Quik-Spec™ Coordination Panelboard (QSCP) fusible 30-400 A panelboards

Contents

Powering Business Worldwide

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 especially 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 700.28, 701.27, 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 A

SCCR: See Panelboard Short-Circuit Current Ratings table

Agency information

- UL® 67 – standard for panelboards
- UL 50/UL 50E – enclosures for electrical equipment
- cULus to CSA® Standard 22.2, No. 29-M1989 – panelboards and enclosed panelboards
- UL Listed, Class CTL panelboard
- 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 and 100 amp rating rejection branch disconnects (see table on page 3 for details). Amp rating on 125 Vdc panels ≤ 80A. Contact factory for details.

Branch circuit positions

- 18, 30 and 42

Neutral options

- Unbonded and bonded 200, 400 and 800 A

Ground options

- Isolated and non-isolated

Enclosures

- NEMA® 1 and NEMA 3R

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)

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

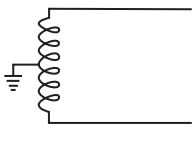
CCP2B horsepower ratings

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	1.5	3	5	15	10
CCP2B-(poles)-40CF	40	2	3	7.5	20	10
CCP2B-(poles)-50CF	50	3	5	7.5	20	10
CCP2B-(poles)-60CF	60	3	7.5	7.5	20	10
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

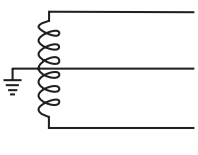
* Split-phase
**Three-phase
† Available for a bus rating of 225 A or higher.

AC and DC voltages and system types

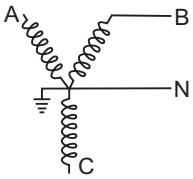
AC Voltages



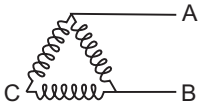
1-phase, 2 wire
- 120V, 240V



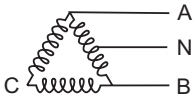
1-phase, 3 wire
- 120/240V



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

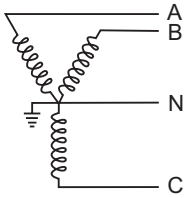


1-phase, 2 wire, Delta
- 480V

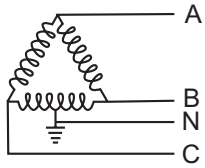


1-phase, 3 wire, Delta
- 240/480V

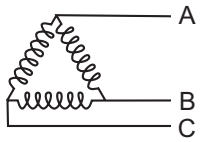
3-phase, 4 wire, Wye



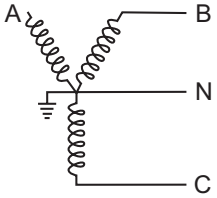
- 208Y/120V, 480Y/277V, 600Y/347V



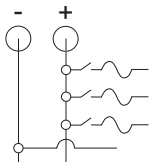
3-phase, 4 wire, Delta
- 240/120V, 480/240V



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

Panelboard Short-Circuit Current Ratings (SCCRs)

	AC main options				DC
SCCR	Main Lug Only (MLO)*	70-200 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. (≤ 100 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

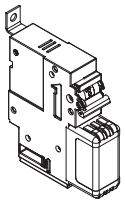
* For panelboards with subfeed main lugs, or panelboards with optional feed-through lugs, Class J, T, or R fuses are required upstream - max amps = panel amps.
** CUBEFuse™ disconnect.

Configuration table

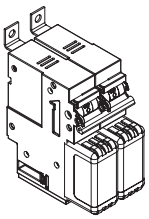
Enclosure height	Panel amps	Branch positions	Available configurations	
33″	30-200	18	- main lug only, with or without feed-through lugs	with or without advanced SPD
			- non-fused disconnect, no loadside options	with or without advanced SPD
50″	30-200	30	- main lug only, no loadside options	with or without advanced SPD
	30-60	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
		42	- 30 through 60A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
	70-200	18	- 70 through 200A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
		30	- 70 through 200A fused main disconnect, with or without feed-through lugs	with or without advanced SPD
	30-200	18	- main lug only	with or without DIN-rail mounted SPD/advanced SPD
			- non-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/Feed-Through-Lugs/advanced SPD
			- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
		42	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
			- non-fused disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
	225-400	18	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
			- non-fused disconnect	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/Feed-Through-Lugs/advanced SPD
		30	- 70 through 200A fused main disconnect	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	- non-fused disconnect	with or without DIN-rail mounted SPD/advanced SPD
	225-400	18	- main lug only with loadside disconnect	with or without advanced SPD
			- non-fused disconnect	with or without DIN-rail mounted SPD/advanced SPD
			- 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
			- 225 through 400A fused disconnect, with no load-side options	with or without advanced SPD
		42	- main lug only	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD
			- non-fused disconnect, with no loadside options	with or without advanced SPD
69″	225-400	18	- non-fused disconnect, with loadside disconnect	with or without advanced SPD
		30	- main lug only, with loadside disconnect	with or without advanced SPD
			- 225 through 400A fused disconnect	with or without 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 through 400A fused main disconnect	with or without DIN-rail mounted SPD/Feed-Through-Lugs/advanced SPD

Other enclosures available. Consult factory for details.

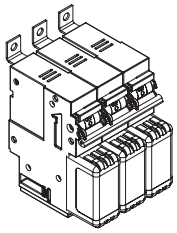
Branch disconnects



CCP2B-1-_CF



CCP2B-2-_CF



CCP2B-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		
10-18	Solid	Single/dual	2.26 (20)
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.

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			6.21 (55)
3-12	Stranded, Class B to K	Dual	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		Twin†	2.26 (20)
6-8			2.82 (25)
10-18	Solid	Single	2.26 (20)
10-18		Dual	2.26 (20)
8-18	Class K	Single	2.26 (20)
1-6			3.39 (30)
3-10		Dual	5.08 (45)
8-18	Class K, UL ferrule	Single	2.26 (20)
1-6			3.39 (30)
6-18		Twin	2.26 (20)

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

Available Bussmann series CUBEFuse

CCP2B* cat. no.	Poles	Fuse amp range	Max CCP2B 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 to100	100	TCF100RN	TCF100	FCF100RN
CCP2B-2-100CF	2†					
CCP2B-3-100CF	3†					

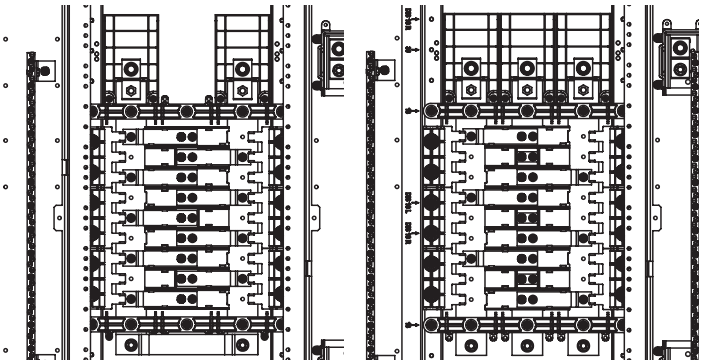
* CCP2B disconnect can accept CUBEFuses with amp ratings less than or equal to the amp rating of the CCP2B disconnect.
** Correct fit with CCP2B disconnect requires indicating CUBEFuses with date code R38 or later.
† Available for a bus rating of 225 A or higher.

Busing

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

Distributed 1- and 3-phase busing

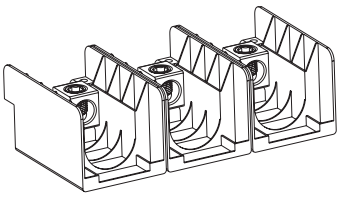
All CCP2B branch disconnects can be mounted in any branch circuit position.



Single-phase Three-phase

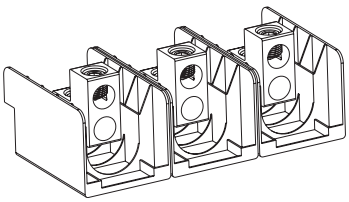
≤ 200 A main lugs for 60/75° Cu-Al conductors

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)

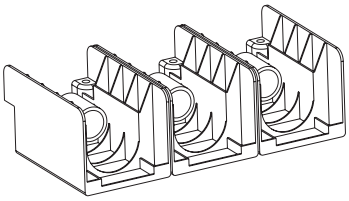
Main sub-feed mechanical lugs



- ≤ 200 A panels, 300 kcmil - 6 AWG / 31 N•m (275 lb-in)

Smaller lugs for ≤ 60 amp panels not available.

Main compression (crimp) lugs*

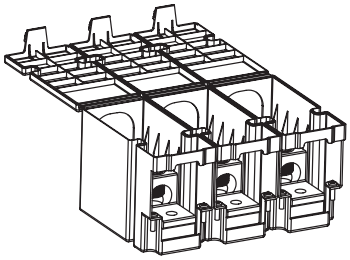


- ≤ 60 A panels, 8 AWG-1/0
- > 60 A panels, 300 kcmil-4 AWG

* Versa-Crimp® VC-6 crimp tool recommended for wire crimping.
** Not available with Surge Protective Device (SPD) option.

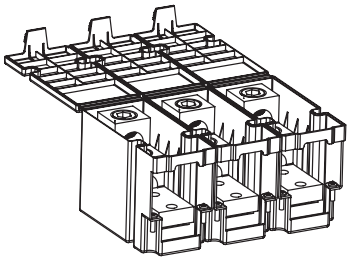
225-400 A main lugs for 60/75° Cu-Al conductors

Main mechanical lugs



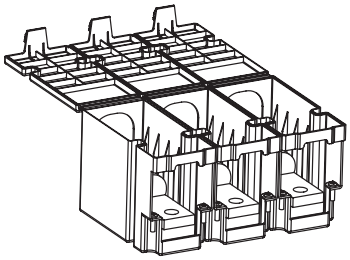
Main barrier cover open wire, 600 kcmil-4 AWG / 56 N•m (500 lb-in)

Main sub-feed mechanical lugs



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

Main compression (crimp) lugs*



Main barrier cover open wire, 600-250 kcmil

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.

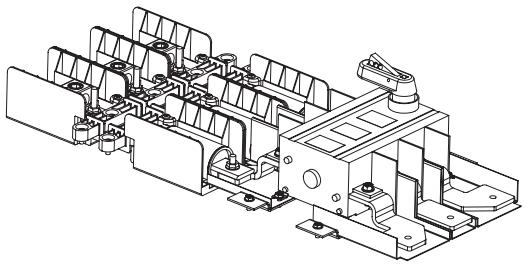
225-400 A loadside fused disconnect available on

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

Switch amps: 200

Mechanical lugs

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



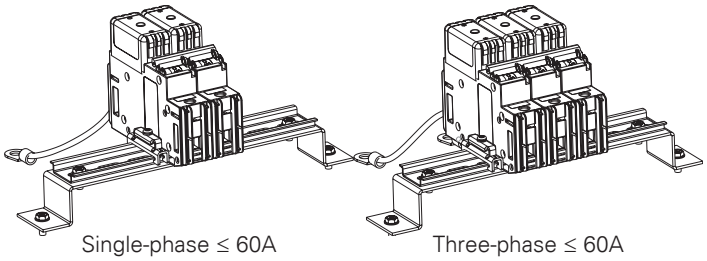
Fuse mounting torque: 4.5 N•m (40 lb-in)

30-100 A main disconnects for 75°C Cu conductors

30-100A fused main disconnects (CCP2), 1- and 3-phase

Not available with DC ratings

- 10-18 AWG single and dual / 2.2 N•m (20 lb-in)
- 6-8 AWG single and dual / 3.9 N•m 35 lb-in)
- 4 AWG single / 3.9 N•m (35 lb-in)



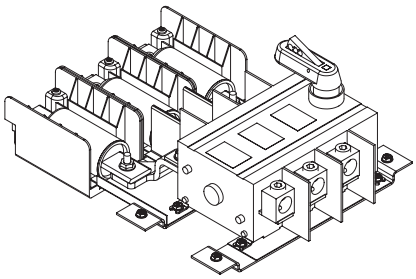
Single-phase ≤ 60A Three-phase ≤ 60A

70-200 A main disconnects for 75°C Cu conductors:

Fused main disconnect, 1- and 3-phase

Not available with DC ratings

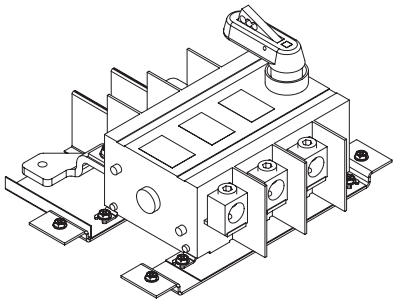
- 300 kcmil-4 AWG / 23 N•m 200 lb-in)
- Fuse mounting torque 4.5 N•m (40 lb-in)



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

Not available with DC ratings

300 kcmil-4 AWG / 23 N•m (200 lb-in)

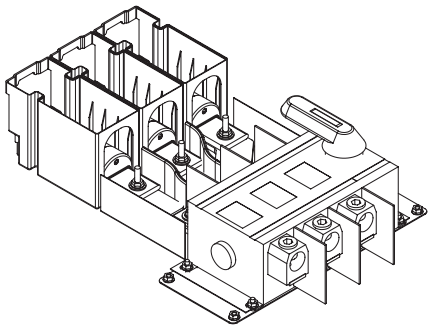


225-400 A main disconnects for 75°C Cu conductors

Fused main disconnect, 1- and 3-phase

Not available with DC ratings

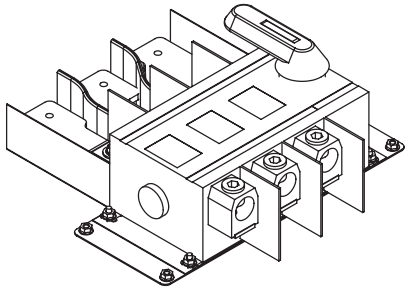
- 600 kcmil-2 AWG / 42 N•m (375 lb-in)
- Fuse mounting torque: 4.5 N•m (40 lb-in)



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

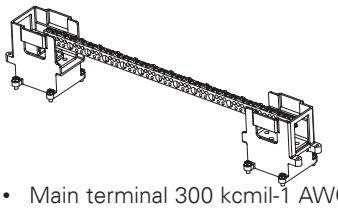
Not available with DC ratings

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



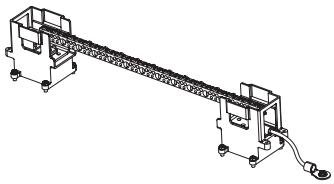
Neutral assemblies for 60/75°C Cu-Al conductors

200 A Unbonded



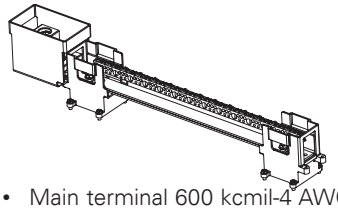
- Main terminal 300 kcmil-1 AWG / 42 N•m (375 lb-in)
- Branch connections - see table
- Bar material: aluminum

200 A Bonded



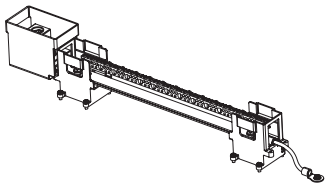
- Main terminal 300 kcmil-1 AWG / 42 N•m (375 lb-in)
- Branch connections - see table
- Bar material: aluminum

400 A Unbonded



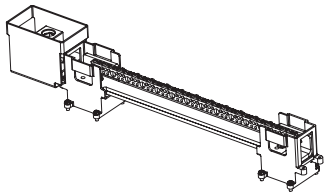
- Main terminal 600 kcmil-4 AWG / 56 N•m (500 lb-in)
- Branch connections - see table
- Bar and lug material: aluminum

400 A Bonded



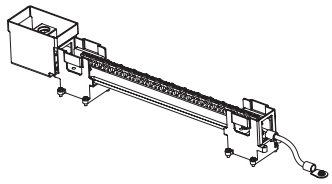
- Main terminal 600 kcmil-4 AWG / 56 N•m (500 lb-in)
- Branch connections - see table
- Bar and lug material: aluminum

800 A Unbonded



- Main terminal (2) 600 kcmil-4 AWG / 42 N•m (375 lb-in)
- Branch connections - see table
- Bar and lug material: aluminum

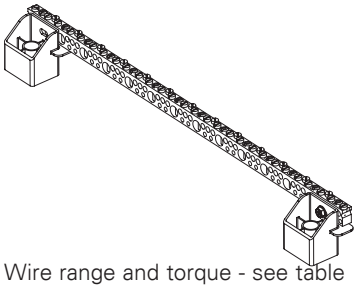
800 A Bonded



- Main terminal (2)600 kcmil-4 AWG / 42 N•m (375 lb-in)
- Branch connections - see table
- Bar and lug material: aluminum

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

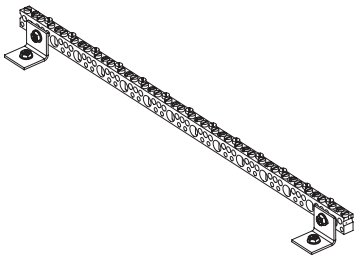
Isolated



Wire range and torque - see table

Bar material: aluminum

Non-isolated



Wire range and torque - see table

Bar material: aluminum

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)

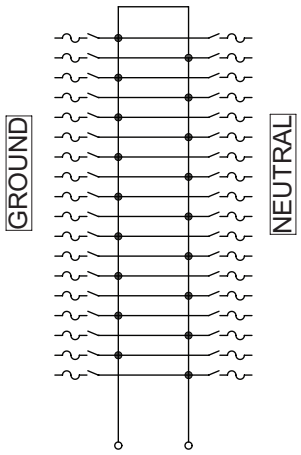
Ground and neutral bar wire connections

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

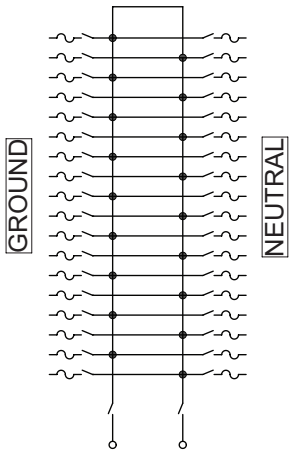
* 60/75°C, Cu-Al.

Typical schematics

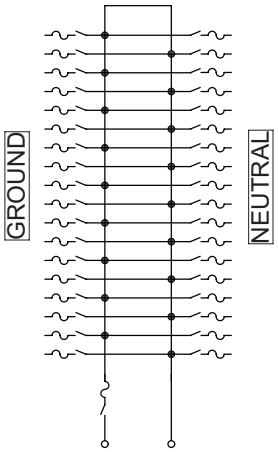
See main fused disconnect switch rating, if used.



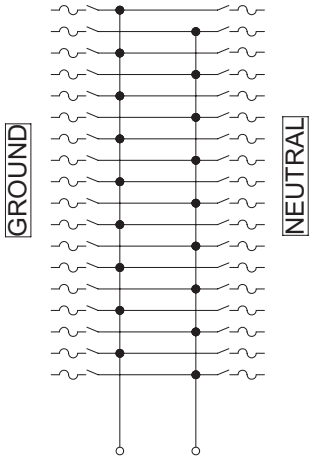
Single-Phase, 2 Wire
Main Lug Only



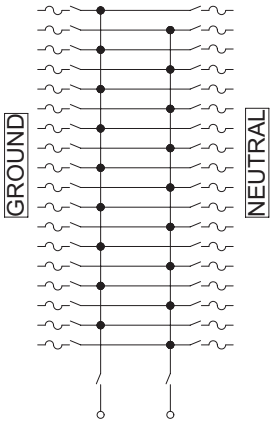
Single-Phase, 2 Wire
Non-Fused Disconnect



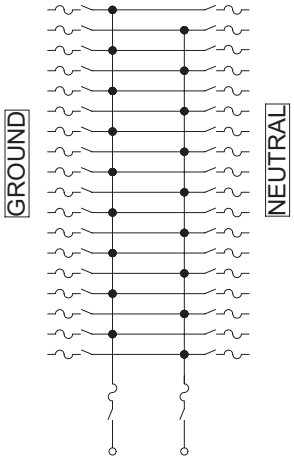
Single-Phase, 2 Wire
Fused Disconnect



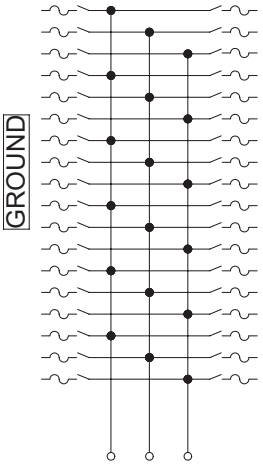
Single-Phase, 3 Wire
Main Lug Only



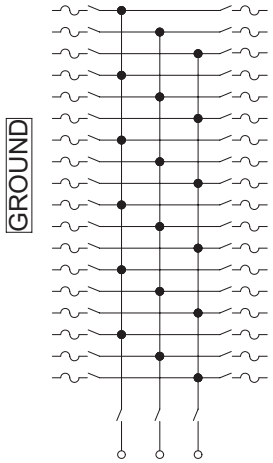
Single-Phase, 3 Wire
Non-Fused Main Disconnect



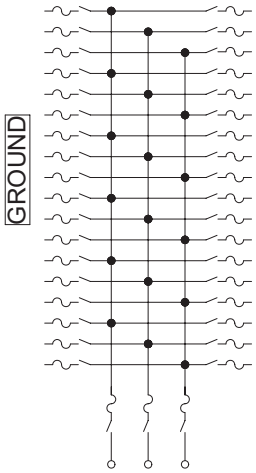
Single-Phase, 3 Wire
Fused Main Disconnect



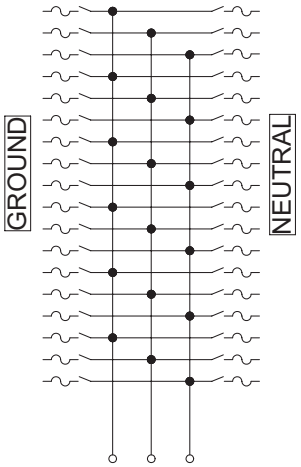
Three-Phase, 3 Wire
Main Lug Only



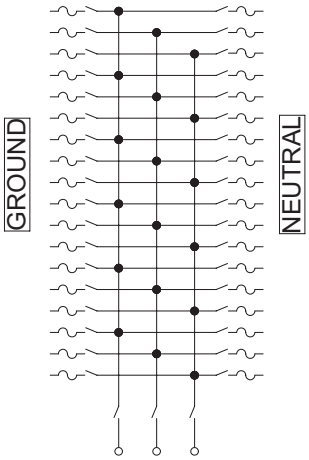
Three-Phase, 3 Wire
Non-Fused Main Disconnect



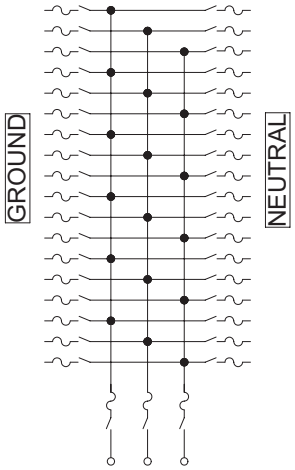
Three-Phase, 3 Wire
Fused Main Disconnect



Three-Phase, 4 Wire
Main Lug Only



Three-Phase, 4 Wire
Non-Fused Main Disconnect



Three-Phase, 4 Wire
Fused Main Disconnect

Enclosures

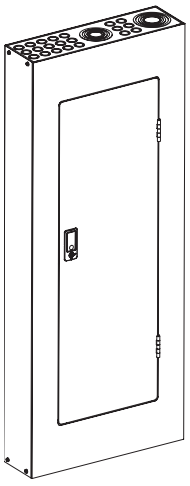
NEMA 1 enclosures and interior

- Flush or surface mount
- Galvanized steel with removable end walls - blank or with knockouts to order
- Box sizes: 20" W x 5.75" D x 33", 50", 59"or 69" H (510 W x 145 D x 838, 1270, 1500 or 1753mm 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)
- 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

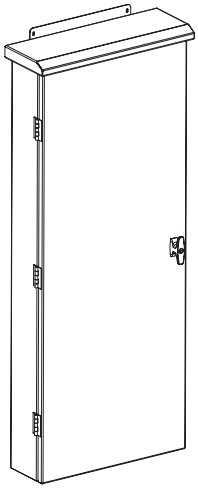
NEMA 3R enclosures

Interior same as NEMA 1

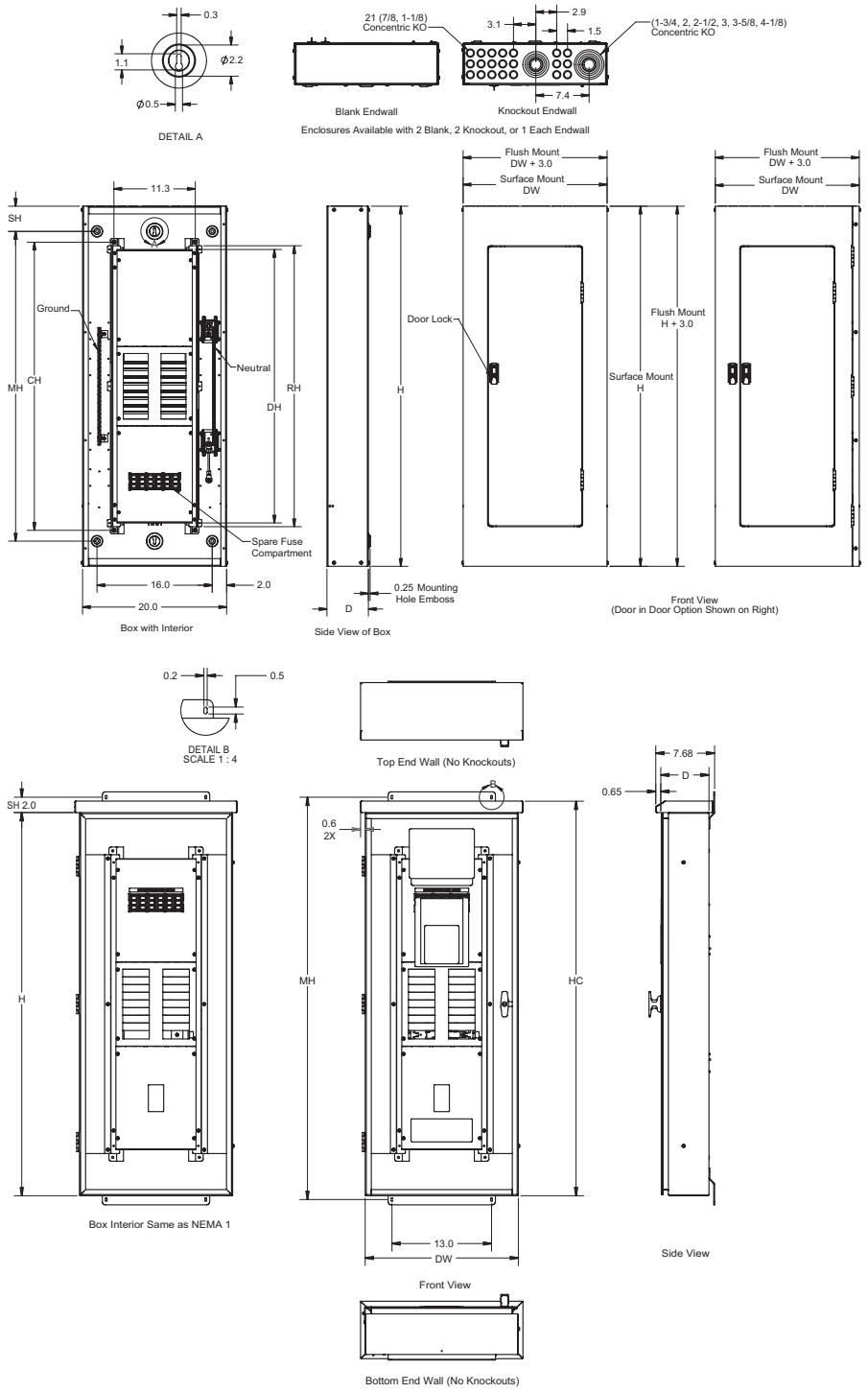
- Surface mount only
- Finished with gray powder coat paint over phosphatized steel (ANSI 61)
- Bottom feed only, no knockouts
- Box sizes: 20" W x 7.7" D x 34.5", 51.5", 60.5" or 70.5 H (510 W x 195 D x 876, 1310, 1535 or 1791mm H)
- Enclosure and chassis mounting instructions are found in supplied 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



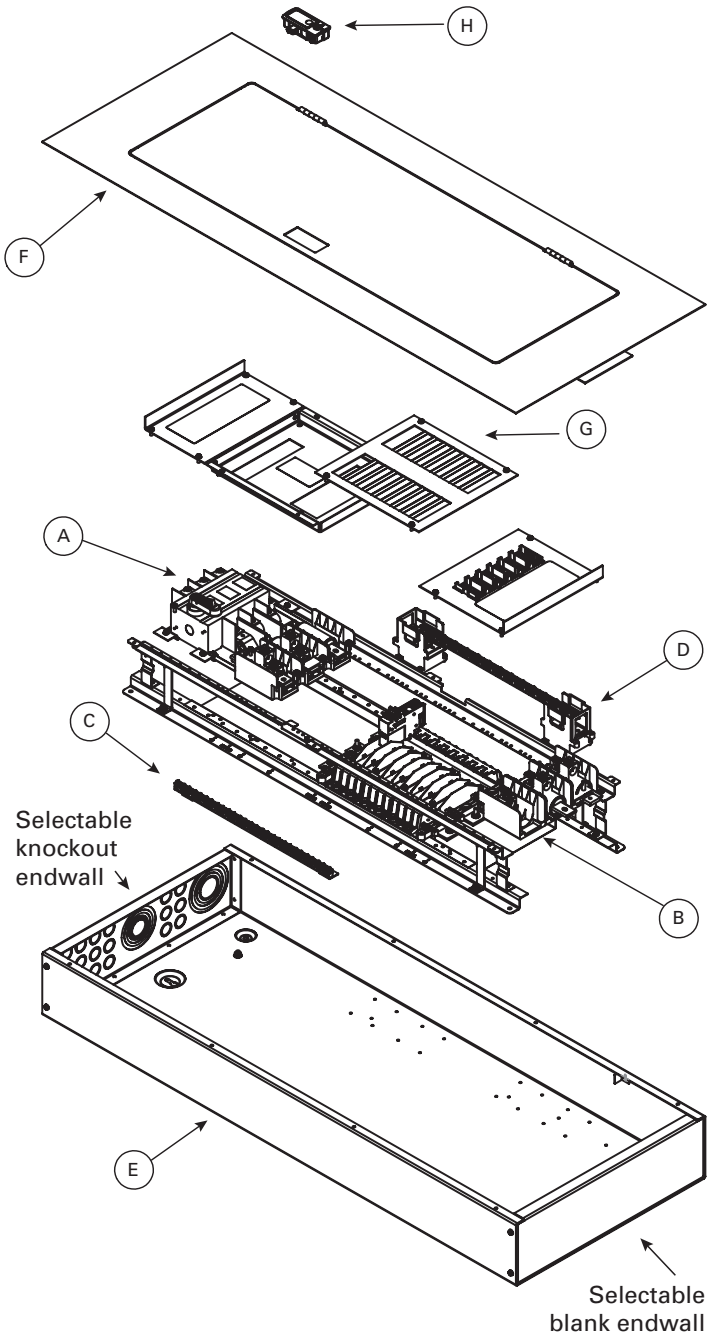
Enclosure dimensions — in

Enclosure type	Height	H	HC	MH	CH	DH	RH	SH	DW	D
NEMA 1	33	33	N/A	29.0	26	28.9	25	2.0	20	5.7
	50	50	N/A	43.0	40	37.9	39	3.5	20	5.7
	59	59	N/A	52.0	49	46.9	48	3.5	20	5.7
	69	69	N/A	62.0	59	56.9	58	3.5	20	5.7
NEMA 3R	33	33	34.5	35.5	26	28.9	25	2.0	20	6.3
	50	50	51.5	52.5	40	37.9	39	2.0	20	6.3
	59	59	60.5	61.5	49	46.9	48	2.0	20	6.3
	69	69	70.5	71.5	59	56.9	58	2.0	20	6.3

Other enclosures available. Consult factory for details.

Panelboard replacement parts

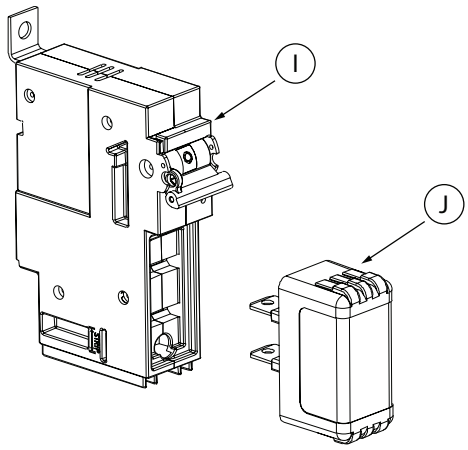
See list for part numbers.



A and B - main devices and lugs	
2A1909-1*	Kit, compression lug 3-phase, 70-200 A
2A1909-2*	Kit, mechanical lug 3-phase, 70-200 A
2A1909-3*	Kit, double/sub-feed lug 3-phase, 30-200 A
2A1909-4	Kit, main disconnect 200 A
2A1909-5*	Kit, compression lug 1-phase, 3 wire, 70-200 A
2A1909-6*	Kit, mechanical lug 1-phase, 3 wire, 70-200 A
2A1909-7*	Kit, double/sub-feed lug 1-phase, 3 wire, 30-200 A
2A1909-8	Kit, main disconnect 30-60 A 1-phase, 3 wire
2A1909-9	Kit, main disconnect 30-60 A 3-phase
2A1909-10*	Kit, compression lug 3-phase, 30-60 A
2A1909-11*	Kit, mechanical lug 3-phase, 30-60 A
2A1909-12*	Kit, compression lug 1-phase, 3 wire, 30-60 A
2A1909-13*	Kit, mechanical lug 1-phase, 3 wire, 30-60 A
2A1909-14*	Kit, compression lug 1-phase, 2 wire, 70-200 A
2A1909-15*	Kit, mechanical lug 1-phase, 2 wire, 70-200 A
2A1909-16*	Kit, double/sub-feed lug 1-phase, 2 wire, 30-200 A
2A1909-17*	Kit, compression lug 1-phase, 2 wire, 30-60 A
2A1909-18*	Kit, mechanical lug 1-phase, 2 wire, 30-60 A
2A1909-19	Kit, main disconnect 30-60 A 1-phase, 2 wire,
2A1909-20*	Kit, compression lug 3-phase, 225-400 A
2A1909-21*	Kit, mechanical lug 3-phase, 225-400 A
2A1909-22*	Kit, double/sub-feed lug 3-phase, 225-400 A
2A1909-23*	Kit, compression lug 1-phase, 3 wire, 225-400 A
2A1909-24*	Kit, mechanical lug 1-phase, 3 wire, 225-400 A
2A1909-25*	Kit, double/sub-feed lug 1-phase, 3 wire, 225-400 A
2A1909-26*	Kit, compression lug 1-phase, 2 wire, 225-400 A
2A1909-27*	Kit, mechanical lug 1-phase, 2 wire, 225-400 A
2A1909-28*	Kit, double/sub-feed lug 1-phase, 2 wire, 225-400 A
2A1909-29	Kit, main disconnect 225-400 A
2A1909-30	Kit, main disconnect 3-phase, 100 A
2A1909-31	Kit, main disconnect 1-phase, 3 wire, 100 A
2A1909-32	Kit, main disconnect 1-phase, 2 wire, 100 A
* Also for use as feed-through lugs based upon panelboard 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
2A1690-2XX†	NEMA 1 box, 59" tall
2A1690-3XX†	NEMA 1 box, 69" tall
2A1690-4XX†	NEMA 1 box, 33" 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
2A1916-1	Kit, blank enclosure endwall (set of 2)
2A1916-2	Kit, knockout enclosure endwall (set of 2)
† XX in the part number denotes endwall choices B = Blank and K = Knockout	

F - Enclosure doors	
200 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
400 amp models	
2A1667-9	Door, surface for 69" box
2A1667-10	Door, flush for 69" box
2A1667-11	Door-in-door, surface for 69" box
2A1667-12	Door-in-door, flush for 69" box
2A1667-17	Door, surface for 50" box
2A1667-18	Door, flush for 50" box
2A1667-19	Door-in-door, surface for 50" box
2A1667-20	Door-in-door, flush for 50" box
2A1667-21	Door, surface for 59" box
2A1667-22	Door, flush for 59" box
2A1667-23	Door-in-door, surface for 59" box
2A1667-24	Door-in-door, flush for 59" box
G - Deadfronts - branch enclosure	
2A1906-1	Kit, single KO, 18 positions
2A1906-2	Kit, single KO, 30 positions
2A1906-3	Kit, single KO, 42 positions
2A1960-1	Kit, double KO, 18 positions
2A1960-2	Kit, double KO, 30 positions
2A1960-3	Kit, double KO, 42 positions
H - Keys and locks	
2A1910-1	Kit, NEMA 3R replacement keys (2)
2A1910-2	Kit, NEMA 1 door lock and 2 keys
2A1910-3	Kit, NEMA 3R door lock and 2 keys
2A1910-4	Kit, NEMA 1 replacement keys (2)
Lockout/tagout devices	
2A1912-1	Kit, lockout 70-400 A main
2A1912-2	Kit, lockout 30-60 A main
2A1912-3	Kit, branch (3M Panelsafe) 18 position
2A1912-4	Kit, branch (3M Panelsafe) 30 position
2A1912-5	Kit, branch (3M Panelsafe) 42 position
Miscellaneous	
2A1914	Kit, circuit directory card and sleeve
2A1918-1	≤ 60 A Kit, branch knockout covers
2A1915	Kit, circuit number and fuse rating labels
2A1918-2	70-100 A Kit, branch knockout covers
2A1917-1	Kit, panelboard hardware
2A1919	Kit, touch-up paint
2A1917-2	Kit, CCP2B hardware (10 screws)
2A1961-1	Kit, Spare Fuse Compart. TCF 1-100A

CCP2B disconnects and CUBEFuse replacement parts



I - CCP2B branch 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	

J - time-delay and fast-acting CUBEFuse

	Time-Delay		Fast-Acting
For CCP2B* cat. no.	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

* 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.

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 100 A)	10801
CCP2B branch disconnect	1161

Additional references:

- Application note no. 3148

CUBEFuse specifications

Cat. symbols	Amp range	Description
TCF_	6-100	Time-delay, indicating version
TCF_RN	1-100	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
  - 600Vac/300Vdc (TCF_ and TCF_RN)
  - 600Vac/dc (FCF_RN)
- Amps
  - 1-100 time-delay (non-indicating version)
  - 6-100 time-delay (indicating version)
  - 1-100 fast-acting (non-indicating version)
- IR
  - 300 kA RMS Sym. (UL up to 60 A)
  - 200 kA RMS. Sym (CSA all ratings, UL 70 to 100 A)
  - 100 kA DC (UL and CSA), (time-delay)
  - 50 kA DC (UL and CSA), (fast-acting)

Agency information

- UL Listed, Guide JDDZ, File E4273 (time-delay and fast-acting)
- CSA Certified Class 1422- 02, File 53787
- CE compliance for the European Union low voltage directive
- RoHS compliant

Watts loss at rated current

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

Surge Protection Devices (SPDs)

Local, visual status indication

Remote Form C contact signaling

Factory installed BSPMA_ three module SPD

Description

Factory installed SPDs are Bussmann series UL Listed open Type 1 arresters with local visual indication and 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).

Care should be taken to specify, from the catalog number system, the correct BSPA or BSPD for the electrical system's type and voltage.

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 proovides a floating changeover contact for use as a break or make contact, according to circuit concept.

Surge protection option precludes feed-through lug and loadside disconnect options.

System voltage/type	Catalog Number	Data sheet no.
120/240 Vac split-phase	BSPMA2240S3GR	10772
347/600 Vac 3-phase Wye	BSPMA3600WYGR	10773
240 Vac 3-phase Delta	BSPMA3240DLGR	
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 and integrated 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 4th 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.

Remote display mounting option

The SPD series units offer the option of mounting its display remotely from the device. This is useful for applications where OEMs or other integrators would like to embed the unit within a piece of equipment and still be able to view its display.

Please see instruction manual IM01005019E for complete details.

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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