

Quik-Spec™ Coordination Panelboard 30 - 400A fusible panelboards



Contents

Description	Page
Specifications	2-3
Enclosure types and voltages/systems	4
Busing, main and feed-through lugs, and main disconnects	5-6
Neutral and ground assemblies	7
Surge Protective Device options	8
Typical wiring	9-10
Dimensions	11
Available panelboard configurations	12
Replacement parts	13-15
Fuse and disconnect performance data	15
CUBEFuse™ fuse specifications	15

Catalog symbol:

- QSCP

Description:

A configurable fusible panelboard for commercial/industrial branch or service entrance applications on systems up through 600Vac.

The Quik-Spec™ Coordination Panelboard (QSCP) 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: 600Vac, 125Vdc ≤ 80A

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

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 100A ampacity rejecting branch disconnects (see table on page 3 for details). Ampacity on 125Vdc panels ≤ 80A. Contact factory for details.

Branch circuit positions

- 18, 30 and 42

Neutral options

- Unbonded and bonded 200A, 400A and 800A

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 (36kg)
- 30 circuit: 100 lbs (45kg)
- 42 circuit: 110 lbs (50kg)

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

CCPB horsepower ratings

CCPB disconnect	Amp rating	Hp rating @ Vac			
		120	240*	240**	480 600
CCPB-(Poles)-15CF	15	0.5	1.5	3	5 7.5
CCPB-(Poles)-20CF	20	0.75	2	3	7.5 10
CCPB-(Poles)-30CF	30	1.5	3	5	15 10
CCPB-(Poles)-40CF	40	2	3	7.5	20 10
CCPB-(Poles)-50CF	50	3	5	7.5	20 10
CCPB-(Poles)-60CF	60	3	7.5	7.5	20 10
CCPB-(Poles)-70CF†	70	3	7.5	15	30 40
CCPB-(Poles)-90CF†	90	5	10	20	50 40
CCPB-(Poles)-100CF†	100	5	10	20	50 40

* Split-phase

** Three-phase

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

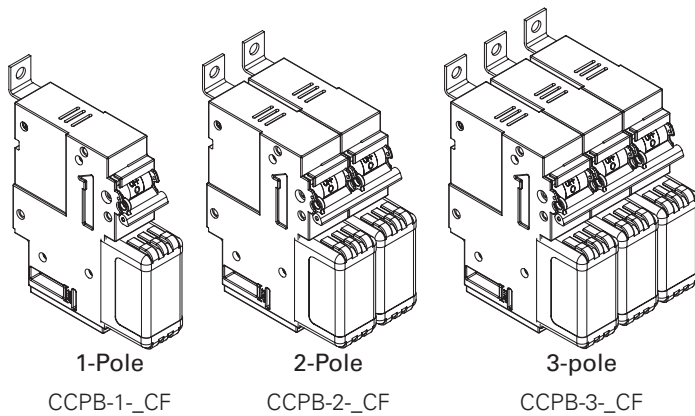
Panelboard Short-Circuit Current Ratings (SCCRs)

SCCR	AC main options				DC
	Main Lug Only (MLO)*	70-200A	225-400A	CCP_CF main disc. (= 60A)**	Main Lug Only (MLO)*
		main disc. no fuses* or w/ Class J fuses	main disc. no fuses* or w/ Class J fuses		
High	200kA	200kA	100kA	200kA	100kA
Std.	50kA	50kA	50kA	50kA	20kA

* 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.

Branch disconnects:



Specifications

Box lug loadside terminal:

- 15 - 60A
 - 18-6AWG single and dual rated (same size wire), solid or stranded – 75°C, Cu only
 - 4AWG single – 75°C, Cu only
- 100A
 - 18-1AWG (1-45mm²) single, solid or stranded – 75°C, Cu only and 6AWG dual 75°C, Cu only

Box lug loadside terminal torque:

- 15 - 60A
 - 18-10AWG 20 Lb-In (2.2 N•m)
 - 8-4AWG 35 Lb-In (3.9 N•m)
- 100A
 - 18-10AWG 25 Lb-In (1-6mm²/2.82N•m)
 - 8-1AWG 40 Lb-In (10-45mm²/4.52 N•m)
 - 6AWG 45 Lb-In (16mm²/5.08 N•m)

CCPB* part number	Poles	Fuse amp range	Max CCPB ampacity	Typical installed fuse amp range		
				Time-delay non-indicating fuses	Time-delay indicating fuses**	Fast-acting non-indicating fuses
CCPB-1-15CF	1	1 to 15	15	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN	TCF6, TCF10, TCF15	FCF1RN, FCF3RN, FCF6RN, FCF10RN, FCF15RN
CCPB-2-15CF	2					
CCPB-3-15CF	3					
CCPB-1-20CF	1	1 to 20	20	TCF17-1/2RN, TCF20RN	TCF17-1/2, TCF20	FCF20
CCPB-2-20CF	2					
CCPB-3-20CF	3					
CCPB-1-30CF	1	1 to 30	30	TCF25RN, TCF30RN	TCF25, TCF30	FCF25RN, FCF30RN
CCPB-2-30CF	2					
CCPB-3-30CF	3					
CCPB-1-40CF	1	1 to 40	40	TCF35RN, TCF40RN	TCF35, TCF40	FCF35RN, FCF40RN
CCPB-2-40CF	2					
CCPB-3-40CF	3					
CCPB-1-50CF	1	1 to 50	50	TCF45RN, TCF50RN	TCF45, TCF50	FCF45RN, FCF50RN
CCPB-2-50CF	2					
CCPB-3-50CF	3					
CCPB-1-60CF	1	1 to 60	60	TCF60RN	TCF60	FCF60RN
CCPB-2-60CF	2					
CCPB-3-60CF	3					
CCPB-1-70CF	1†	1 to 70	70	TCF70RN	TCF70	FCF70RN
CCPB-2-70CF	2†					
CCPB-3-70CF	3†					
CCPB-1-90CF	1†	1 to 90	90	TCF80RN, TCF90RN	TCF80, TCF90	FCF80RN, FCF90RN
CCPB-2-90CF	2†					
CCPB-3-90CF	3†					
CCPB-1-100CF	1†	1 to 100	100	TCF100RN	TCF100	FCF100RN
CCPB-2-100CF	2†					
CCPB-3-100CF	3†					

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

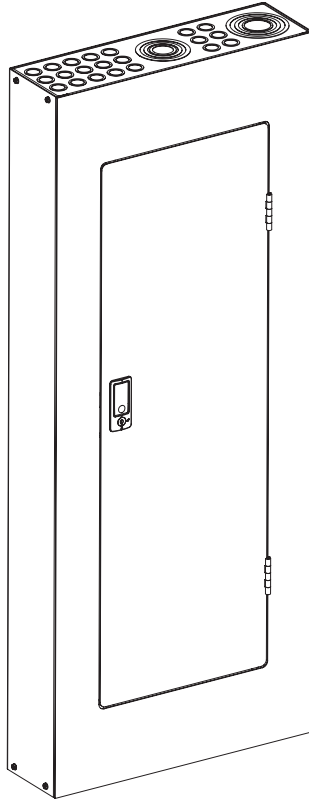
** Correct fit with CCPB disconnect requires indicating CUBEFuses with date code R38 or later.

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

Enclosure types:

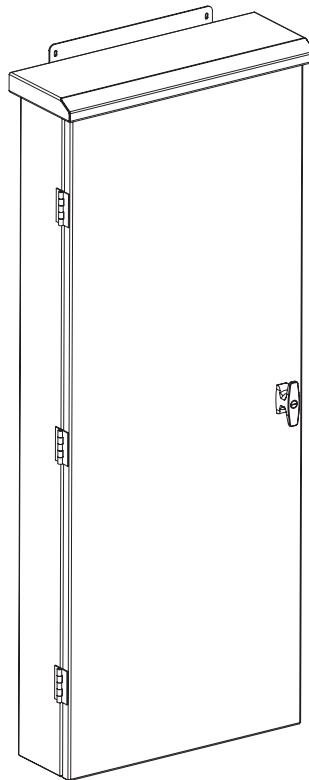
NEMA 1

- 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

- 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

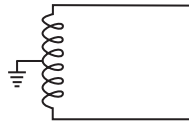


AC and DC voltages and system types:

AC Voltages

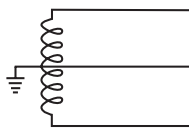
1-phase, 2 wire

- 120V, 240V



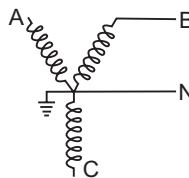
1-phase, 3 wire

- 120/240V



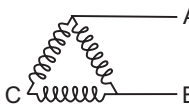
- 1-phase, 2 wire, Wye

- 277V



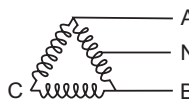
1-phase, 2 wire, Delta

- 480V



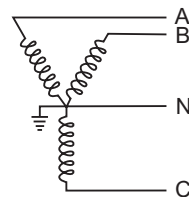
1-phase, 3 wire, Delta

- 240/480V



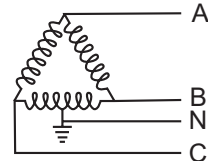
3-phase, 4 wire, Wye

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



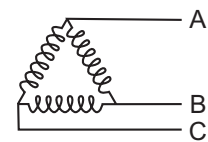
3-phase, 4 wire, Delta

- 240/120V, 480/240V



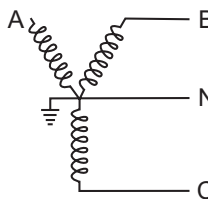
3-phase, 3 wire, Delta

- 240V, 480V, 600V, 240V Grounded B, 480V Grounded B, 600V Grounded B



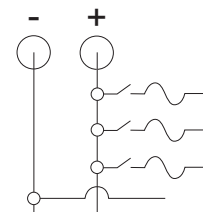
1-phase, 3 wire, Wye

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



DC Applications

Panel bus configured for DC applications, MLO option only, CCPB 125Vdc ≤ 80A

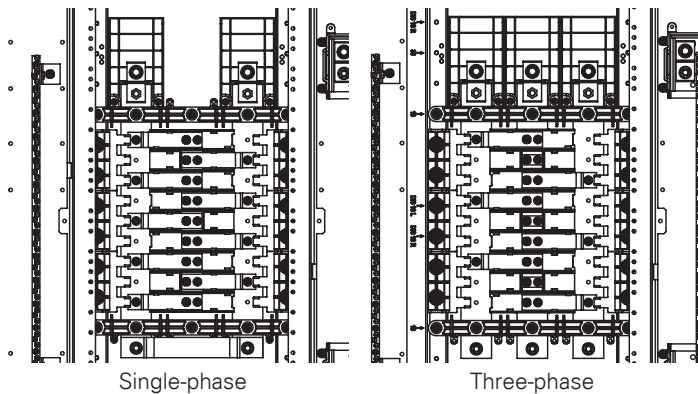


Busing:

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

Distributed 1- and 3-phase busing

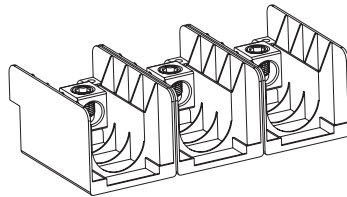
All CCPB branch disconnects can be mounted in any branch circuit position.



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

Main mechanical lugs

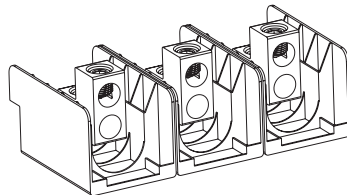
- ≤ 60A panels
 - 2-4AWG, torque 50 Lb-In (5.6 N•m)
 - 6-10AWG, torque 40 Lb-In (4.5 N•m)
 - 12-14AWG, torque 15 Lb-In (1.7 N•m)
- > 60 to 200A panels
 - 300kcmil-1AWG, torque 375 Lb-In (42 N•m)
 - 2-6AWG, torque 275 Lb-In (31 N•m)



Main sub-feed mechanical lugs

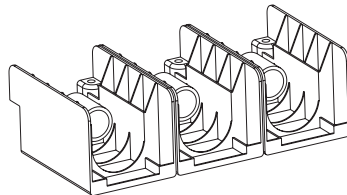
- ≤ 200A panels, 300kcmil - 6AWG, torque 275 Lb-In (31 N•m)

Smaller lugs for ≤ 60 amp panels not available.



Main compression (crimp) lugs*

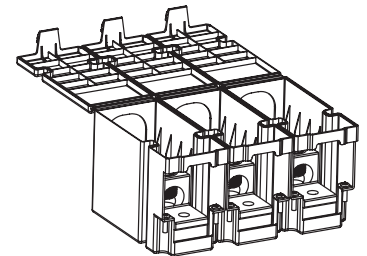
- ≤ 60A panels, 8AWG-1/0
- > 60A panels, 300kcmil-4AWG



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

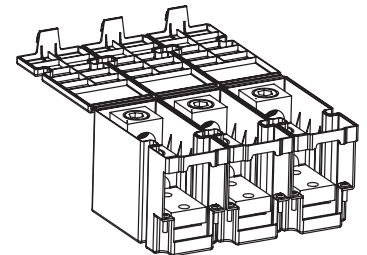
Main mechanical lugs

Main barrier cover open wire, 600kcmil-4AWG, torque 500 Lb-In (56 N•m)



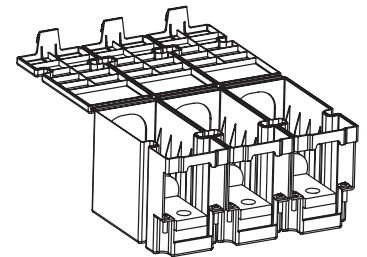
Main sub-feed mechanical lugs

Main barrier cover open wire, 600kcmil-2AWG, torque 375 Lb-In (42 N•m)



Main compression (crimp) lugs*

Main barrier cover open wire, 600-250kcmil



Feed-through lugs

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

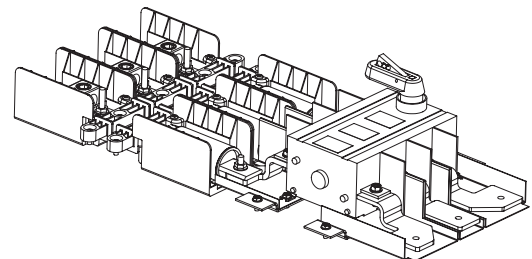
225-400A loadside fused disconnect available on:

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

Switch amps: 200

Mechanical lugs

- 300kcmil-1AWG, torque 375 Lb-In (42 N•m)
- 2-6AWG, torque 275 Lb-In (31 N•m)



Fuse mounting torque: 40 Lb-In (4.5 N•m)

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

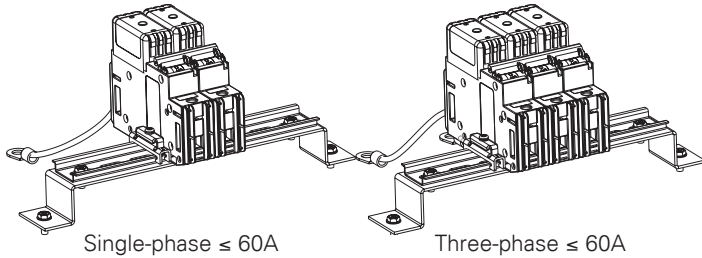
** Not available with Surge Protective Device (SPD) option.

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

30-60A fused main disconnects (CCP), 1- and 3-phase

Not available with DC ratings

- 18-10AWG single and dual, torque 20 Lb-In (2.2 N•m)
- 8-6AWG single and dual, torque 35 Lb-In (3.9 N•m)
- 4AWG single, torque 35 Lb-In (3.9 N•m)

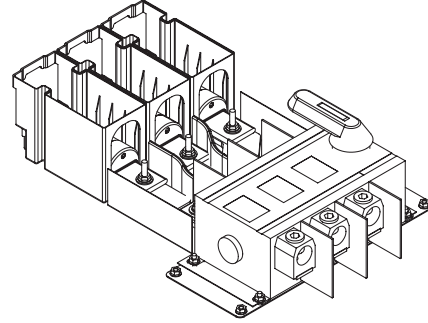


225-400A main disconnects for 75°C Cu conductors:

Fused main disconnect, 1- and 3-phase

Not available with DC ratings

- 600kcmil-2AWG, torque 375 Lb-In (42 N•m)
- Fuse mounting torque: 40 Lb-In (4.5 N•m)

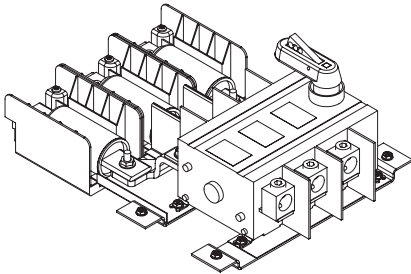


70-200A main disconnects for 75°C Cu conductors:

Fused main disconnect, 1- and 3-phase

Not available with DC ratings

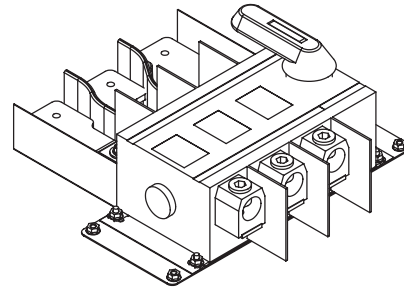
- 300kcmil-4AWG, torque 200 Lb-In (23 N•m)
- Fuse mounting torque: 40 Lb-In (4.5 N•m)



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

Not available with DC ratings

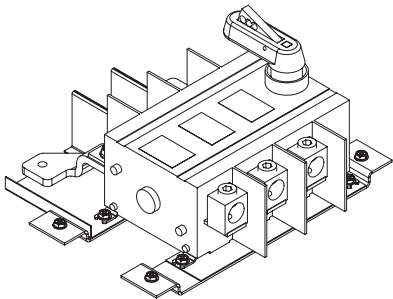
- 600kcmil-2AWG, torque 375 Lb-In (42 N•m)



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

Not available with DC ratings

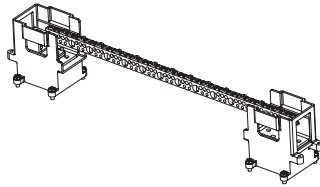
300kcmil-4AWG, torque 200 Lb-In (23 N•m)



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

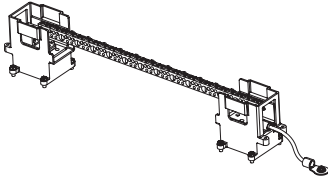
200A Unbonded

- Main terminal 300kcmil-1AWG, torque 375 Lb-In (42 N•m)
- Branch connections - see table
- Bar material: aluminum



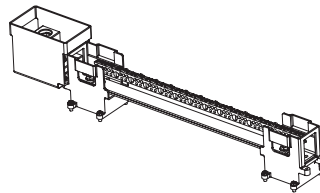
200A Bonded

- Main terminal 300kcmil-1AWG, torque 375 Lb-In (42 N•m)
- Branch connections - see table
- Bar material: aluminum



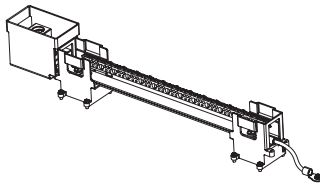
400A Unbonded

- Main terminal 600kcmil-4AWG, torque 500 Lb-In (56 N•m)
- Branch connections - see table
- Bar and lug material: aluminum



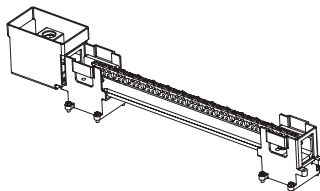
400A Bonded

- Main terminal 600kcmil-4AWG, torque 500 Lb-In (56 N•m)
- Branch connections - see table
- Bar and lug material: aluminum



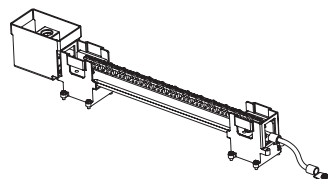
800A Unbonded

- Main terminal (2) 600kcmil-4AWG, torque 375 Lb-In (42 N•m)
- Branch connections - see table
- Bar and lug material: aluminum



800A Bonded

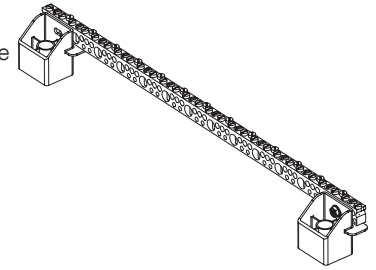
- Main terminal (2) 600kcmil-4AWG, torque 375 Lb-In (42 N•m)
- Branch connections - see table
- Bar and lug material: aluminum



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

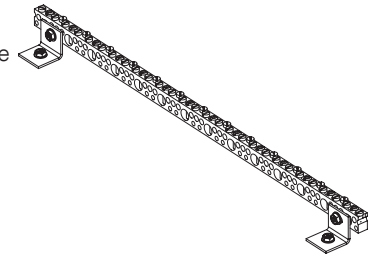
Isolated

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 25 Lb-In (2.8 N•m)

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.

Surge Protection Devices (SPDs):



Factory installed BSPM_ three module SPD

easyID™
Local, visual status
indication



Optional remote
Form C contact
signaling available



Description

Factory installed SPDs are the Bussmann® series 3-pole UL modular surge arresters for 240 and 480 3-phase Delta, and 120/208, 277/480 and 347/600Vac 3-phase Wye systems feature local, *easyID™* visual indication and optional remote contact signaling. The unique module locking system fixes the protection module to the base. Modules can be easily replaced without tools by simply depressing the release buttons. Integrated mechanical coding between the base and protection module ensures against installing an incorrect replacement module.

Code requirement for Surge Protective Devices

2014 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 three-module SPDs feature local, visual *easyID™* status indication and can be specified with a remote Form C contact relay for integration into a monitoring system. The relay is rated to 250Vac/0.5A and 250Vdc/0.1A, 125Vdc/0.2A, 75Vdc/0.5A to accommodate many signaling needs.

Although a Type 1 SPD may be retrofitted and added externally to meet the NEC® 2014 700.8 or other surge suppression needs, it is recommended to factory order the SPD to assure correct specification for the system voltage and type, as well as proper installation.

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

Care should be taken to specify the correct BSPA or BSPD (from the catalog number system) to match the electrical system type and voltage.

Features

- Heavy-duty zinc oxide varistors for high discharge capacity
- Module locking system with module release button make module replacement easy without tools
- Up to 200kA Short-Circuit Current Rating (SCCR) make higher assembly SCCR ratings possible
- Optional remote signaling of all protection modules make status monitoring easy and accurate in any monitoring scheme
- Vibration and shock tested according to EN 60068-2 to withstand harsh environments

Optional remote contact signaling

The remote contact signaling versions have 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.

Available factory installed SPDs:

System and voltage	Catalog number	Data sheet no.
Single-phase, 120/240	BSPM2240S3G	2150
Three-phase Wye, 208/120	BSPM4208WYNG	2152
Three-phase Wye, 480/277	BSPM4480WYNG	2152
Delta, 480	BSPM3480DLG	2151

See data sheets for specifications.

Optional field-installable SPDs



BSPA_

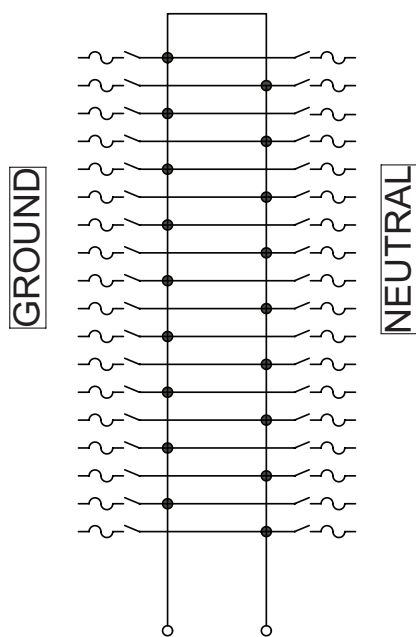
BSPA is a Type 1 or Type 2 UL Listed SPD with from 50 kA to 200 kA surge current capacity. Field installed device, does not ship with QSCP. Must be ordered separately.



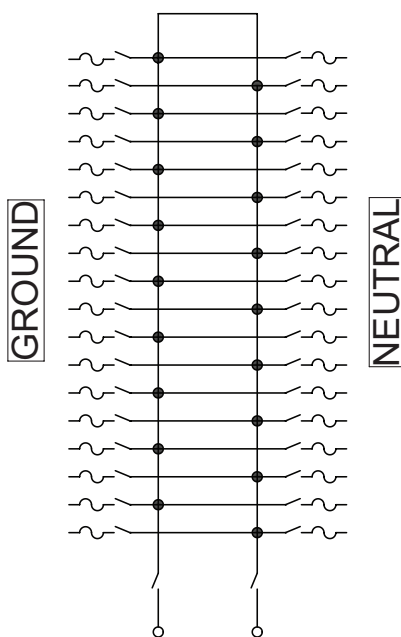
BSPD_

BSPD includes UL Listed Type 1 or Type 2 SPDs (depending on the configuration ordered) with surge current capacities from 120kA to 400kA 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.

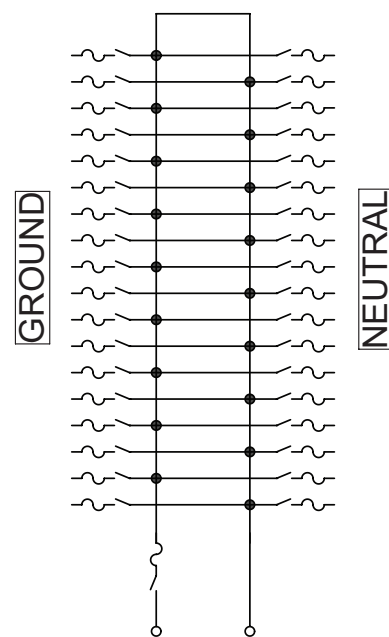
Typical QSCP wiring:



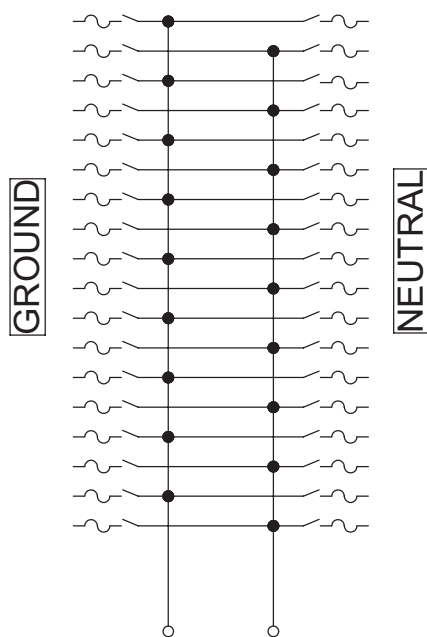
Single-phase, 2 wire
main lug only



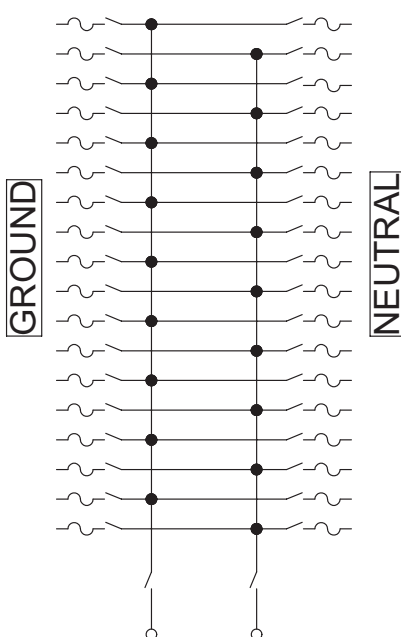
Single-phase, 2 wire
non-fused disconnect



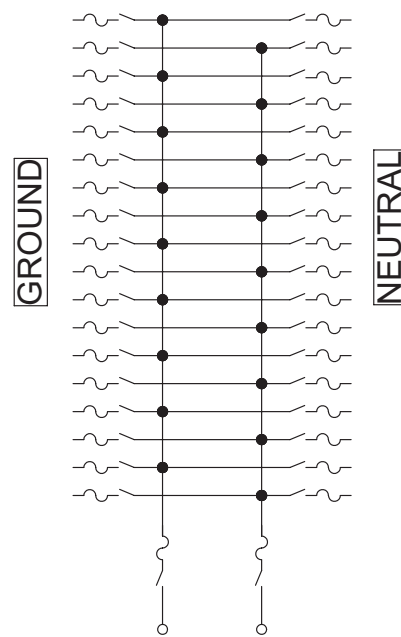
Single-phase, 2 wire
fused disconnect



Single-phase, 3 wire
main lug only

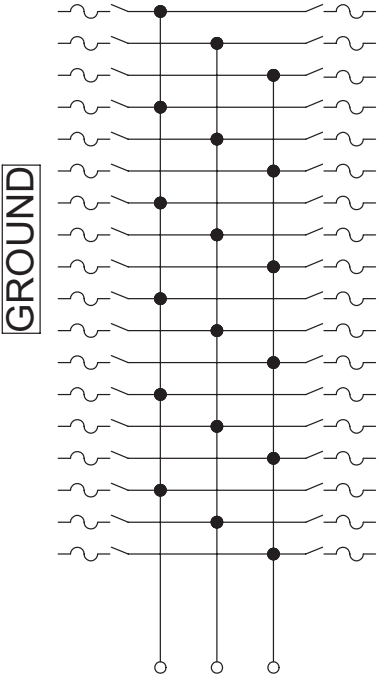


Single-phase, 3 wire
non-fused main disconnect

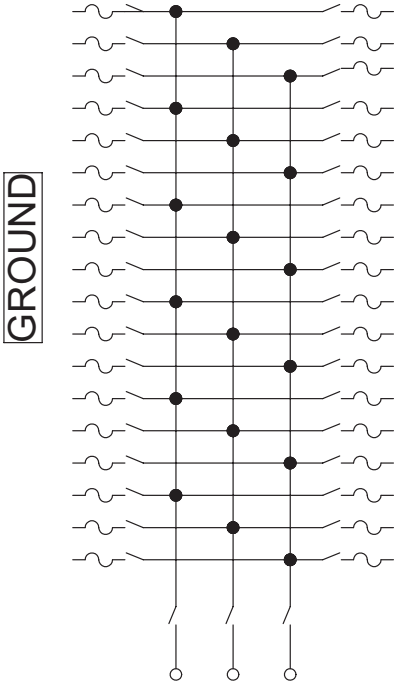


Single-phase, 3 wire
fused main disconnect

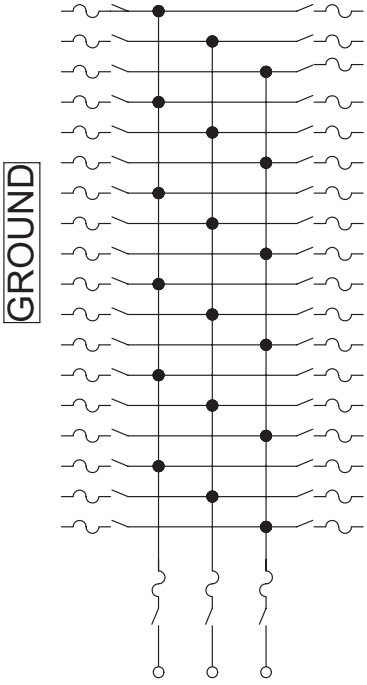
Typical QSCP wiring:



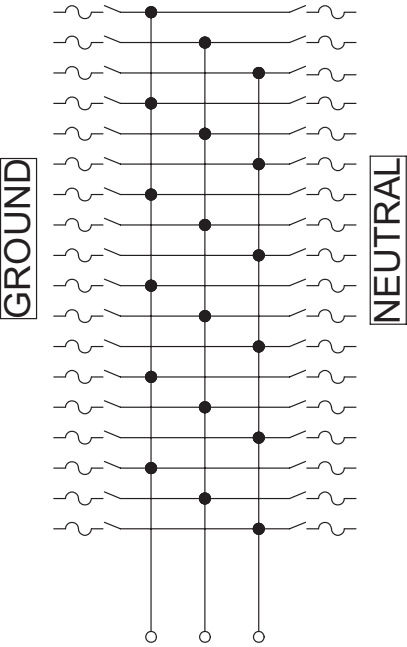
Three-phase, 3 wire
main lug only



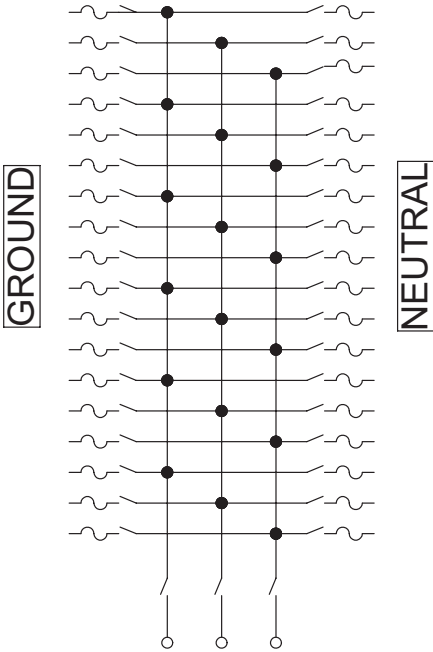
Three-phase, 3 wire
non-fused main disconnect



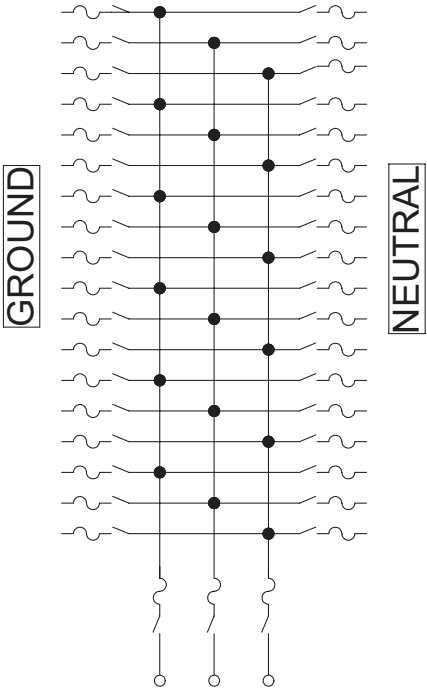
Three-phase, 3 wire
fused main disconnect



Three-phase, 4 wire
main lug only



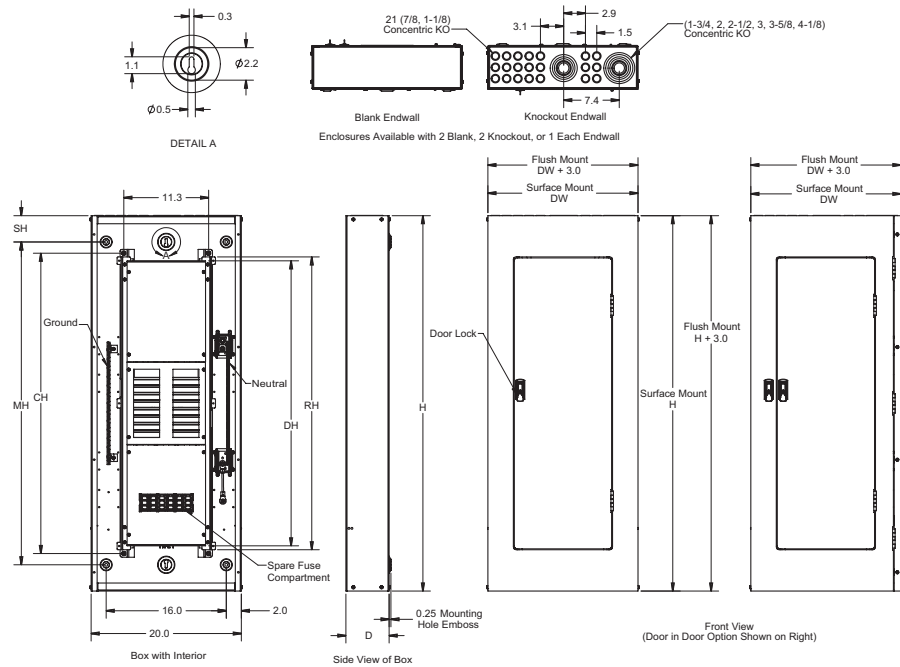
Three-phase, 4 wire
non-fused main disconnect



Three-phase, 4 wire
fused main disconnect

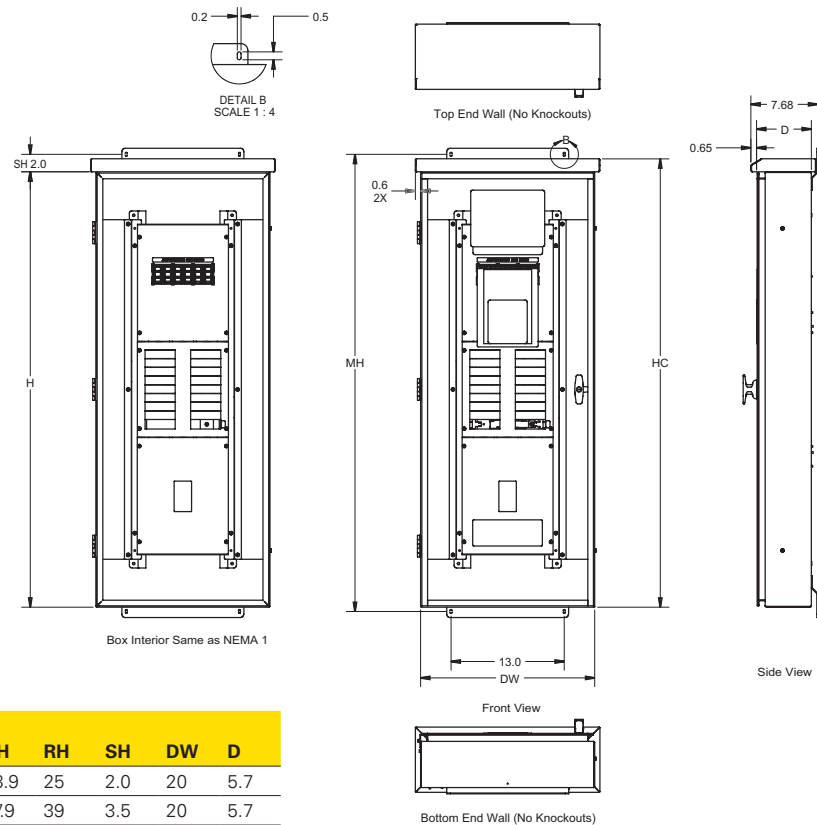
Enclosure dimensions - in:

NEMA 1 enclosures and interior



NEMA 3R enclosures

Interior same as NEMA 1



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.

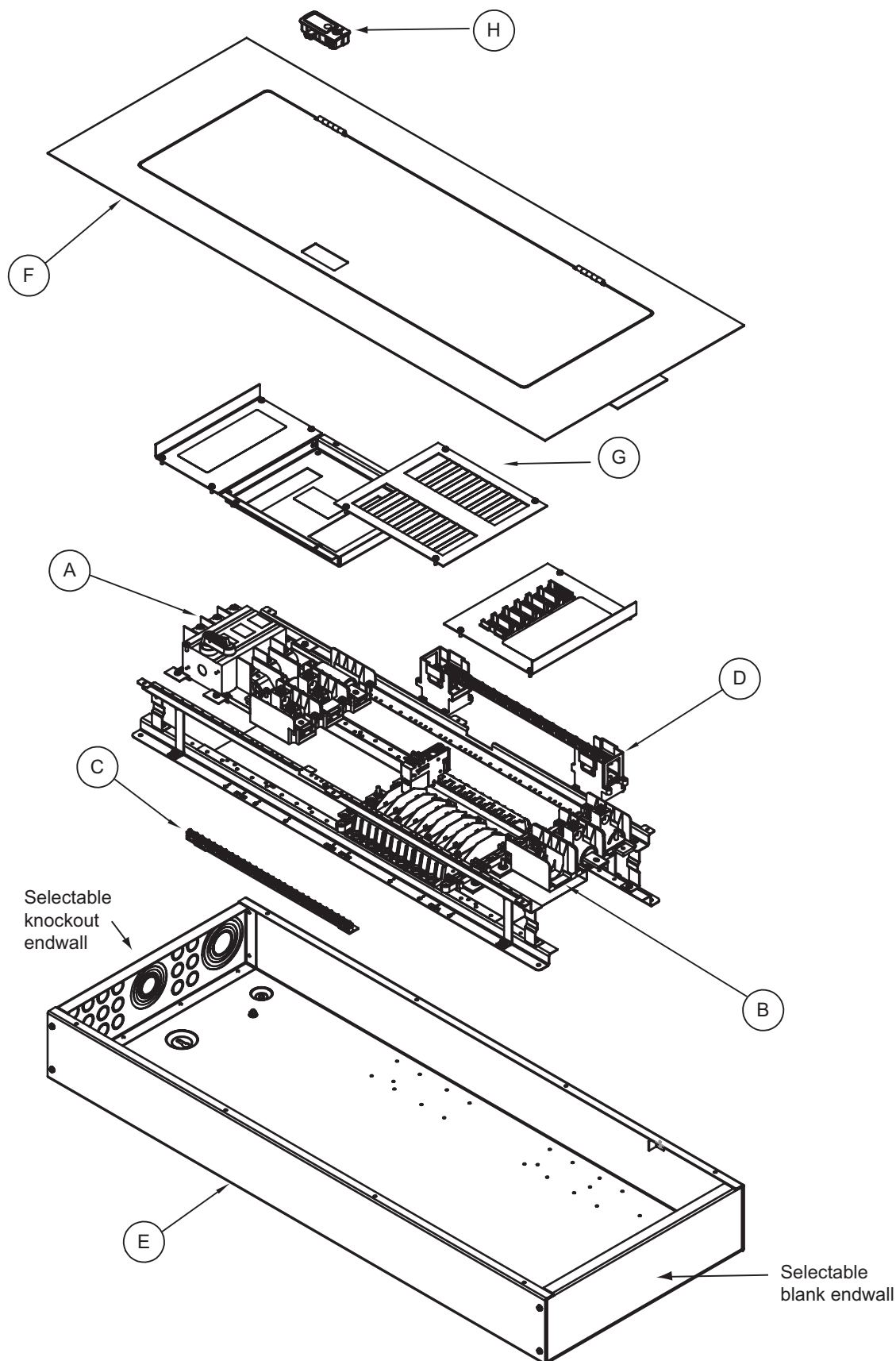
Available panelboard configurations:

Based upon enclosure height, panel amp rating and number of branch circuit positions.

Enclosure height	Panel amps	Branch positions	Available configurations
33"	30 - 200	18	- main lug only, with or without feed-through lugs - non-fused disconnect, no loadside options
		30	- main lug only, no loadside options
	30 - 60	18	- 30 through 60A fused main disconnect, with or without feed-through lugs or SPD
		30	- 30 through 60A fused main disconnect, with or without feed-through lugs or SPD
	70 - 200	42	- 30 through 60A fused main disconnect, with or without feed-through lugs or SPD
		18	- 70 through 200A fused main disconnect, with or without feed-through lugs or SPD
50"	30 - 200	30	- 70 through 200A fused main disconnect, with or without feed-through lugs
		18	- main lug only with SPD - non-fused disconnect, with feed-through lugs or SPD
	30 - 200	30	- main lug only, with feed-through lugs or SPD - non-fused disconnect, with or without feed-through lugs
		42	- main lug only, with or without feed-through lugs or SPD - non-fused disconnect, with or without feed-through lugs
	225 - 400A	18	- main lug only, with or without feed-through lugs or SPD - non-fused disconnect, with or without feed-through lugs
		30	- main lug only, with or without feed-through lugs
	70 - 200	30	- 70 through 200A fused main disconnect, with SPD
		42	- 70 through 200A fused main disconnect, with or without feed-through lugs or SPD
	30 - 200	42	- non-fused disconnect with SPD
		18	- main lug only with loadside disconnect - non-fused disconnect, with SPD - 225 through 400A fused disconnect, with or without feed-through lugs or SPD
59"	225 - 400A	30	- main lug only, with SPD - 225 through 400A fused disconnect, with no loadside options
		42	- main lug only, with or without feed-through lugs or SPD - non-fused disconnect, with no loadside options
	225 - 400A	18	- non-fused disconnect, with loadside disconnect
		30	- main lug only, with loadside disconnect - 225 through 400A fused disconnect, with feed-through lugs or SPD
	225 - 400A	42	- non-fused disconnect, with or without feed-through lugs or SPD - 225 through 400A fused main disconnect, with or without feed-through lugs or SPD
		18	- non-fused disconnect, with or without feed-through lugs or SPD
69"	225 - 400A	30	- main lug only, with loadside disconnect - 225 through 400A fused disconnect, with feed-through lugs or SPD
		42	- non-fused disconnect, with or without feed-through lugs or SPD - 225 through 400A fused main disconnect, with or without feed-through lugs or SPD

Replacement parts:

See list on following page for part numbers.



Replacement parts:**A and B - main devices and feed-through lugs**

* Also for use as feed-through lugs based upon panelboard ampacity rating

2A1909-1*	Kit, compression lug 3-phase, 70-200A
2A1909-2*	Kit, mechanical lug 3-phase, 70-200A
2A1909-3*	Kit, double/sub-feed lug 3-phase, 30-200A
2A1909-4	Kit, main disconnect 70-200A
2A1909-5*	Kit, compression lug 1-phase, 3 wire, 70-200A
2A1909-6*	Kit, mechanical lug 1-phase, 3 wire, 70-200A
2A1909-7*	Kit, double/sub-feed lug 1-phase, 3 wire, 30-200A
2A1909-8	Kit, main disconnect 30-60A 1-phase, 3 wire,
2A1909-9	Kit, main disconnect 30-60A 3-phase,
2A1909-10*	Kit, compression lug 3-phase, 30-60A
2A1909-11*	Kit, mechanical lug 3-phase, 30-60A
2A1909-12*	Kit, compression lug 1-phase, 3 wire, 30-60A
2A1909-13*	Kit, mechanical lug 1-phase, 3 wire, 30-60A
2A1909-14*	Kit, compression lug 1-phase, 2 wire, 70-200A
2A1909-15*	Kit, mechanical lug 1-phase, 2 wire, 70-200A
2A1909-16*	Kit, double/sub-feed lug 1-phase, 2 wire, 30-200A
2A1909-17*	Kit, compression lug 1-phase, 2 wire, 30-60A
2A1909-18*	Kit, mechanical lug 1-phase, 3 wire, 30-60A
2A1909-19	Kit, main disconnect 30-60A 1-phase, 2 wire,
2A1909-20*	Kit, compression lug 3-phase, 225-400A
2A1909-21*	Kit, mechanical lug 3-phase, 225-400A
2A1909-22*	Kit, double/sub-feed lug 3-phase, 225-400A
2A1909-23*	Kit, compression lug 1-phase, 3 wire, 225-400A
2A1909-24*	Kit, mechanical lug 1-phase, 3 wire, 225-400A
2A1909-25*	Kit, double/sub-feed lug 1-phase, 3 wire, 225-400A
2A1909-26*	Kit, compression lug 1-phase, 2 wire, 225-400A
2A1909-27*	Kit, mechanical lug 1-phase, 2 wire, 225-400A
2A1909-28*	Kit, double/sub-feed lug 1-phase, 2 wire, 225-400A
2A1909-29	Kit, main disconnect 225-400A

C - ground bars

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

D - neutral bars

2A1908-1	Kit, 200A unbonded
2A1908-2	Kit, 400A unbonded
2A1908-3	Kit, 200A bonded
2A1908-4	Kit, 400A bonded
2A2129-5	Kit, 800A unbonded
2A2129-6	Kit, 800A bonded

E - enclosures and boxes

XX in the p/n denotes endwall choices B = blank and K = knockout

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
2A1916-1	Kit, blank enclosure endwall (set of 2)
2A1916-2	Kit, knockout enclosure endwall (set of 2)
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

F - enclosure doors

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
2A1667-9	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
2A1667-13	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

G - dead fronts - branch enclosure

For QSCP4 model number panelboards

2A1960-1	Kit, branch enclosure 18 position
2A1960-2	Kit, branch enclosure 30 position
2A1960-3	Kit, branch enclosure 42 position

For QSCP model number panelboards

2A1906-1	Kit, branch enclosure 18 positions
2A1906-2	Kit, branch enclosure 30 positions
2A1906-3	Kit, branch enclosure 42 positions

H - keys and locks

2A1910-1	Kit, NEMA 3R replacement keys (2 keys)
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 keys)

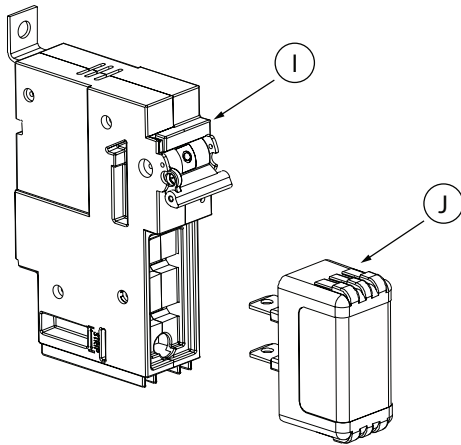
Lockout/tagout devices

2A1912-1	Kit, lockout 70-400A main disconnect
2A1912-2	Kit, lockout 30-60A main disconnect
2A1912-3	Kit, branch lockout (3M Panelsafe) 18 position
2A1912-4	Kit, branch lockout (3M Panelsafe) 30 position
2A1912-5	Kit, branch lockout (3M Panelsafe) 42 position

Miscellaneous

2A1914	Kit, circuit directory card and sleeve
2A1915	Kit, circuit number and fuse rating labels
2A1917-1	Kit, panelboard hardware
2A1917-2	Kit, CCPB hardware (10 screws)
2A1918-1	≤ 60A Kit, branch knockout covers (10 covers)
2A1918-2	70-100A Kit, branch knockout covers (10 covers)
2A1919	Kit, touch-up paint
2A1961-1	Kit, spare branch circuit fuse compartment, 1-100A
3A1072	Nameplate

CCPB disconnects and CUBEFuse replacement parts:



I - CCPB branch disconnects

Poles	Ampacity	Part number
1	15A, 20A, 30A, 40A, 50A, 60A, 70A,	CCPB-1(amp)CF
2	90A, 100A	CCPB-2(amp)CF
3		CCPB-3(amp)CF

J - CUBEFuse™ Fuses

Typical installed amp range			
For CCPB* part number	Non-indicating time-delay TCF(amps)RN	Indicating** time-delay TCF(amps)	Fast-acting non-indicating FCF(amps)RN
CCPB-(# of Poles)-15CF	TCF1RN, TCF3RN, TCF6RN, TCF10RN, TCF15RN	TCF6, TCF10, TCF15	FCF1RN, FCF3RN, FCF6RN, FCF10RN, FCF15RN
CCPB-(# of Poles)-20CF	TCF17-1/2RN, TCF20RN	TCF17-1/2, TCF20	FCF20RN
CCPB-(# of Poles)-30CF	TCF25RN, TCF30RN	TCF25, TCF30	FCF25RN, FCF30RN
CCPB-(# of Poles)-40CF	TCF35RN, TCF40RN	TCF35, TCF40	FCF35RN, FCF40RN
CCPB-(# of Poles)-50CF	TCF45RN, TCF50RN	TCF45, TCF50	FCF45RN, FCF50RN
CCPB-(# of Poles)-60CF	TCF60RN	TCF60	FCF60RN
CCPB-(# of Poles)-70CF†	TCF70RN	TCF70	FCF70RN
CCPB-(# of Poles)-90CF†	TCF80RN, TCF90RN	TCF80, TCF90	FCF80RN, FCF90RN
CCPB-(# of Poles)-100CF†	TCF100RN	TCF100	FCF100RN

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

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

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

Fuse and disconnect performance data:

For details and specifications, access the listed data sheets online at www.cooperbussmann.com/DatasheetsEle.

Product	Data sheet no.
Low-Peak™ time-delay CUBEFuse™	9000
Fast-acting CUBEFuse	2147
Low-Peak LPJ_SPI Class J fuses	1063
CCP main disconnect	1157
CCPB branch disconnect	1161

Additional references:

- Application note (www.cooperbussmann.com/QSCP)
- Selective coordination (www.cooperbussmann.com/SelectiveCoordination)

CUBEFuse specifications:

Catalog symbols	Description
TCF_	6-100A, time-delay, indicating version
TCF_RN	1-100A, time-delay, non-indicating version)
FCF_RN	1-100A, 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)
1-100A, Fast-acting, (non-indicating version)
- IR: 300kA RMS Sym. (UL)
200kA RMS. Sym (CSA)
100kA DC (UL and CSA), (time-delay)
50kA DC (UL and CSA), (fast-acting)

Agency information

- UL Listed, Guide JFHR, File E56412 (time-delay), File E4273 (fast-acting)
- CSA Certified Class 1422- 02, File 53787
- CE compliance for the European Union low voltage directive

Watts loss at rated current

Time-delay	Watts loss	Fast-acting	Watts loss
TCF30	3.99W	FCF30RN	5.45W
TCF60	6.23W	FCF60RN	7.27W
TCF100	9.51W		

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Printed in USA
Publication No. 1160 — BU-SB15189
September 2017

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