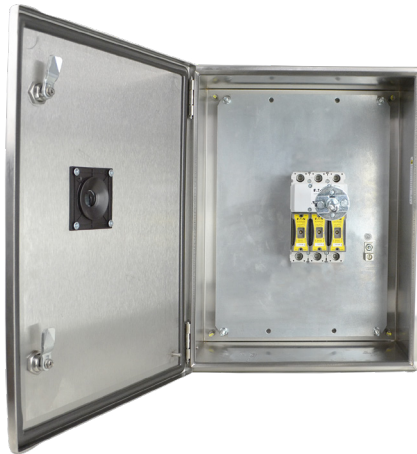


Enclosed UL 98 fused disconnect switches utilizing the Compact Circuit Protector



Catalog symbols

- ER01_ NEMA 1 enclosure
- ER3R_ NEMA 3R enclosure
- ER04_ NEMA 4 enclosure
- ER4X_ NEMA 4X stainless enclosure
- ER4P_ NEMA 4X plastic enclosure
- ER12_ NEMA 12 enclosure

Description

Bussmann™ series UL® 98 fused disconnects utilize the Bussmann series Compact Circuit Protector switch. With ratings up to 600 Vac and 30, 60, 100 and 200 A, these disconnects feature a 200 kA SCCR in a compact footprint and enclosures ratings to meet a wide variety of application needs.

Available with black/gray or red/yellow handles, the 30, 60, and 100 amp switches come in 2- and 3-pole versions, while the 200 amp switch comes in only a 3-pole version.

Features and benefits

- Compact (both CCP and enclosure) for installation ease.
- NEMA 1, 3R, 4, 4X and 12 enclosures meet most application demands.
- Door/handle interlock feature prevents opening the enclosure while the switch is energized
- Front rotary handles for easy switch operation.
- All disconnects feature a fuse/switch interlock that prevents removing or installing fuses while the switch is energized.
- 30, 60, 100 and 200 A disconnects feature an amp rating rejection feature that prevents a fuse of a higher rating from being installed.
- Class CC and CF CUBEFuse replacements are readily available from major electrical distributors.
- Handles accept up to three 1/4" locks for greater safety and compliance with lockout/tagout maintenance requirements.
- Handles are defeatable for unique maintenance procedures and can be configured for lock-on, if needed.
- CCP with either Class CC or Class CF fuses provides a 200 kA SCCR to withstand high fault currents.
- 30, 60, 100 and 200 A switches utilizing the UL Class CF CUBEFuse with 200 kA interrupting ratings withstand virtually any fault current level.
- For applications requiring horsepower rated switches, the CCP is rated to serve as a motor disconnecting means
- Easily applied as an "in-sight disconnect means" for compliance with NEC®110.9.

Enclosed UL 98 fused disconnect catalog numbers

Amps	UL fuse class	Poles	Handle color	Enclosure rating					
				NEMA 1	NEMA 3R	NEMA 4	NEMA 4X Stainless	NEMA 4X plastic	NEMA 12
30	CC	3	Black/gray	ER01-030CC3PB	ER3R-030CC3PB	ER04-030CC3PB	ER4X-030CC3PB	ER4P-030CC3PB	ER12-030CC3PB
			Red/yellow	ER01-030CC3PR	ER3R-030CC3PR	ER04-030CC3PR	ER4X-030CC3PR	ER4P-030CC3PR	ER12-030CC3PR
		2	Black/gray	ER01-030CC2PB	ER3R-030CC2PB	ER04-030CC2PB	ER4X-030CC2PB	ER4P-030CC2PB	ER12-030CC2PB
			Red/yellow	ER01-030CC2PR	ER3R-030CC2PR	ER04-030CC2PR	ER4X-030CC2PR	ER4P-030CC2PR	ER12-030CC2PR
30	CF	3	Black/gray	ER01-030CF3PB	ER3R-030CF3PB	ER04-030CF3PB	ER4X-030CF3PB	ER4P-030CF3PB	ER12-030CF3PB
			Red/yellow	ER01-030CF3PR	ER3R-030CF3PR	ER04-030CF3PR	ER4X-030CF3PR	ER4P-030CF3PR	ER12-030CF3PR
		2	Black/gray	ER01-030CF2PB	ER3R-030CF2PB	ER04-030CF2PB	ER4X-030CF2PB	ER4P-030CF2PB	ER12-030CF2PB
			Red/yellow	ER01-030CF2PR	ER3R-030CF2PR	ER04-030CF2PR	ER4X-030CF2PR	ER4P-030CF2PR	ER12-030CF2PR
60	CF	3	Black/gray	ER01-060CF3PB	ER3R-060CF3PB	ER04-060CF3PB	ER4X-060CF3PB	ER4P-060CF3PB	ER12-060CF3PB
			Red/yellow	ER01-060CF3PR	ER3R-060CF3PR	ER04-060CF3PR	ER4X-060CF3PR	ER4P-060CF3PR	ER12-060CF3PR
		2	Black/gray	ER01-060CF2PB	ER3R-060CF2PB	ER04-060CF2PB	ER4X-060CF2PB	ER4P-060CF2PB	ER12-060CF2PB
			Red/yellow	ER01-060CF2PR	ER3R-060CF2PR	ER04-060CF2PR	ER4X-060CF2PR	ER4P-060CF2PR	ER12-060CF2PR
100	CF	3	Black/gray	ER01-100CF3PB	ER3R-100CF3PB	ER04-100CF3PB	ER4X-100CF3PB	ER4P-100CF3PB	ER12-100CF3PB
			Red/yellow	ER01-100CF3PR	ER3R-100CF3PR	ER04-100CF3PR	ER4X-100CF3PR	ER4P-100CF3PR	ER12-100CF3PR
		2	Black/gray	ER01-100CF2PB	ER3R-100CF2PB	ER04-100CF2PB	ER4X-100CF2PB	ER4P-100CF2PB	ER12-100CF2PB
			Red/yellow	ER01-100CF2PR	ER3R-100CF2PR	ER04-100CF2PR	ER4X-100CF2PR	ER4P-100CF2PR	ER12-100CF2PR
200	CF	3	Black/Grey	ER01-200CF3PB*	ER3R-200CF3PB*	ER04-200CF3PB*	ER4X-200CF3PB	ER4P-200CF3PB	ER12-200CF3PB*
			Red/Yellow	ER01-200CF3PR*	ER3R-200CF3PR*	ER04-200CF3PR*	ER4X-200CF3PR	ER4P-200CF3PR	ER12-200CF3PR*

* For a 21" x 16" x 10" carbon steel option, add "-CST" to the end of the part number (e.g. ER01-200CF3PB-CST).

Switch catalog numbers and horsepower ratings†

Catalog no.	Poles	Amps	Volts	SCCR	Max horsepower rating (Vac)			
					120	240	480	600
30 amp Class CC								
CCP2R-2-30CC	2	30	600 Vac	AC: 200 kA, DC: 20 kA	—	2	—	—
CCP2R-3-30CC	3				3/4	3	5	7.5
30 amp Class CF								
CCP2R-2-30CF	2	30	600 Vac/125 Vdc	AC: 200 kA, DC: 100 kA	—	3	—	—
CCP2R-3-30CF	3		600 Vac		—	5	15	10
60 amp Class CF								
CCP2R-2-60CF	2	60	600 Vac/125 Vdc*	AC: 200 kA, DC: 100 kA	—	7-1/2	—	—
CCP2R-3-60CF	3		600 Vac		—	7-1/2	20	10
100 amp Class CF								
CCP2R-2-100CF	2	100	600 Vac/125 Vdc**	AC: 200 kA, DC: 100 kA	—	10	—	—
CCP2R-3-100CF	3		600 Vac		—	20	50	40
200 amp Class CF								
CCP2-3-200CF	3	200	600 Vac	AC: 200 kA	-	50	100	150

† For more information, see data sheet 10789 for the Class CC switches and data sheet 10801 for Class CF switches.

* 125 Vdc for installed fuse amp ratings up to 40 A. 24 Vdc for installed fuse amp ratings from 45 to 60 A.

** 125 Vdc for installed fuse amp ratings up to 80 A, 24 Vdc for installed fuse amp ratings from 90 to 100 A.

Enclosure agency information

- UL Listed, Guide NITW, File E170282

Enclosed CCP agency information

UL Class CC fuse versions

- UL 98 Listed, File E302370, Guide WHTY
- cULus to CSA Standard 22.2 No. 4-04, File 302370, Guide WHTY7
- RoHS compliant

For details, see data sheets:

- 10789 for Class CC switches
- 10801 for Class CF CUBEFuse switches

Enclosure Dimensions

UL fuse class	Amp range	H x W x D (in)
CC/M	30	10x8x6
CF	30	
	60	
	100	12x10x8
	200	20x16x8*

*Size for NEMA 1, 3R, 4, 4P, 12 options with plastic enclosure. Carbon and stainless steel options are 21" x 16" x 10".

Available Bussmann series fuses

UL fuse class	Amp range	Type	Catalog symbol	Data sheet
CC	1/2-30	Time-delay	LP-CC	1023
	1/4-30	Time-delay	FNQ-R	1014
	1/10-30	Fast-acting	KTK-R	1015
CF	1-200	Time-delay, non-indicating	TCF_RN	9000
	6-200	Time-delay indicating	TCF_	

Box lug terminal conductor data

Wire type	AWG range	Class	Quantity	Torque N•m (lb-in)
30 A Class CC switches				
75°C Cu	4-18	Stranded, Class B to K	Single	2.26 (20)
	6-8	Stranded, Class B/C	Dual	3.39 (30)
	6-8	Stranded, Class K	Dual	2.26 (20)
	10-18	Stranded, Class B to K		
	10-18	Solid	Single/dual	3.39 (30)
	4-18	Stranded, UL ferrule, Class B/C	Single	
	6-18		Twin†	
	4-18	Stranded, UL ferrule, Class K	Single	
6-18	Twin†			
75°C Al	4-8	Stranded	Single	2.26 (20)
	6		Dual	2.82 (25)
	8			2.26 (20)
30 and 60 A Class CF switches				
75°C Cu	4-6	Stranded, Class B to K	Single	3.95 (35)
	8-18			2.26 (20)
	6-8			3.39 (30)
		Stranded, Class K	Dual	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.

Wire type	AWG range	Class	Quantity	Torque N•m (lb-in)
100 A Class CF switches				
75°C Cu	12-18	Stranded, Class B/C	Single	2.26 (20)
	10			2.82 (25)
	8			4.52 (40)
	4-6			5.08 (45)
	1-3			6.21 (55)
	4-12		Dual	5.08 (45)
	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)
	6-9			2.82 (25)
	10-18	Solid	Single/Dual	2.26 (20)
	8-18	Class K	Single	2.26 (20)
	1-7			3.39 (30)
	3-10		Dual	5.08 (45)
	8-18	Class K, UL ferrule	Single	2.26 (20)
	1-7			3.39 (30)
	6-18		Twin	2.26 (20)
200 A Class CF switches				
75°C Cu	350-4 (185-25)	Solid/standed	Twin	28.2 (250)

Lineside and loadside fork terminal

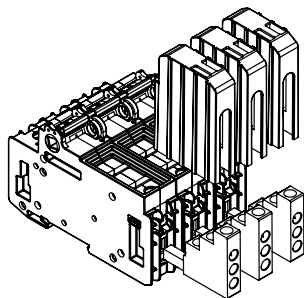
- Fork terminal suitable for line, load or accessory connection, max. 30 A suitable for use with:
 - 10-24 screw for 30 and 60 A switches
 - 1/4-28 screw for 100 A switches

Available multi-wire lug kit and conductor ratings

Catalog no.	Description	Lugs per cat. no.	Wire range AWG (mm²)	Wire type/temp.
All 30 and 60 A switches				
CCP2-MW1-3	3-port multi-wire lug kit with shrouds	3	4-14 (25-2.5)†	Cu/Al 75°C†
100 A switches				
CCP2-MW1-6	6-port multi-wire lug kit with shrouds	3	4-14 (25-2.5) †	Cu/Al 75°C†
200 A switches				
CCP2-L2-1	Stainless steel lug	1	350-4 (185-25)	Cu 75°C
CCP2-MW2-3	3-port multi-wire terminal with shroud*	3	2-14 (35-2.5)	Cu/Al 75°C
CCP2-MW2-6	6-port multi-wire terminal with shroud*	3	6-14 (16-2.5)	Cu/Al 75°C

† Conductor material (Cu or Al), conductor class, single/dual per port and torque varies. See data sheet 10801 for details.

* These lugs also accept a 1/4" quick connect control wire terminal. Order catalog number CCP2-CWK2 (package of 12).



Available multi-wire lug kit extends application flexibility and reduce component count by combining the switch and power distribution block into one, finger-safe unit.



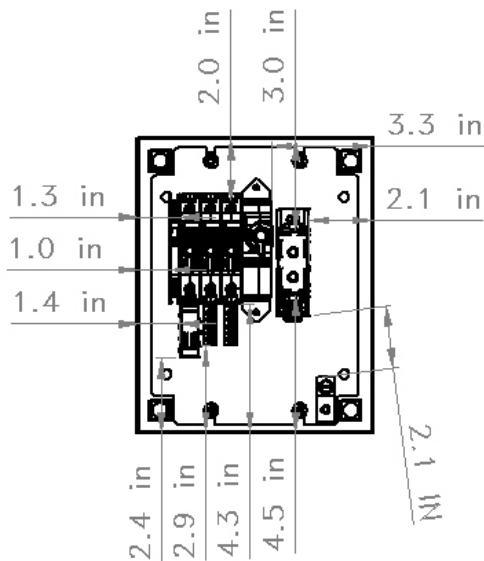
For enclosed units with a pistol grip style handle, an offset screwdriver can be used to engage and disengage the latching mechanism on the enclosure.

Torques for max switch gauge

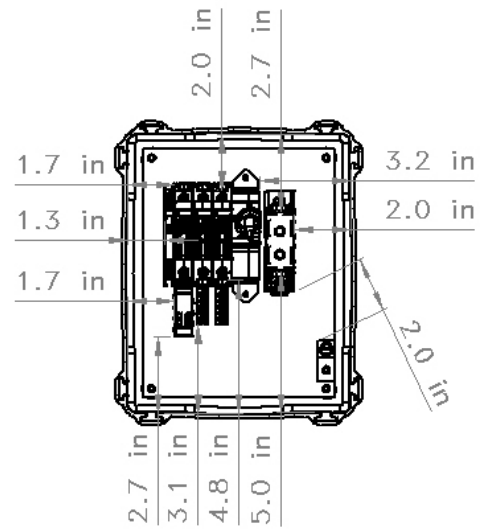
	Metal					Plastic				
	30CC	30CF	60CF	100CF	200CF	30CC	30CF	60CF	100CF	200CF
Customer	lb-in.					lb-in.				
Line conductors to switch lug	20	35		55	Style dependent	20	35		55	Style dependent
Load conductors to switch lug										
Multiwire lug to switch lug	40			45		40			45	
Neutral wire to PDBFS	110				275	110				275
Ground wire to Busmann ground lug	45			50	375	45			50	375
Aux wires to Aux terminal	5					5				
Feet to enclosure	88.5					30				
Enclosure to wall	88.5					31.7				
Ground wire to Enclosure stud	44.3					N/A				
Ground wire to Enclosure lid stud	44.3					N/A				
Ground wire to back panel	88.5					N/A				

	Metal					Plastic				
	30CC	30CF	60CF	100CF	200CF	30CC	30CF	60CF	100CF	200CF
Info only - misc. torque values	lb-in.					lb-in.				
Lid to Enclosure	19.5					15				
Latches to Enclosure	-					15				
Latch to Lid	13.3					-				
Handle to enclosure lid	8.9					8.9				
Back panel to enclosure	35.4					-				
Ground lug to back panel	-				275	-				275
PDBFS to back panel	Based on screw composition, typical minimum for #10 is 18 or an M5 52.3					Based on screw composition, typical minimum for #10 is 18 or an M5 52.3				
Leg bracket to switch	9				N/A	9				N/A
Switch assembly to back panel	9 (Leg brackets to back plane)				20	9 (Leg brackets to back plane)				20
AUX to switch	-				8.8	-				8.8
Lugs to switch	-				See lug data	-				See lug data
Rotary mechanism to switch	-				12	-				12
Shaft to rotary mechanism	22					22				
Coupler to shaft	22					22				

30 CC

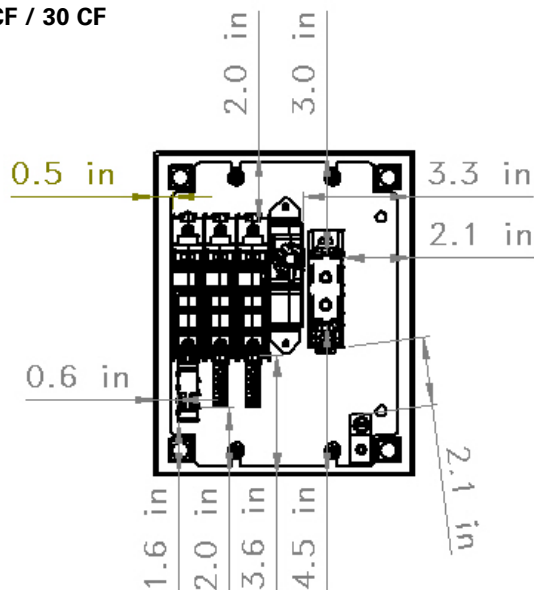


CCP2R-3-30CC
Within 10"x 8"x 6" **metal** enclosure
Shown with optional accessories:
CCP2-MW1-3
CCP2-AUX
PDBFS204

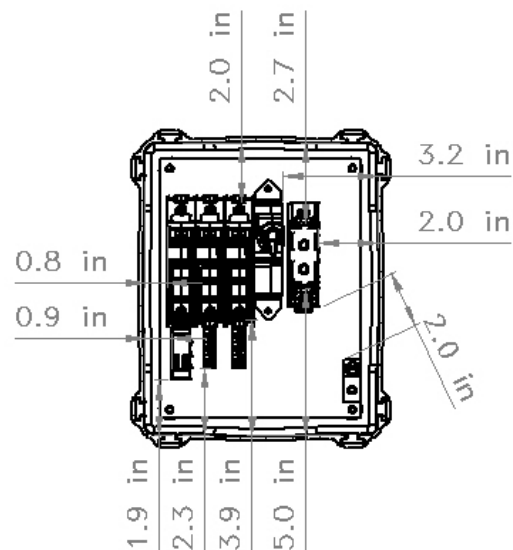


CCP2R-3-30CC
Within 10"x 8"x 6" **plastic** enclosure
Shown with optional accessories:
CCP2-MW1-3
CCP2-AUX
PDBFS204

60 CF / 30 CF

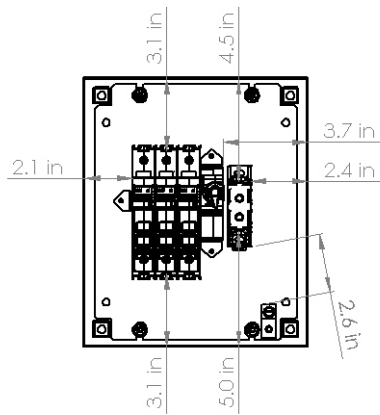


CCP2R-3-60CF
CCP2R-3-30CF (identical)
Within 10"x 8"x 6" **metal** enclosure
Shown with optional accessories:
CCP2-MW1-3
CCP2-AUX
PDBFS204



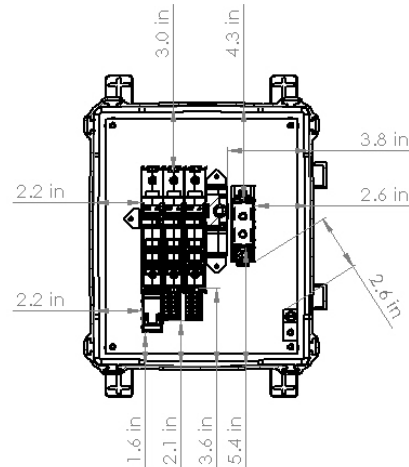
CCP2R-3-60CF
CCP2R-3-30CF (identical)
Within 10"x 8"x 6" **plastic** enclosure
Shown with optional accessories:
CCP2-MW1-3
CCP2-AUX
PDBFS204

100 CF



CCP2R-3-100CF

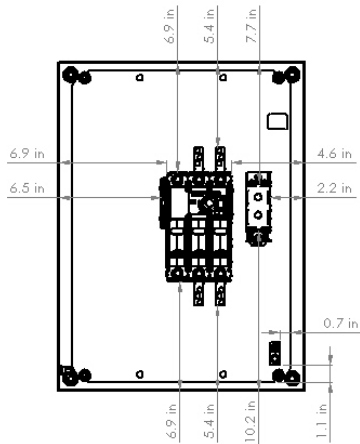
Within 12"x 10"x 8" **metal** enclosure
Shown with optional accessory:
PDBFS204



CCP2R-3-100CF

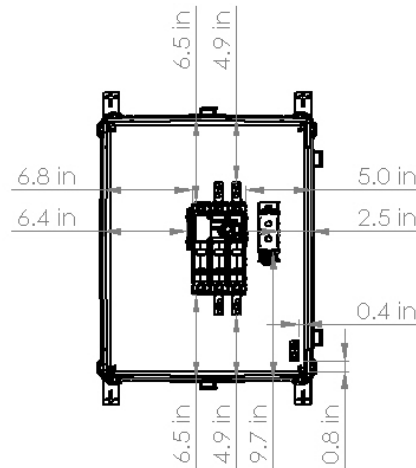
Within 12"x 10"x 8" **plastic** enclosure
Shown with optional accessories:
CCP2-MW1-6
PDBFS204

200 CF



CCP2-3-200CF

Within 21"x 16"x 10" **metal** enclosure
Shown with optional accessories:
CCP2-MW2-3
CCP2-AUX-S
PDBFS303



CCP2-3-200CF

Within 20"x 16"x 8" **plastic** enclosure
Shown with optional accessories:
CCP2-MW2-3
CCP2-AUX-S
PDBFS303

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