Effective April 2019 Supersedes March 2019

BUSSMANN SERIES

Compact Circuit Protector

UL 98 Class CF disconnect switches up to 200 A (cat. no. CCP2)





CCP2 switch up to 100 A



200 A CCP2 switch

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Catalog symbols for 30, 60 and 100 A switches

Symbol	Description
CCP2-(pole)-(amps)CF	Switch only
CCP2R-(pole)-(amps)CF	Right front rotary, clockwise operated switch
CCP2RL-(pole)-(amps)CF	Left front rotary, clockwise operated switch
CCP2S-(pole)-(amps)CF	Right side rotary, clockwise operated switch
CCP2SL-(pole)-(amps)CF	Left side rotary, counterclockwise operated switch

Description

The revolutionary, next generation Bussmann[™] series Compact Circuit Protector (cat. no. CCP2) is a fused UL[®] 98 branch circuit disconnect switch utilizing the UL Class CF time-delay or fast-acting CUBEFuse[™] with Class J electrical performance. With up to a 51 percent smaller footprint than a traditional fusible solution, these switches provide a high 200 kA SCCR to help improve panel and assembly SCCR.

The 35 mm DIN-Rail mount CCP2 is available in a variety of 30, 60 and 100 amp configurations to meet many application needs including rotary operation.

The switch-only versions of the 30, 60 and 100 A disconnects are direct, drop-in replacements for the earlier models (noted by a catalog number starting "CCP-"). The auxiliary contacts and PLC remote fuse indicator are backwards compatible. The multi-wire lug kits and terminal shrouds are not.

Application flexibility is extended with an optional multi-wire lug kit, featuring finger-safe shrouds, that provides three (30 and 60 A switches) and six (100 A switches) additional wire ports on each pole for power distribution applications.

Other accessories include a PLC fuse monitor for open fuse indication and NO/NC auxiliary contacts that easily integrate into various monitoring systems.

Front and side rotary operated versions are easily applied for through-the-door or through the left or right side operation to enhance safety.

Ratings

- Volts
 - 347 Vac (1-pole switches)
 - 600 Vac (2- and 3-pole switches)
 - 125 Vdc*
- Amps
 - 30 A
 - 60 A
 - 100 A
- SCCR
 - 200 kA RMS Sym.
 - 100 kA DC

Poles

- 1-, 2- and 3-poles catalog number dependent
- * Switch amp rating and installed fuse amp rating dependent, see catalog number table for details.

Agency information

- UL 98 Listed, Guide WHTY, File E302370
- cULus to Canadian Standard 22.2 No. 4-04, Guide WHTY7, File E302370

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- RoHS compliant
- CE

Conductors/terminals

- 75°C Cu, see conductor tables for size, type and torque information
- Box lug, single/dual conductor
- 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
- · Multi-wire lug kits see accessories for details

Storage and operating temperature

- -20°C to 75°C (-4°F to 167°F)*
- For fuse performance under or above 25°C, consult fuse performance derating charts in the Bussmann Division publication no. 3002, titled Selecting Protective Devices (SPD)

Lockout/tagout provisions

• 1/4" lock, direct use on switches without rotary mechanisms requires a lock with a straight shank of sufficient length to engage all poles

Minimum enclosure size per UL 98*

- 30 and 60 A switch 10"x 8"x 6"(254 x 203 x 152 mm)
- 100 A switch, 12" x 10" x 6" (305 x 254 x 152 mm)
- * Smaller enclosures may be used at the discretion of the user, with adherence to NEC minimum wire bend radius requirements.

Mounting**

- 35 mm DIN-Rail
- **Switch is panel mount with flange handle cable operator.

Local open fuse indication minimum voltage

 90 Vac, requires an open fuse to be in the CCP2 and the switch in the ON position

Accessories

- Multi-wire lug kits with terminal shrouds
- Selector and pistol handles for use with rotary operated switches
- 8 mm shafts for use with selector and pistol handles
- Auxiliary contacts
- PLC fuse monitor
- NFPA 79 compliant handle
- · Flange handle rod and cable operators

Carton quantity and shipping weight

Item	Poles	Qty.	Weight Ib (kg)
30 and 60 amp switches			
Switch only	1-pole	12	3.8 (1.7)
Switch with side rotary mechanism -	2-pole	1	1.3 (0.6)
Switch with side rotary mechanism -	3-pole	1	1.6 (0.7)
Switch with front rotary prochaniam	2-pole	1	1.3 (0.6)
Switch with front rotary mechanism -	3-pole	1	1.6 (0.7)
100 amp switches			
Switch only	1-pole	6	3.1 (1.4)
Switch with side retary mechanism	2-pole	1	1.7 (0.8)
Switch with side rotary mechanism -	3-pole	1	2.3 (1.0)
Switch with front rotary machaniam -	2-pole	1	1.7 (0.8)
Switch with front rotary mechanism -	3-pole	1	2.3 (1.0)

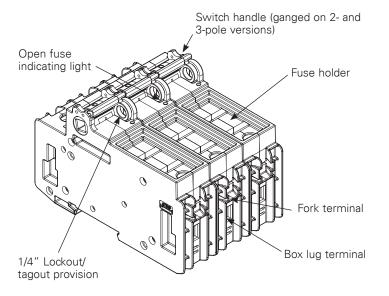
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Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

Technical Data 10801 Effective April 2019

Features

- Uses UL Class CF time-delay or fast-acting CUBEFuse with Class J electrical performance
- Extremely compact design at 25.4 mm (1 inch) wide per pole
- Amp rating rejection disconnects will not accept a CUBEFuse amp rating greater than switch rating
- High 200 kA short-circuit current rating
- · Disconnect rated to provide means for load isolation
- Full voltage rated at 347 Vac (1-pole switches) and 600 Vac (2- and 3-pole switches)
- 125 Vdc* rated to meet specialized applications
- UL 98 Listed and suitable for branch circuit disconnect and branch circuit protection with installed fuses
- Horsepower rated
- Open fuse indication:
 - · Local open fuse indication light standard on each pole
 - Optional PLC fuse monitor for wired remote open fuse indication by signaling a PLC and opening a contactor to de-energize all phases, if required
- Additional open fuse indication can be provided by the indicating time-delay CUBEFuse (6 to 100 A)
- Finger-safe construction with 10 AWG (6 mm²) wire or larger
- Built-in switch interlock prohibits removing or installing the fuse while in the ON position
- Padlockable for lockout/tagout procedures with a 1/4" lock
- Rotary operated versions provide for through-the-door and through-the-side operation flexibility and enhanced safety with:
 - Right or left front operation
 - Right or left side operation
- Optional selector and pistol handles, and shafts available for use with rotary operated versions
- Multi-wire lug kits with terminal shrouds allow for power distribution to multiple loads. Each lug has three (30 and 60 A switches) or six (100 A switches) ports rated for single and dual wires (see lug kits in accessories for details).
- * Switch amp rating and installed fuse amp rating dependent, see catalog number table for details.





Right front rotary operated CCP2 switch with PLC fuse monitor.

Rotary operating versions



Left front

Uses clockwise handles

Left side

Uses counterclockwise handles



Right front Uses clockwise handles



Right side Uses clockwise handles

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30, 60 and 100 A switch catalog numbers

					Ma	<mark>ax Hp</mark> ra	ating (\	/ac)
Catalog no.	Poles	Description/switch operation	Volts	SCCR	120	240	480	600
30 amp switches								
CCP2-1-30CF	1	347 Vac/125 Vdc			1-1/2	_	_	_
CCP2-2-30CF	2	Switch only	600 Vac/125 Vdc	-	_	3	_	_
CCP2-3-30CF	3	-	600 Vac		_	5	15	10
CCP2R-2-30CF	2	- Right front rotary, clockwise	600 Vac/125 Vdc	_	—	3	—	
CCP2R-3-30CF	3	- Right Hoht fotaly, clockwise	600 Vac	- 200 kA AC	—	5	15	10
CCP2RL-2-30CF	2	- Left front rotary, clockwise	600 Vac/125 Vdc	- 100 kA DC	—	3	—	—
CCP2RL-3-30CF	3	Left from rotary, clockwise	600 Vac	100 KA DC	_	5	15	10
CCP2S-2-30CF	2	- Right side rotary, clockwise	600 Vac/125 Vdc	_	—	3	—	
CCP2S-3-30CF	3	- Might side rotary, clockwise	600 Vac	_	—	5	15	10
CCP2SL-2-30CF	2	- Loft side retery, sourtersleakwise	600 Vac/125 Vdc	_	—	3	—	
CCP2SL-3-30CF	3	 Left side rotary, counterclockwise 	600 Vac	-	_	5	15	10
60 amp switches								
CCP2-1-60CF	1		347 Vac/125 Vdc*		3	_	_	
CCP2-2-60CF	2	Switch only	600 Vac/125 Vdc*		_	7-1/2	_	_
CCP2-3-60CF	3	_	600 Vac	-	_	7-1/2	20	10
CCP2R-2-60CF	2	Dight front rotony, aladyuian	600 Vac/125 Vdc*	- - 200 kA AC	_	7-1/2	_	
CCP2R-3-60CF	3	- Right front rotary, clockwise	600 Vac		_	7-1/2	20	10
CCP2RL-2-60CF	2	Loft front rotany, alaskuvias	600 Vac/125 Vdc*		—	7-1/2	_	
CCP2RL-3-60CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC - -	_	7-1/2	20	10
CCP2S-2-60CF	2	Dight eide retery, electruise	600 Vac/125 Vdc*		_	7-1/2	_	_
CCP2S-3-60CF	3	- Right side rotary, clockwise	600 Vac		_	7-1/2	20	10
CCP2SL-2-60CF	2		600 Vac/125 Vdc*	_	_	7-1/2	_	
CCP2SL-3-60CF	3	- Left side rotary, counterclockwise	600 Vac	-	_	7-1/2	20	10
100 amp switches								
CCP2-1-100CF	1		347 Vac/125 Vdc**		5	_	_	
CCP2-2-100CF	2	Switch only	600 Vac/125 Vdc**	-	_	10	_	
CCP2-3-100CF	3	_	600 Vac	-	_	20	50	40
CCP2R-2-100CF	2	Dialet for at actomy all all via a	600 Vac/125 Vdc**	_	_	10	_	
CCP2R-3-100CF	3	- Right front rotary, clockwise	600 Vac	- - 200 kA AC	_	20	50	40
CCP2RL-2-100CF	2	Left front rotony, place in the	600 Vac/125 Vdc**		_	10	_	_
CCP2RL-3-100CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC	_	20	50	40
CCP2S-2-100CF	2	Dight aide satery, ale - louis -	600 Vac/125 Vdc**	-	_	10	_	_
CCP2S-3-100CF	3	- Right side rotary, clockwise	600 Vac	-	_	20	50	40
CCP2SL-2-100CF	2		600 Vac/125 Vdc**	-	_	10	_	
CCP2SL-3-100CF	3	- Left side rotary, counterclockwise	600 Vac	-	_	20	50	40

* 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.

Technical Data 10801

Effective April 2019

Box lug terminal conductor data

Wire type	AWG range	Class	Quantity	Torque N∙m (lb-in)				
30 and 6	0 A swit	ches						
	4-6	Stranded, Class B	Single	3.95 (35)				
	8-18	to K	Single	2.26 (20)				
	6-8	Stranded, Class B/C		3.39 (30)				
	0-0	Stranded, Class K	_ Dual					
75°C Cu	10-18	Stranded, Class B to K		2.26 (20)				
	10-18	Solid	Single/dual	2.26 (20)				
	4-18	Stranded, UL ferrule,	Single	2 20 (20)				
	6-18	Class B/C	Twin [†]	3.39 (30)				
	4-18	Stranded, UL ferrule,	Single	2.02.(25)				
	6-18	Class K	Twin [†]	2.82 (25)				
100 A switches								
	12-18	_	Single	2.26 (20)				
-	10	_		2.82 (25)				
	8	- Stranded, Class B/C		4.52 (40				
	4-6			5.08 (45)				
	1-3	_		6.21 (55)				
	4-12	_	Dual	5.08 (45)				
	12-18			2.26 (20)				
	10		Single	3.95 (35)				
75°C Cu	1-8	Stranded, UL ferrule, Class B/C		4.52 (40)				
75 C Cu	10-18	_	Twint	2.26 (20)				
	6-9	_	IVVIIII	2.82 (25)				
	10-18	Solid	Single/Dual	2.26 (20)				
	8-18		Single	2.26 (20)				
	1-7	Class K	Single	3.39 (30)				
	3-10		Dual	5.08 (45)				
	8-18	_	Single	2.26 (20)				
	1-7	Class K, UL ferrule	Single	3.39 (30)				
	6-18	_	Twin	2.26 (20)				

Lineside and loadside fork terminal

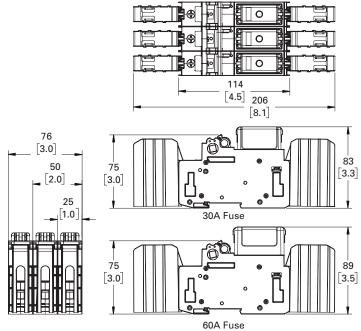
- Fork terminal suitable for line, load or accessory connection, max. 30 A suitable for use with:
 - 10-24 screw for 30 and 60 A switches
 - 1/4-28 screw for 100 A switches

Available Bussmann series fuses

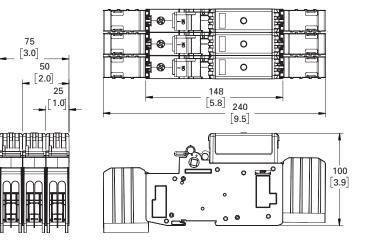
UL fuse class	Type/description	Volts	Data sheet no.
	Indicating time-delay, Low-Peak™ CUBEFuse (6-100 A)	600 Vac/	0000
CF	Non-indicating time-delay, Low-Peak CUBEFuse (1-100 A)	300 Vdc	9000
	Non-indicating fast-acting CUBEFuse (1-100 A)	600 Vac/dc	2147

Dimensions - mm (in)

Switch (shown with optional terminal shrouds)



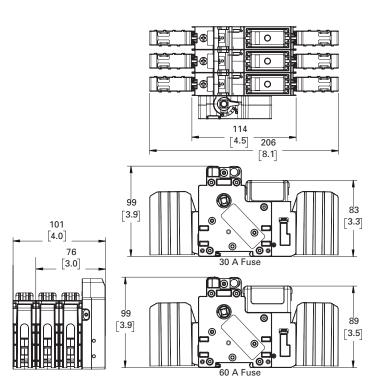
30 and 60 amp switches

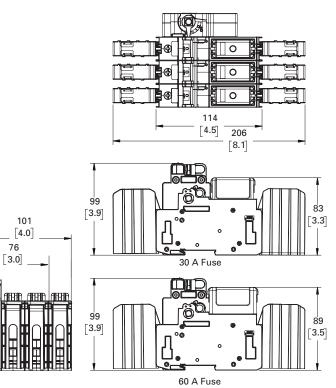


100 amp switches

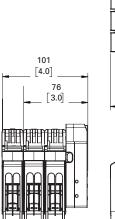
Left front rotary switches (shown with optional terminal shrouds)

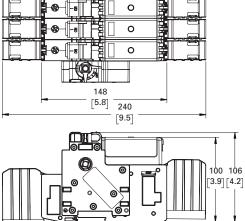
Right front rotary switches (shown with optional terminal shrouds)



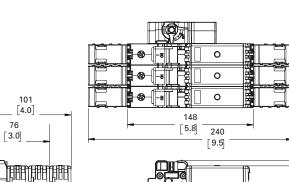


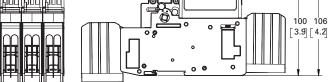
30 and 60 amp switches









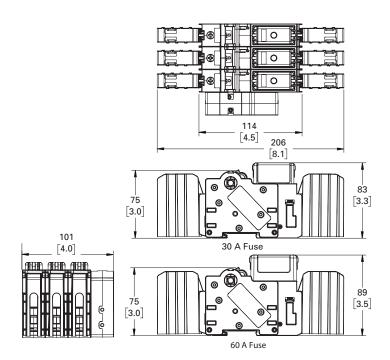


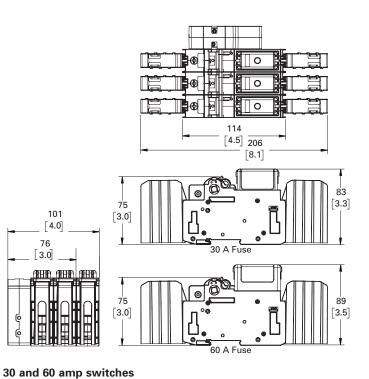
100 amp switches

100 amp switches

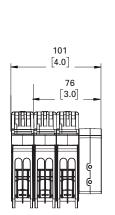
Left side rotary switches (shown with optional terminal shrouds)

Right side rotary switches (shown with optional terminal shrouds)



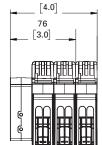


30 and 60 amp switches



100 amp switches

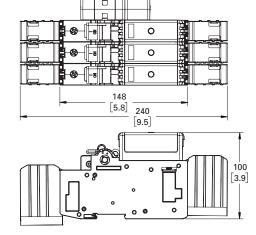
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100 amp switches

Technical Data 10801 Effective April 2019

Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

200 A switches





With front rotary accessory

With side rotary accessory

Catalog no.	Poles	Amps	Description
CCP2-1-200CF	1		
CCP2-2-200CF	2	200	Switch only
CCP2-3-200CF	3	-	

Description

The Bussmann series 200 A Compact Circuit Protector (CCP2) fused disconnect switches utilize the finger-safe UL Class CF time-delay CUBEFuse with Class J electrical performance. With up to a 69 percent smaller footprint than a traditional fusible solution, these switches provide a high 200 kA SCCR to help improve panel and assembly SCCR.

The panel mount 200 A CCP2 switches are available with a variety of accessories to meet many application needs including rotary and flange handle operation.

Rotary operators are available for front or side (right or left) operation. Front rotary operators are for three-pole switches only while the side operator may be applied to the right or left side of 1-, 2- and 3-pole units.

Other accessories include lugs, terminal shrouds, rotary pistol handles, flange rod and cable operating mechanisms, NO/NC auxiliary contacts that easily integrate into various monitoring systems and a handle extension.

Front and side rotary operated versions are easily applied for through-the-door or through the left or right side operation to enhance safety.

Ratings

Volts

- 347 Vac (1-pole) 600 Vac (2- and 3-pole)
- Amps
 - 200 A
- SCCR
 - 200 kA RMS Sym.

Poles

• 1-, 2- and 3-poles catalog number dependent

Agency information

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

Conductors/terminals

- See available lug table for size, type and torque information
- Storage and operating temperature
- -20°C to 75°C (-4°F to 167°F)*
- For fuse performance under or above 25°C, consult fuse performance derating charts in the Bussmann Division publication no. 3002, titled Selecting Protective Devices (SPD)

Lockout/tagout provisions using 1/4" lock

- Integral with switch handle
- Front rotary operating mechanism
- Rotary pistol handles
- Flange rod and cable operators

Minimum enclosure size

• 200 A switch 16 x 12 x 6" (405 x 305 x 150 mm)

Mounting

• Panel mount

Local open fuse indication minimum voltage

 90 Vac, requires an open fuse to be in the CCP2 and the switch in the ON position

Accessories

- Lugs and lug kits with terminal shrouds
- · Pistol handles for use with rotary operated switches
- NFPA 79 compliant handle
- 12 mm shafts for use with selector and pistol handles

Auxiliary contacts

• Flange handle rod and cable operators

Carton quantity

Item	Poles	Qty.
	1	1
200 amp switches	2	1
	3	1

Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

Technical Data 10801

Effective April 2019

Features

- Uses UL Class CF time-delay CUBEFuse with Class J electrical performance
- Amp rating rejection feature will not accept a CUBEFuse amp ratings greater than switch rating
- High 200 kA short-circuit current rating
- Disconnect rated to provide means for load isolation
- Full voltage rated at 600 Vac
- UL 98 Listed and suitable for branch circuit disconnect and branch circuit protection with installed fuses
- Horsepower rated (see table below)

Catalog numbers and horsepower ratings

- Standard local open fuse indication light on each pole speeds troubleshooting
- Built-in switch interlock prevents inserting or removing fuse while in the ON position
- Padlockable for lockout/tagout procedures with a 1/4" lock
- Front and side rotary operator accessories provide for throughthe-door and through-the-side operation flexibility and enhanced safety
- Optional pistol handles and shafts available for use with rotary operator accessories
- Multi-wire lug kits with terminal shrouds allow for power distribution to multiple loads.

					Max Hp rating (Va			
Catalog no.	Poles	Description	Volts AC	SCCR	240	480	600	
200 amp switches								
CCP2-1-200CF	1		347		_	_	_	
CCP2-2-200CF	2	Switch only		200 kA	10		_	
CCP2-3-200CF	3		600		50	100	150	

Available lugs, conductor ratings and terminal torques

Catalog no.	Description	Lugs per cat. no.	Wire range AWG (mm²)	Wire type/ temp.	Conductor torque N•m (lb-in)	Lug mounting screw torque N•m (Ib-in)
200 A switche	s					
CCP2-L2-1	Stainless steel lug	1	350-4 (185-25)	Cu 75°C	20.3 (180)	0.9 (8)
CCP2-L2-1A	Aluminum lug*	1	350-4 (185-25)	Cu/Al 75°C	28.2 (250)	13.5 (120)
CCP2-MW2-3	3-port multi-wire terminal with shroud*	3	2-14 (35-2.5)	Cu/Al 75°C	7.9 (70)	10.8 (95)
CCP2-MW2-6	6-port multi-wire terminal with shroud*	3	6-14 (16-2.5)	Cu/Al 75°C	2.8 (25)	10.8 (95)
* These lugs also	accept 1/4" quick connect control wire terminals	. Order catalog	number CCP2-CWK	2 (package of 12 t	terminals).	

Carton quantity

Catalog no.	alog no. Description	
CCP2-L2-1	Stainless steel lug	1
CCP2-L2-1A	Aluminum lug	1
CCP2-MW2-3	3-port multi-wire terminal with shroud	3
CCP2-MW2-6	6-port multi-wire terminal with shroud	3
CCP2-CWK2	1/4" quick connect control wire terminals	12

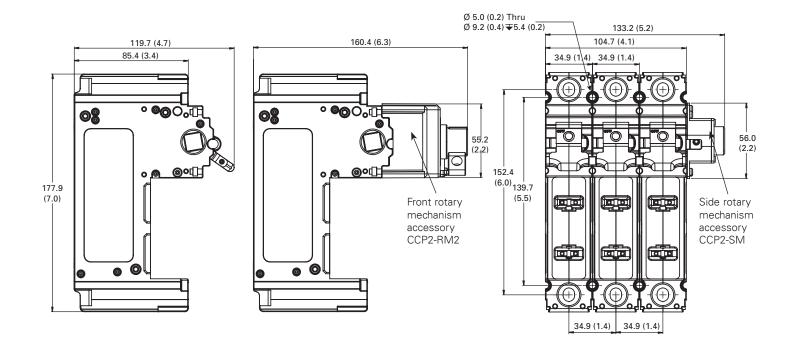
Accessories

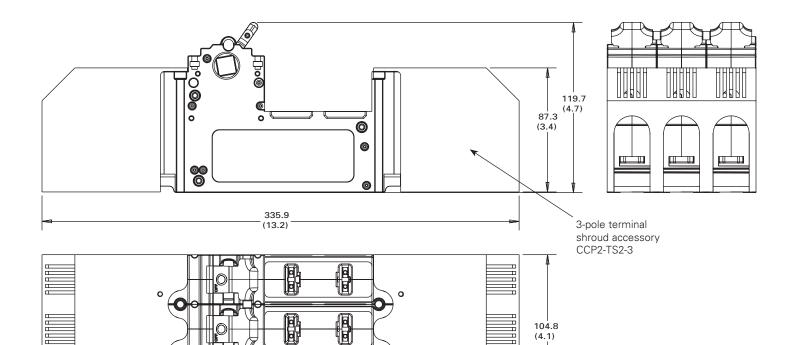
Catalog no.	Switch amps	Description
CCP2-TS2-3		3-pole terminal shroud
CCP2-PB2	200	Phase barriers (pack of 2)
CCP2-RM2	200	Front rotary operator* (3-pole switch only)
CCP2-SM		Side rotary operator* (1-, 2- or 3-pole switches)

* Complete installation requires pistol handle and shaft, order separately.

Technical Data 10801 Effective April 2019

200 amp switch dimensions - mm (in)





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30, 60 and 100 A switch multi-wire lug kits

Catalog numbers

- CCP2-MW1-3 (30 and 60 A switches only)
- CCP2-MW1-6 (100 A switches only)

Description

The multi-wire lug kits permit expanding each box lug terminal on the switch into a three-port (30 and 60 A switches) or six-port (100 A switches) terminal for power distribution applications.

Each multi-wire lug kit comes with three lugs and three terminal shrouds. Shrouds provide finger-safe protection when properly installed.

Lugs may be mounted on either the loadside or lineside to meet various application needs.

Ports on any one lug accept any conductor combination listed, e.g., one of the ports may have dual 14 AWG wires and the other two ports single 10 AWG wires.

Ratings

- Volts 600 V
- Amps
 - 60 A max (CCP2-MW1-3)
 - 100 A max (CCP2-MW1-6)
- SCCR 200 kA

Agency information

- UL Recognized, Guide WHTY2, File E302370
- RoHS compliant

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

Multi-wire lug conductor information

- 75°C Cu/AL
- · AWG size and quantity per port see table below

Туре	AWG range	Class	Quantity	Torque N∙m (lb-in)
4-6		- Stranded, Class B/C	Single	3.95 (35)
Cu/Al	8		Single	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu -	10-14	Solid	Single	2.26 (20)
	8		2.82 (25)	
	10-14	- UL ferrule, Class B to K	Single/twin ⁺	2.26 (20)

* Dual wire to be same size and type.

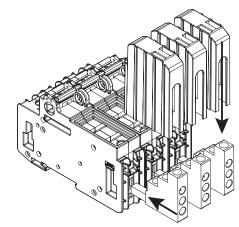
† Two stranded conductors placed in one UL Listed twin ferrule.

- CCP2 box lug torque for multi-wire lugs
- 30/60 A switch lug, 4.52 N•m (40 lb-in)
- 100 A switch lug, 5.09 N•m (45 lb-in)

Carton quantity

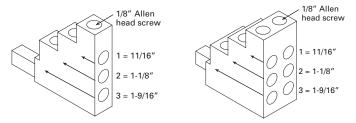
Catalog no.	Application	Qty.
CCP2-MW1-3	For 30/60 A switches only	3 lugs and 3 shrouds
CCP2-MW1-6	For 100 A switches only	shrouds

Installed on CCP2-3-xx



Multi-wire lugs mount in switch box lug terminals to provide three additional wire ports per pole. Lugs can be mounted on the switch lineside or loadside. Each multi-wire lug kit comes with three lugs and three shrouds.

Wire insulation strip lengths



Strip back wire insulation to the lengths as indicated in the illustration above and the table below.

Lug port	Strip wire insulation back (inch)
1	11/16
2	1-1/8
3	1-9/16



Wiring versatility is provided by single/dual rated box lug terminals on the switch, or by the three-port or six-port multi-wire lug kits that are also single/dual wire rated.

Technical Data 10801

Effective April 2019

200 A switch multi-wire lug kits

Catalog numbers

- CCP2-MW2-3 (3-port, 200 A switches only)
- CCP2-MW2-6 (6-port, 200 A switches only)

Description

The multi-wire lug kits permit expanding the terminal on the switch into a three-port (200 A switches) or six-port (200 A switches) terminal for power distribution applications.

Each multi-wire lug kit comes with three lugs and a 3-pole terminal shroud. The shroud provides finger-safe protection when properly installed.

Lugs can only be mounted on loadside to meet application needs.

Ports on any one lug accept any conductor combination listed, e.g., one of the ports may have dual 14 AWG wires and the other two ports single 10 AWG wires.

Ratings

- Volts 600 V
- Amps
 - 225 A max (CCP2-MW2-3 and CCP2-MW2-6)
- SCCR 200 kA

Agency information

- UL Recognized, Guide WHTY2, File E302370
- RoHS compliant

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

Multi-wire lug conductor information

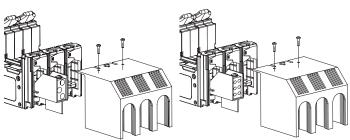
- 75°C Cu/AL
- AWG size and quantity per port

Carton quantity

Catalog no.	Application	Qty.
CCP2-MW2-3	- For 200 A switches only	3 lugs and 1 3
CCP2-MW2-6	- For 200 A Switches only	shroud

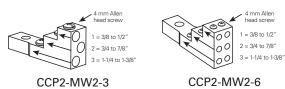
3-pole

Installed on CCP2-3-xx



3- and 6-port multi-wire lugs mounted on 200 A switches

Wire insulation strip lengths



Strip back wire insulation to the lengths indicated in the illustration above and the table below.

	Wire insulation strip length (inch)			
Lug kit	Lug port 1	Lug port 2	Lug port 3	
CCP2-MW2-3	-2/9 + 0.1/2	3/4 to 7/8	1-1/4 to 1-3/8	
CCP2-MW2-6	- 3/8 to 1/2			

Technical Data 10801 Effective April 2019

Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

Selector and pistol handles

Catalog symbol

- CCP2-H4X-_1 (selector handle for 30, 60 and 100 A switches)
- CCP2-H4X-_2 (pistol handle for 30, 60 and 100 A switches)
- CCP2-H4X-_3 (short pistol handle for 200 A switches)
- CCP2-H4X-_4 (long pistol handle for 200 A switches)

Description

Selector and pistol handles are used with rotary operated switches. Pistol handles for 200 A switches come in short and long versions. All handles are available in black/gray and red/yellow colors, and clockwise/counterclockwise operating modes. Front and right side operated switches use clockwise handles while left side operated switches use counterclockwise handles.

Installation requires an 8 mm shaft for 30, 60 and 100 A switches and a 12 mm shaft for 200 A switches (ordered separately).

Each handle is rated Type 1, 4X and 12, and accepts up to three (3) 1/4" diameter shank locks for lockout/tagout in the OFF position. They can also be field configured for lock-on and are defeatable.

Only the clockwise operating handles in combination with front rotary operating switches provide a door interlock means to ensure the enclosure door remains shut during lockout/tagout or lock-on. Rotary handles mounted on the enclosure's left or right side do NOT provide a door interlock means.

See the catalog number table below for applicable rotary switch, handle and shaft combinations.

Handles and shafts for 30, 60 and 100 A switches

Selector handles

Pistol handles -short and long



Agency information

- UL Listed, Guide DIHS/DIHS7, File E140305
- Type 1, 4X and 12
- · RoHS compliant
- CE

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

Carton quantity

Catalog no.	Description	Qty.
CCP2-H4X1	30/60/100 A selector handles	1
CCP2-H4X2	30/60/100 A pistol handles	1
CCP2-H4X3	200 A short pistol handles	1
CCP2-H4X4	200 A long pistol handles	1

For catalog no.	Description/operation	Order handle cat. no.	Order either 8 mm shaft cat. no.
CCP2R-(pole)-30CF			
CCP2R-(pole)-60CF	Right front rotary, clockwise		
CCP2R-(pole)-100CF		— CCP2-H4X-B1 (selector, black/grey)	
CCP2RL-(pole)-30CF		CCP2-H4X-R1(selector, red/yellow)	
CCP2RL-(pole)-60CF	Left front rotary, clockwise		
CCP2RL-(pole)-100CF		CCP2-H4X-B2 (pistol, black/grey) — CCP2-H4X-R2 (pistol, red/yellow)	CCP2-SH1-290 (11.5"/290 mm) CCP2-SH1-490 (19.3"/490 mm)
CCP2S-(pole)-30CF			
CCP2S-(pole)-60CF	Right side rotary, clockwise		
CCP2S-(pole)-100CF			
CCP2SL-(pole)-30CF		CCP2-H4X-B1L (selector, black/grey)	
	Left side rotary,	CCP2-H4X-R1L (selector, red/yellow)	
CCP2SL-(pole)-60CF	counterclockwise	CCP2-H4X-B2L (pistol, black/grey)	
CCP2SL-(pole)-100CF		CCP2-H4X-R2L (pistol, red/yellow)	

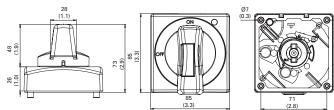
Handles and shafts for 200 A switches

For catalog no.	Order front rotary mechanism cat. no.	Order right/ left side rotary mechanism cat. no.		Order left side counterclockwise handles (use only with CCP2-SM) cat. no.	Order either 12 mm shaft cat. no.
CCP2-(poles)-200CF	CCP2-RM2*	CCP2-SM	CCP2-H4X-B3 (short - black/grey) CCP2-H4X-R3 (short - red/vellow)	CCP2-H4X-B3L (short - black/grey) CCP2-H4X-R3L (short - red/vellow)	CCP2-SH2-225 (8.9"/225 mm)

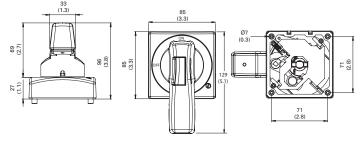
* For three-pole switches only.

Handle dimensions - mm (in)

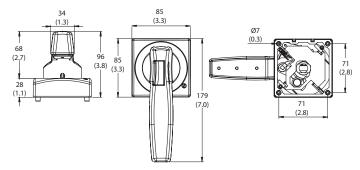
Selector for 8 mm shafts



Short pistol for 8 mm and 12 mm shafts



Long pistol for 12 mm shafts



NFPA 79 compliant handles

Catalog numbers

- CCP2-NFPA-1
 (8 mm shafts for 30-100 A switches)
- CCP2-NFPA-2 (12 mm shafts for 200 and 400 A switches)

Description

NFPA 79 handles mount on the shaft of front rotary operated switch installations and provide a lockout means independent of the door position.

Carton quantity

Catalog no.	Fits shaft size	Qty.
CCP2-NFPA-1	8 mm	1
CCP2-NFPA-2	12 mm	1

Handle shafts



12 mm shafts



Catalog numbers

- CCP2-SH1-290 (8 mm, 290 mm long)
- CCP2-SH1-490 (8 mm, 490 mm long)
- CCP2-SH2-225 (12 mm, 225 mm long)
- CCP2-SH2-425 (12 mm, 425 mm long)

Description

Square shafts available in:

- 8 mm square by 290 and 490 mm lengths for 30, 60 and 100 A switches
- 12 mm square by 225 and 425 mm lengths for 200 A switches

All shafts are indexed to ensure handle/switch orientation for correct operation. Shafts are to be cut to length when installed.

Carton quantity

Catalog no.	Size	Length	Qty.
CCP2-SH1-290	0, 100, 100	290 mm	1
CCP2-SH1-490	– 8 mm	490 mm	1
CCP2-SH2-225	– 12 mm	225 mm	1
CCP2-SH2-425	- 12 mm	425 mm	1

Flange handle rod and cable operators

Catalog no.	Description	Rating		
30, 60 and 100 amp switches				
CCP2-FLR1*	Rod operator with painted handle	Type 1, 3R, 12		
CCP2-FLR1X*	Rod operator with chrome handle	Type 4X		
CCP2-FLC1-36	36" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-36X	36" Cable with chrome handle	Type 4X		
CCP2-FLC1-60	60" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-60X	60" Cable with chrome handle	Type 4X		
CCP2-FLC1-120	120" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-120X	120" Cable with chrome handle	Type 4X		
200 amp switche	200 amp switches			
CCP2-FLR2	Rod operator with painted handle	Type 1, 3R, 12		
CCP2-FLR2X	Rod operator with chrome handle	Type 4X		
CCP2-FLC2-36	36" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC2-36X	36" Cable with chrome handle	Type 4X		
CCP2-FLC2-60	60" Cable with painted handle	1, 3R, 12		
CCP2-FLC2-60X	60" Cable with chrome handle	Type 4X		
CCP2-FLC2-120	120" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC2-120X	120" Cable with chrome handle	Type 4X		

* Installing these flange handle rod operators prohibits also installing a PLC fuse monitor or auxiliary contact.

Description

Flange rod and cable operators for use on 2- and 3-pole CCP2 switches (cannot be used with 2- or 3-pole 30, 60 or 100 amp switches already having a front or side rotary operating mechanism).

Handles are available in painted versions with Type 1, 3R and 12 ratings or chrome versions with a Type 4X rating.

Cable operators are available with 36, 60 and 120 inch cable lengths.

Agency information

- Type 1, 4X and 12
- RoHS compliant

Storage and operating temperature

-20°C to 75°C (-4°F to 167°F)

Packaging

• Each handle is packaged individually as a kit

Carton quantities

Catalog no.	Switch amps/description	Qty.
CCP2-FLR1_	30/60/100 A rod operator	1
CCP2-FLR2_	200 A rod operator	1
CCP2-FLC1-36_	30/60/100 A 36" cable operator	1
CCP2-FLC2-36_	200 A 36" cable operator	1
CCP2-FLC1-60_	30/60/100 A 60" cable operator	1
CCP2-FLC2-60_	200 A 60" cable operator	1
CCP2-FLC1-120_	30/60/100 A 120" cable operator	1
CCP2-FLC2-120_	200 A 120" cable operator	1



Flange rod operator kit for 30, 60 and 100 A switches.



Flange rod operator kit for 200 A switches.



Flange cable operator kit for 30, 60 and 100 A switches.



Flange cable operator kit for 200 A switches.

Technical Data 10801

Effective April 2019

Front rotary mechanisms for 200 A switches





Catalog numbers

CCP2-RM2 (3-pole 200 A switches)

Description

Front rotary mechanisms for through-the-door operation and install on the front of 3-pole switches only. These units provide at-switch lockout/tagout capability for enhanced safety. Complete installation requires installing pistol handle (short or long) and 12 mm shaft.

Packaged individually.

Side rotary mechanism for 200 A switches





Catalog number

- CCP2-SM
 - (1-, 2- or 3-pole 200 A switches)

Description

Side rotary mechanism for through-the-side operation and installs on the left or right side (right side installation recommended) of any 1-, 2- or 3-pole 200 A switch. The side rotary mechanism does not provide for door interlock nor local lockout/tagout capability. Complete installation requires installing pistol handle (short or long) and 12 mm shaft.

Packaged individually.

Terminal shrouds

Catalog numbers

CCP2-TS2-3
 (3-pole 200 A switches)

Description

3-pole shroud kit with shields for isolating the lugs on 3-pole 200 A switches.

Packaged individually.



Phase barriers

Catalog numbers

 CCP2-PB2 (3-pole 200 A switches)

Description

Phase barrier kit with two phase barriers for isolation between the lugs on 3-pole 200 A switches. Packaged individually.

Handle extension





Catalog number

• CCP2-HEX (1-, 2- and 3-pole 200 A switches)

Description

A handle extension to provide additional leverage for operating the switch in installations that do not have rotary mechanisms or flange operators installed. Does not mount on switch, provision for tether provided.

Packaged individually.

Auxiliary contacts for 30, 60 and 100 A switches

Catalog numbers

- CCP2-AUX (30 and 60 A switches)
- CCP2-AUX-100 (100 A switches)

Description

NO+NC contact output to indicate the switching mechanism status on the CCP2. A single unit can be mounted on any 1-, 2- or 3-pole CUBEFuse CCP2 switch and the left front/left side rotary operated switches.



- 240 Vac max
- 5 A max
- NC/NO contacts are closed/open when the CCP2 switch is in the "ON" position (closed)

c RL us

Catalog no.	Switch	Description	Max per CCP2*	Ratings
CCP2-AUX	30/60 A only	Auxiliary contacts - N/NC for switch	1 per CCP2	5 A / 240 Vac
CCP2-AUX-100	100 A only	status	(1-, 2- or 3-pole)	5 A / 240 Vac

* The CCP2-AUX CANNOT be mounted on the right front and right side rotary operated versions, nor installed with the flange handle rod or cable operator. De-energize all circuits and follow all prescribed safety procedures before installing or removing the auxiliary contact device.

Agency information

- UL 98 Recognized, Guide WHTY2, File E155130
- cURus to Canadian Standard 22.2 No. 4-04
- Finger-safe in installed state
- RoHS compliant
- CE

Wiring

- 16-20 AWG (1.5 to 0.5 mm²) single and dual stranded wire
- 20 AWG (1.5 mm²) single and dual solid wire
- Torque 0.56 N•m (5 lb-in)
- Use only 75°C Cu wire

Packaging

• CCP2-AUX and CCP2-AUX-100 are packaged individually

Installation technique

 Mounts on the CCP2's right side ONLY and mechanically interlocks with the CCP2 switch handle with provided hardware. The CCP2-AUX and CCP2-AUX-100 CANNOT be mounted on the right front and right side rotary operated versions, or installed with the flange handle rod or cable operator.

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

Carton quantity and shipping weight

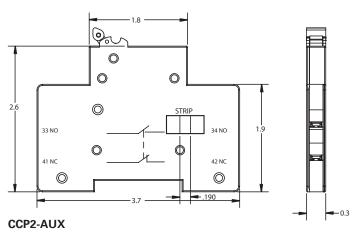
Catalog no.	Application	Qty.	Weight Ib (kg)	
CCP2-AUX	For 30 and 60 A switches only	1	0.14 (0.063)	
CCP2-AUX-100	For 100 A switches only	1	0.14 (0.003)	

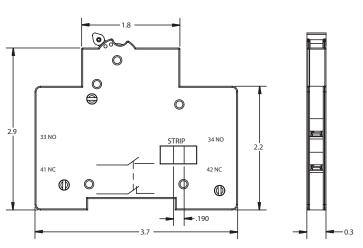
Installed on a CCP2-3-xx

Note: CCP2-AUX and CCP2-AUX-100 **CANNOT** be mounted on the right front and right side rotary operated versions, nor if a flange handle rod or cable operator is installed.











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Auxiliary contacts for 200 A switches

Catalog number

CCP2-AUX-S (200 A switches)

Description

NO+NC contact output to indicate the switching mechanism status on the CCP2. A single unit can be mounted on either side of any 1-, 2- or 3-pole switch (cannot be mounted on the same side as the CCP2-SM side rotary mechanism or the right side if a flange handle rod or cable operator is installed).



Ratings

- 240 Vac max
- 5 A max
- NC/NO contacts are closed/open when the CCP2 switch is in the "ON" position (closed)

Catalog no.	Switch	Description	Max per CCP2*	Ratings
CCP2-AUX-S	200 A	Auxiliary contacts NO+NC for switch status	1 per CCP2 (1-, 2- or 3-pole)	5 A / 240 Vac

 The CCP2-AUX-S CANNOT be mounted on the same side where the side rotary mechanism (CCP2-SM) is installed.
 De-energize all circuits and follow all prescribed safety procedures before installing or removing the auxiliary contact device.

Agency information

- UL 98 Recognized, Guide WHTY2, File E155130
- cURus to Canadian Standard 22.2 No. 4-04
- · Finger-safe in installed state
- RoHS compliant

Wiring

- 16-20 AWG (1.5 to 0.5 mm²) single and dual stranded wire
- 20 AWG (1.5 mm²) single and dual solid wire
- Torque 0.56 N•m (5 lb-in)
- Use only 75°C Cu wire

Installation technique

 Mounts on either side of the 200 A switches and mechanically interlocks with the switch's handle with provided hardware. The CCP2-AUX-S CANNOT be mounted on the same side with an installed CCP2-SM side rotary mechanism, or the flange cable/rod operating mechanisms.

Storage and operating temperature

-20°C to 75°C (-4°F to 167°F)

Packaging

· Packaged individually.

Installed on a CCP2-3-xx

Note: CCP2-AUX-S **CANNOT** be mounted on the same side as the side rotary mechanism CCP2-SM or the right side if a flange handle rod or cable operator is installed.



Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

PLC fuse monitor for 30, 60 and 100 A switches

Catalog numbers

- CCP2-PLC-IND (30/60 A switches)
- CCP2-PLC-100
 (100 A switches)

Description

A resettable three-phase fuse monitor that integrates with the I/O card in a Programmable Logic Controller (PLC). A single unit can be mounted on any 1-, 2- or 3-pole CUBEFuse CCP2 switch up to 100 A and the left front/ left side rotary operated switches.

A single unit monitors up to three phases. When used on 1- and 2-pole switches unused conductor(s) are removed after installation. The CCP2-PLC-IND and CCP2-PLC-100 **CANNOT** be mounted on the left front/left side rotary operated versions or if a multi-wire lug kit is installed, or if the flange handle rod operator is installed.

Ratings

- Signal output to PLC*
 - +24 Vdc, 10 mA max
- Output signals
 - Digital 0 Vdc (low), 24 Vdc max (high)
 - 0 Vdc Low fuse is good
 - 24 Vdc High fuse has opened
- * When the fuse opens, the output signal is sent high and will remain high until the unit is reset.

Emissions and immunity testing

- · IEC 60947-1: Voltage Switchgear and Control Gear
- IEC 61000-6-2: Electromagnetic Compatibility (EMC)
 - IEC 61000-4-2: Electrostatic Discharge Immunity Test at level 3 (6 kV-Contact Discharge) and level 2 (4 kV-Air Discharge)
 - IEC 61000-4-3: Electromagnetic Compatibility Radiated, Radiofrequency, Electromagnetic Field Immunity test at level x (20 V/m)
 - IEC 61000-4-4: Electromagnetic Compatibility Testing and Measurement Techniques at level 3 (± 2kV Power Port and ±1 kV I/O Ports)
 - + IEC 61000-4-5: Electromagnetic Compatibility Surge Immunity test at level 4 (±4 kV)
 - IEC 61000-4-6: Immunity to Conducted Disturbances at level 3 (10 V)

Catalog no.	Switch	Description	Max per CCP2**	Signal output to PLC	Min. circuit volts
CCP2-PLC-IND	30/60 A only	Wired remote fuse indication	1 per CCP2 (1, 2- or	24 Vdc/ 10 mA	100 Vac
CCP2-PLC-100	100 A only	for PLC applications	3-pole)	10 MA	

**The CCP2-PLC-IND and CCP2-PLC-100 CANNOT be mounted on the left front/ left side rotary operated versions, or if a multi-wire lug kit is installed or if the flange handle rod operator is installed.

De-energize all circuits and follow all prescribed safety procedures before installing or removing the CCP2-PLC-IND or CCP2-PLC-100.

Agency information

- UL 98 Recognized, Guide WHTY2, File E155130
- cURus to Canadian Standard 22.2 No. 4-04

Local indication

 Two distinct LEDs indicate unit power (green) and open fuse (red). Open fuse LED is resettable upon fuse replacement and the actuating the reset switch

Wiring

 For power, signal and ground connections use shielded twisted pair 22-24 AWG (0.34-0.25 mm²) 300 V rated wire

Carton quantity and shipping weight

Catalog no.*	Application	Qty.	Weight lb (kg)
CCP2-PLC-IND	30 and 60 A switches only	1	0.17 (0.077)
CCP2-PLC-100	100 A switches only	I	0.17 (0.077)

* Includes 0.110" (2.8 mm) quick connects for power, signal and ground connections.

Installation technique

 Mounts on the left side ONLY of the CCP2 and mechanically interlocks with the CCP2 switch handle with hardware provided. The CCP2-PLC-IND and CCP2-PLC-100 CANNOT be mounted on the left front/left side rotary operated versions, or if a multi-wire lug kit is installed or if the flange handle rod operator is installed.

IP20 rating - yes

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

PLC programming

 The CCP2-PLC-IND or CCP2-PLC-100 signal line is designed to provide a digital input to a PLC I/O card. In this case, a Programmable Logic Control program must be written to properly interpret the input signal to the PLC. The PLC program should check for consecutive high signals before taking action on a critical process.

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Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

Technical Data 10801

Effective April 2019

Installed on a CCP2-3-xx

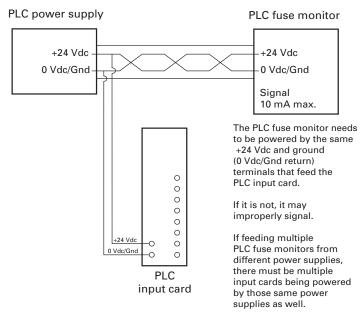


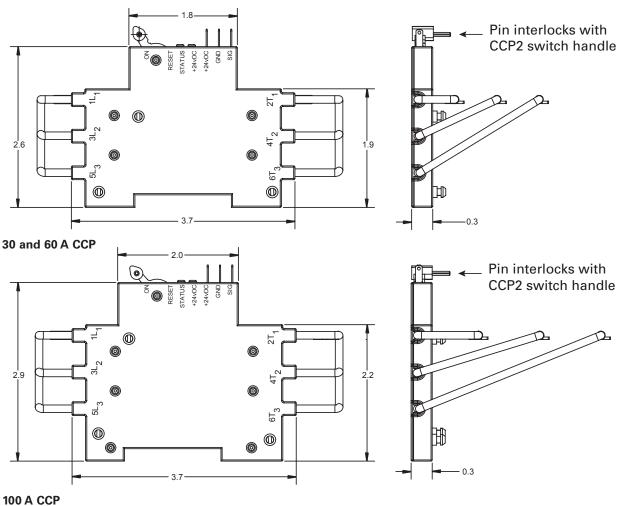
CCP2-PLC-IND mounted on a 3-pole switch and using the fork terminals. When mounted on a 2- or 1-pole switch, remove unused leads.

Note: the CCP2-PLC-IND **CANNOT** be mounted on the left front/left side rotary operated versions or if the multi-wire lug kit is installed or if the flange handle rod operator is installed.

Dimensions - in

PLC wiring schematic





30 and 60 A CCP2 clockwise rotary switches

		Catalog no.	Catalog no.		
		Switches	Amps	Poles	
		Right front rotary			
	Madalan I	CCP2R-2-30CF		2	
		CCP2R-3-30CF	30	3	
		CCP2R-2-60CF		2	
		CCP2R-3-60CF	60	3	
	A STREET BE	Left front rotary			
		CCP2RL-2-30CF		2	
		CCP2RL-3-30CF	- 30	3	
		CCP2RL-2-60CF		2	
		CCP2RL-3-60CF	- 60	3	
	- Stalland	Right side rotary			
		CCP2S-2-30CF	30	2	
		CCP2S-3-30CF		3	
		CCP2S-2-60CF	60	2	
be'		CCP2S-3-60CF	60	3	
Required	FA-H FA-H		And		
Re		Rotary handles	Description	Rating	
		CCP2-H4X-B1	Selector handle — black/grey		
		CCP2-H4X-R1	Selector handle — red/yellow	Туре 1, 4Х, 12	
		CCP2-H4X-B2	Pistol handle — black/grey	Type 1, 47, 12	
		CCP2-H4X-R2	Pistol handle — red/yellow		
	-		And		
		Shafts (8 mm)	Length		
		CCP2-SH1-290	290 mm		
		CCP2-SH1-490	490 mm		
		NFPA 79 compliant handle	Color		
		CCP2-NFPA-1	Red		
			And		
		Multi-wire lug kits	Description		
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, incluc	des terminal shrouds, pack of 3	

			And
		Terminal shrouds	Description
		CCP2-TS1-3	Pack of 3
		Auxiliary contacts	Description — use with CCP2RL-(poles)-30/60CF switches
Accessories		CCP2-AUX	NO/NC, 5 A / 240 V
		PLC fuse monitor	Description — use with CCP2R-(poles)-30/60CF and CCP2S-(poles)-30/60CF switches
	© @ @ .	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA

30 and 60 A CCP2 switches

For a complete assembly, select from the following required and optional components, and accessories.

		Catalog no.		
		Switches	Amps	Poles
Required		Switch (used alone o	or with flange cable or flange rod handles)	
nbe		CCP2-1-30CF		1
Å		CCP2-2-30CF	30	2
	63 63 63	CCP2-3-30CF		3
		CCP2-1-60CF		1
		CCP2-2-60CF	60	2
		CCP2-3-60CF		3
		001200001	And	
		Flange handle rod operator	Description — 3-pole switches only	Rating
		CCP2-FLR1-21	Red/black painted handle	1, 3R and 12
	Bee	CCP2-FLR1-21X	Chrome handle	4X
			Or	
		Flange handle cable operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating
_		CCP2-FLC1-36	36" cable, red/black painted handle	Type 1, 3R, 12
ona		CCP2-FLC1-36X	36" cable, chrome handle	Type 4X
Optional		CCP2-FLC1-60	60" cable, red/black painted handle	Type 1, 3R, 12
0		CCP2-FLC1-60X	60" cable, chrome handle	Type 4X
		CCP2-FLC1-120	120" cable, red/black painted handle	Type 1, 3R, 12
		CCP2-FLC1-120X	120" cable, chrome handle	Type 4X
		Description		
	CCP2-MW1-3 3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pack c			
			And	
		Terminal shrouds	Description	
		CCP2-TS1-3	Pack of 3	
ies		Auxiliary contacts	Description — mounts on right side, cannot be used with flan cable operator	ge handle rod or
Accessories		CCP2-AUX	NO/NC, 5 A / 240 V	
	6 @ *	PLC fuse monitor	Description — mounts on left side, cannot be used with flang operator	e handle rod
	α 2733.m }}????"	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA	

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30 and 60 A CCP2 counterclockwise switches

		Catalog no.		
		Switches	Amps	Poles
		Left side rotary		
	0 · 0	CCP2SL-2-30CF	- 30	2
	1	CCP2SL-3-30CF	- 30	3
		CCP2SL-2-60CF		2
	84 C	CCP2SL-3-60CF	60	3
	FA-N FA-N		And	
		Rotary handles	Description	Rating
þ		CCP2-H4X-B1L	Selector handle — black/grey	
Required	F3.4	CCP2-H4X-R1L	Selector handle — red/yellow	Туре 1, 4Х, 12
		CCP2-H4X-B2L	Pistol handle — black/grey	туре т, 47, тz
		CCP2-H4X-R2L	Pistol handle — red/yellow	
	and the second second		And	
		Shafts (8 mm)	Length	
		CCP2-SH1-290	290 mm	
		CCP2-SH1-490	490 mm	
		NFPA 79 compliant handle	Color	
	V	CCP2-NFPA-1	Red	
		<u> </u>	And	
		Multi-wire lug kits	Description	
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shro	ouds, pack of 3
			And	
		Terminal shrouds	Description	
Accessories		CCP2-TS1-3	Pack of 3	
esse		Auxiliary contacts	Description —mounts on right side	
Acc		CCP2-AUX	NO/NC, 5 A / 240 V	

100 A CCP2 clockwise rotary switches

		Catalog no.	Catalog no.		
		Switches	Amps	Poles	
		Right front rotary		·	
		CCP2R-2-100CF	100 -	2	
		CCP2R-3-100CF	100	3	
	Margaret -	Left front rotary			
		CCP2RL-2-100CF	100	2	
		CCP2RL-3-100CF		3	
	· · · · · · · · · · · · · · · · · · ·	Right side rotary			
		CCP2S-2-100CF	100	2	
Required		CCP2S-3-100CF		3	
equi	F.C.N.		And		
B		Rotary handles	Description	Rating	
		ССР2-Н4Х-В1	Selector handle — black/grey		
		CCP2-H4X-R1	Selector handle — red/yellow	Туре 1, 4Х, 12	
		ССР2-Н4Х-В2	Pistol handle — black/grey		
		CCP2-H4X-R2	Pistol handle — red/yellow		
	and the second s		And		
		Shafts (8 mm)	Length		
		CCP2-SH1-290	290 mm		
		CCP2-SH1-490	490 mm		
		NFPA 79 compliant handle	Color		
		CCP2-NFPA-1	Red		
And		And			
		Multi-wire lug kits	Description		
Optional		CCP2-MW1-6	6-port multi-wire, 75°C Cu/Al, 6-14, incluc	les terminal shrouds, pack of 3	

			And
		Terminal shrouds	Description
Accessories		CCP2-TS1-6	Pack of 3
CCe		Auxiliary contacts	Description — cannot be used on right front or right side operated switches
A		CCP2-AUX-100	NO/NC, 5 A / 240 V
	711	PLC fuse monitor	Description — Cannot be used on left front or left side operated switches
	a a e = = = = = = = = = = =	CCP2-PLC-100	Signal output 24 Vdc / 10 mA

100 A CCP2 switches

	Catalog no.								
		Switches	Amps	Poles					
σ		Switch (used alone of	e or with flange cable or flange rod handles)						
Required		CCP2-1-100CF		1					
		CCP2-2-100CF	100	2					
		CCP2-3-100CF		3					
	And								
		Flange handle rod operator	Description — 3-pole switches only	Rating					
		CCP2-FLR1-21	Red/black painted handle	1, 3R and 12					
		CCP2-FLR1-21X	Chrome handle	4X					
			Or						
		Flange handle cable operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating					
		CCP2-FLC1-36	36" cable, red/black painted handle	Type 1, 3R, 12					
nal		CCP2-FLC1-36X	36" cable, chrome handle	Type 4X					
Optional		CCP2-FLC1-60	60" cable, red/black painted handle	Type 1, 3R, 12					
ō		CCP2-FLC1-60X	60" cable, chrome handle	Type 4X					
		CCP2-FLC1-120	120" cable, red/black painted handle	Type 1, 3R, 12					
		CCP2-FLC1-120X	120" cable, chrome handle	Type 4X					
	The work	Multi-wire lug kits	Description						
		CCP2-MW1-6	6-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pac	k of 3					
	1		And						
		Terminal shrouds	Description						
		CCP2-TS1-6	Pack of 3						
		Auxiliary contacts	Description — mounts on right side, cannot be used with flan cable operator	ge handle rod or					
Accessories		CCP2-AUX-100	NO/NC, 5 A / 240 V						
	111	PLC fuse monitor	Description — mounts on left side, cannot be used with flang operator	e handle rod					
	e e c 731 m 3335 " c a e	CCP2-PLC-100	Signal output 24 Vdc / 10 mA						

100 A CCP2 counterclockwise switches

		Catalog no.					
		Switches	Amps	Poles			
		Left side rotary					
		CCP2SL-2-100CF	100	2			
		CCP2SL-3-100CF		3			
	F.54	And					
		Rotary handles	Description	Rating			
-		CCP2-H4X-B1L	Selector handle — black/grey				
<mark>Required</mark>		CCP2-H4X-R1L	Selector handle — red/yellow	Туре 1, 4Х, 12			
æ		CCP2-H4X-B2L	Pistol handle — black/grey	1,001,00,12			
		CCP2-H4X-R2L	Pistol handle — red/yellow				
	and the second s		And				
		Shafts (8 mm)	Length				
	1	CCP2-SH1-290	290 mm				
		CCP2-SH1-490	490 mm				
		NFPA 79 compliant handle	Color				
		CCP2-NFPA-1	Red				
			And				
		Multi-wire lug kits	Description				
Territor CCP2-MW1-6 6-port multi-wire, 75°C Cu/Al, 6-14, includes terminal				es terminal shrouds, pack of 3			
		And					
		Terminal shrouds	Description				
Accessories		CCP2-TS1-6	Pack of 3				
ces		Auxiliary contacts	Description — mounts on right side				
Act		CCP2-AUX-100	NO/NC, 5 A / 240 V				
	l	1	1				

200 A CCP2 switches

		Catalog no.					
		Switches Amps Poles					
Required		CCP2-1-200CF		1			
		CCP2-2-200CF	200	2			
		CCP2-3-200CF		3			
			And				
		Lug kits Description					
		CCP2-L2-1	Stainless steel lug, 75° Cu only, 350 kcmil-4, 1 per pack				
	1	CCP2-L2-1A	Aluminum lug, 75°C Cu/Al, 350 kcmil-4, 1 per pack				
	S	CCP2-MW2-3	3-port multi-wire lug, 75°C Cu/Al, 2-14, 3 per pack, includes terminal shroud				
	0	CCP2-MW2-6	6-port multi-wire lug, 75°C Cu/Al, 6-14	, 3 per pack, includes termina	l shroud		
			And				
		Rotary mechanisms	Description				
-		CCP2-SM	Side rotary mechanism - mounts on left or right side of 1-, 2- and 3-pole switches				
	ET-N	CCP2-RM2	Front rotary mechanism - mounts only on 3-pole switches, requires clockwise rotating handle				
		And					
	54						
		Rotary handles	Description	Rotation - must match switch rotation	Rating		
		Rotary handles CCP2-H4X-B3	Description Short pistol handle — black/grey		Rating		
		-		switch rotation Clockwise For use with front rotary	Rating		
Inal		ССР2-Н4Х-ВЗ	Short pistol handle — black/grey	switch rotation Clockwise For use with front rotary mechanism or side rotary	Rating		
ptional		CCP2-H4X-B3 CCP2-H4X-R3	Short pistol handle — black/grey Short pistol handle — red/yellow	switch rotation Clockwise For use with front rotary			
Uptional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on			
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side			
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-B3L	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow Short pistol handle — black/grey	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-	Rating		
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-R3L CCP2-H4X-R3L	Short pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — black/greyLong pistol handle — red/yellowShort pistol handle — black/greyShort pistol handle — red/yellow	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side	_		
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-B3L CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-B4L	Short pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — black/greyLong pistol handle — red/yellowShort pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — black/grey	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-SM on the switch's left	_		
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-B3L CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-B4L	Short pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — black/greyLong pistol handle — red/yellowShort pistol handle — black/greyShort pistol handle — red/yellowLong pistol handle — red/yellowLong pistol handle — black/greyLong pistol handle — red/yellowLong pistol handle — black/greyLong pistol handle — black/greyLong pistol handle — red/yellow	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-SM on the switch's left			
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-R4L	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow And	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-SM on the switch's left			
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-R4 CCP2-H4X-R4 CCP2-H4X-B3L CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-R4L Shafts (12 mm)	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow And Length	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-SM on the switch's left			
Optional		CCP2-H4X-B3 CCP2-H4X-R3 CCP2-H4X-B4 CCP2-H4X-R4 CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-R3L CCP2-H4X-R4L Shafts (12 mm) CCP2-SH2-225	Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — black/grey Long pistol handle — red/yellow Short pistol handle — black/grey Short pistol handle — red/yellow Long pistol handle — red/yellow Lang pistol handle — red/yellow 225 mm	switch rotation Clockwise For use with front rotary mechanism or side rotary mechanism CCP2-SM on the switch's right side Counterclockwise Use only if installing side rotary mechanism CCP2-SM on the switch's left			

		Or				
		Flange handle rod operator	Description — 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating		
		CCP2-FLR2-21	Red/black, painted handle	Type 1, 3R and 12		
		CCP2-FLR2-21X	Chrome handle	Type 4X		
-		Or				
Optional		Flange handle cable operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating		
		CCP2-FLC2-36	36" cable, red/black painted handle	Type 1, 3R and 12		
		CCP2-FLC2-36X	36" cable, chrome handle	Type 4X		
		CCP2-FLC2-60	60" cable, red/black painted handle	Type 1, 3R and 12		
		CCP2-FLC2-60X	60" cable, chrome handle	Type 4X		
		CCP2-FLC2-120	120" cable, red/black painted handle	Type 1, 3R and 12		
		CCP2-FLC2-120X	120" cable, chrome handle	Type 4X		
			And			
		Terminal shrouds	Des	scription		
		CCP2-TS2-3	3-pole terminal shroud with phase shields, 1 per pack			
		Phase barriers	Description			
		CCP2-PB2	Phase barriers, 2 per pack			
			And	And		
		Control wire terminals	Description			
Accessories		CCP2-CWK2	1/4" quick-connect control wire terminals - mounts on installed lug (cannot be used with lug CCP2-L2-1), 12 per pack			
Acce		Auxiliary contacts	Description			
		CCP2-AUX-S	NO/NC, 5 A, 240 V - Can be mounted on right or left side			
		Handle extension	Description			
	<u> </u>	CCP2-HEX	Handle extension to facilitate operating 1-, 2 and 3-pole switches. Cannot be user when side or front rotary mechanisms or flange handle rod or cable operators are installed.			

Motor sizing table (from NEC Tables 430.248 and 430.250) Bussmann series TCF Low-Peak time-delay Class CF fuses

Voltage	Motor size (Hp)	Motor FLA (amps)	Min (amps)	NEC code max (amps)	Heavy start* (amps)
	1/6	4.4	10	10	10
	1/4	5.8	10	15	15
	1/3	7.2	15	15	15
	1/2	9.8	15	20	20
	3/4	13.8	25	25	30
115 Vac,	1	16	25	30	35
1-phase	1-1/2	20	30	35	45
	2	24	40	45	50
	3	34	50	60	70
	5**	56	90	100	125
	7-1/2	80	125	150	175
	10	100	150	175	225
	1/6	2.2	6	6	6
	1/4	2.9	6	6	6
	1/3	3.6	6	10	10
	1/2	4.9	10	10	10
	3/4	6.9	15	15	15
230 Vac,	1	8	15	15	17.5
1-phase	1-1/2	10	15	20	20
	2	12	20	25	25
	3	17	25	30	35
	5	28	45	50	60
	7-1/2	40	60	70	90
	10**	50	80	90	110
	1/2	2.5	6	6	6
	3/4	3.7	6	10	10
	1	4.8	10	10	10
	1-1/2	6.9	15	15	15
	2	7.8	15	15	17.5
200 Vac, 3-phase	3	11	17.5	20	20
o-hildse	5	17.5	30	35	35
	7-1/2	25.3	40	45	50
	20**	62.1	100	110	125
	25	78.2	125	150	175
	30	92	150	175	200

Note: Use NEC code max column for low to moderate reverse/jog/ plug applications.

Heavy Start permitted only if NEC code max does not allow motor start-up.
 **If equipment terminations are rated for 60°C conductors only, the 60°C conductor ampacities must be utilized and therefore larger conductor sizes or conduit sizes may be required.

	Motor size	Motor FLA	Min	NEC code max	Heavy start*
Voltage	(Hp)	(amps)	(amps)	(amps)	(amps)
	1/2	2.4	6	6	6
	3/4	3.5	6	10	10
	1	4.6	10	10	10
	1-1/2	6.6	10	15	15
	2	7.5	15	15	15
208 Vac,	3	10.6	17.5	20	20
3-phase	5	16.7	25	30	35
	7-1/2	24.2	40	45	50
	20**	59.4	90	110	125
	25	74.8	125	150	150
	30	88	150	175	175
	40	114	175	200	250
	1/2	2.2	6	6	6
	3/4	3.2	6	6	6
	1	4.2	10	10	10
	1-1/2	6	10	15	15
	2	6.8	15	15	15
230 Vac,	3	9.6	15	20	20
3-phase	5	15.2	25	30	30
	7-1/2	22	35	40	45
	20**	54	90	100	110
	25	68	110	125	150
	30	80	125	150	175
	40	104	175	200	225
	1/2	1.1	3	3	3
	3/4	1.6	3	3	3
	1	2.1	6	6	6
	1-1/2	3	6	6	6
	2	3.4	6	6	6
	3	4.8	10	10	10
460 Vac,	5	7.6	15	15	15
3-phase	7-1/2	11	17.5	20	20
	10	14	25	25	30
	15	21	35	40	45
	20	27	40	50	60
	50**	65	100	125	125
	60	77	125	150	150
	75	96	150	175	200

Note: Use NEC code max column for low to moderate reverse/jog/ plug applications.

* Heavy Start permitted only if NEC code max does not allow motor start-up.
**If equipment terminations are rated for 60°C conductors only, the 60°C conductor ampacities must be utilized and therefore larger conductor sizes or conduit sizes may be required.

Compact Circuit Protector (CCP2) UL 98 Class CF disconnect switches up to 200 A

Motor sizing table (from NEC Tables 430.248 and 430.250)

Bussmann series TCF Low-Peak time-delay Class CF fuses

Voltage	Motor size (Hp)	Motor FLA (amps)	Min (amps)	NEC code max (amps)	Heavy start* (amps)
	1/2	0.9	3	3	3
	3/4	1.3	3	3	3
	1	1.7	3	3	3
	1-1/2	2.4	6	6	6
	2	2.7	6	6	6
	3	3.9	6	10	10
575 Vac,	5	6.1	10	15	15
3-phase	7-1/2	9	15	20	20
	10	11	17.5	20	20
	40**	41	70	80	80
	50	52	80	100	110
	60	62	100	110	125
	75	77	125	150	150
	100	99	150	175	200

Note: Use NEC code max column for low to moderate reverse/jog/ plug applications.

* Heavy Start permitted only if NEC code max does not allow motor start-up.
 **If equipment terminations are rated for 60°C conductors only, the 60°C conductor ampacities must be utilized and therefore larger conductor sizes or conduit sizes may be required.

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