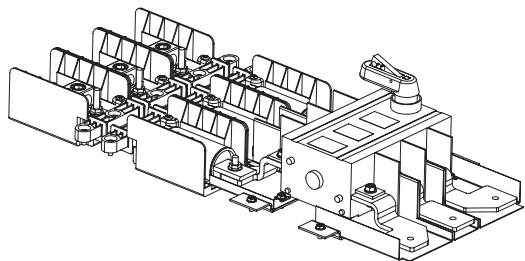
225-400 A loadside fused disconnect available on

- 18 branch position MLO
- 18 branch position non-fused main disconnect

Switch amps: 400

Mechanical lugs

- 300 kcmil-1 AWG / 42 N•m (375 lb-in)
- 2-6 AWG / 31 N•m (275 lb-in)



Fuse mounting torque: 4.5 N•m (40 lb-in)

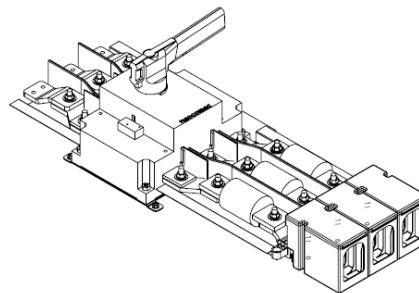
600 A loadside fused disconnect available on

- 18, 30 and 42 branch position MLO
- 18 branch position non-fused main disconnect

Switch amps: 600

Mechanical lugs

- (2) 350 kcmil-6 AWG / 42 N•m (375 lb-in)

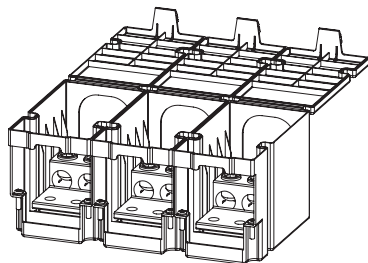


Fuse mounting torque: 4.5 N•m (40 lb-in)

600 A main lugs for 60/75° Cu-Al conductors:

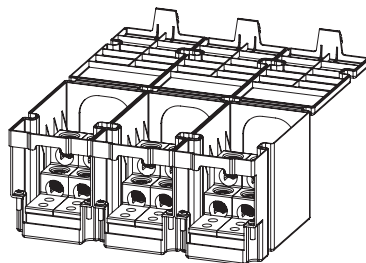
Main mechanical lugs (double lugs)

- Barrier cover open wire
- (2) 350 kcmil-6 AWG / 37 N•m (325 lb-in)



Main sub-feed mechanical lugs (double lugs)

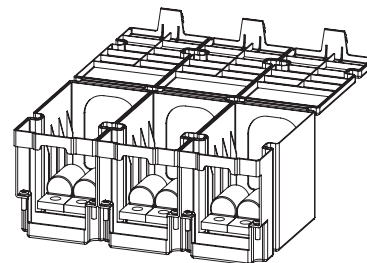
- Barrier cover open
- (2) 350 kcmil-6 AWG / 37 N•m (325 lb-in)



Main compression (crimp) lugs* (double lugs)

- Main barrier cover open
- (2) 350 kcmil- 250 kcmil

*Versa-Crimp® VC-6 crimp tool recommended for wire crimping



Feed-through lugs

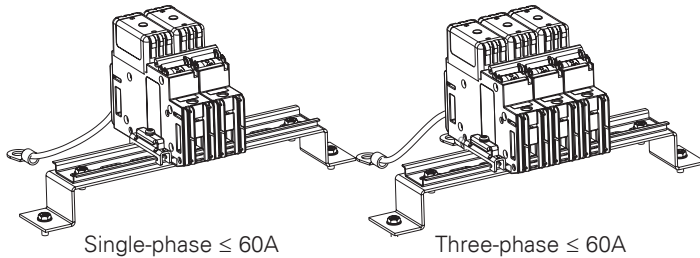
Compression, mechanical and double (sub-feed) lugs are all available as feed-through lugs. Lug ampacity ratings will be based upon panelboard ampacity rating.

30-60 A main disconnects for 75°C Cu conductors

30-60 A fused/Non-fused main disconnects, 1- and 3-phase

Not available with DC ratings

- 8-18 AWG single / 2.2 N•m (20 lb-in)
- 4-6 AWG single / 3.9 N•m (35 lb-in)

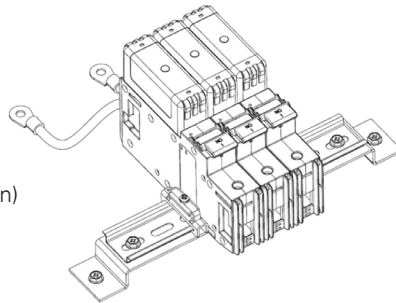


100A main disconnect for 75°C Cu conductors

100 A fused/Non-fused main disconnects, 1- and 3-phase

Not available with DC ratings

- 1-3 AWG / 6.2 Nm (55lb-in)
- 4-6 AWG / 5.1 Nm (45lb-in)
- 8 AWG / 4.5 Nm (40lb-in)
- 10 AWG / 2.8 Nm (25lb-in)
- 12-18 AWG / 2.2 Nm (20lb-in)

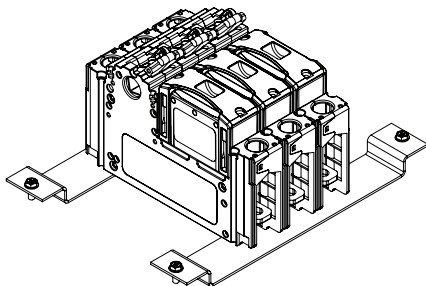


200 A main disconnects for 75°C Cu/Al conductors:

Fused/Non-fused main disconnect, 1- and 3-phase

Not available with DC ratings

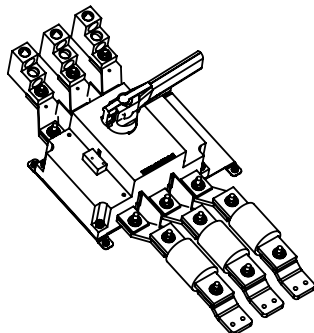
- 300 kcmil-4 AWG / 28 N•m (250 lb-in) with Al lug



600 A main disconnects for 75°C Cu conductors

Fused main disconnect, 1- and 3-phase

- 2-350 kcmil-6 AWG / 42 N•m (375 lb-in)

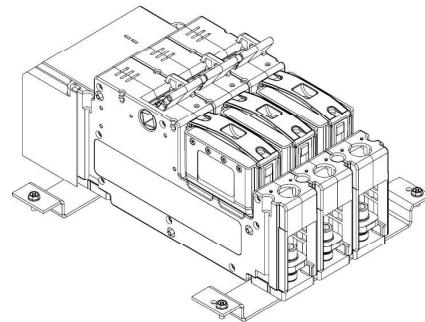


225-400 A main disconnects for 75°C Cu/Al conductors

Fused main disconnect, 1- and 3-phase

Not available with DC ratings

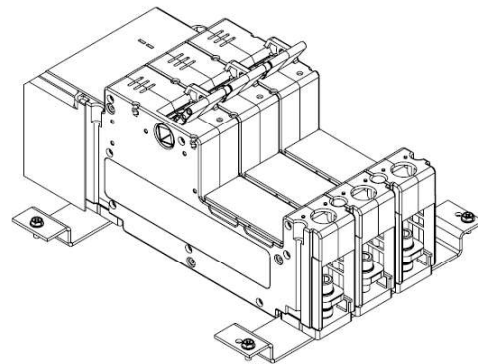
- 500 kcmil - 3 AWG / 42 N•m (375 lb-in)



400 A Non-fused main disconnect, 1- and 3-phase

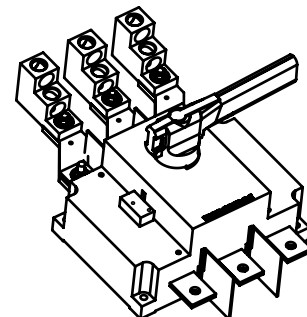
Not available with DC ratings

- 500 kcmil - 3 AWG / 42 N•m (375 lb-in)



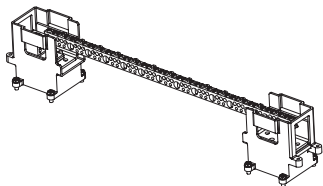
600 A Non-fused main disconnect, 1- and 3-phase

- 2-350 kcmil-6 AWG / 42 N•m (375 lb-in)



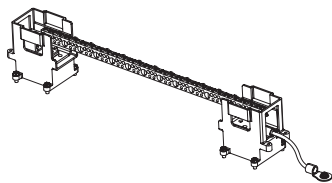
Neutral assemblies for 60/75°C Cu-Al conductors

200 A Unbonded



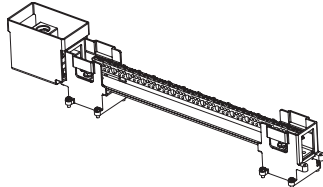
- Main terminal 300 kcmil-1 AWG / 42 N•m (375 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper
- Lug material: aluminum

200 A Bonded



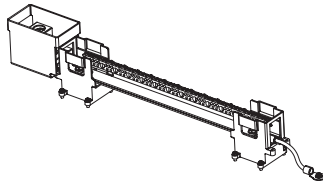
- Main terminal 300 kcmil-1 AWG / 42 N•m (375 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper
- Lug material: aluminum

400 A Unbonded



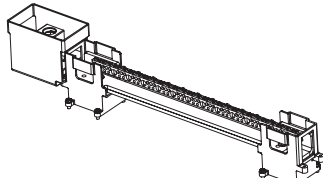
- Main terminal 600 kcmil-4 AWG / 56 N•m (500 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper
- Lug material: aluminum

400 A Bonded



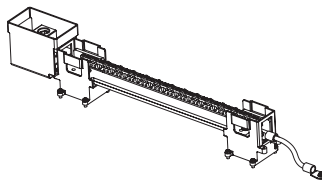
- Main terminal 600 kcmil-4 AWG / 56 N•m (500 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper
- Lug material: aluminum

800 A Unbonded



- Main terminal (2) 600 kcmil-4 AWG / 42 N•m (375 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper, tin-plated
- Lug material: aluminum, tin-plated

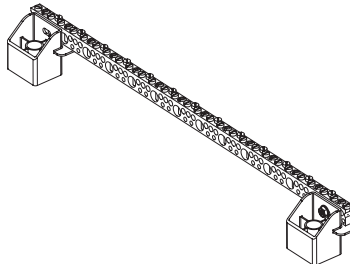
800 A Bonded



- Main terminal (2) 600 kcmil-4 AWG / 42 N•m (375 lb-in)
- Wire range and torque - see table
- Bar material: aluminum / copper, tin-plated
- Lug material: aluminum, tin-plated

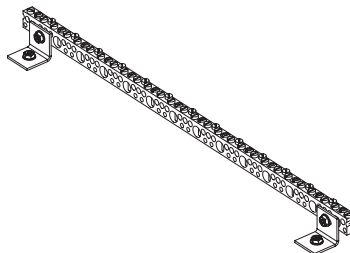
Ground assemblies for 60/75°C Cu-Al conductors

Isolated



- Wire range and torque - see table
- Bar material: aluminum / copper

Non-isolated



- Wire range and torque - see table
- Bar material: aluminum / copper

Neutral and Ground Assembly Installation

To facilitate installation and wiring, both neutral and ground assemblies can be installed on either side of the chassis with the desired orientation using the supplied screws. Assembly torque 2.8 N•m (25 lb-in)

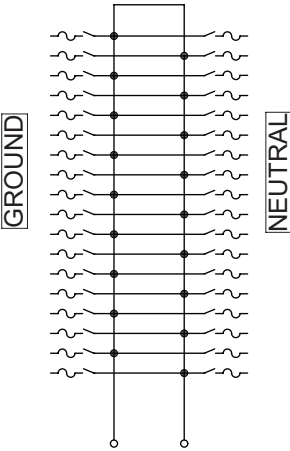
Ground and neutral bar wire connections

Wire AWG*	Torque lb-in (N·m)	Maximum number of wires per opening	
		Neutral	Ground
Small opening			
14	25-35 (2.8-3.9)	2	2
12	25-35 (2.8-3.9)	2	2
10	25-35 (2.8-3.9)	2	2
8	30-40 (3.4-4.5)	1	1
6-4	35-40 (3.9-4.5)	1	1
Large opening			
14	25-35 (2.8-3.9)	3	3
12	25-35 (2.8-3.9)	3	3
10	35 (3.9)	3	3
8	30-40 (3.4-4.5)	1	1
6-4	35-40 (3.9-4.5)	1	1
3-1/0	40-50 (4.5-5.6)	1	1

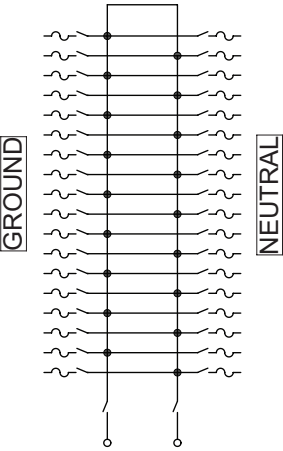
* 60/75°C, Cu-Al.

Typical schematics

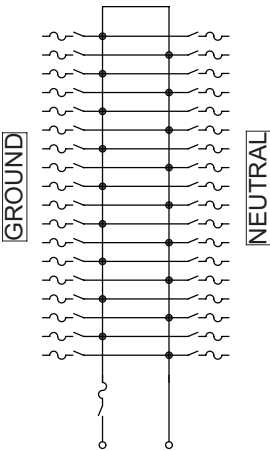
See main fused disconnect switch rating, if used.



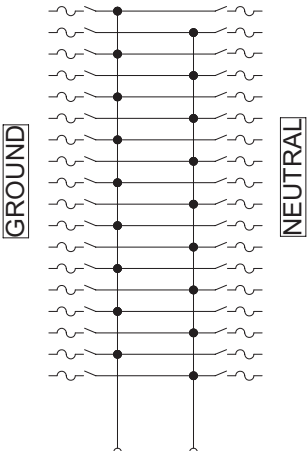
Single-Phase, 2 Wire
Main Lug Only



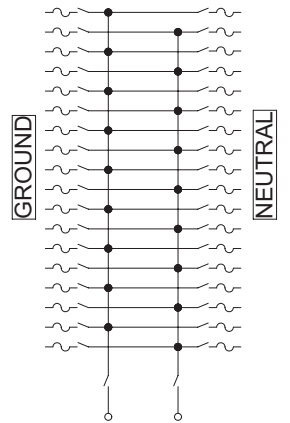
Single-Phase, 2 Wire
Non-Fused Disconnect



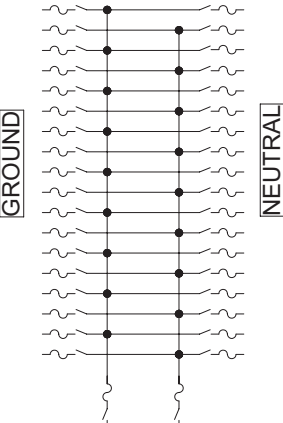
Single-Phase, 2 Wire
Fused Disconnect



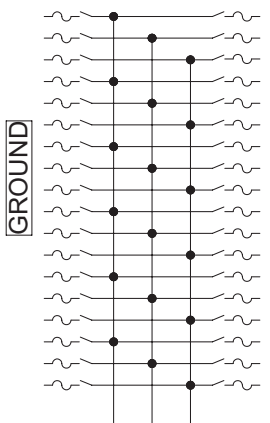
Single-Phase, 3 Wire
Main Lug Only



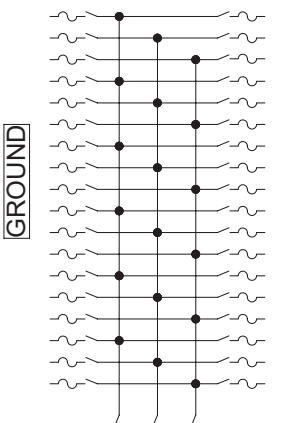
Single-Phase, 3 Wire
Non-Fused Main Disconnect



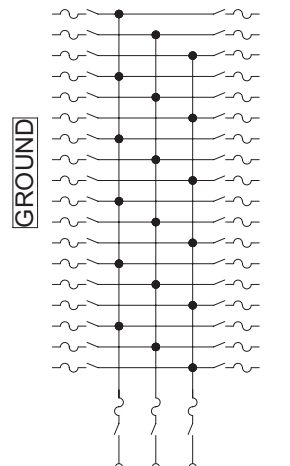
Single-Phase, 3 Wire
Fused Main Disconnect



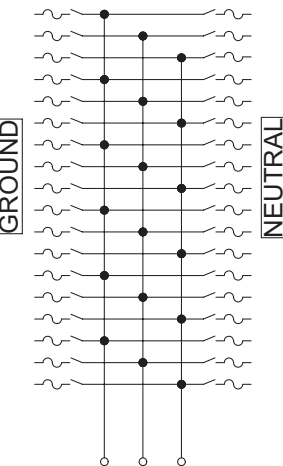
Three-Phase, 3 Wire
Main Lug Only



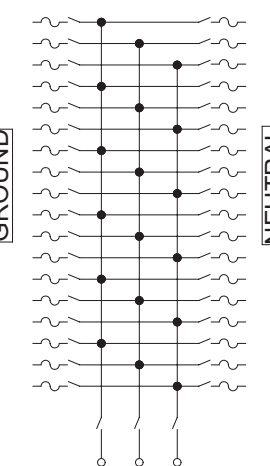
Three-Phase, 3 Wire
Non-Fused Main Disconnect



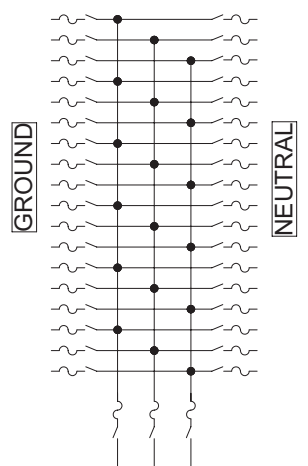
Three-Phase, 3 Wire
Fused Main Disconnect



Three-Phase, 4 Wire
Main Lug Only



Three-Phase, 4 Wire
Non-Fused Main Disconnect



Three-Phase, 4 Wire
Fused Main Disconnect

Enclosures

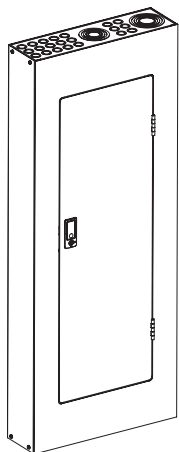
NEMA 1 enclosures and interior

- Flush or surface mount
- Galvanized steel with removable end walls - blank or with knockouts to order
- Box sizes: 20" or 24" or 28" W x 5.75" or 6.7" or 9.5" D x 33" or 50" or 59" or 69" or 79" or 83" or 89" or 96" H
 - (510 or 609 or 711 W x 145 or 242 D x 838 or 1270 or 1500 or 1753 or 2010 or 2011 or 2108 or 2260 or 2440 mm H).
 - Box can be rotated 180° to accommodate conduit feed
- Enclosure and chassis mounting instructions are found in supplied literature
- Chassis mounts directly onto studs in the enclosure
- Trim finished with gray powder coat paint over phosphatized steel (ANSI 61)
- Single door and door-in-door configurations with locks
- Door locks use key #2A1910-2
- Circuit directory card is located on the inside of the door
- Trim screws are concealed

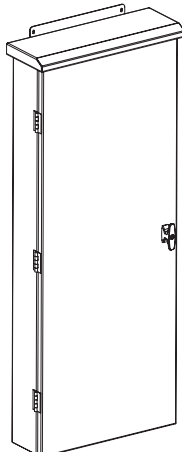
NEMA 3R enclosures

Interior same as NEMA 1

- Surface mount only
- Finished with gray powder coat paint over phosphatized steel (ANSI 61)
- Bottom feed only, no knockouts
- Box sizes: 20" or 24" or 28" W x 7.7" or 8.7" or 11.5" D x 34.5" or 51.5" or 60.5" or 70.5" or 80.5" or 84.5" or 90.5" or 97.5" H
 - (510 or 609 or 711 W x 195 or 292 D x 876 or 1310 or 1535 or 1791 or 2045 or 2146 or 2300 or 2480 mm H)
- Enclosure and chassis mounting instructions are found in supplied literature
- Chassis mounts directly onto studs in the enclosure
- Gasketed door has vault handle with lock
- Door locks use key #2A1910-1
- Circuit directory card is located on the inside of the door



NEMA 1

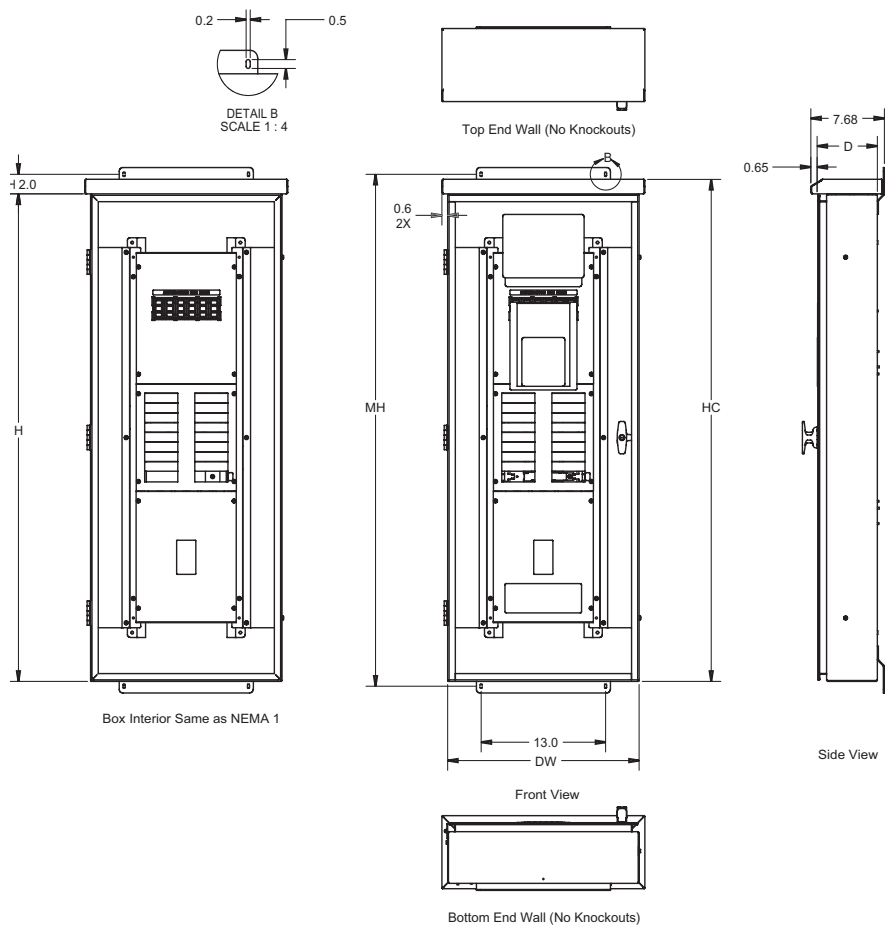
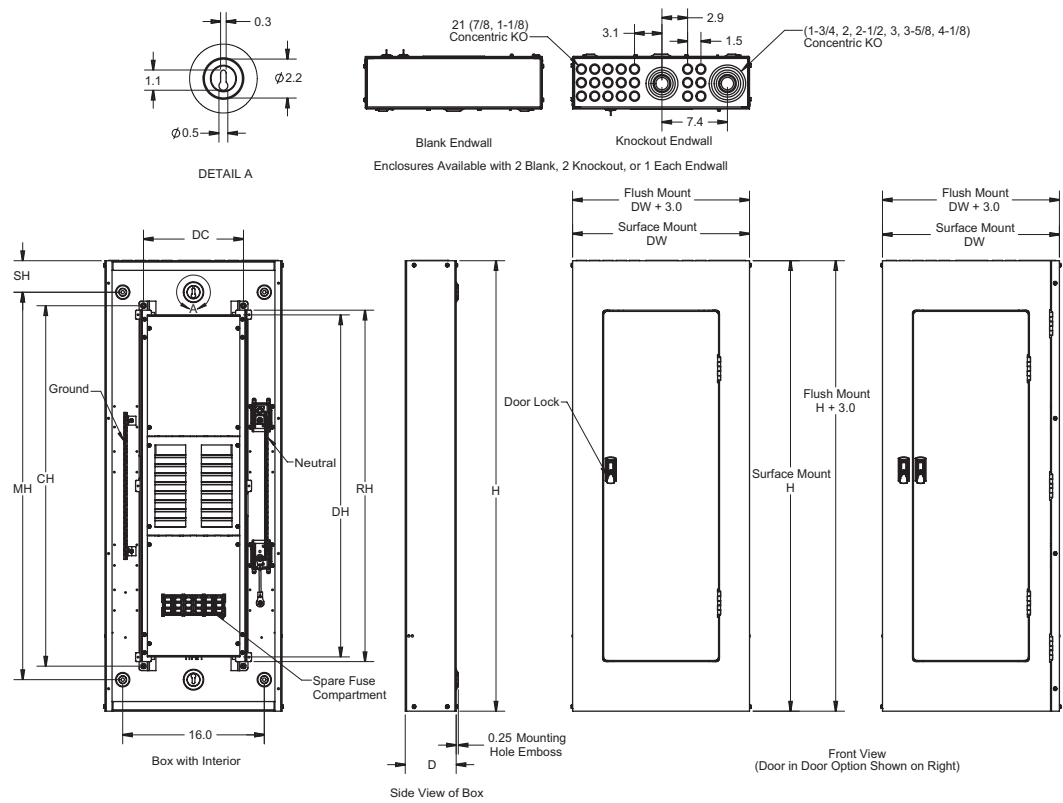


NEMA 3R

Enclosure dimensions — in

Enclosure type	Height	H	HC	MH	CH	DH	RH	SH	DW	D	DC
NEMA 1 (30-400 A)	33	33	N/A	29.0	26	28.9	25	2.0	20	5.7	11.3
	50	50	N/A	43.0	40	37.9	39	3.5	20	5.7	11.3
	59	59	N/A	52.0	49	46.9	48	3.5	20	5.7	11.3
	69	69	N/A	62.0	59	56.9	58	3.5	20	5.7	11.3
	83	83	N/A	76	73	70.9	72	3.5	20	5.7	11.3
	83	83	N/A	76	73	70.9	72	3.5	20	6.7	11.3
NEMA 1 (600 A)	50	50	N/A	43.0	40	37.9	39	3.5	24	5.7	12.7
	59	59	N/A	52.0	49	46.9	48	3.5	24	5.7	12.7
	59	59	N/A	52.0	49	46.9	48	3.5	24	9.5	12.7
	69	69	N/A	62.0	59	56.9	58	3.5	24	9.5	12.7
	79	79	N/A	72.0	69	66.9	68	3.5	24	9.5	12.7
	89	89	N/A	82	79	76.9	78	3.5	24	9.5	12.7
NEMA 3R (30-400 A)	33	33	34.5	35.5	26	28.9	25	2.0	20	6.3	11.3
	50	50	51.5	52.5	40	37.9	39	2.0	20	6.3	11.3
	59	59	60.5	61.5	49	46.9	48	2.0	20	6.3	11.3
	69	69	70.5	71.5	59	56.9	58	2.0	20	6.3	11.3
	59	59	60.5	61.5	49	46.9	48	2	20	7.3	11.3
	69	69	70.5	71.5	59	56.9	58	2	20	7.3	11.3
NEMA 3R (600 A)	83	83	84.5	85.5	73	70.9	72	2	20	6.3	11.3
	83	83	84.5	85.5	73	70.9	72	2	20	7.3	11.3
	50	50	51.5	52.5	40	37.9	39	2.0	24	6.3	12.7
	59	59	60.5	61.5	49	46.9	48	2.0	24	6.3	12.7
	59	59	60.5	61.5	49	46.9	48	2.0	24	10.1	12.7
	69	69	70.5	71.5	59	56.9	58	2.0	24	10.1	12.7
NEMA 3R (600 A)	79	79	80.5	81.5	69	66.9	68	2.0	24	10.1	12.7
	89	89	90.5	91.5	79	76.9	78	2.0	24	10.1	12.7
	96	96	97.5	98.5	85	82.9	84	2.0	28	10.1	12.7
	96	96	97.5	98.5	85	82.9	84	2.0	28	10.1	12.7

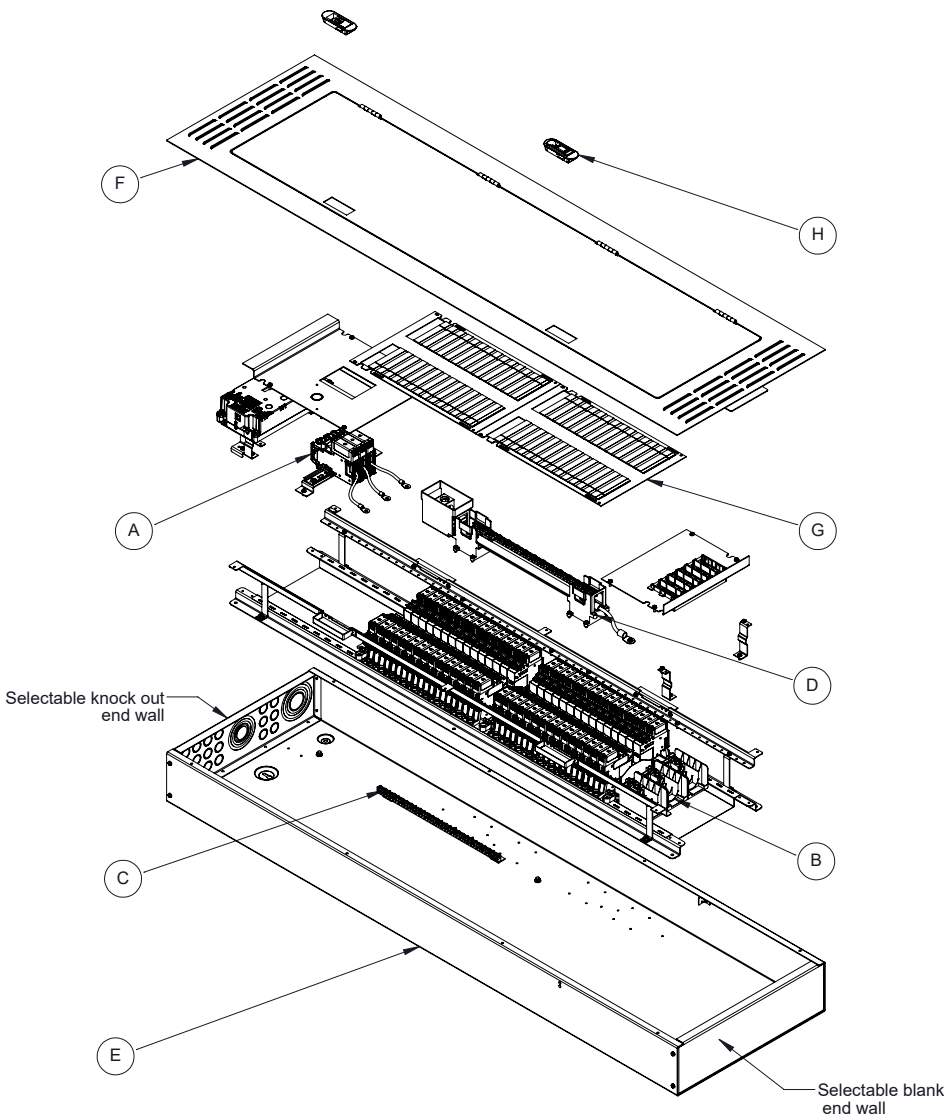
Other enclosures available. Consult factory for details.



Panelboard replacement parts

See list for part numbers.

A and B - main devices and lugs		A and B - main devices and lugs (continued)		A and B - main devices and lugs (continued)	
2A1909-1*	Kit, compression lug 3-phase, 70-200 A	2A1909-14*	Kit, compression lug 1-phase, 2 wire, 70-200 A	2A1909-25*	Kit, double/sub-feed lug 1-phase, 3 wire, 225-400 A
2A1909-2*	Kit, mechanical lug 3-phase, 70-200 A	2A1909-15*	Kit, mechanical lug 1-phase, 2 wire, 70-200 A	2A1909-26*	Kit, compression lug 1-phase, 2 wire, 225-400 A
2A1909-3*	Kit, double/sub-feed lug 3-phase, 30-200 A	2A1909-16*	Kit, double/sub-feed lug 1-phase, 2 wire, 30-200 A	2A1909-27*	Kit, mechanical lug 1-phase, 2 wire, 225-400 A
2A1909-4	Kit, main disconnect 200 A	2A1909-17*	Kit, compression lug 1-phase, 2 wire, 30-60 A	2A1909-28*	Kit, double/sub-feed lug 1-phase, 2 wire, 225-400 A
2A1909-5*	Kit, compression lug 1-phase, 3 wire, 70-200 A	2A1909-18*	Kit, mechanical lug 1-phase, 2 wire, 30-60 A	2A1909-29	Kit, main disconnect 225-400 A
2A1909-6*	Kit, mechanical lug 1-phase, 3 wire, 70-200 A	2A1909-19	Kit, main disconnect 30-60 A 1-phase, 2 wire,	2A1909-30	Kit, main disconnect 3-phase, 100 A
2A1909-7*	Kit, double/sub-feed lug 1-phase, 3 wire, 30-200 A	2A1909-20*	Kit, compression lug 3-phase, 225-400 A	2A1909-31	Kit, main disconnect 1-phase, 3 wire, 100 A
2A1909-8	Kit, main disconnect 30-60 A 1-phase, 3 wire	2A1909-21*	Kit, mechanical lug 3-phase, 225-400 A	2A1909-32	Kit, main disconnect 1-phase, 2 wire, 100 A
2A1909-9	Kit, main disconnect 30-60 A 3-phase	2A1909-22*	Kit, double/sub-feed lug 3-phase, 225-400 A	2A1909-33	Kit, main disconnect 3-phase, 200 A
2A1909-10*	Kit, compression lug 3-phase, 30-60 A	2A1909-23*	Kit, compression lug 1-phase, 3 wire, 225-400 A	2A1909-34	Kit, main disconnect 1-phase, 3 wire, 200 A
2A1909-11*	Kit, mechanical lug 3-phase, 30-60 A	2A1909-24*	Kit, mechanical lug 1-phase, 3 wire, 225-400 A	2A1909-35	Kit, main disconnect 1-phase, 2 wire, 200 A
2A1909-12*	Kit, compression lug 1-phase, 3 wire, 30-60 A			2A1909-36	Kit, Non-fused main disconnect 3-phase, 60 A
2A1909-13*	Kit, mechanical lug 1-phase, 3 wire, 30-60 A			2A1909-37	Kit, Non-fused main disconnect 1-phase, 3 wire, 60 A



2A1909-36	Kit, Non-fused main disconnect 3-phase, 60 A
2A1909-37	Kit, Non-fused main disconnect 1-phase, 3 wire, 60 A
2A1909-38	Kit, Non-fused main disconnect 1-phase, 2 wire, 60 A
2A1909-39	Kit, Non-fused main disconnect 3-phase, 100 A
2A1909-40	Kit, Non-fused main disconnect 1-phase, 3 wire, 100 A
2A1909-41	Kit, Non-fused main disconnect 1-phase, 2 wire, 100 A
2A1909-42	Kit, fused main disconnect 3-phase, 225- 400 A
2A1909-43	Kit, fused main disconnect 1-phase, 3 wire, 225- 400 A
2A1909-44	Kit, fused main disconnect 1-phase, 2 wire, 225- 400 A
2A1909-45	Kit, Non-fused main disconnect 3-phase, 225-400 A
2A1909-46	Kit, Non-fused main disconnect 1-phase, 3 wire 225- 400 A
2A1909-47	Kit, Non-fused main disconnect 1-phase, 2 wire, 225- 400 A
2A4079-1*	Kit, compression lug 3-phase, 600 A
2A4079-2*	Kit, mechanical lug 3-phase, 600 A
2A4079-3*	Kit, double/sub-feed lug 3-phase, 600 A
2A4079-10	Kit, main disconnect 3-phase, 600 A
2A4079-4*	Kit, compression lug 1-phase, 3 wire, 600 A
2A4079-5*	Kit, mechanical lug 1-phase, 3 wire, 600 A
2A4079-6*	Kit, double/sub-feed lug 1-phase, 3 wire, 600 A
2A4079-11	Kit, main disconnect 1-phase, 3 wire, 600 A
2A4079-7*	Kit, compression lug 1-phase, 2 wire, 600 A
2A4079-8*	Kit, mechanical lug 1-phase, 2 wire, 600 A
2A4079-9*	Kit, double/sub-feed lug 1-phase, 2 wire, 600 A
2A4079-12	Kit, main disconnect 1-phase, 2 wire, 600 A

* Also for use as feed-through lugs based upon panel-board amp rating

C - Ground bars

2A1907-1	Kit, non-isolated
2A1907-2	Kit, isolated

D - Neutral bars

2A1908-1	Kit, 200 A unbonded
2A1908-2	Kit, 400 A unbonded
2A1908-3	Kit, 200 A bonded
2A1908-4	Kit, 400 A bonded
2A1908-5	Kit, 800 A unbonded
2A1908-6	Kit, 800 A bonded

E - Enclosures and boxes

2A1690-1XX [†]	NEMA 1 box, 50" tall	For 600 A Mains with 200 A CCP branch
2A1690-2XX [†]	NEMA 1 box, 59" tall	
2A1690-3XX [†]	NEMA 1 box, 69" tall	
2A1690-4XX [†]	NEMA 1 box, 33" tall	
2A1690-5XX	NEMA 1 box, 83" tall	
2A3845-1XX [†]	NEMA 1 box, 50" tall	
2A3845-2XX [†]	NEMA 1 box, 59" tall	
2A3845-3XX [†]	NEMA 1 box, 69" tall	
2A4393-1XX	NEMA 1 box, 59" tall	
2A4393-2XX	NEMA 1 box, 69" tall	
2A4393-3XX	NEMA 1 box, 83" tall	
3A3884-1XX [†]	NEMA 1 box, 59" tall	For 600 A Mains with 200 A CCP branch
3A3884-2XX [†]	NEMA 1 box, 69" tall	
3A3884-3XX [†]	NEMA 1 box, 79" tall	
3A3884-4XX [†]	NEMA 1 box, 50" tall	
3A3884-5XX [†]	NEMA 1 box, 89" tall	
2A3982-1XX [†]	NEMA 1 box, 59" tall	
2A3982-2XX [†]	NEMA 1 box, 69" tall	
2A3982-3XX [†]	NEMA 1 box, 79" tall	
2A3982-4XX [†]	NEMA 1 box, 89" tall	
2A3982-5XX [†]	NEMA 1 box, 96" tall	
2A1649-1	NEMA 3R enclosure, 51.5" tall	
2A1649-2	NEMA 3R enclosure, 60.5" tall	
2A1649-3	NEMA 3R enclosure, 70.5" tall	
2A1649-4	NEMA 3R enclosure, 34.5" tall	
2A1649-5	NEMA 3R enclosure with louver 51.5" tall	
2A1649-6	NEMA 3R enclosure with louver 60.5" tall	
2A1649-7	NEMA 3R enclosure 84.5" tall	
2A1649-8	NEMA 3R enclosure 60.5" tall	
2A1649-9	NEMA 3R enclosure 70.5" tall	
2A1649-10	NEMA 3R enclosure 84.5" tall	
2A3856-1	NEMA 3R enclosure, 51.5" tall	
2A3856-2	NEMA 3R enclosure, 60.5" tall	
2A3856-3	NEMA 3R enclosure with louver, 70.5" tall	
2A3856-4	NEMA 3R enclosure with louver, 51.5" tall	
2A3856-5	NEMA 3R enclosure with louver, 60.5" tall	
3A3940-1	NEMA 3R enclosure, 51.5" tall	
3A3940-2	NEMA 3R enclosure, 60.5" tall	
3A3940-3	NEMA 3R enclosure with louver, 51.5" tall	
3A3940-4	NEMA 3R enclosure with louver, 60.5" tall	
3A3940-5	NEMA 3R enclosure, 70.5" tall	
3A3940-6	NEMA 3R enclosure, 80.5" tall	
3A3940-7	NEMA 3R enclosure, 90.5" tall	
2A1916-1	Kit, blank enclosure endwall (set of 2)	
2A1916-2	Kit, knockout enclosure endwall (set of 2)	
2A1916-3	Kit, blank enclosure endwall (set of two)	
2A1916-4	Kit, knockout enclosure endwall (set of two)	

E - Enclosures and boxes (continued)

2A3987-1	NEMA 3R enclosure with louver, 60.5" tall	For 600 A Mains with 200 A CCP branch
2A3987-2	NEMA 3R enclosure with louver, 70.5" tall	
2A3987-3	NEMA 3R enclosure with louver, 80.5" tall	
2A3987-4	NEMA 3R enclosure with louver, 90.5" tall	
2A3987-5	NEMA 3R enclosure with louver, 97.5" tall	

† XX in the part number denotes endwall choices B = Blank and K = Knockout

F - Enclosure doors

30-400 amp models

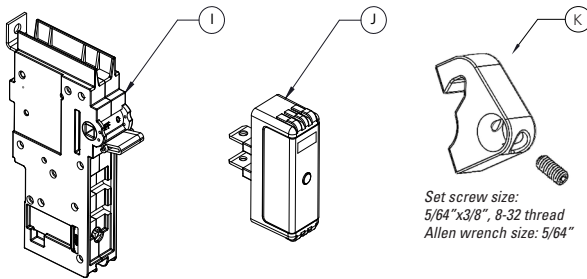
2A1667-1	Door, surface for 50" box
2A1667-2	Door, surface for 59" box
2A1667-3	Door, flush for 50" box
2A1667-4	Door, flush for 59" box
2A1667-5	Door-in-door, surface for 50" box
2A1667-6	Door-in-door, surface for 59" box
2A1667-7	Door-in-door, flush for 50" box
2A1667-8	Door-in-door, flush for 59" box
2A1667-13	Door, surface for 33" box
2A1667-14	Door, flush for 33" box
2A1667-15	Door-in-door, surface for 33" box
2A1667-16	Door-in-door, flush for 33" box
2A1667-9	Door, surface for 69" box with louver
2A1667-10	Door, flush for 69" box with louver
2A1667-11	Door-in-door, surface for 69" box with louver
2A1667-12	Door-in-door, flush for 69" box with louver
2A1667-17	Door, surface for 50" box with louver
2A1667-18	Door, flush for 50" box with louver
2A1667-19	Door-in-door, surface for 50" box with louver
2A1667-20	Door-in-door, flush for 50" box with louver
2A1667-21	Door, surface for 59" box with louver
2A1667-22	Door, flush for 59" box with louver
2A1667-23	Door-in-door, surface for 59" box with louver
2A1667-24	Door-in-door, flush for 59" box with louver
2A1667-25	Door, surface for 83" box with louver
2A1667-26	Door, flush for 83" box with louver
2A1667-27	Door-in-door, surface for 83" box with louver
2A1667-28	Door-in-door, flush for 83" box with louver

600 amp models

2A3847-1	Door, surface for 50" box	For 600 A MLO (main lug only) for load options - No load and TVSS variant
2A3847-2	Door, surface for 59" box	
2A3847-3	Door, flush for 50" box	
2A3847-4	Door, flush for 59" box	
2A3847-5	Door-in-door, surface for 50" box	
2A3847-6	Door-in-door, surface for 59" box	
2A3847-7	Door-in-door, flush for 50" box	
2A3847-8	Door-in-door, flush for 59" box	
2A3847-17	Door, surface for 50" box with louver	
2A3847-18	Door, flush for 50" box with louver	
2A3847-19	Door-in-door, surface for 50" box with louver	
2A3847-20	Door-in-door, flush for 50" box with louver	
2A3847-21	Door, surface for 59" box with louver	
2A3847-22	Door, flush for 59" box with louver	
2A3847-23	Door-in-door, surface for 59" box with louver	
2A3847-24	Door-in-door, flush for 59" box with louver	

F - Enclosure doors (continued)			G - Deadfronts - branch enclosure (continued)		
600 amp models			2A4080-1	Kit, branch enclosure, 18 positions	For 600A mains with 200A and 100A branch circuits
2A4036-1	Door, surface for 59" box	For 600 A MLO (main lug only) for load options-FTL variant	2A4080-2	Kit, branch enclosure, 30 positions	
2A4036-2	Door, flush for 59" box		2A4080-3	Kit, branch enclosure, 42 positions	
2A4036-3	Door, surface for 59" box with louver		2A4121-1	Kit, branch enclosure 200A CCP, 6 positions	
2A4036-4	Door, flush for 59" box with louver		2A4121-2	Kit, branch enclosure 200A CCP, 6 positions (with load side disconnect)	
2A4036-5	Door-in-door, surface for 59" box		2A3977-1	Kit, branch enclosure 100A CCP, 12 positions	
2A4036-6	Door-in-door, flush for 59" box		2A3977-2	Kit, branch enclosure 100A CCP, 24 positions	
2A4036-7	Door-in-door, surface for 59" box with louver		2A3977-3	Kit, branch enclosure 100A CCP, 36 positions	
2A4036-8	Door-in-door, flush for 59" box with louver		2A3977-4	Kit, branch enclosure 100A CCP, 12 positions (with load side disconnect)	
2A4036-9	Door, surface for 69" box		2A3977-5	Kit, branch enclosure 100A CCP, 24 positions (with load side disconnect)	
2A4036-10	Door, flush for 69" box		2A3977-6	Kit, branch enclosure 100A CCP, 36 positions (with load side disconnect)	
2A4036-11	Door-in-door, surface for 69" box	For 600 A Mains Disconnect variant (with louver)	2A3973-1	Kit, branch enclosure 200A CCP, 12 positions	
2A4036-12	Door-in-door, flush for 69" box		2A4026-4	Kit, branch enclosure 100A CCP, 6 positions	
2A4036-13	Door, surface for 79" box		2A4026-5	Kit, branch enclosure 100A CCP, 18 positions	
2A4036-14	Door, flush for 79" box		2A4026-6	Kit, branch enclosure 100A CCP, 30 positions	
2A4036-15	Door-in-door, surface for 79" box				
2A4036-16	Door-in-door, flush for 79" box				
2A4036-17	Door, surface for 50" box				
2A4036-18	Door, flush for 50" box				
2A4036-19	Door, surface for 50" box with louver		For 600 A MLO (main lug only) for load options-FTL variant		
2A4036-20	Door, flush for 50" box with louver				
2A4036-21	Door-in-door, surface for 50" box				
2A4036-22	Door-in-door, flush for 50" box				
2A4036-23	Door-in-door, surface for 50" box with louver				
2A4036-24	Door-in-door, flush for 50" box with louver				
2A4036-25	Door, surface for 89" box				
2A4036-26	Door, flush for 89" box				
2A4036-27	Door-in-door, surface for 89" box				
2A4036-28	Door-in-door, flush for 89" box				
2A3991-1	Door, surface for 59" box	For 600 A Mains Disconnect variant (with louver)			
2A3991-2	Door, surface for 69" box				
2A3991-3	Door, surface for 79" box				
2A3991-4	Door, surface for 89" box				
2A3991-17	Door, surface for 96" box				
2A3991-5	Door, flush for 59" box				
2A3991-6	Door, flush for 69" box				
2A3991-7	Door, flush for 79" box				
2A3991-8	Door, flush for 89" box				
2A3991-18	Door, flush for 96" box				
2A3991-9	Door-in-door, surface for 59" box	For 600 A Mains with 200 A CCP branch (with louver)			
2A3991-10	Door-in-door, surface for 69" box				
2A3991-11	Door-in-door, surface for 79" box				
2A3991-12	Door-in-door, surface for 89" box				
2A3991-19	Door-in-door, surface for 96" box				
2A3991-13	Door-in-door, flush for 59" box				
2A3991-14	Door-in-door, flush for 69" box				
2A3991-15	Door-in-door, flush for 79" box				
2A3991-16	Door-in-door, flush for 89" box				
2A3991-20	Door-in-door, flush for 96" box				
G - Deadfronts - branch enclosure					
2A1906-1	Kit, single KO, 18 positions	Single KO used only for ≤ 60 A branch circuits			
2A1906-2	Kit, single KO, 30 positions				
2A1906-3	Kit, single KO, 42 positions				
2A1960-1	Kit, double KO, 18 positions	Double KO used for any ≤ 100 A branch circuit			
2A1960-2	Kit, double KO, 30 positions				
2A1960-3	Kit, double KO, 42 positions				
2A1960-4	Kit, double KO, 60 positions				
2A1960-2	Kit, double KO, 72 positions				
2A1960-6	Kit, double KO, 84 positions				

CCP Disconnect and CUBEFuse replacement parts



I - CCPB/CCP disconnects

Catalog symbol	Poles	Available switch amp ratings
CCP2B-1-(amp)CF	1	15, 20, 30, 40, 50, 60, 70, 90, 100
CCP2B-2-(amp)CF	2	
CCP2B-3-(amp)CF	3	
CCP2-1-200CF	1	200
CCP2-2-200CF	2	
CCP2-3-200CF	3	

J - Time-Delay and fast-acting CUBEFuse

For CCPB*/CCP cat. no.	Time-Delay		Fast-Acting
	Non-indicating cat. no. TCF(amps) RN	Indicating** cat. no. TCF(amps)	Non-Indicating cat. no. FCF(amps) RN
CCP2B-(poles)-15CF	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN	TCF6, TCF10, TCF15	FCF1RN, FCF3RN, FCF6RN, FCF10RN, FCF15RN
CCP2B-(poles)-20CF	TCF17-1/2RN, TCF20RN	TCF17-1/2, TCF20	FCF20RN
CCP2B-(poles)-30CF	TCF25RN, TCF30RN	TCF25, TCF30	FCF25RN, FCF30RN
CCP2B-(poles)-40CF	TCF35RN, TCF40RN	TCF35, TCF40	FCF35RN, FCF40RN
CCP2B-(poles)-50CF	TCF45RN, TCF50RN	TCF45, TCF50	FCF45RN, FCF50RN
CCP2B-(poles)-60CF	TCF60RN	TCF60	FCF60RN
CCP2B-(poles)-70CF†	TCF70RN	TCF70	FCF70RN
CCP2B-(poles)-90CF†	TCF80RN, TCF90RN	TCF80, TCF90	FCF80RN, FCF90RN
CCP2B-(poles)-100CF†	TCF100RN	TCF100	FCF100RN
CCP2-(poles)-200CF††	TCF110RN	TCF110	N/A
	TCF125RN	TCF125	N/A
	TCF150RN	TCF150	N/A
	TCF175RN	TCF175	N/A
	TCF200RN	TCF200	N/A

* CCP2B disconnect can accept any CUBEFuse with an amp rating less than or equal to its amp rating.

** 1 and 3 amp indicating CUBEFuse not available. Correct fit with CCP2B disconnect requires indicating CUBEFuse with date code R38 or later.

† Available for a bus rating of 225 A or higher.

†† Available for a bus rating of 600 A

K - Lock on device for CCP2B Disconnect Switches up to 60 amps

Catalog no.	Description	Compatible CCP2B
CCP2B-60-LOD	Lock on device for select CCP2B bases	CCP2B-X-15CF*
		CCP2B-X-20CF*
		CCP2B-X-30CF*
		CCP2B-X-40CF*
		CCP2B-X-50CF*
		CCP2B-X-60CF*

*(X = 1,2,3 poles)

Fuse and disconnect performance data:

For details and specifications, see these data sheets online at

Eaton.com/bussmannseries.

Product	Data sheet no.
Low-Peak™ time-delay CUBEFuse	9000
Fast-acting CUBEFuse	2147
Low-Peak LPJ_SPI Class J fuses	1006 and 1007
CCP2 main disconnect (up to 400 A)	10801
CCP2B branch disconnect	1161

Additional references:

- Application note no. 3148

CUBEFuse specifications

Cat. symbols	Amp range	Description
TCF_	6-200	Time-delay, indicating version
TCF_RN	1-200	Time-delay, non-indicating version
FCF_RN	1-100	Fast-acting, non-indicating version

Description

The CUBEfuse is a finger-safe, dual-element, time-delay or fast-acting UL Class CF power fuse with Class J electrical performance characteristics.

Ratings

- Volts
 - 600 Vac/300Vdc (TCF_ and TCF_RN)
 - 600 Vac/dc (FCF_RN)
- Amps
 - 1-400 time-delay (non-indicating version)
 - 6-400 time-delay (indicating version)
 - 1-100 fast-acting (non-indicating version)
- IR
 - 300 kA RMS. Sym (up to 60 A) (fast-acting)
 - 300 kA RMS Sym. (up to and including 100 A) (time-delay)
 - 200 kA RMS. Sym (70 to 100 A) (fast-acting)
 - 200 kA RMS. Sym (110 to 400 A) (time-delay)
 - 100 kA DC (up to 400 A), (time-delay)
 - 50 kA DC (UL and CSA), (fast-acting)

Agency information

- UL Listed, Guide JDDZ, File E4273 (time-delay and fast-acting)
- cULus listed to CSA C22.2 No. 248.17
- CE 100 A and below
- RoHS compliant

Watts loss at rated current

Catalog no.	Watts loss
Time-dealy	
TCF30	3.99W
TCF60	6.23W
TCF100	9.51W
TCF200	18.6W
TCF400	35.2W
Fast-acting	
FCF30RN	5.45W
FCF60RN	7.27W
FCF100	N/A

Factory Installed Surge Protection Devices (SPDs)



Remote Form C
contact signaling

Factory installed BSPMA_ three module SPD

Description

Factory installed SPDs are Bussmann series UL Listed open Type 1 with remote contact signaling. Modules are easily replaced without tools with a mechanical keying between the base and module that ensures against installing an incorrect replacement.

Code requirement for Surge Protective Devices

NEC 700.8 requires a listed SPD to be installed in or on all emergency system switchboards and panelboards. All configurations of the QSCP intended for installation on an AC circuit can be ordered with an optional SPD to comply with this requirement.

The factory installed SPDs features a Form C contact relay rated to 250Vac/0.5A and 250Vdc/0.1A, 125Vdc/0.2A, 75Vdc/0.5A for easy integration into a monitoring system.

Although an external Type 1 SPD may be retrofitted to meet NEC 700.8 or other surge suppression needs, it's recommended to factory order the SPD to ensure the correct SPD type for the system voltage, as well as proper installation.

If an SPD is required after installation (surface mount QSCPs only), Eaton recommends installing the Type 1 or Type 2 BSPA (from 50 to 200 kA I_{max} surge current capacity) or the Type 1 or Type 2 BSPD (from 120 kA to 400 kA I_{max} surge current capacity).

Features

- Module locking system with module release button make module replacement easy without tools
- 200 kA Short-Circuit Current Rating (SCCR) make higher assembly SCCR ratings possible
- Remote signaling of all protection modules makes status monitoring easy and accurate in any monitoring scheme
- Remote contact signaling provides a floating changeover contact for use as a break or make contact, according to circuit concept.

System voltage/type	Catalog Number	Data sheet no.
120/240 Vac split-phase	BSPMA2240S3GR	10772
347/600 Vac 3-phase Wye	BSPMA3600WYGR	
240 Vac 3-phase Delta	BSPMA3240DLGR	10773
480 Vac 3-phase Delta	BSPMA3480DLGR	
120/208 Vac 3-phase Wye	BSPMA4208WYNGR	10774
277/480 Vac 3-phase Wye	BSPMA4480WYNGR	

See data sheets for specifications.



Advanced integrated factory installed surge protection

Eaton surge protective devices (SPDs) are used to protect equipment from damage caused by surge events. They protect critical electrical and electronic equipment from damage by power surges. This is done by shunting high energy lightning surges (and other transient disturbances) away from the equipment being protected. It does this in nanoseconds by providing a low impedance surge path to ground while supporting power frequency voltage.

Eaton SPD series surge protective devices are the latest and most advanced UL 1449 5th Edition certified surge protectors. SPD series units are available in all common voltages and configurations and also in a variety of surge current capacity ratings from 50 to 400 kA.

All Eaton SPD units (Basic, Standard, and Standard With Surge Counter) use a display panel to indicate system status. The display panel is slightly different for each feature package. Each display has both green and red light emitting diodes (LEDs) to indicate the status of the protection on each phase. Green indicates the phase is fully protected. Red indicates a loss of protection. Wye, Split Phase and High-Leg Delta units have an additional set of green/red LEDs to indicate status of Neutral/Ground protection. When the LEDs turn red, an audible alarm sounds.

kA Rating	Voltage code
Options	Options
50 kA per phase	Integrated units
80 kA per phase	240S = 120/240 Split phase
100 kA per phase	208Y = 120/208 Wye (4W + G)
120 kA per phase	220Y = 127/220 Wye (4W + G)
160 kA per phase	400Y = 230/400 Wye (4W + G)
200 kA per phase	480Y = 277/480 Wye (4W + G)
250 kA per phase	600Y = 347/600 Wye (4W + G)
300 kA per phase	240D = 240 Delta (3W + G)
400 kA per phase	480D = 480 Delta (3W + G)
	600D = 600 Delta (3W + G)
	240H = 240 Delta high leg (4W + G) on "B" phase
	230L = 230 Single phase

Note: Consult the factory for 240 delta high leg (4W + G) applications with high leg on "C" phase

Please see [data sheet TD01005006E](#) for advanced surge protection.

Advanced integrated Surge Protection Devices feature package options

1 = Basic

- Dual colored LED per phase to indicate protection status
- Dual colored LED to indicate protection status of the N-G mode on units with a neutral wire

2 = Standard

- Dual colored LED per phase to indicate protection status
- Dual colored LED to indicate protection status of the N-G mode on units with a neutral wire
- Audible alarm with silence button
- Form "C" relay contact
- EMI/RFI filtering, providing up to 50 dB of noise attenuation from 10 KHz to 100 Mhz

3 = Standard with surge counter

- Dual colored LED per phase to indicate protection status
- Dual colored LED to indicate protection status of the N-G mode on units with a neutral wire
- Audible alarm with silence button
- Form "C" relay contact
- EMI/RFI filtering, providing up to 50 dB of noise attenuation from 10 KHz to 100 Mhz
- Surge counter with reset button

Optional field-installable SPDs



BSPA_

BSPA is a Type 1 or Type 2 UL Listed SPD with from 50 kA to 200 kA surge current capacity. Field installed device, does not ship with QSCP. Must be ordered separately.



BSPD_

BSPD includes UL Listed Type 1 or Type 2 SPDs (depending on the configuration ordered) with surge current capacities from 120 kA to 400 kA and are configurable for Wye (120/208, 277/480, 600) and Delta (240, 480, 600) systems. Field installed device, does not ship with QSCP. Must be ordered separately.

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Publication No. 1160
September 2024

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