The power of space

The Bussmann™ series Compact Circuit Protector for Class CF CUBEFuse™

delivers the smallest footprint compared to any Class J disconnect solution requiring up to 51% less space.



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Compact Circuit Protector

UL 98 Class CF disconnect switches from 30 to 400 A





CCP2 switch up to 100 A with and without rotary operation mechanisms







200 A CCP2 switch with and without rotary operation mechanisms







400 A CCP2 switch with and without rotary operation mechanisms

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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
- · 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

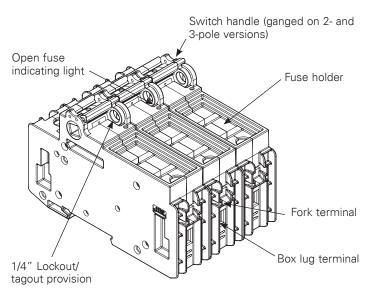
Accessories

- 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



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 frontUses clockwise handles



Right frontUses clockwise handles



Left sideUses counterclockwise handles



Right sideUses clockwise handles



30, 60 and 100 A switch catalog numbers

					Ma	x Hp 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	Dight front votory, plackaging	600 Vac/125 Vdc	-	_	3	_	_
CCP2R-3-30CF	3	- Right front rotary, clockwise	600 Vac	- - 200 kA AC	_	5	15	10
CCP2RL-2-30CF	2	Left front votory, clockwise	600 Vac/125 Vdc		_	3	_	_
CCP2RL-3-30CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC	_	5	15	10
CCP2S-2-30CF	2	Dieht eide getem electrice	600 Vac/125 Vdc	_	_	3	_	_
CCP2S-3-30CF	3	- Right side rotary, clockwise	600 Vac	-	_	5	15	10
CCP2SL-2-30CF	2	Left aids retery sountareles/avise	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*	- - - 200 kA AC - 100 kA DC	_	7-1/2	_	_
CCP2-3-60CF	3	_	600 Vac		_	7-1/2	20	10
CCP2R-2-60CF	2	Pight front rotory, clockwing	600 Vac/125 Vdc*		_	7-1/2	_	_
CCP2R-3-60CF	3	- Right front rotary, clockwise	600 Vac		_	7-1/2	20	10
CCP2RL-2-60CF	2	Left front rotory, clockwise	600 Vac/125 Vdc*		_	7-1/2	_	_
CCP2RL-3-60CF	3	- Left front rotary, clockwise	600 Vac		_	7-1/2	20	10
CCP2S-2-60CF	2	Dight aids retery alsolation	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	Left aide retery, counterpleakwing	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	- Pight front rotory, clockwing	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	- Loft front rotory, clockwing	600 Vac/125 Vdc**			10	_	_
CCP2RL-3-100CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC	\equiv	20	50	40
CCP2S-2-100CF	2	- Right side retary electronics	600 Vac/125 Vdc**	_		10	_	_
CCP2S-3-100CF	3	- Right side rotary, clockwise	600 Vac	_		20	50	40
CCP2SL-2-100CF	2	- Left side retery counterplankwise	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.



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	Sirigle	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	3.39 (30)
	6-18	Class B/C	Twin [†]	3.39 (30)
	4-18	Stranded, UL ferrule,	Single	2 92 (25)
	6-18	Class K	Twin [†]	2.82 (25)
100 A sw	itches			
	12-18			2.26 (20)
	10	- - Stranded, Class B/C	Single	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		Single	2.26 (20)
	10			3.95 (35)
75°C Cu	1-8	Stranded, UL ferrule, Class B/C		4.52 (40)
75°C Cu	10-18	2 0.000 2,0	Turin+	2.26 (20)
	6-9	-	Twin†	2.82 (25)
	10-18	Solid	Single/Dual	2.26 (20)
	8-18		C:I-	2.26 (20)
	1-7	Class K	Single	3.39 (30)
	3-10	-	Dual	5.08 (45)
	8-18		Cinala	2.26 (20)
	1-7	Class K, UL ferrule	Single	3.39 (30)
	6-18	-	Twin	2.26 (20)

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

Lineside and loadside fork terminal

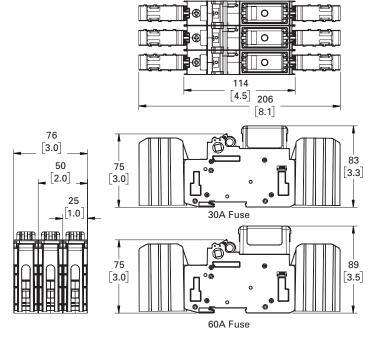
- Fork terminal suitable for line, load or accessory connection, max.
 30 A suitable for use with:
 - 10-24 screw for 30 and 60 A switches
 - 1/4-28 screw for 100 A switches

Available Bussmann series fuses

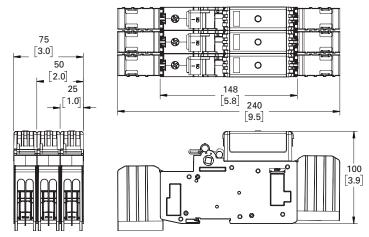
UL fuse class	Type/description	Volts	Data sheet no.	
CF	Indicating time-delay, Low-Peak™ CUBEFuse (6-100 A)	600 Vac/	0000	
	Non-indicating time-delay, Low-Peak CUBEFuse (1-100 A)	300 Vdc	9000	
	Non-indicating fast-acting CUBEFuse (1-100 A)	600 Vac/dc	2147	

Dimensions - mm (in)

Switch (shown with optional terminal shrouds)



30 and 60 amp switches

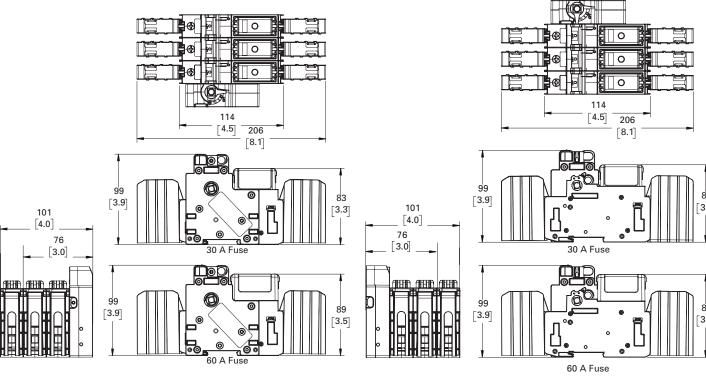


100 amp switches

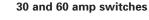


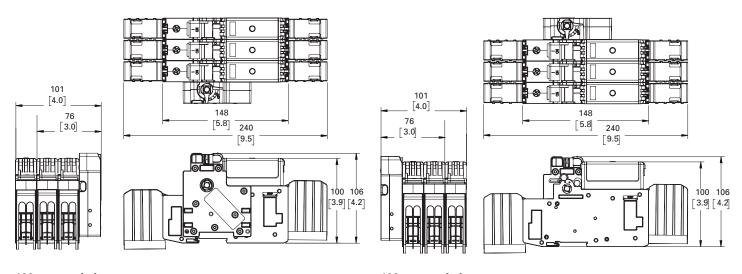
Left front rotary switches (shown with optional terminal shrouds)

Right front rotary switches (shown with optional terminal shrouds)







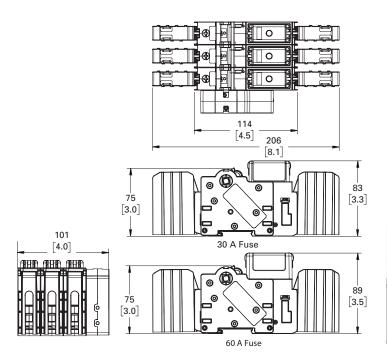


100 amp switches

100 amp switches

Left side rotary switches (shown with optional terminal shrouds)

Right side rotary switches (shown with optional terminal shrouds)



101 [4.0] 76 [3.0] 76 [3.0] 76 [3.0] 75 [3.0] 75 [3.0] 76 [3.0] 75 [3.0] 75 [3.0] 75 [3.0] 75 [3.0]

30 and 60 amp switches

148 [5.8] 240 [9.5]

101 [4.0]

76

[3.0]

148

[5.8]

240

[9.5]

100 amp switches

101 [4.0]

76

[3.0]

100 amp switches

30 and 60 amp switches



200 and 400 A switches









With front rotary accessory

With side rotary accessory

Catalog no.	Poles	Amps	Description
CCP2-1-200CF	1		
CCP2-2-200CF	2	200	
CCP2-3-200CF	3	_	Christop and
CCP2-1-400CF	1		— Switch only
CCP2-2-400CF	2	400	
CCP2-3-400CF	3	_	

Description

The Bussmann series 200 and 400 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 and 400 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
 - 400 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)
- 400 A switch 24 x 16 x 8 (610 x 405 x 200 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



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)

- 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
- 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.

Catalog numbers and horsepower ratings

					IV	lax Hp rating (Vac	c)
Catalog no.	Poles	Description	Volts AC	SCCR	240	480	600
200 amp switches							
CCP2-1-200CF	1	Switch only	347		_	_	_
CCP2-2-200CF	2			200 kA	10	_	_
CCP2-3-200CF	3		600	_	50	100	150
400 amp switches							
CCP2-1-400CF	1		347		_	_	_
CCP2-2-400CF	2	Switch only	600	200 kA	_	_	_
CCP2-3-400CF	3	_	600	_	100	200	250

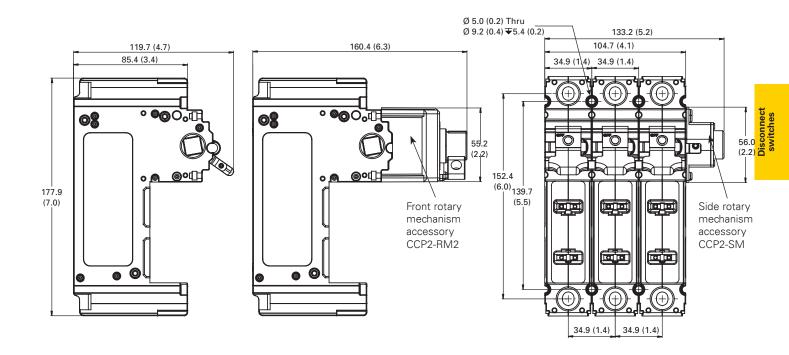
Catalog no.	Description	Lugs per cat. no.	Wire range AWG (mm²)	Wire type/ temp.	Conductor torque N•m (lb-in)	Lug mounting screw torque N·m (Ib-in)
200 A switche	s					
CCP2-L2-1	Stainless steel lug	1	350-4 (185-25)	Cu 75°C	20.3 (180)	0.9 (8)
CCP2-L2-1A	Aluminum lug*	1	350-4 (185-25)	Cu/Al 75°C	28.2 (250)	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 catalo	og number CCP2-CWK2	(package of 12	terminals).	
400 A Switche	es					
CCP2-L4-1	Stainless steel lug	1	500-3 (240-35)	Cu 75°C	42.0 (375)	
CCP2-L4-1A	Aluminum lug	1	500-3 (240-35)	Cu/Al 75°C	42.0 (375)	
CCP2-L4B-3	Stainless steel lug kit with shroud	3	750-500 (400-240)	Cu 75°C	57.0 (500)	
CCP2-L4B-3A	Aluminum lug kit with shroud	3	750-500 (400-240)	Cu/Al 75°C	62.0 (550)	
CCP2-L6-3	2-port stainless steel lug kit with shroud	3	(2) 500-2 (240-35)	Cu 75°C	42.0 (375)	
CCP2-L6-3A	2-port aluminum lug kit with shroud	3	(2) 500-2 (240-25)	Cu/Al 75°C	42.0 (375)	22.0 (200)
					10-14 = 3.9 (35)	
	6 part resultivities to regional with abroad	3	1/0 14 /50 2 5)	Cu/Al 75°C	8 = 4.5 (40)	•
CCP2-MW6-6	6-port multi-wire terminal with shroud		1/0-14 (50-2.5)	Cu/Ai /5°C	4-6 = 5.0 (45	•
					1/0-2 = 5.6 (50)	

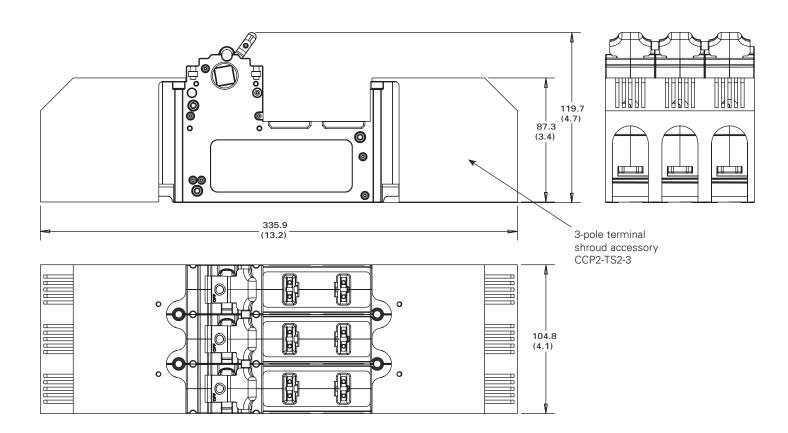
Accessories

Catalog no.	Switch amps	Description
CCP2-TS2-3		3-pole terminal shroud
CCP2-PB2	200	Phase barriers (pack of 2)
CCP2-RM2		Front rotary operator* (3-pole switch only)
CCP2-TS6-3		3-pole terminal shroud
CCP2-PB6	400	Phase barriers (pack of 2)
CCP2-RM4		Front rotary operator* (3-pole switch only)
CCP2-SM	200/400	Side rotary operator* (1-, 2- or 3-pole switches)

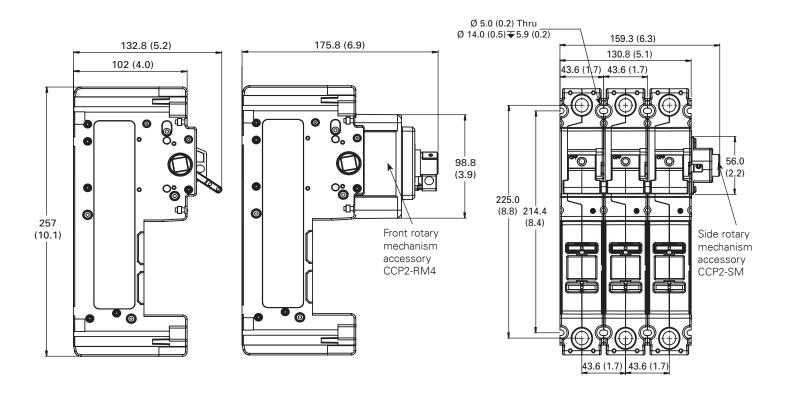
^{*} Complete installation requires pistol handle and shaft, order separately.

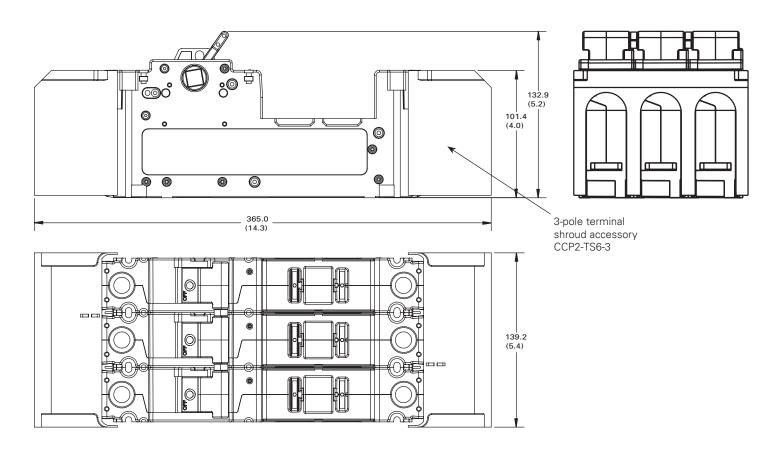
200 amp switch dimensions - mm (in)





400 amp switch dimensions - mm (in)







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

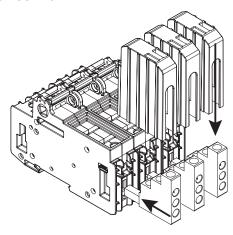
Туре	AWG range	Class	Quantity	Torque N•m (lb-in)
Cu/Al	4-6	- Strandad Class B/C	Cinalo	3.95 (35)
Cu/Al —	8	- Stranded, Class B/C	Single	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu	10-14	Solid	Single	2.26 (20)
Cu -	8	III formula Class P to V	Cinala/turint	2.82 (25)
	10-14	- UL ferrule, Class B to K	Single/twin [†]	2.26 (20)

^{*} Dual wire to be same size and type.

CCP2 box lug torque for multi-wire lugs

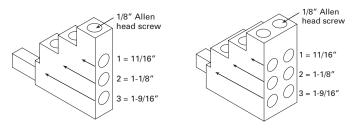
- 30/60 A switch lug, 4.52 N•m (40 lb-in)
- 100 A switch lug, 5.09 N•m (45 lb-in)

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.

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



200 and 400 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)
- CCP2-MW6-6 (6-port, 400 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 and 400 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)
 - 600 A max (CCP2-MW6-6)
- 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)

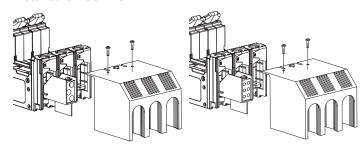
Multi-wire lug conductor information

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

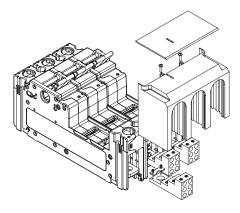
Туре	AWG range	Class	Quantity	Torque N•m (lb-in)
Cu/Al	4-6	- Stranded, Class B/C	Single	3.95 (35)
Cu/Ai -	8	Stranded, Class D/C	Sirigle	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu	10-14	Solid	Single	2.26 (20)
Cu -	8	- UL ferrule, Class B to K	Single/twin [†]	2.82 (25)
	10-14	- OL lenule, Class B to K	Sirigle/twin	2.26 (20)

^{*} Dual wire to be same size and type.

Installed on CCP2-3-xx



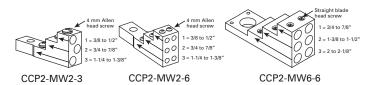
3- and 6-port multi-wire lugs mounted on 200 A switches



6-port multi-wire lugs mounted on 400 A switches

Multi-wire lugs mount on the switch terminals to provide three or six additional wire ports per pole. Lugs to be mounted only on the loadside. Each multi-wire lug kit comes with three lugs, a shroud and mounting hardware.

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	2/0 to 1/2	2/4 to 7/0	1 1/4 to 1 2/0		
CCP2-MW2-6	- 3/8 to 1/2	3/4 to 7/8	1-1/4 to 1-3/8		
CCP2-MW6-6	3/4 to 7/8	1-3/8 to 1-1/2	2 to 2-1/8		

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



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 and 400 A switches)
- CCP2-H4X-_4 (long pistol handle for 200 and 400 A switches)

Description

Selector and pistol handles are used with rotary operated switches. Pistol handles for 200 and 400 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 and 400 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.

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)

Handles and shafts for 30, 60 and 100 A switches

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		Left front rotary, clockwise CCP2-H4X-R1(selector, red/yellow) CCP2-H4X-B2 (pistol, black/grey) CCP2-H4X-R2 (pistol, red/yellow)	
CCP2RL-(pole)-60CF	Left front rotary, clockwise		
CCP2RL-(pole)-100CF			
CCP2S-(pole)-30CF			CCP2-SH1-290 (11.5"/290 mm)
CCP2S-(pole)-60CF	Right side rotary, clockwise		CCP2-SH1-490 (19.3"/490 mm)
CCP2S-(pole)-100CF			
CCP2SL-(pole)-30CF		CCP2-H4X-B1L (selector, black/grey)	
CCP2SL-(pole)-60CF	Left side rotary,	CCP2-H4X-R1L (selector, red/yellow)	
	counterclockwise	CCP2-H4X-B2L (pistol, black/grey)	
CCP2SL-(pole)-100CF	_	CCP2-H4X-R2L (pistol, red/yellow)	

Handles and shafts for 200 and 400 A switches

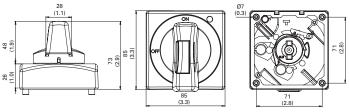
For catalog no.	Order front rotary mechanism cat. no.	Order right/ left side rotary mechanism cat. no.	Order front/right side clockwise handle cat. no.	Order left side counterclockwise handles (use only with CCP2-SM) cat. no.	Order either 12 mm shaft cat. no.
CCP2-(poles)-200CF	CCP2-RM2*		CCP2-H4X-B3 (short - black/grey) CCP2-H4X-R3 (short - red/yellow)	CCP2-H4X-B3L (short - black/grey) CCP2-H4X-R3L (short - red/yellow)	CCP2-SH2-225 (8.9"/225 mm)
CCP2-(poles)-400CF	CCP2-RM4*	CCP2-SM	CCP2-H4X-B4 (long - black/grey) CCP2-H4X-R4 (long - red/yellow)	CCP2-H4X-B4L (long - black/grey) CCP2-H4X-R4L (long - red/yellow)	CCP2-SH2-425 (16.7"/425 mm)

^{*} For three-pole switches only.

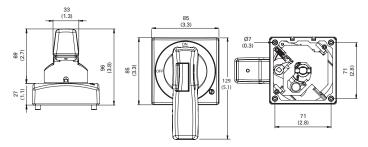


Handle dimensions — mm (in)

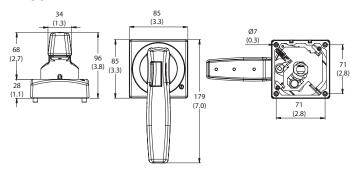
Selector for 8 mm shafts



Short pistol for 8 mm and 12 mm shafts



Long pistol for 12 mm shafts



Handle shafts

8 mm 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 and 400 A switches

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

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.





Flange handle rod and cable operators

Catalog no.	Description	Rating
30, 60 and 100 ar		
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 and 400 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

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).

Type 4X

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

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

CCP2-FLC2-120X 120" Cable with chrome handle

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



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



Flange rod operator kit for 200 and 400 A switches.



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



Flange cable operator kit for 200 and 400 A switches.



Front rotary mechanisms for 200 and 400 A switches





Catalog numbers

- CCP2-RM2 (3-pole 200 A switches)
- CCP2-RM4 (3-pole 400 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 and 400 A switches





Catalog number

 CCP2-SM (1-, 2- or 3-pole 200 and 400 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 and 400 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)
- CCP2-TS6-3 (3-pole 400 A switches)

Description

3-pole shroud kit with shields for isolating the lugs on 3-pole 200 and 400 A switches.

Packaged individually.



Catalog numbers

- CCP2-PB2 (3-pole 200 A switches)
- CCP2-PB6 (3-pole 400 A switches)

Description

Phase barrier kit with two phase barriers for isolation between the lugs on 3-pole 200 and 400 A switches.

Packaged individually.

Handle extension



Catalog number

 CCP2-HEX (1-, 2- and 3-pole 200 and 400 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.

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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	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, nor installed with the flange handle rod or cable operator.

Storage and operating temperature

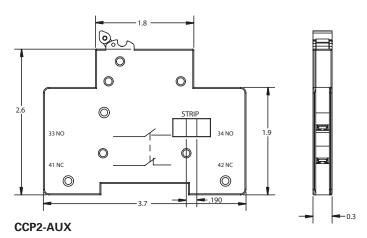
-20°C to 75°C (-4°F to 167°F)

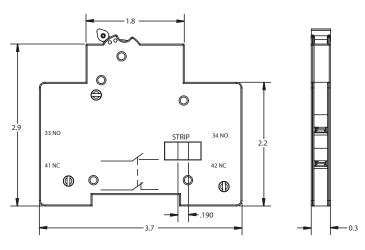
Installed on a CCP2-3-xx

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



Dimensions — in





CCP2-AUX-100



Auxiliary contacts for 200 and 400 A switches

Catalog number

CCP2-AUX-S (200 and 400 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 and 400 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 and 400 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.





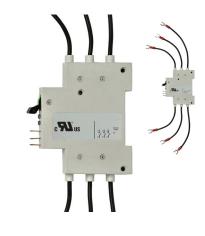
PLC fuse monitor for 30, 60 and 100 A switches

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 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
 - 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 for PLC applications	1 per CCP2 (1, 2- or	24 Vdc/ 10 mA	100 Vac
CCP2-PLC-100	100 A only		3-pole)	TOTTIA	

^{**}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.

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

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.

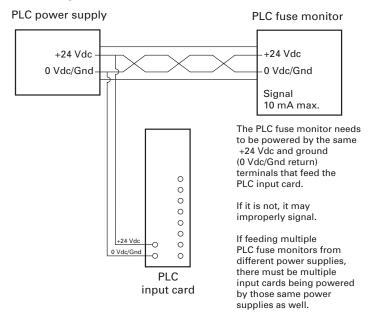
Installed on a CCP2-3-xx



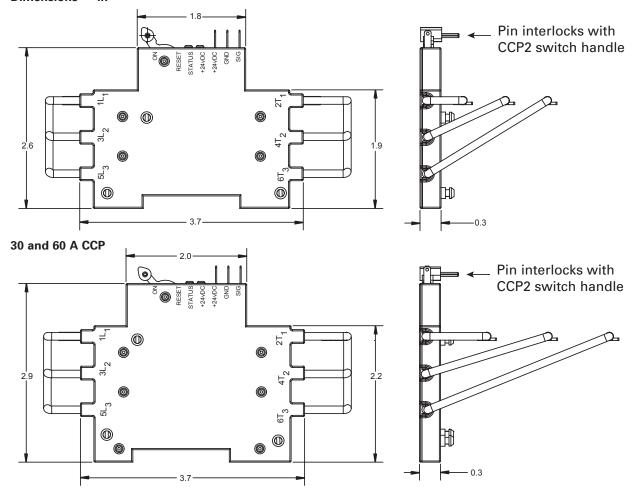
CCP2-PLC-IND mounted on a 3-pole switch and using the fork terminals. When mounted on a 2- or 1-pole switch, remove unused leads.

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.

PLC wiring schematic



Dimensions — in





30 and 60 A CCP2 switches

	,,		required and optional components, and accessories.			
		Catalog no. Switches	Amps	Poles		
red			or with flange cable or flange rod handles)	roles		
Required		CCP2-1-30CF		1		
Re		CCP2-2-30CF	30	2		
	90 90	CCP2-3-30CF	-	3		
		CCP2-1-60CF		1		
		CCP2-2-60CF	60	2		
		CCP2-3-60CF	-	3		
		001200001	And			
	= 4	Flange handle rod operator	Description — 3-pole switches only	Rating		
	CA FOR	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		
Optional		CCP2-FLC1-36X	36" cable, chrome handle	Type 4X		
		CCP2-FLC1-60	60" cable, red/black painted handle	Type 1, 3R, 12		
		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		
		Multi-wire lug kits Description				
		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pack	c of 3		
			And			
		Terminal shrouds	Description			
		CCP2-TS1-3	Pack of 3			
ries		Auxiliary contacts	Description — mounts on right side, cannot be used with flang cable operator	ge handle rod or		
Accessories	- Alm	CCP2-AUX	NO/NC, 5 A / 240 V			
		PLC fuse monitor	Description — mounts on left side, cannot be used with flange operator	e handle rod		
	.70. ,,,,,,	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA			



30 and 60 A CCP2 clockwise rotary switches

		Catalog no.				
		Switches	Amps	Poles		
		Right front rotary				
	O O O	CCP2R-2-30CF	30	2		
	0	CCP2R-3-30CF	30	3		
		CCP2R-2-60CF		2		
	5 5 -	CCP2R-3-60CF	60	3		
	- Del Bridge	Left front rotary				
		CCP2RL-2-30CF	30	2		
		CCP2RL-3-30CF	30	3		
		CCP2RL-2-60CF	60	2		
		CCP2RL-3-60CF	- 00	3		
		Right side rotary				
		CCP2S-2-30CF	30	2		
		CCP2S-3-30CF		3		
_		CCP2S-2-60CF	60	2		
iirec		CCP2S-3-60CF	And	3		
Required	FACE	Rotary handles	Description And	Rating		
		notary nandles	Description	naung		
		CCP2-H4X-B1	Selector handle — black/grey			
		CCP2-H4X-R1	Selector handle — red/yellow	Type 1, 4X, 12		
		CCP2-H4X-B2	Pistol handle — black/grey			
		CCP2-H4X-R2	Pistol handle — red/yellow			
	4		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, includ	les terminal shrouds, pack of 3		



			And	
		Terminal shrouds	Description	
		CCP2-TS1-3	Pack of 3	i
Accessories		Auxiliary contacts	Description — use with CCP2RL-(poles)-30/60CF switches	
	We will also	CCP2-AUX	NO/NC, 5 A / 240 V	
	111	PLC fuse monitor	Description — use with CCP2R-(poles)-30/60CF and CCP2S-(poles)-30/60CF switches	
cAlin 555 =	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA		



30 and 60 A CCP2 counterclockwise switches

		Catalog no.		
		Switches	Amps	Poles
		Left side rotary		
	0.0.0	CCP2SL-2-30CF	30	2
	W	CCP2SL-3-30CF	30	3
		CCP2SL-2-60CF	60	2
	010	CCP2SL-3-60CF	- 60	3
	EACH EACH		And	
		Rotary handles	Description	Rating
þ		CCP2-H4X-B1L	Selector handle — black/grey	
Required	FACE	CCP2-H4X-R1L	Selector handle — red/yellow	Type 1, 4X, 12
		CCP2-H4X-B2L	Pistol handle — black/grey	Type 1, 4A, 12
		CCP2-H4X-R2L	Pistol handle — red/yellow	
	The state of the 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	
		Multi-wire lug kits	Description	
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shro	uds, pack of 3
			And	
		Terminal shrouds	Description	
Accessories		CCP2-TS1-3	Pack of 3	
ess		Auxiliary contacts	Description —mounts on right side	
Acc	C C C C C C C C C C C C C C C C C C C	CCP2-AUX	NO/NC, 5 A / 240 V	



100 A CCP2 switches

1 O1 a	Complete assembly, s		g required and optional components, and accessories.			
		Catalog no.	Anna	Dalas		
		Switch (used alone	Amps or with flange cable or flange rod handles)	Poles		
Required		CCP2-1-100CF	of with hange cable of hange fou handles/	1		
Req		CCP2-2-100CF	100	2		
	===	CCP2-3-100CF	-	3		
		CCP2-3-100CP	And	3		
		Flange handle rod	And			
	di la	operator	Description — 3-pole switches only	Rating		
	71X [70]	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		
Op		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		
		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		
			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			
1	111	PLC fuse monitor	Description — mounts on left side, cannot be used with flang operator	e handle rod		
	**************************************	CCP2-PLC-100	Signal output 24 Vdc / 10 mA			



100 A CCP2 clockwise rotary switches

		Catalog no.			
		Switches	Amps	Poles	
		Right front rotary			
		CCP2R-2-100CF	100	2	
		CCP2R-3-100CF	100	3	
	11 .0 .0	Left front rotary			
	A COLUMN	CCP2RL-2-100CF	100	2	
		CCP2RL-3-100CF		3	
	0 0 0	Right side rotary			
		CCP2S-2-100CF	100	2	
red		CCP2S-3-100CF		3	
Required			And		
Ä		Rotary handles	Description	Rating	
		CCP2-H4X-B1	Selector handle — black/grey		
		CCP2-H4X-R1	Selector handle — red/yellow	Type 1, 4X, 12	
		CCP2-H4X-B2	Pistol handle — black/grey	,	
		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-MW1-6	6-port multi-wire, 75°C Cu/Al, 6-14, includ	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	CN IS SECULAR TO SECUL	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
	© © 0	CCP2-PLC-100	Signal output 24 Vdc / 10 mA



100 A CCP2 counterclockwise switches

		Catalog no.		
		Switches	Amps	Poles
		Left side rotary		
	- 335	CCP2SL-2-100CF	100	2
		CCP2SL-3-100CF		3
	EAN EAN		And	
		Rotary handles	Description	Rating
		CCP2-H4X-B1L	Selector handle — black/grey	
Required	FA-N	CCP2-H4X-R1L	Selector handle — red/yellow	Type 1, 4X, 12
Ŗ		CCP2-H4X-B2L	Pistol handle — black/grey	1996 1, 42, 12
		CCP2-H4X-R2L	Pistol handle — red/yellow	
	1		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-MW1-6	6-port multi-wire, 75°C Cu/Al, 6-14, includ	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	
Ac	The second secon	CCP2-AUX-100	NO/NC, 5 A / 240 V	



About the UL Class CF CUBEFuse



The Bussmann series Low-Peak CUBEFuse is a UL Class CF currentlimiting, dual-element, time-delay branch circuit fuse with Class J electrical performance. Available in indicating and non-indicating versions, this finger-safe fuse has a very compact, space-saving size and is easily applied using the CUBEFuse holder (TCFH_N), UL 98 Compact Circuit Protector switch (CCP2-_CF) or Compact Circuit Protector Base (CCP2B up to 100 A) used in the Quik-Spec Coordination Panelboard).

Ratings

- Volts
 - 600 Vac
 - 300 Vdc
- Amps
 - 6-400 A (indicating)
 - 1-400 A (non-indicating)
- Interrupting rating
 - 300 kA RMS Sym. (Up to 100 A UL)
 - 200 kA RMS Sym. (110 to 400 A UL)
 - 200 kA RMS Sym. (Up to 100 A CSA)
 - 100 kA DC (Up to 400 A UL and up to 100 A CSA)

Agency information

- UL Listed Class CF fuse: Guide JDDZ, File E4273 (up to 400 A)
- CSA® Certified fuse: Class 1422-02, File 053787_C_000 (up to 100 A)
- RoHS compliant

Catalog numbers (amps)

Indicating CUBEFuse				
TCF6	TCF30	TCF70	TCF150	TCF350
TCF10	TCF35	TCF80	TCF175	TCF400
TCF15	TCF40	TCF90	TCF200	
TCF17-1/2	TCF45	TCF100	TCF225	
TCF20	TCF50	TCF110	TCF250	
TCF25	TCF60	TCF125	TCF300	
Non-Indicatin	g CUBEFuse			
TCF1RN	TCF20RN	TCF50RN	TCF110RN	TCF250RN
TCF3RN	TCF25RN	TCF60RN	TCF125RN	TOFOODNI
10101111	101201111	TCTOUTIN	ICFIZONIN	TCF300RN
TCF6RN	TCF30RN	TCF70RN	TCF125KN	TCF350RN
TCF6RN	TCF30RN	TCF70RN	TCF150RN	TCF350RN
TCF6RN TCF10RN	TCF30RN TCF35RN	TCF70RN TCF80RN	TCF150RN TCF175RN	TCF350RN

Features

- Smallest installed footprint of any UL Class CC, J, or R fuse solution
- Easy application using CUBEFuse holders (TCFH_N), UL 98 Compact Circuit Protector (CCP2) switches and Compact Circuit Protector Base (CCP2B up to 100 A). See data sheet 9007 for details on the CUBEFuse holder, 10801 for details on the CCP2- CF switch and 1161 for the CCP2B.
- Holders and switches have an amp rating rejection feature to help prevent overfusing; 30, 60 and 100 Å switches and holders will hold any CUBEFuse up to its rating, 200 and 400 A switches and 200, 225 and 400 A holders will hold any CUBEFuse 110 A and above up to its rating
- UL Class CF with Class J time-delay electrical performance
- Available in indicating and non-indicating versions
- The indicating version features local easyID™ open fuse technology for faster troubleshooting and reduced downtime
- Faster response to damaging faults helps reduce destructive thermal and magnetic forces
- True dual-element fuse construction with a minimum 10 seconds time-delay at 500% of rating
- Long time-delay minimizes nuisance openings caused by temporary overloads and transient surges
- Up to 300 kA interrupting rating safely interrupts virtually any fault
- Robust cycling and inrush current withstand
- Low let-through currents under fault conditions
- Provides Type 2 "No Damage" protection for IEC motor starters when properly sized
- Easy selective coordination with any other Bussmann series Low-Peak Class CC, J, L or RK1 fuse with simple 2:1 amp ratio between upstream and downstream fuses
- Finger-safe status depends on final, installed application, and will require using accessory shrouds for 110 to 400 A ratings.

CUBEFuse (cat. no. TCFH N) holders

The CUBEFuse is also used in holders that can be dovetail together for the smallest footprint possible of any Class J fuse solution (see data sheet no. 9007 for details).



Finger-safe DIN-Rail or panel mount holders up to 100 A.

- 30 A holder accepts any CUBEFuse up to 30 A.
- 60 amp holder accepts any CUBEFuse up to 60 A.
- 100 amp holder accepts any CUBEFuse up to 100 A.



Panel mount holders from 200 to 400 A.

- 200 A holder accepts any CUBEFuse from 110 to 200 A
- 225 A* holder accepts any CUBEFuse from 110 to 225 A
- 400 A holder accepts any CUBEFuse from 110 to 400 A

Finger-safe installation achievable for three ganged holders and lug kits with shroud

²⁰⁰ A and 225 A holders share the same overall dimensions, but the 200 A holder will reject a 225 A fuse.



200 A CCP2 switches

		Catalog no.				
		Switches	Amps	Poles		
	0.00	CCP2-1-200CF	200			
	1222	CCP2-2-200CF				
pə		CCP2-3-200CF		3		
uire	La Care		A I			
Required		Lug kits	And Description			
		CCP2-L2-1	Stainless steel lug, 75° Cu only, 350 kg	mil-4 1 per pack		
		CCP2-L2-1A	Aluminum lug, 75°C Cu/Al, 350 kcmil-4	· · · · · · · · · · · · · · · · · · ·		
		CCP2-MW2-3	3-port multi-wire lug, 75°C Cu/Al, 2-14,		l shroud	
	60	CCP2-MW2-6	6-port multi-wire lug, 75°C Cu/Al, 6-14,			
		CC 2 W W 2 0	And	o per pack, melades terrime	3111000	
		Rotary				
		mechanisms	Description			
		CCP2-SM	Side rotary mechanism - mounts on le	ft or right side of 1-, 2- and 3-	-pole switches	
	F.T.N	CCP2-RM2	Front rotary mechanism - mounts only on 3-pole switches, requires clockwise rotating handle			
		And				
	***	Rotary handles	Description	Rotation - must match switch rotation	Rating	
		CCP2-H4X-B3	Short pistol handle — black/grey	Clockwise		
		CCP2-H4X-R3	Short pistol handle — red/yellow	For use with front rotary		
Optional		CCP2-H4X-B4	Long pistol handle — black/grey	mechanism or side rotary mechanism CCP2-SM on		
ptic		CCP2-H4X-R4	Long pistol handle — red/yellow	the switch's right side	Type 1, 4X, 12	
0		CCP2-H4X-B3L	Short pistol handle — black/grey	Counterclockwise	Type 1, 4A, 12	
		CCP2-H4X-R3L	Short pistol handle — red/yellow	Use only if installing side		
		CCP2-H4X-B4L	Long pistol handle — black/grey	rotary mechanism CCP2- SM on the switch's left		
		CCP2-H4X-R4L	Long pistol handle — red/yellow	side		
			And			
	When the second	Shafts (12 mm)	Length			
		CCP2-SH2-225	225 mm			
		CCP2-SH2-425	425 mm			
		NFPA 79 compliant handle	Color			
		CCP2-NFPA-2	Red			



			Or		
	c h	Flange handle rod operator	Description — 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating	
	, n	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	
	TO A	CCP2-FLC2-36	36" cable, red/black painted handle	Type 1, 3R and 12	
	Carried To	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	cription	
		CCP2-TS2-3	3-pole terminal shroud with phase shields, 1 per pack		
		Phase barriers	Description		
		CCP2-PB2	Phase barriers, 2 per pack		
	And				
		Control wire terminals	Description		
Accessories	The second second	CCP2-CWK2	1/4" quick-connect control wire termina with lug CCP2-L2-1), 12 per pack	ls - mounts on installed lug (cannot be used	
Acce		Auxiliary contacts	Description		
4		CCP2-AUX-S	NO/NC, 5 A, 240 V - Can be mounted or	n right or left side	
		Handle extension	Description		
		CCP2-HEX		1-, 2 and 3-pole switches. Cannot be used or flange handle rod or cable operators are	



400 A CCP2 switches

		Catalog no.			
		Switches	Amps	Poles	
		CCP2-1-400CF		1	
		CCP2-2-400CF	400	2	
	etete	CCP2-3-400CF		3	
р			And		
Required		Lug kits	Description		
Sequ		CCP2-L4-1	Stainless steel lug, 75° Cu only, 500 kcm	nil-3, 1 per pack	
-		CCP2-L4-1A	Aluminum lug, 75° Cu only, 500 kcmil-3,	, 1 per pack	
		CCP2-L4B-3	Stainless steel lug, 75° Cu only, 750-500) kcmil, 3 per pack, includes ter	minal shroud
		CCP2-L4B-3A	Aluminum lug, 75°C Cu/Al, 750-500 kcm	nil, 3 per pack, includes termina	l shroud
	Qui de la companya de	CCP2-MW6-6	6-port multi-wire lug, 75°C Cu/Al, 1/0-14	, 3 per pack, includes terminal	shroud
		CCP2-L6-3	2-port stainless steel lug, 75° Cu only, 5°		
		CCP2-L6-3A			
CCP2-L6-3A 2-port aluminum lug kit, 75° Cu/Al only, 500 kcmil-2, 3 per pack, includes terr					- Communication Guarantee
	_	Rotary	Aild		
		mechanisms	Description		
		CCP2-SM	Side rotary mechanism - mounts on left or right side of 1-, 2- and 3-pole switches		
	F.7.10	CCP2-RM4	Front rotary mechanism - mounts only rotating handle	y on 3-pole switches, requires	s clockwise
			And		
	F.5.*	Rotary handles	Description	Rotation - must match switch rotation	Rating
		CCP2-H4X-B3	Short pistol handle — black/grey	Clockwise	
nal		CCP2-H4X-R3	Short pistol handle — red/yellow	For use with front rotary	
Ęį		CCP2-H4X-B4	Long pistol handle — black/grey	mechanism or side rotary mechanism CCP2-SM on	
Option	13.4	CCP2-H4X-R4	Long pistol handle — red/yellow	the switch's right side	
		CCP2-H4X-B3L	Short pistol handle — black/grey	Counterclockwise	Type 1, 4X, 12
		CCP2-H4X-R3L	Short pistol handle — red/yellow	Use only if installing side	
		CCP2-H4X-B4L	Long pistol handle — black/grey	rotary mechanism CCP2-	
		CCP2-H4X-R4L	Long pistol handle — red/yellow	SM on the switch's left side	
		CCI 2-114/X-114L	And	3100	
	Called Se a	Objects (40 mans)			
		Shafts (12 mm)	Length		
		CCP2-SH2-225	225 mm		
		CCP2-SH2-425	425 mm		
		NFPA 79 compliant handle	Color		
		CCP2-NFPA-2	Red		



			Or	
		Flange handle rod operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating
	- n = 1	CCP2-FLR2-21	Red/black, painted handle	Type 1, 3R, 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
ō		CCP2-FLC2-36	36" cable, red/black painted handle	Type 1, 3R, 12
	a constant	CCP2-FLC2-36x	36" cable, chrome handle	Type 4X
		CCP2-FLC2-60	60" cable, red/black painted handle	Type 1, 3R, 12
		CCP2-FLC2-60x	60" cable, chrome handle	Type 4X
		CCP2-FLC2-120	120" cable, red/black painted handle	Type 1, 3R, 12
		CCP2-FLC2-120x	120" cable, chrome handle	Type 4X
			And	
		Terminal shrouds	Description	-
		CCP2-TS6-3	3-pole terminal shroud with phase shields, 1 per pack	
		Phase barriers	Description	
		CCP2-PB6	Phase barriers, 2 per pack	
			And	
es		Auxiliary contacts	Description	
Accessories		CCP2-AUX-S	NO/NC, 5 A, 240 V - Can be mounted on right or left side	
		Handle extension	Description	
		CCP2-HEX	Handle extension to facilitate operating 1-, 2 and 3-pole switches. (when side or front rotary mechanisms, or flange handle rod and ca are installed.	



CUBEFuse Compact Circuit Protector Base



Description

The revolutionary Bussmann series Compact Circuit Protector Base (CCP2B) with CUBEFus™ is a UL 98 horsepower rated fused branch circuit disconnect. Primarily used in the Bussmann series Quik-Spec™ Coordination Panelboard, the CCP2B with CUBEFuse simplifies selective coordination for code complaince along with a lockout/tagout feature for isolating individual branch circuit loads to promote safe work practices.

Features

- Uses finger-safe, current-limiting Class CF CUBEFuse with Class J performance available, time-delay or fast-acting versions from 1 to 100 amps
- Patented amp rating rejection feature helps prevent overfusing
- · High 200 kA short-circuit current rating
- Disconnect rated to provide a means for load isolation
- 2- and 3-pole versions full voltage rated at 600 Vac
- Up to 125 Vdc ratings
- UL 98 Listed for branch circuit disconnect
- 1-, 2- and 3-pole versions are horsepower rated
- · Listed to UL and cULus
- · Open fuse indication lamp per pole speeds troubleshooting
- Additional open fuse indication can be provided by using the timedelay indicating CUBEFuse in ratings from 6 to 100 A
- Built-in switch/fuse interlock prevents removing or installing a fuse while energized
- Permanent lockout/tagout and lock-on provision usign a 1/4" lock

Specifications:

Switch amp ratings and rejection breaks

• 15, 20, 30, 40, 50, 60, 70, 90 and 100 A

Poles

• 1-, 2- and 3-poles

Volts

- 600 Vac (or less)
- 125 Vdc*
- * 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, Guide WHTY7, File E302370
- · RoHS compliant
- CE

Lineside bolt-on bus connector and torque

- Bolt-mounted design into Quik-Spec Coordination Panelboard bus
- #10-32 UNC hex flange Phillips screw; 2.8 N•m (25 lb-ln)

Loadside box lug terminal conductor data

· See conductor table for details

Loadside fork terminal

• Max. 30 A suitable for use with #8-32 UNC screw

Lockout/tagout

• 1/4" lock

Local open fuse indication

· Light illumination requires closed circuit and minimum 90 volts

Carton quantity and shipping weight

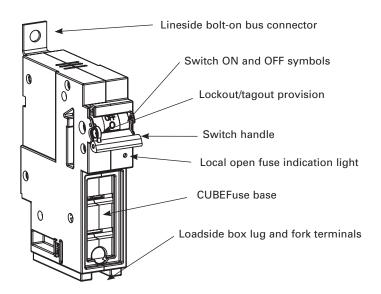
Item	Poles	lbs (kg)
up to 60 amp switches	6	1.7 (0.77)
70 to 100 amp switches	6	2.6 (1.18)

Environmental data

- Storage and operating temperature -20°C to 75°C**
- **For fuse performance under or above 25°C, consult fuse performance derating charts.

Available Bussmann series fuses

UL fuse class	Type/description	Volts	Data sheet no.
	Indicating time-delay, Low-Peak CUBEFuse (6-100 A)	600 Vac/	9000
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



Catalog numbers and ratings

BUSSMANN

			Accepts		
Catalog	Dates	Voltage	CUBEFuse	0000	Hp ratings
numbers	Poles	ratings	amp range	SCCR	(Vac)†††
CCP2B-1-15CF	1	347 Vac, 125 Vdc			0.5 Hp @ 120 V
CCP2B-2-15CF	2	600 Vac, 125 Vdc	1 to 15		1.5 Hp @ 240 V
CCP2B-3-15CF	3	600 Vac		-	3 Hp @ 240 V 5 Hp @ 480 V 7.5 Hp @ 600 V
CCP2B-1-20CF	1	347 Vac, 125 Vdc			0.75 Hp @ 120 V
CCP2B-2-20CF	2	600 Vac, 125 Vdc	1 to 20		2 Hp @ 240 V
CCP2B-3-20CF	3	600 Vac		_	3 Hp @ 240 V 7.5 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-30CF	1	347 Vac, 125 Vdc			1.5 Hp @ 120 V
CCP2B-2-30CF	2	600 Vac, 125 Vdc	1 to 30		3 Hp @ 240 V
CCP2B-3-30CF	3	600 Vac			5 Hp @ 240 V 15 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-40CF	1	347 Vac, 125 Vdc			2.0 Hp @ 120 V
CCP2B-2-40CF	2	600 Vac, 125 Vdc	1 to 40		3 Hp @ 240 V
CCP2B-3-40CF	3	600 Vac			7.5 Hp @ 240 V 20 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-50CF	1	347 Vac, 125 Vdc*		200 kA	3.0 Hp @ 120 V
CCP2B-2-50CF	2	600 Vac, 125 Vdc*	1 to 50	AC	5 Hp @ 240 V
CCP2B-3-50CF	3	600 Vac		100 kA DC	7.5 Hp @ 240 V 20 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-60CF	1	347 Vac, 125 Vdc*			3.0 Hp @ 120 V
CCP2B-2-60CF	2	600 Vac, 125 Vdc*	1 to 60		7.5 Hp @ 240 V
CCP2B-3-60CF	3	600 Vac			7.5 Hp @ 240 V 20 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-70CF	1	347 Vac, 125 Vdc			3.0 Hp @ 120 V
CCP2B-2-70CF	2	600 Vac, 125 Vdc	1 to 70		7.5 Hp @ 240 V
CCP2B-3-70CF	3	600 Vac			15 Hp @ 240 V 30 Hp @ 480 V 40 Hp @ 600 V
CCP2B-1-90CF	1	347 Vac, 125 Vdc**		-	5.0 Hp @ 120 V
CCP2B-2-90CF	2	600 Vac, 125 Vdc**	1 to 90		10 Hp @ 240 V
CCP2B-3-90CF	3	600 Vac			20 Hp @ 240 V 50 Hp @ 480 V 40 Hp @ 600 V
CCP2B-1-100CF	1	347 Vac, 125 Vdc**			5.0 Hp @ 120 V
CCP2B-2-100CF	2	600 Vac, 125 Vdc**	1 to 100		10 Hp @ 240 V
CCP2B-3-100CF	3	600 Vac			20 Hp @ 240 V 50 Hp @ 480 V 40 Hp @ 600 V

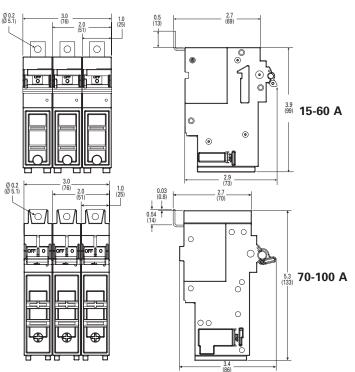
¹ and 3 A indicating CUBEFuse not available. Correct fit with CCP2B disconnect requires indicating CUBEFuse with date code R38 or later.

Box lug conductor data

Wire type	AWG range	Class	Quantity	Torque N•m (lb-in)	
15 to 60 A s	witches				
	4-6	Stranded, Class B	Single	3.95 (35)	
	8-18	to K	Sirigie	2.26 (20)	
	6-8	Stranded, Class B/C Stranded, Class K	- - Dual	3.39 (30)	
75°C Cu	10-18	Stranded, Class B to K	- Duai	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	Single	- 2.82 (25)	
	6-18	ferrule, Class K	Twin⁺	2.02 (25)	
70 to 100 A switches					
	12-18		Single	2.26 (20)	
	10	– – Stranded, Class B – to K		2.82 (25)	
	8			4.52 (40	
	4-6	_ to K		5.08 (45)	
	1-3			6.21 (55)	
	3-12	Stranded, Class B to K	Dual	3.95 (35)	
	12-18	_		2.26 (20)	
	10	— C+	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)	
	6-8		IVVIIII	2.82 (25)	
	10-18	– Solid	Single	2.26 (20)	
	10-18	Juliu	Dual	2.26 (20)	
	8-18	_	Single	2.26 (20)	
	1-6	Class K	Single	3.39 (30)	
	3-10		Dual	5.08 (45)	
	8-18		Single	2.26 (20)	
	1-6	Class K, UL ferrule	Jirigie	3.39 (30)	
	6-18		Twin	2.26 (20)	

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

Dimensions — in (mm)



For details on the CCP2B and its use in the Quik-Spec Coordination Panelboard, see data sheet no. 1160.

Not for use with motors.

Indicating or non-indicating time-delay CUBEFuse only.

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.



Compact Circuit Protector (cat. no. CCP2)

For use with Class CC, Supplemental and IEC 10x38 mm fuses



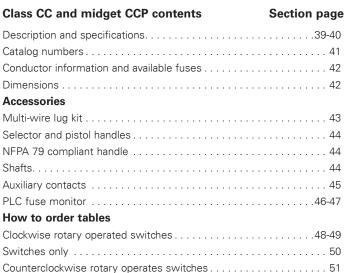
CCP2 switch



CCP2 right front rotary switch



CCP2 right side rotary switch





CCP2 left front rotary switch



CCP2 left side rotary switch



Catalog symbols

Symbol	Fuse type	Description	
CCP2-(poles)-30CC	Class CC	- Switch only	
CCP2-(poles)-30M	UL sup./IEC 10x38	- Switch only	
CCP2-1-DCC	Class CC Vdc	- 1 pala awitah aplu	
CCP2-1-DCM	UL sup./IEC 10x38 Vdc	1-pole switch only	
CCP2R-(pole)-30CC	Class CC	- Right front rotary switch	
CCP2R-(pole)-30M	UL sup./IEC 10x38	night hont folary switch	
CCP2RL-(pole)-30CC	Class CC	- Laft front rotary awitch	
CCP2RL-(pole)-30M	UL sup./IEC 10x38	Left front rotary switch	
CCP2S-(pole)-30CC	Class CC	Pight aids rotory switch	
CCP2S-(pole)-30M	UL sup./IEC 10x38	Right side rotary switch	
CCP2SL-(pole)-30CC Class CC		- Loft aido rotari, avvitab	
CCP2SL-(pole)-30M	UL sup./IEC 10x38	- Left side rotary switch	

Description

The revolutionary next generation Bussmann™ series Compact Circuit Protector (cat. no. CCP2) fused disconnect switch is 3/5 the footprint of a traditional fusible switch and provides up to a high 200 kA Short-Circuit Current Rating (SCCR) to help improve panel and assembly SCCR.

The 35 mm DIN-Rail mount CCP is available in a variety of configurations to meet many application needs including rotary operation.

Application flexibility is extended with an optional multi-wire lug kit, with finger-safe shrouds, that provides three additional wire ports on each pole for power distribution applications.

Other accessories include a PLC interface device for open fuse monitoring and NO/NC auxiliary contacts that easily integrate into many 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
 - 600 Vac (UL® Class CC)
 - 240 Vac (UL Supplemental)
 - 400 Vac (IEC 10x38 mm)
 - 80 Vdc (DC Class CC, DC UL Supplemental/IEC)
- Amps
 - 30 A (UL)
 - 32 A (IEC)
- SCCR
 - 200 kA (UL Class CC)
 - 10 kA (UL Supplemental)
 - 120 kA (IEC 10x38 mm max)
 - 20 kA (DC Class CC/UL)
 - 10 kA (DC UL Supplemental/IEC)

Poles

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

Agency information

- · UL Class CC fuse versions
 - UL 98 Listed, Guide WHTY, File E302370
 - cULus to Canadian Standard 22.2 No. 4-04, UL Guide WHTY7, File 302370

- UL Supplemental and IEC 10x38 mm fuse versions
 - UL 508 Listed, Guide NRNT, File E320230
 - cULus Certified 22.2 No. 14-05
 - IEC 60947-3 AC-23A
- DC voltage UL Class CC version (CCP2-1-DCC)
 - UL 508 Listed, cULus 22.2, No. 1405
- DC IEC 10x38 version (CCP2-1-DCM)
 - IEC 60947-3, DC-23A
- RoHS compliant
- CF

Conductors/terminals

- 75°C Cu/Al, see conductor tables for size, type and torque information
- · Box lug, single/dual conductor
- · Fork terminal suitable for line, load or accessory connection
- Multi-wire lug kit 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

- Switch only 4 mm lock or Brady pin-out device part number 90850
- Switch with rotary operating mechanism 1/4" lock

Minimum enclosure size

• 10" x 8" x 6" (254 x 203 x 152 mm)

Mounting

• 35 mm DIN-Rail

Local open fuse indication minimum voltage**

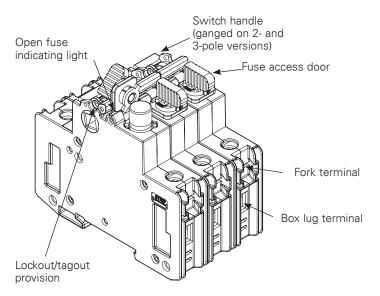
- 90 Vac for AC switches
- 12 Vdc for DC switches
- ** Open fuse indication requires an open fuse to be in the CCP2 and the switch in the ON position.

Accessories

- · Multi-wire lug kit 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

Features

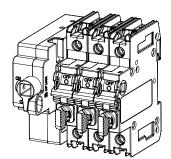
- Extremely compact (18 mm wide per pole) design
- High SCCR up to 200 kA (UL Class CC) and 120 kA (IEC)
- · Disconnect rated for load isolation
- Full voltage rated up to 600 Vac or 80 Vdc
- UL 98 Listed Class CC version is horsepower rated and suitable for branch circuit protection and disconnect
- IEC 10x38 version complies with IEC 60947-3 and suitable for branch circuit protection and disconnect
- Suitable for global installations, the switches comply with UL, cULus and IEC standards accepting UL Class CC, Supplemental or IEC aM and gG/gL fuses
- · Open fuse indication
 - · Standard local open fuse indicating light for each pole
 - Optional PLC fuse monitor can be utilized to signal a PLC and open a contactor to de-energize all phases, if required
- IP20 finger-safe with 10 AWG (6 mm²) or larger wire (box lug terminals only)
- · Built-in switch interlock prohibits removing the fuse under load
- · Padlockable handle for lockout/tagout
 - 4 mm lock for switch only
 - 1/4" lock for rotary operated switches
- Rotary operated versions provide for through-the-door and through-the-side operation flexibility and enhanced safety with:
 - · Right front switch operation
 - Left front switch operation
 - · Right side switch operation
 - · Left side switch operation
- Optional selector and pistol handles available for use with rotary operated versions
- Multi-wire lug kit with terminal shrouds allows for power distribution to multiple loads. Each lug has three ports rated for single and dual wires (see lug kit in accessories for conductor and torque details).





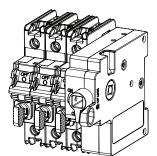
Right front rotary operated CCP2 switch with PLC fuse monitor.

Rotary operating switch versions



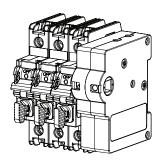
Left front rotary switch

Clockwise operating handles



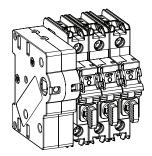
Right front rotary switch

Clockwise operating handles



Right side rotary switch

Clockwise operating handles



Left side rotary switch

Counterclockwise operating handles



Catalog numbers

						Max h	orsepow	er ratin	g (Vac)	Wire type/
Catalog no.	Poles	Description	Amps	Volts	SCCR	120	240	480	600	size*
Class CC										
CCP2-1-30CC	1			347 Vac		1/2	_	_	_	
CCP2-2-30CC	2	Switch only		000 \/	-	_	2	_	_	_
CCP2-3-30CC	3			600 Vac		3/4	3	5	7.5	_
CCP2R-2-30CC	2	Switch with right	•	600 Vac	_	_	2			_
CCP2R-3-30CC	3	front rotary operation		600 vac		3/4	3	5	7.5	75°C Cu/Al
CCP2RL-2-30CC	2	Switch with left front	30 A	600.\/aa	200 kA	_	2	_	_	18-4 AWG
CCP2RL-3-30CC	3	rotary operation		600 Vac		3/4	3	5	7.5	- Fork terminal ^{††}
CCP2S-2-30CC	2	_ Switch with right side		600.\/aa	-	_	2	_	_	_
CCP2S-3-30CC	3	rotary operation		600 Vac		3/4	3	5	7.5	_
CCP2SL-2-30CC	2	Switch with left side		600 Vac		_	2	_	_	_
CCP2SL-3-30CC	3	rotary operation		OUU Vac		3/4	3	5	7.5	-
UL Supplemental	and IEC	10x38 mm								
CCP2-1-30M	1									
CCP2-2-30M	2	Switch only								
CCP2-3-30M	3	_								
CCP2R-2-30M	2	Switch with right	•							
CCP2R-3-30M	3	front rotary operation		UL 240 Vac†						75°C Cu/Al
CCP2RL-2-30M	2	Switch with left front	UL 30 A IEC 32 A**		UL 10 kA† IEC 120 kA†	_	_	_	_	18-4 AWG
CCP2RL-3-30M	3	rotary operation	.20 02 / 1	IEC 400 Vac†	.20 .20					Fork terminal
CCP2S-2-30M	2	Switch with right side	•							
CCP2S-3-30M	3	rotary operation								
CCP2SL-2-30M	2	Switch with left side								
CCP2SL-3-30M	3	rotary operation								
Single-pole DC sv	vitches									
CCP2-1-DCC	1	UL Class CC	30 A	80 Vdc [†]	20 kA [†]	_		_	_	75°C Cu/Al
		UL supplemental	30 A							- 18-4 AWG
CCP2-1-DCM	1	IEC 10x38	32 A**	- 80 Vdc [†]	10 kA†	_	_	_	_	Fork terminal ^{††}

^{*} See box lug terminal conductor data table for details.

**32 A Class aM, 25 A Class gG.

† SCCR may be lower, refer to installed fuse data sheet for interrupting rating at applied voltage.

††Fork terminal with a 4.3 mm gap for a #8-32 stud, 30 A max, insulated flange, wire size 12-10 AWG.



Box lug terminal conductor data

Туре	AWG range	Class	Quantity	Torque N•m (lb-in)	
	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		
	10-18	Stranded, Class B to K	Dual	2.26 (20)	
Си	10-18	Solid	Single/dual		
00	4-18	Cture ded III fermile Clere DIC	Single	2.20 (20)	
	6-18	Stranded, UL ferrule, Class B/C	Twin⁺	3.39 (30)	
	4-18	- Stranded, UL ferrule, Class K	Single	- 2.82 (25)	
	6-18	- Stranded, OE lendle, Class K	Twin⁺	2.02 (20)	
	4-8		Single	2.26 (20)	
Al	6	Stranded		2.82 (25)	
	8	•	Dual	2.26 (20)	

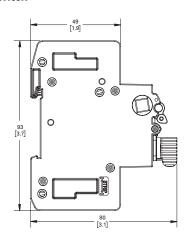
[†] Two stranded conductors placed in one UL Listed twin ferrule.

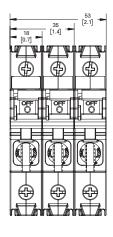
Available Bussmann series fuses

Fuse class	Type/description	Volts	Data sheet no.
	LP-CC time-delay	600 Vac/300 Vdc*	1023
CC	FNQ-R time-delay	600 Vac/300 Vdc	1014
	KTK-R fast-acting	600 Vac	1015
	FNM time-delay	250 Vac	2028
	FNQ time-delay	500 Vac	1012
M	KTK fast-acting	600 Vac	1011
	BAF fast-acting	250 Vac	2011
	KLM fast-acting	600 Vac/dc	2020
gG/gL	C10G	500 V (400 V@32 A)	720115
aM	C10M	500 V (400 V@20@25 A)	720115

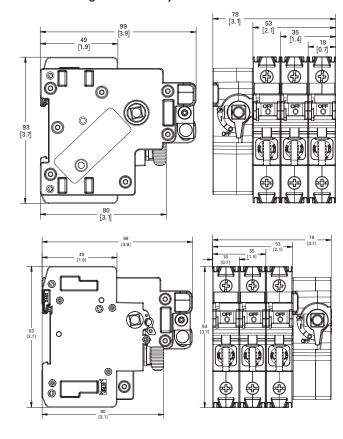
^{* 1/2} to 2-1/2 and 20 to 30 A are 300 Vdc, 2-8/10 to 15 A are 150 Vdc.

Dimensions - mm (in) Switch

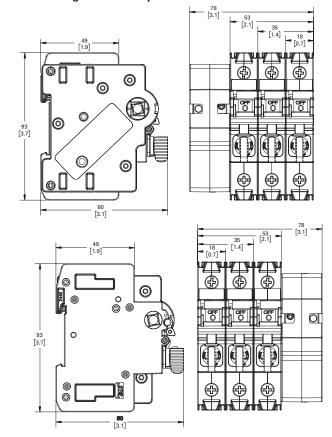




Left front and right front rotary switches



Left side and right side rotary switches





Multi-wire lug kit

Catalog number

• CCP2-MW1-3

Description

The multi-wire lug kit permits expanding each box lug terminal on the switch into a three-port terminal for power distribution applications.

Each multi-wire lug kit comes with three (3) three-port 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 three ports may have dual 14 AWG wires and the other two ports single 10 AWG wires.

Ratings

- Volts 600 V
- · Amps 60 A max
- SCCR 200 kA

Agency information

- UL Recognized (lug only)
- · 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)
Cu/Al	4-6	- Stranded, Class B/C	Single	3.95 (35)
Cu/Al -	8	Stranded, Class D/C	Sirigle	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu	10-14	Solid	Single	2.26 (20)
Cu	8	- UL ferrule, Class B to K	Single/twin [†]	2.82 (25)
	10-14	- OL IEITUIE, CIASS D (O N	Sirigle/twiri	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 lug

• 4.52 N•m (40 lb-in)

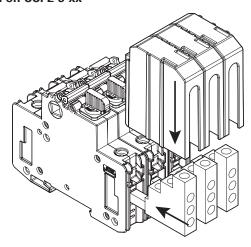
Terminal shroud accessory

Terminal shrouds are available without multi-wire terminals.

Catalog no.	Description
CCP2-TS1-3	Pack of three

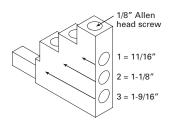


Installed on CCP2-3-xx



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 multi-wire lug kit that's also single/dual wire rated.



Selector and pistol handles

Catalog symbol

CCP2-H4X-_

Description

Selector and pistol handles for use with any 2- and 3-pole CCP2 rotary operated switch. Both selector and pistol handles are available in black/grey and red/yellow colors and clockwise/counterclockwise operating modes. Applying clockwise and counterclockwise operation depends upon the CCP2 rotary switch configuration. Installation requires an 8 mm shaft (ordered separately).

Each handle is rated NEMA 4X and capable of accepting 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.

In application, only the clockwise operating handles in combination with either the left front or right front rotary switches provide a door interlock means to ensure the enclosure door remains shut during lockout/tagout or lock-on. Both clockwise and counterclockwise operating handles when 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.

Agency information

- UL Listed, Guide DIHS, File E140305
- NEMA 4X rating
- · RoHS compliant
- CE

Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

Packaging

· Each handle is packaged individually

Handle shafts

Catalog symbol

• CCP2-SH1-_

Description

Eight millimeter square shafts available in 290 and 490 millimeter (11.5 and 19.3 inch) lengths. Shafts are indexed to ensure handle/switch orientation for correct operation. Shafts are cut to length when installed.

Packaging

• Each shaft is packaged separately

Selector handles





Pistol handles





Handle shafts



NFPA 79 compliant handle Catalog number

• CCP2-NFPA-1

Description

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



For these switch catalog numbers	Description/operation	Order these handle catalog numbers (description)	Order either shaft catalog number
CCP2R-(pole)-30CC	Dight front retary, alcelynics		
CCP2R-(pole)-30M	- Right front rotary, clockwise	 CCP2-H4X-B1 (selector, black/grey) 	
CCP2RL-(pole)-30CC	Loft front rotory, alcolouing	CCP2-H4X-R1(selector, red/yellow)	
CCP2RL-(pole)-30M	 Left front rotary, clockwise 	 CCP2-H4X-B2 (pistol, black/grey) 	
CCP2S-(pole)-30CC	Dight side vatery alcelynics	CCP2-H4X-R2 (pistol, red/yellow)	• CCP2-SH1-290 (11.5"/290 mm)
CCP2S-(pole)-30M	– Right side rotary, clockwise	, , ,	• CCP2-SH1-490 (19.3"/490 mm)
CCP2SL-(pole)-30CC		CCP2-H4X-B1L (selector, black/grey)	
		 CCP2-H4X-R1L (selector, red/yellow) 	
CCP2SL-(pole)-30M	Left side rotary, counterclockwise	 CCP2-H4X-B2L (pistol, black/grey) 	
		 CCP2-H4X-R2L (pistol, red/yellow) 	



Auxiliary contacts

Catalog number

• CCP2-AUX

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 CCP2 switch and the left front/left side rotary operated switches.



Ratings

- Amps up to 5 A
- · Volts up to 240 Vac
- NC/NO contacts are closed/open when the CCP2 switch is in the "ON" position (closed)

Description	Max per CCP2*	Signal output
Auxiliary contacts NO+NC for switch status	1 per CCP2 (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.
 De-energize all circuits and follow all prevailing safety procedures before

installing or removing the CCP2-AUX.

Agency information

- UL 98 Recognized, Guide WHTY2, File E155130
- cURus to Canadian Standard 22.2 No. 4-04
- · IP20 finger-safe in installed state
- RoHS compliant
- CE

Wiring

- 75°C Cu, 20-16 AWG (0.5 to 1.5 mm²) wire
- Torque 0.56 N•m (5 lb-in)

Packaging

· The CCP2-AUX is packaged individually

Installation technique

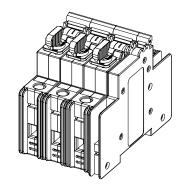
 Mounts on the CCP2's right side ONLY and mechanically interlocks with the CCP2 switch handle with provided hardware. The CCP2-AUX CANNOT be mounted on the right front and right side rotary operated versions.

Storage and operating temperature

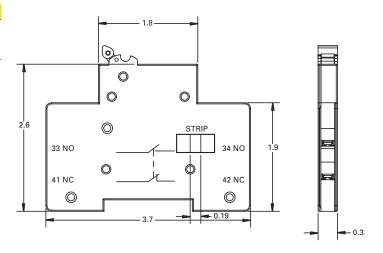
• -20°C to 75°C (-4°F to 167°F)

Installed on a CCP2-3-xx

Note: CCP2-AUX **CANNOT** be mounted on the right front and right side rotary operated versions.



Dimensions — in





CCP2-AUX auxiliary contacts mounted on a 3-pole CCP2 switch.



PLC fuse monitor

Catalog number

CCP2-PLC-IND

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 CCP2



switch and the right front/ right 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 **CANNOT** be mounted on the left front/left side rotary operated versions or if the multi-wire lug kit 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 (± 2 kV - 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)

Description	Max per CCP2**	Signal output to PLC	Min. circuit volts
Wired remote fuse indication for PLC applications	1 per CCP2 (1, 2- or 3-pole)	24 Vdc/ 10 mA	100 Vac

**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.

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

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 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

Packaging

- The CCP2-PLC-IND is packaged individually
- 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 CANNOT be mounted on the left front/ left side rotary operated versions or if the multi-wire lug kit is installed.

IP20 rating — yes

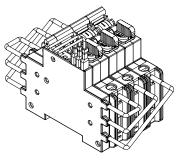
Storage and operating temperature

• -20°C to 75°C (-4°F to 167°F)

PLC programming

 The CCP2-PLC-IND 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.

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.

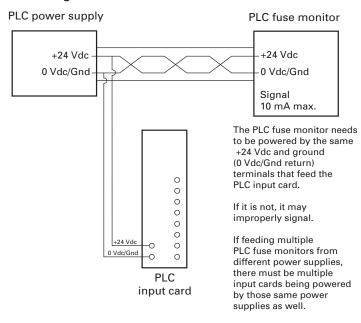
Note: The CCP2-PLC-IND **CANNOT** be mounted on the left front/left side rotary operated versions or if the multi-wire lug kit is installed.



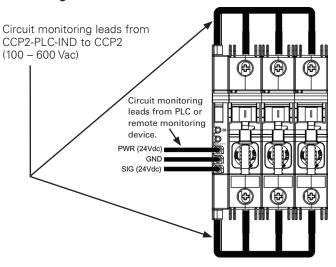
CCP2-PLC-IND fuse monitor mounted on a right front rotary operated switch.



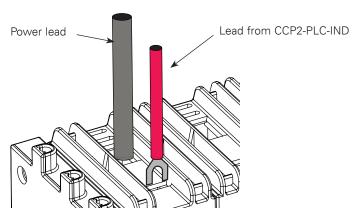
PLC wiring schematic



CCP2-PLC-IND connections from a CCP2-3-xx to a remote monitoring device



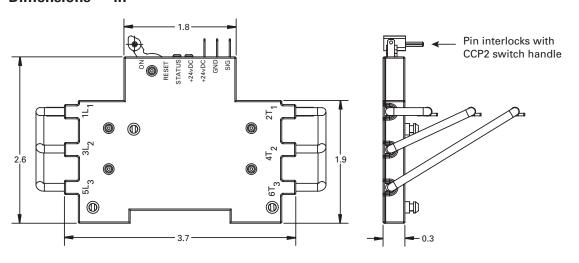
Connection from CCP2-PLC-IND to CCP2-3-xx



Leads from CCP2-PLC-IND are connected to the fork terminals as shown.

Note: When monitoring a 1- or 2-pole switch, remove unused leads.

Dimensions - in





Class CC and UL Supplemental (IEC 10x38) clockwise rotary switches

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

		Catalog no.								
		Switches	Amps	Poles						
		Right front rotary								
	16 14	CCP2R-2-30CC		2						
	and the same of th	CCP2R-3-30CC		3						
		CCP2R-2-30M	30	2						
	e e e	CCP2R-3-30M		3						
	THE WAY	Left front rotary								
		CCP2RL-2-30CC		2						
	1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CCP2RL-3-30CC	30	3						
	499	CCP2RL-2-30M	30	2						
		CCP2RL-3-30M		3						
		Right side rotary								
	The same of the sa	CCP2S-2-30CC		2						
		CCP2S-3-30CC	30	3						
		CCP2S-2-30M	30	2						
pa.		CCP2S-3-30M		3						
Required	E.T.ON		And							
Re		Rotary handles	Description	NEMA rating						
		CCP2-H4X-B1	Selector handle — black/grey							
		CCP2-H4X-R1	Selector handle — red/yellow	4X						
		CCP2-H4X-B2	Pistol handle — black/grey	4//						
		CCP2-H4X-R2	Pistol handle — red/yellow							
	· View		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							
		Lug kits	Description							
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pack of 3							



			And
		Terminal shrouds	Description
		CCP2-TS1-3	Pack of 3
		Auxiliary contacts	Description — cannot be used on right front or right side operated switches
Accessories	**************************************	CCP2-AUX	NO + NC, 5 A / 240 V
	\ \ I	PLC fuse monitor	Description — Cannot be used on left front operated switches
	© © © © © © © © © © © © © © © © © © ©	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA



Class CC and UL Supplemental (IEC 10x38) Switches

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

		Catalog no.								
		Switches	Amps	Poles						
		Switch								
eq	30 30 50	CCP2-1-30CC		1						
Required	EA-N	CCP2-2-30CC		2						
Re	OF OF OF	CCP2-3-30CC	30	3						
		CCP2-1-30M	30	1						
	20 49 69	CCP2-2-30M		2						
		CCP2-3-30M		3						
			And							
		Lug kits	Description							
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pack of 3							
			And							
		Terminal shrouds	Description							
		CCP2-TS1-3	Pack of 3							
		Auxiliary contacts	Description							
Accessories	CAN DESCRIPTION OF THE PROPERTY OF THE PROPERT	CCP2-AUX	NO + NC, 5 A / 240 V							
	711	PLC fuse monitor	Description							
	callus yyy = c	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA							



Class CC and UL Supplemental (IEC 10x38) counterclockwise switches

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

		Catalog no.									
		Switches	Amps	Poles							
		Left side rotary									
	1 0 0	CCP2SL-2-30CC		2							
		CCP2SL-3-30CC	20	3							
	4 444	CCP2SL-2-30M	30	2							
		CCP2SL-2-30M		2							
			And								
þ	FA-M	Rotary handles	Description	NEMA rating							
Required		CCP2-H4X-B1L	Selector handle — black/grey								
_	F159	CCP2-H4X-R1L	Selector handle — red/yellow	4X							
		CCP2-H4X-B2L	Pistol handle — black/grey	4//							
		CCP2-H4X-R2L	Pistol handle — red/yellow								
	· Marie	And									
		Shafts (8 mm)	Length								
		CCP2-SH1-290 290 mm									
		CCP2-SH1-490	-SH1-490 490 mm And								
		Lug kits	Description								
Optional		CCP2-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includ	es terminal shrouds, pack of 3							
			And								
		Terminal shrouds	Description								
ies		CCP2-TS1-3	Pack of 3								
SSOF		Auxiliary contacts	Description —mounts on right side								
Accessories	Si o o o o o o o o o o o o o o o o o o o	CCP2-AUX	NO + NC, 5 A / 240 V								



CCPLP UL 98 Listed low profile Compact Circuit

Protector

The revolutionary Bussmann series low profile Compact Circuit Protector (CCPLP) is a UL 98/508 Listed fused disconnect switch. This front panel mount switch is available in 1-, 2- and 3-pole versions, and has the smallest footprint of any fused disconnect switch. It features an SCCR up to 200 kA to help improve equipment SCCR.



Four fuse types

The CCPLP is available for UL Class CC and G, UL supplemental $(13/32" \times 1-1/2")$ and IEC 10x38 mm fuses.

Class CC and G versions are easily selectively coordinated with the upstream Bussmann series CUBEFuse™ using published fuse ampacity ratio tables.

Design/application flexibility

The CCPLP is easily integrated into many panel designs and provides a high SCCR alternative to low profile circuit breakers on the market.

Ratings

- Volts
 - 600 Vac (Class CC up to 30 A, Class G 20 A)
 - 550 Vac (10x38mm IEC Class aM 0.16-16 A)
 - 500 Vac (10x38mm IEC Class gG 0.5-25 A)
 - 400 Vac (10x38mm IEC Class aM 20-32 A, gG 32 A)
 - 240 Vac (13/32" x 1-1/2" UL supplemental 30 A)
- Amps
 - Up to 30 A (UL)
 - Up to 32 A (IEC)
- SCCR
 - 200 kA (Class CC)
 - 120 kA (10x38mm IEC Class gG and aM)
 - 100 kA (Class G)
 - 10 kA (13/32" x 1-1/2" UL supplemental)
- Frequency 50/60 Hz
- Impulse voltage 8 kV

Terminals and conductors 75°C/90°C Cu

- Screw terminal, 10-32 phil-slot screw with external tooth lock washer (use with properly rated/UL Listed ring or fork terminal)
- Pressure plate terminal, 10-32 phil-slot screw (single 22-6 AWG solid or stranded)

Ambient storage and operating temperature

• -20 to 90°C, 85% relative humidity, non-condensing

Poles

- 1-, 2- and 3-pole factory configured*
- * 2- and 3-pole versions supplied as ganged switches with phase barriers.

Agency information

- · Class G fuse versions
 - UL 98 Listed, Guide WHTY, File E302370
 - IEC 60947-3 AC-23A
- · Class CC fuse versions
 - UL 98 Listed, Guide WHTY, File E302370
 - cULus to Canadian Standard 22.2 No. 4-04, Guide WHTY7, File E302370
 - IEC 60947-3 AC-23A
- UL supplemental and IEC 10x38mm fuse versions
 - UL 508 Listed, Guide NRNT, File E320230
 - cULus Listed to Canadian Standard 22.2 No. 14-05, Guide NRNT7,
 File E320230
 - IEC 60947-3 AC-23A
- · RoHS compliant
- CE

Safety

· Finger-safe IP20 from panel front

Mounting

• Front panel mounting with customer supplied M3 screws

Open fuse indication*

- Local open fuse indication provided for each pole by an orange neon lamp (minimum 90 V)
- * Open fuse indication requires an energized, closed circuit with an open fuse in the CCPLP and the switch in the ON position.

Lockout/tagout provision

• Brady pin-out device, part number 90844

Circuit labeling provision

 Accepts up to two universal marker labels, catalog number TM26CB

Carton quantity

• 12 poles (1-pole: 12 units, 2-pole: 6 units, 3-pole: 4 units)

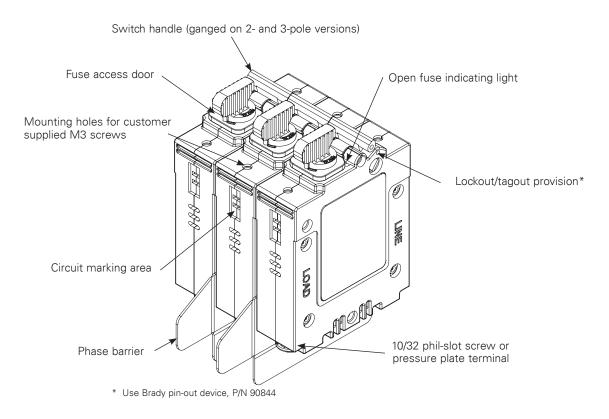
Minimum enclosure size

• 6" x 6" x 4" per UL 98 Listing



Available CCPLP versions

Catalog no.					SCCR	I	Horsepov	ver (Vac	:)
Screw terminal	Pressure plate terminal	Poles	Volts AC	Amps	(kA)	120	240	480	600
UL Class G fuse									
CCPLP-1-20G-S	CCPLP-1-20G-P	1				_	_	_	_
CCPLP-2-20G-S	CCPLP-2-20G-P	2	600	20	100	_	_		_
CCPLP-3-20G-S	CCPLP-3-20G-P	3				_	_	_	_
UL Class CC fuses									
CCPLP-1-30CC-S	CCPLP-1-30CC-P	1				0.5	_	_	_
CCPLP-2-30CC-S	CCPLP-2-30CC-P	2	600	30	200	_	2	_	
CCPLP-3-30CC-S	CCPLP-3-30CC-P	3				_	3	4	7. 5
UL 13/32"x1-1/2" mid	lget fuses								
CCPLP-1-30M-S	CCPLP-1-30M-P	1				_	_		_
CCPLP-2-30M-S	CCPLP-2-30M-P	2	240	30	10	_	_	_	_
CCPLP-3-30M-S	CCPLP-3-30M-P	3				_	_	_	
IEC 10x38 gG and aM	fuses								
CCPLP-1-30M-S	CCPLP-1-30M-P	1	gG fuses: up to 25 A @ 500 V 32 A @ 400 V		120	_	_	_	_
CCPLP-2-30M-S	CCPLP-2-30M-P	2	aM fuses:		120	_	_	_	_
CCPLP-3-30M-S	CCPLP-3-30M-P	3	up to 16 A @ 550 A 20-23 A @ 400V		120	_		_	



Available Bussmann series fuses

Fuse class	Catalog symbol
CC	FNQ-R, KTK-R, LP-CC
G	SC
М	BAF, FNM, FNQ, KLM, KTK
gG	C10G
aM	C10M

Data sheet no.10372



UL 98 fused disconnect switches up to 800 A

Bussmann series UL 98 and UL 489 fused disconnect switches "break" and "make" power circuits ON and OFF load.

The switches employ double break contacts per pole that help ensure complete isolation of the fuse when the switch is in the "OFF" position.

Agency information

- UL 98, Guide WHTY, File E155130
- UL 489, Guide WJAZ, File E359801
- CSA 22.2 No. 4, File 257020
- Conforms with IEC 60947-3
- NFPA 79

Features

- · Make and break power under load
- Double break by pole
- 30-60 A DIN-Rail or panel mount, 100-800 A panel mount only
- Up to 200 kA short-circuit current rating
- Finger-safe covers
- · Compact footprints available
- Defeatable handles automatically re-latch when the panel door is closed
- Most disconnect switches are front, right side, flange or direct handle operable
- NFPA 79 compliant handle kits

Online resources available at Eaton.com/bussmannseries

- CAD drawings
- Instruction sheets
- UL information







Available Bussmann series fuses

Fuse class	Catalog symbol/type							
	LP-CC time-delay, current limiting							
CC	FNQ-R time-delay							
	KTK-R fast-acting							
	LPJ time-delay, current limiting							
J	JKS fast-acting fuses							
	DFJ high speed drive fuse							
	KRP-C time-delay, current limiting							
1	KTU fast-acting							
L	KLU time-delay							
	KRP-CL (225-600 A)							

BUSSMANN SERIES

UL 98 fused disconnect switches — 30 to 800 A











RDF30CC-3

RDF30J-3 / RDF60J-3-COMP

RDF200J-3

RD	F60	00J	1-3
----	-----	-----	-----

Poles						Catalo	og no.				
2-pole				RDF30J-2	RDF60J-2-COMP	RDF60J-2	RDF100J-2	RDF200J-2	RDF400J-2	RDF600J-2	RDF800L-2
3-pole		RDF30CC-3	RDF30J-3- COMP	RDF30J-3	RDF60J-3-COMP	RDF60J-3	RDF100J-3	RDF200J-3	RDF400J-3	RDF600J-3	RDF800L-3
3-pole + neutra	al	RDF30CC-3N	RDF30J-3N- COMP	_	_	_	_	_	_	_	_
4-pole		_		RDF30J-4	RDF60J-4-COMP	RDF60J-4	RDF100J-4	RDF200J-4	RDF400J-4	RDF600J-4	RDF800L-4
UL standard		UL 489	UL 489	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98
Fuse class		CC	J	J	J	J	J	J	J	J	L
Max fuse/ampa	city	30	30	30	60	60	100	200	400	600	800
Switch type		Compact	Compact	Standard	Compact	Standard	Standard	Standard	Standard	Standard	Standard
Handle operation		Front	Front	Front/Side	Front/Side	Front/Side	Front/Side , Flange	Front/Side , Flange	Front/Side , Flange	Front , Flange	Front , Flange
UL electrical rat	tings										
Max AC volts		600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac
Max DC volts*	4 1 040			250 Vdc	250 Vdc	250 Vdc	250 Vdc		250 Vdc	600 Vdc	600 Vdc
0.1.40.11	1-phase, 240			3	10	10	10	10	10		
Std. AC Hp	3-phase, 240	3	3	3	7.5 15	7.5 15	15 25	25 50	50 100	75	75 200
ratings	3-phase, 480	5.0	5.0	5.0	15	15	30	60	125	150 200	250
	3-phase, 600 3-phase, 240	7.5 7.5	7.5 7.5	7.5 7.5	15	15	30	60	125	200	200
Max. AC Hp	3-phase, 240 3-phase, 480	7.5 15	7.5 15	7.5 15	30	30	60	125	250	400	500
ratings	3-phase, 460	20	20	20	50 	50	75	150	350	500	500
	125 Vdc			3	5	5	7.5	150	20		
DC Hp ratings	250 Vdc			5	10	10	20		50		
Electrical charac											
SCCR		100 kA	100 kA	200 kA	100 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Terminal lugs/ki	ts	Integral	Integral	Integral	Integral	Integral	Integral	•	•	•	•
Mounting torqu		_	_	_	_	_	_	160 (18)	310 (35)	310 (35)	310 (35)
Wire type		75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al
10%	Solid	14-10, 27 (3.1)	14-10, 27 (3.1)	14-10, 31 (3.5)	14-10, 31 (3.5)	12-10, 35.4 (4)	12-10, 35.4 (4)	_	_	_	_
Wire range, torque - Ib-in (N•m)	Stranded	14-10 27 (3.1)	14-10 27 (3.1)	14-6 , 31 (3.5)	14-6, 31 (3.5)	12-1, 35.4 (4)	12-1, 35.4 (4)	6-300 kcmil, 275 (31)	4-600 kcmil, 550 (62), Dual 1/0-250 kcmil 550 (62)	(2) 2-600 kcmil, 375 (42.4)	(2) 2-600 kcmil, 375 (42.4)
Mechanical cha	aracteristics										
Endurances/cv		10,000	10,000	10,000	10,000	10,000	10.000	8000	6000	5000	5000
Physical charac	cteristics	·	·				·				
Dimensions					See	drawings o	n product page	es			
	2-pole	_	_	3.0 (1.3)	3.1 (1.4)	4.1 (1.8)	4.1 (1.8)	5.7 (2.6)	11.4 (5.2)	31.7 (14.4)	31.7 (14.4)
\A/aiaht lba	3-pole	1.3 (0.6)	1.4 (0.6)	3.8 (1.7)	4.1 (1.8)	5.3 (2.4)	5.3 (2.4)	7.8 (3.5)	16.6 (7.6)	44.2 (20.1)	44.2 (20.1)
Weight - Ibs (kg)	3-pole +	1.4 (0.6)	1.5 (0.7)		_	_		_			
(kg)	neutral	1.4 (0.0)	1.5 (0.7)								
	4-pole			4.7 (2.1)	4.8 (2.2)	6.49 (2.9)	6.49 (2.9)	10.8 (4.9)	21.8 (9.9)	56.8 (25.8)	56.8 (25.8)
Environmental											
Operating tem		-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C	-20-70°C
Flammability ra	ating	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0
Accessories											
Lug Kit		Integral	Integral	Integral	Integral	Integral	Integral	•	•	•	•
	Direct	•	•	•	•	•	•	•	•	•	•
Handles	Front selector	•	•	_	_	_	_	_	_	_	_
	Front pistol	•	•	•	•	•	•	•	•	•	•
	Side pistol			•	•	•	•	•	•		
Flange	Cable			•	•	•	•	•			
	Shaft			•	•	•	•	•			
NFPA through		• F::F	• 	10::10	10::10	1010	10::10	10::10	10:10	107/10	10)/10
Shafts c/s - mr	n	5x5	5x5	10x10	10×10	10x10	10×10	10×10	10x10	12X12	12X12
Terminal shrou		Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	•	•	•	•
Auxiliary	(1) NO	•	•	•	•	•	•	•	•	•	•
contacts	(1) NC	•	•	•	•	•	•	•	•	•	•
AC ratings	Volts	600	600	600	600	600	600	600	600	600	600
	Amps	10	10	10	10	10	10	10	10	10	10

Available, see product page for details and catalog numbers.
 Not available.
 * General purpose only, not photovoltaic rated.



UL 98 fused rotary disconnect switches — 30 A

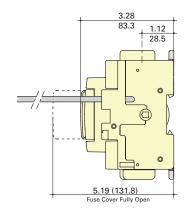
Standard 30 amp Class CC and compact 30 amp Class J

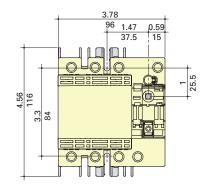
For a complete assembly, select:

		Switch												
	Maps A	Fuse			p rating, 3-phas	Se Conductor								
	Season A Common of the Common	Amps class	Poles	(kA) 220/240	440/480	600 AWG size /type	Catalog no.							
ن ج		CC	3	100 7.5		20	RDF30CC-3							
Switch	语言语 Did	30	3 + Ntrl.*	100 7.5		20 14-10 Sol/Str	RDF30CC-3N							
Ś	E MARION AND A STATE OF THE STA		3	100 7.5		20 75°C Cu	RDF30J-3-COMP							
		30	3 + Ntrl.*	100 7.5	15	20	RDF30J-3N-COMP							
_		* Neutral is switche	ed											
_					Plus									
			Direct mount handle - mounts directly to switch, no shaft required For switch cat. no. Color Test function Padlockable Cat											
		For switch cat. no.	Color	lest function	Padlockab	le	Catalog no.							
	10	RDF30CC					DIR-05							
			– Black	Υ	Υ									
		RDF30JCOMP	Black	'	'		DIR-06							
	v	1151 000 _ 001111					Birtoo							
					OR									
		External front ope	rated selecto	r handle - shaft re	equired									
		NEMA type	Color	Test function	Padlockab	le Defeatable	Catalog no.							
		1, 3R, 4, 4X, 12	Black	N	Υ	Υ	H4X-04B							
		1, 3R, 4, 4X, 12	Red/yellow	IN		· ·	H4X-04R							
	+	Shafts for selector												
2		Length - in (mm)		epth (X) - in (mm)			Catalog no.							
io		7.9 (200)	4.02~9.65 (1				SH1-200							
cal		12.6 (320)	4.02~14.37	·			SH1-320							
dd		15.7 (400)	4.02~17.52 (102~445)			SH1-400							
Select for standard applications andle		E to self out on			OR									
dar		External front operated pistol handles - shaft required NEMA type Color Test function Padlockable Defeatable Catalog no.												
anc			Black	lest function	Padlockab	le Defeatable	H12-05B							
r st		1, 3R, 12 1, 3R, 12	Red/yellow				H12-05R							
1 6		1, 3R, 4, 4X, 12	Black	N			H4X-05B							
		1, 3R, 4, 4X, 12	Red/yellow		Υ	Y	H4X-05R							
Select Handle		1, 3R, 4, 4X, 12	Black		_		H4X-05TB							
		1, 3R, 4, 4X, 12	Red/yellow	Υ			H4X-05TR							
	or	Metallic hasp (hea	vy duty) exte	rnal front operate	ed pistol hand	lles - shaft required								
						le Defeatable	Catalanaa							
		NEMA type	Color	Test function	Padlockab	ie Delegrapie	Catalog no.							
				lest function	Padlockab	ie Deleatable								
		NEMA type 1, 3R, 4, 4X, 12	Color Black	lest function	Padlockab	le Deleatable	H4X-05BHD							
		1, 3R, 4, 4X, 12	Black	lest function N	Padlockab Y	Y	H4X-05BHD							
		1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12	Black Red/yellow				H4X-05BHD							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h	Black Red/yellow andles	N			H4X-05BHD H4X-05RHD							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm)	Black Red/yellow andles Mounting de	N opth (X) - in (mm)			H4X-05BHD H4X-05RHD Catalog no.							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200)	Black Red/yellow andles Mounting de 4.02~9.65 (1	N epth (X) - in (mm) 02~245)			H4X-05BHD H4X-05RHD Catalog no. SH2-200							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320)	Black Red/yellow andles Mounting de 4.02~9.65 (1) 4.02~14.37 (N ppth (X) - in (mm) 02~245) 102~365)			H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200)	Black Red/yellow andles Mounting de 4.02~9.65 (1	N ppth (X) - in (mm) 02~245) 102~365)			H4X-05BHD H4X-05RHD Catalog no. SH2-200							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400)	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	N ppth (X) - in (mm) 02~245) 102~365) 102~445)	Y OR	Y	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320)	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	N ppth (X) - in (mm) 02~245) 102~365) 102~445)	Y OR	Y ol handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	N ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v	OR vith front pist	ol handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	N ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v	OR vith front pist	ol handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	N ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v	OR vith front pist	ol handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	Ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v Test function	OR vith front pist	pl handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (6.00)	Ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v Test function	OR vith front pist Padlockab	pl handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.							
	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (Ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v Test function	OR vith front pist	pl handle	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.							
93	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (Ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v Test function	OR vith front pist Padlockab Y AND	pl handle le Defeatable	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1							
siacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact No. of	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~11.37 (4.02~17.52 (6)) door handle	N epth (X) - in (mm) 02~245) 102~365) 102~445) kit - to be used v Test function	OR vith front pist Padlockab Y AND	ol handle le Defeatable N	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1							
ontacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact No. of type contacts	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (Ppth (X) - in (mm) 02~245) (102~365) 102~445) kit - to be used v Test function	OR vith front pist Padlockab Y AND Maximum nu disconnect s	ol handle le Defeatable N mber of auxiliary contacts perwitch catalog number	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1							
Ssories v contacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact No. of type contacts NO	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~11.37 (4.02~17.52 (6)) door handle	N epth (X) - in (mm) 02~245) 102~365) 102~445) kit - to be used v Test function	OR vith front pist Padlockab Y AND Maximum nu disconnect s RDF30CC: BAC05 (1) RI	ol handle le Defeatable N	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)							
ccessories lary contacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact No. of type contacts NO	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (door handle Continuous amp rating	N ppth (X) - in (mm) 02~245) 102~365) 102~445) kit - to be used v Test function N Voltage (Vac)	OR vith front pist Padlockab Y AND Maximum nu disconnect s RDF30CC:	ol handle le Defeatable N Imber of auxiliary contacts perwitch catalog number 4 / 8 with BAC-HOLDER2	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)							
Accessories uxiliary contacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact NO NC 1	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle Continuous amp rating	N ppth (X) - in (mm) 02~245) 102~365) 102~445) kit - to be used v Test function N Voltage (Vac)	OR vith front pist Padlockab Y AND Maximum nu disconnect s RDF30CC: BAC05 (1) RI HOLDER2	ol handle le Defeatable N Imber of auxiliary contacts perwitch catalog number 4 / 8 with BAC-HOLDER2 DF30JCOMP: 2 /6 with BAC-	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1) BAC06 (1)							
Accessories Auxiliary contacts	+	1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 1, 3R, 4, 4X, 12 Shafts for pistol h Length - in (mm) 7.9 (200) 12.6 (320) 15.7 (400) NFPA through the Color Red Auxiliary contacts Contact No. of type contacts NO	Black Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle Continuous amp rating	N ppth (X) - in (mm) 02~245) 102~365) 102~445) kit - to be used v Test function N Voltage (Vac)	OR vith front pist Padlockab Y AND Maximum nu disconnect s RDF30CC: BAC05 (1) RI HOLDER2	ol handle le Defeatable N Imber of auxiliary contacts perwitch catalog number 4 / 8 with BAC-HOLDER2	H4X-05BHD H4X-05RHD Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)							

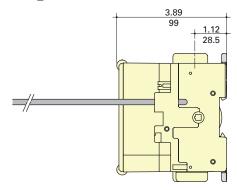


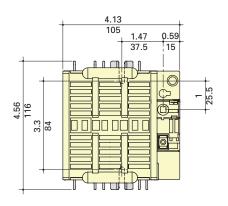






RDF30J-_-COMP



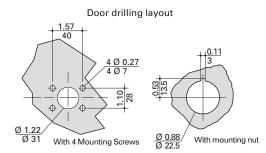


External front selector handle

Selector handle type

0

Direction of front operation



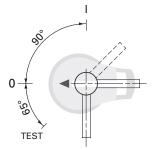
External front pistol handles

H4X-04_

Ø3.07 Ø78

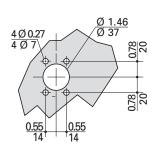
H4X-05_ H12-05_

Pistol handle type



Direction of front operation

Door drilling layout



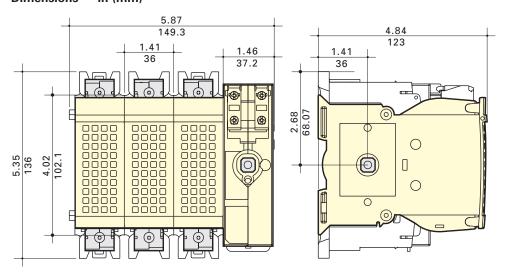


Standard 30 amp Class J

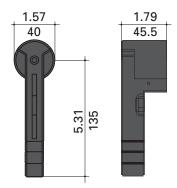
For a complete assembly, select:

		Switch													
-		Switch					May h	norsepowe	rating						
	7217-1721		Fuse		SCCR	1-n	hase	3-pha		D(Conductors			
_		Amps	class	Poles	(kA)	220/240	220/240	440/480	600	125	250	AWG size / type	Catalog no.		
Switch		AITIPS	Class	2	(KA)	3	-	- 440/400	-	3	5	AVVG Size / type	RDF30J-2		
N.S.		30	J	3	200		7.5	 15	20	3	5	14-10 Sol/14-6 Str	RDF30J-3		
0,	0-	30	J	4	. 200		7.5	15	20	3	<u>5</u>	- 75°C Cu	RDF30J-4		
	e 2	* DC ratin	iae ilea ti		n cariac		7.0	10			<u> </u>		1101 303-4		
_		DC latill	igs use ti	wo poles i	11 361163.			PLUS							
_		Direct mo	unt han	dle - mou	inte dire	ctly to sw	itch, no sh		d						
	40	For switch				Color	11011, 110 311	Test fun		Padlo	rkable		Catalog no.		
	l nr	1 Of Ovvicor	1 001. 110.			00101		1000 1011	011011	1 daio	okabio		Cutalog 110.		
		All switche	es			Black		Υ		Y - On	switch		DIR-07		
		, 0 , , , ,				Diddit					01111011		2 07		
								OR							
		External f	front ope	erated pis	tol hand	lles - shaft	required								
		NEMA typ				Color		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.		
						Black							H12-05B		
		1, 3R, 12		Red/yellow									H12-05R		
						Black		- N				.,	H4X-05B		
		4 05 4	1)/ 40			d/yellow)	ſ	Y	H4X-05R		
		1, 3R, 4, 4	+X, 12			Black	-			-			H4X-05TB		
40						d/yellow	-	· Y					H4X-05TR		
ü	Or	Metallic h	nasp (hea	avy duty)			erated pisto	ol handles	- shaf	t require	ed				
Select for standard applications Handle		NEMA		<u> </u>						Padlo		Dofostable	Catalagas		
<u>:</u>		type	Color			Color		Test fun	ction	Padio	ckable	Defeatable	Catalog no.		
ద		1, 3R, 4, 4	1V 12			Black		- N		\	,	Υ	H4X-05BHD		
a		1, 311, 4, 4	+//, 1/2	Red/yellow				11	Y			H4X-05RHD			
a		Red/yellow H4X-05RHD External right side operated pistol handles - shaft required													
S S	VAL	NEMA typ	pe			Color		Test fun	ction	Padlockable		Defeatable	Catalog no.		
Ste		1, 3R, 4, 4	1X 12		Black			- N		\	/	N/A	H4X-05SB		
ō		1, 011, 4, 4	T/1, 12		Red/yellow							14/75	H4X-05SR		
Select for Handle	+	Shafts for pistol handles Length — in (mm) Mounting depth (X) — in (mm)													
an			in (mm)				mm)						Catalog no.		
S I		7.9 (200) 5.30~9.06 (135~230)											SH5-200		
		12.6 (320)			5.30~13.78 (135~350)								SH5-320		
		15.7 (400)									SH5-400				
		OR Flange handle (1) - requires shaft operated mechanism or cable operated mechanism + cable													
	1 🗐 2 🖚			- requires			nechanism						0		
		NEMA typ			Flange style Standard			Test function N		Padlo	ckable	Defeatable	Catalog no.		
		1, 3R, 4, 1								Y		Υ	FLH1		
		1, 3R, 4, 4				me plated							FLH2		
	200					(2) - includ	ies shaft						0		
	3	For enclos		n - in (mm	1)								Catalog no.		
		6~24 (152			h a ref	and at L				2) 1	- la la - 4 -		FLRM		
	• 8				nanism	and cable	- must sel	ect mecha	nism (3) and c	able (4)	Cotologo		
	1	Item / leng		(mm)									Catalog no.		
	4	26 (900) c											FLC36		
		60 (1500)								-			FLC36		
		120 (3000											FLC120		
		120 (3000	, cable					OR					I LUIZU		
		NEPA the	ough the	e door ha	ndle kit	- to be use	ed with fro		andle						
		Color	ough tilt	c door ridi	naie kit	to be use	Ja With 110	Test fun		Padlo	kable	Defeatable	Catalog no.		
	8	COIOI						Test full	CHOIT	1 40100	SKUDIE .	Delegrapie	Saturog 110.		
		Dad						N 1			,	N I	1170.0		
		Red						N		`		N	H79-2		
								AND							
		Auxiliary	contacts	S											
S S		Contact	No. of o	contacts	Cont	tinuous am	p rating	Voltage	(Vac)	Max	aux co	ntacts per switch	Catalog no.		
rie		type					,								
So	ğ (,	NO											BAC05		
Ses	(a) (b)	INO				10							DACOS		
Accessories Aux. contacts	() () () () () () () () () ()	NC 1						600				4			
4													BAC06		

BUSSMANN

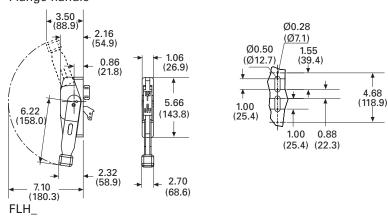


Direct mount handle



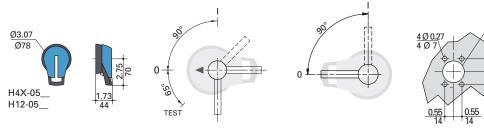
DIR-07

Flange handle



External front and right side pistol handle

Handle type Direction of front operation Direction of right side operation Door drilling layout



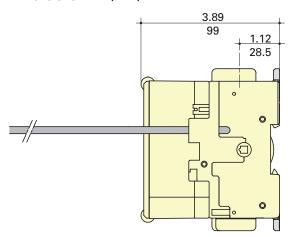
Ø 1.46 Ø 37

0.78

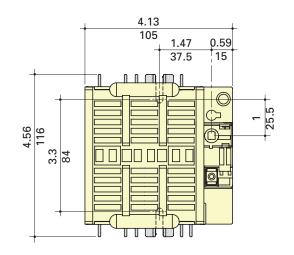
Compact 60 amp Class J

For a complete assembly, select:

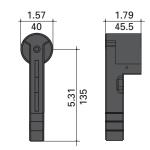
		Switch												
	2512-1301						Max h	norsepower i	rating					
			Fuse		SCCR	1-phase		3-phase		D(C*	Conductor		
ء		Amps	class	Poles	(kA)	220/240	220/240	440/480	600	125	250	AWG size / type	Catalog no.	
Switch	基 英 東 天 一			2	(1.1.7)	10	-	-	-	5	10		RDF60J-2-COMP	
S		60	J	3	100		15	30	50	5	10	- 14-10 Sol/14-6 Str	RDF60J-3-COMP	
0,	0-	00	Ü	4	100		15	30	50	5	10	- 75°C Cu	RDF60J-4-COMP	
	16%((* DC ratings	use tw		n series				- 50		10		1101 000 4 001111	
		DO Tatingo	400 11	vo poloci i	11 001100.			PLUS						
		Direct mour	nt hand	dle - mou	ınts dire	ctly to swit	tch, no sha	aft required						
	W W	For switch ca	at. no.			Color		Test func	tion	Padlo	ckable		Catalog no.	
		All switches			Black			Υ		Y - on	cvaritoh		DIR-07	
		All SWITCHES				DIGCK		'		1 - 011	SVVILGII		DITI-07	
								OR						
		External fro	nt ope	rated pis			required							
		NEMA type				Color		Test func	tion	Padlo	ckable	Defeatable	Catalog no.	
		1, 3R, 12	_			Black		_					H12-05B	
		1, 3R, 12				d/yellow		- N					H12-05R	
		1, 3R, 4, 4X,				Black		-		`	/	Υ	H4X-05B	
		1, 3R, 4, 4X,			Re	d/yellow				_		,	H4X-05R	
		1, 3R, 4, 4X,	12			Black		- Y					H4X-05TB	
Su	Or	1, 3R, 4, 4X,	12		Red/yellow						H4X-05TR			
Select for standard applications Handle	Or Or	Metallic has	p (hea	vy duty)	externa	I front oper	ated pisto	ol handles -	shaft					
ca		NEMA type				Color		Test func	Padlo	ckable	Defeatable	Catalog no.		
dd		1, 3R, 4, 4X,	12			Black		N.I.		`	,	Y	H4X-05BHD	
a		1, 3R, 4, 4X,		Re	d/yellow	- N)	ſ	Y	H4X-05RHD			
ard		1, 3R, 4, 4X, 12 Red/yellow External right side operated pistol handles - shaft required												
Di Di		NEMA type Color Test function Padlockable								Defeatable	Catalog no.			
ta		1, 3R, 4, 4X,	12			Black							H4X-05SB	
20		1, 3R, 4, 4X,				d/yellow		- N)	(N/A	H4X-05SR	
e t		Shafts for p		andles	110	a, yenevv							11-17(00011	
Select Handle	· ·	Length — in			na denth	(X) - in (mm	1						Catalog no.	
Sel		7.9 (200)	(111111)		06 (135~		1						SH5-200	
		12.6 (320)		.78 (135~350)								SH5-320		
	K 4.5												SH5-400	
		15.7 (400) 5.30~16.93 (135~430) OR										3H5-4UU		
		Elango hano	llo (1)	roquiro	chaft o	norated me	ohaniem		oratoo	l mach:	niem	, cable		
	1 2	NEMA type	ile (1)	- requires	quires shaft operated mechanism o			Test func			Defeatable	Catalog no.		
					Flange style			lest fullo	LIOII	raulo	Rable	Delegiable		
		1, 3R, 4, 12	10		Standard N Chrome plated			N Y Y				FLH1 FLH2		
		1, 3R, 4, 4X,		ngo moo			oo oboft						FLMZ	
	1 Ca.	Shaft opera				(Z) - Include	es snart						Catalagina	
	3	For enclosure		<u>1 - III (ITIIT</u>	1)								Catalog no.	
		6~24 (152~6			hanism	and salely	manat and	and married to	10	\ am-l	ala la de	1	FLRM	
		Cable opera			nanism	and cable -	must sele	ect mechan	ізпі (3	, and ca	apie (4	1	Catalagus	
	1	Item / length		111111)									Catalog no.	
	4	Cable mecha											FLCM	
		36 (900) cab											FLC36	
		60 (1500) cal											FLC60	
	*	120 (3000) c	able										FLC120	
								OR						
		NFPA throu	gh the	door ha	ndle kit	to be used	d with sel							
		Color						Test func	tion	Padlo	ckable	Defeatable	Catalog no.	
	8	Red						Ν)	,	N	H79-2	
		rieu						IN		١		N	11/3-2	
								AND						
		Auxiliary co	ntacts											
s t		Contact type	į	No of c	contacts	Continuo		Voltage (vac)	Max	aux co	ontacts per switch	Catalog no.	
rie	東岸市	Jonitade type				rati	ng			· · · · · ·	LUX O		2213.09 710.	
Accessories Aux. contacts	\$ (10	NO											BAC05	
S. C.	(e) (b)				1	47	1	600				4		
AU		NC	1			10	J	600				4	DACOC.	
		NC											BAC06	



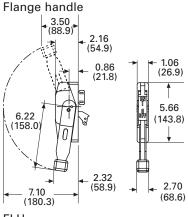
BUSSMANN

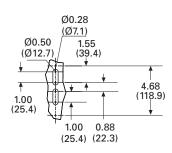


Direct mount handle



DIR-07



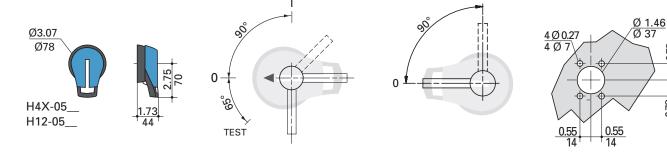


FLH_

External front and right side pistol handle

Handle type

Direction of front operation Direction of right side operation Door drilling layout



0.78



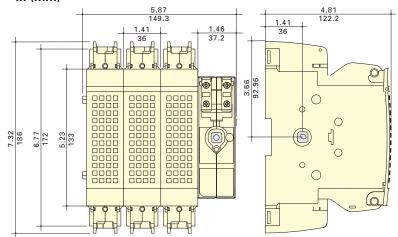
Standard 60 amp Class J

For a complete assembly, select:

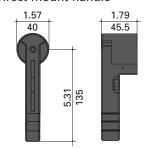
			Switch												
		and the same						Max	horsepowe	r rating					
				Fuse		SCCR	1-phase		3-phase		D(C*	Conductor AWG		
	ᇊ		Amps	class	Poles	(kA)	220/240	220/240		600	125	250	size/type	Catalog no.	
	Switch		·		2	200	10	-	-	-	5	10		RDF60J-2	
	Š		60	J	3	200	-	15	30	50	5	10	12-10 Sol/12-1 Str	RDF60J-3	
		0.8			4	200	-	15	30	50	5	10	- 75°C Cu	RDF60J-4	
		***	* DC ratin	ngs use t	wo poles	in series.									
			PLUS												
				Direct mount handle - mounts directly to switch, no shaft required											
			For switch	n cat. no.		(Color		Test fun	ction	Padlo	ckable		Catalog no.	
		1													
		<u> </u>	All switch	es		E	Black		Υ)	(DIR-07	
	_														
	_		F. damed				II		OR						
				External front operated pistol handles - shaft required NEMA type Color Test function Padlockable Defeatable										Catalana	
				pe					lest tun	iction	Padio	скаріе	Defeatable	Catalog no.	
			1, 3R, 12				Black		-					H12-03B	
			1, 3R, 12	1)/ 10			Red/yellow		- N					H12-03R	
			1, 3R, 4, 4				Black		-)	(Υ	H4X-06B	
			1, 3R, 4, 4				d/yellow Black						H4X-06R		
10			1, 3R, 4, 4				- Y					H4X-06TB			
ou		_	1, 3R, 4, 4				d/yellow							H4X-06TR	
Select for standard applications		Or	Metallic hasp (heavy duty) external front operated pistol handles - shaft required												
ij			NEMA typ				Color		lest fun	iction	Padlo	ckable	Defeatable	Catalog no.	
api			1, 3R, 4, 4				Black		- N)	(Υ	H4X-06BHD	
5			1, 3R, 4, 4		d/yellow						H4X-06RHD				
da			External right side operated pistol handles - shaft required NEMA type Color Test function Padlockable Defeatable												
tan		1	NEMA typ	pe		(Test fun	ction	Padlo	ckable	Defeatable	Catalog no.			
S			1, 3R, 4, 4	4X, 12		Black			N		Y		NI/A	H4X-06SB	
9	ø)		1, 3R, 4, 4	4X, 12		Red	d/yellow	ellow N			1		N/A	H4X-06SR	
ect	Handle		Shafts fo	r pistol l	nandles										
Sel	Ha.		Length — in (mm) Mounting depth (X) — in (mm)										Catalog no.		
			7.9 (200)		5.30~9	.06 (135~2	230)							SH5-200	
			12.6 (320))	5.30~1	3.78 (135~	-350)							SH5-320	
		W. Sand	15.7 (400)	15.7 (400) 5.30~16.93 (135~430)								SH5-400			
									OR						
		1 2	Flange ha	andle (1)	- require	es shaft o	perated m	echanism	or cable o	perate	d mech	anism	+ cable		
			NEMA typ	oe		Flan	ge style		Test Fun	nction	Padlo	ckable	Defeatable	Catalog no.	
			1, 3R, 4, 1	12		Sta	andard		- N		\	/	Υ	FLH1	
			1, 3R, 4, 4	4X, 12		Chror	ne plated		IN				Ţ	FLH2	
		77.00	Shaft ope	erated fla	ange me	chanism	(2) - includ	es shaft							
		3	For enclos	sure dept	h — in (r	mm)								Catalog no.	
			6~24 (152	2~613)										FLRM	
		8	Cable op	erated fl	ange me	chanism	and cable	- must sel	ect mecha	nism (3	3) and c	able (4	.)		
		6-1	Item / Ien		(mm)									Catalog no.	
		4	Cable me											FLCM	
		(36 (900) c											FLC36	
			60 (1500)											FLC60	
		*	120 (3000)) cable										FLC120	
									OR						
			NFPA thr	ough the	e door h	andle kit	to be use	d with fro	nt pistol h						
			Color						Test fun	ction	Padlo	ckable	Defeatable	Catalog no.	
			Red						N		\	(N	H79-2	
			neu										IN	11/ 5-2	
									AND						
			Auxiliary	Auxiliary contacts											
ý	ts		Contact type No. of contacts Continuous amp Voltage (Vac) Max number of aux contacts pe										Catalog no.		
ries	tacts	13	Contact to	t type No. of contacts rating											
ssories	contacts	a la	Contact ty	ype	140. 01	COITTACTS	rat	ing	voltago	(140)			witch		
Accessories	Aux. contacts	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NO NC	ype	-	1		ing 0	600				4	BAC05	

BUSSMANN SERIES FULL LINE CATALOG 1007 — OCTOBER 2018

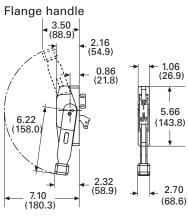
BUSSMANN

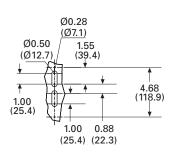


Direct mount handle



DIR-07

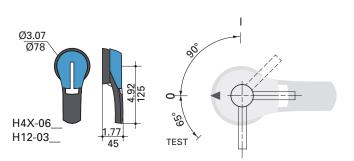


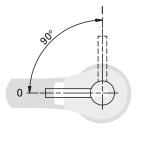


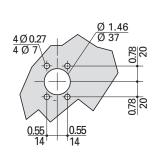
FLH_

External front and right side pistol handle

Direction of front operation Direction of right side operation Handle type







Door drilling layout

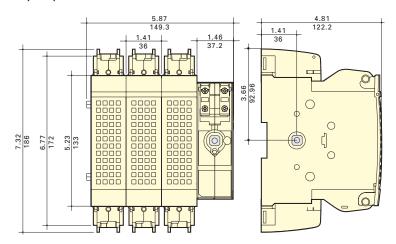


Standard 100 amp Class J

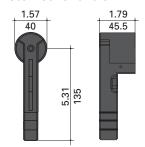
For a complete assembly, select:

		Switch																			
	anne.						Max h	orsepower	rating												
		-	use		SCCR	1-phase		3-phase		D(2*	Conductor									
ے			lass	Poles	(kA)	220/240	220/240		600	125	250	AWG size/type	Catalog no.								
Switch		Allips C	1000	2	(10-1)	10	-	-	-	7.5	20	AVVG 3120/type	RDF100J-2								
8		100	J	3	200	-	30	60	75	7.5	20	12-10 Sol/12-1 Str	RDF100J-3								
0,		100	J	 4	200		30	60		7.5	20	- 75°C Cu	RDF100J-3								
	***	* DC rations			in anzia		30	- 60	/5	7.5	20		NDF 1003-4								
_		* DC ratings	use t	wo poles	in serie:	5.		PLUS													
_		Direct mour	t han	dle - mo	unte di	ectly to ex	vitch no		ired												
			Direct mount handle - mounts directly to switch, no shaft required For switch cat. Calculate the switch and the same and the switch and the																		
	nr nr	no.		(Color		Test fun	ction	Padlo	ckable		Catalog no.									
	Ш																				
		All switches			E	Black		Υ)	1		DIR-07								
								OR													
		External from	External front operated			ndles - sha	ft require	ed													
		NEMA type			(Color		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.								
					[Black							H12-03B								
		1, 3R, 12			Red	d/yellow							H12-03R								
						Black		- N			,		H4X-06B								
		4.05			Red	-)	ſ	Υ	H4X-06R										
		1, 3R, 4, 4X,	12			Black							H4X-06TB								
						/yellow	- Y					H4X-06TR									
2	Or	Metallic has	p (he	avv dutv		,	erated n	istol hand	es - s	naft red	uired										
		NEMA type	,	,,		Color	- 1110ш р	Test fun		Padlo		Defeatable	Catalog no.								
2		1, 3R, 4, 4X,			Black						H4X-06BHD										
2		1, 3R, 4, 4X,			Red/yellow			- N	Y			H4X-06RHD									
5	W//	External rigi		o oporat		• /	chaft ro	quirod					1147/-00111110								
5		NEMA type	iit siu	e operat		Color	- Silait le	Test fun	otion	Padlo	rkahla	Defeatable	Catalog no.								
pelect for standard applications landles		TVLIVIA type				Black		1031 1011	CHOIL	1 dalot	SKUDIC	Deleatable	H4X-06SB								
		1, 3R, 4, 4X,	12			/yellow		- N	Υ		N/A	H4X-06SR									
o s		Shafts for p	ictal l	andles	1100	a, y CilOVV							11477 00011								
Handles	T	Length — in	13101 1																		
ano		(mm)	Mounting depth (X) - in (mm)										Catalog no.								
" I		7.9 (200)			5.30~9.06 (135~230)								SH5-200								
			12.6 (320) 5.30~									,	SH5-320								
	E. J.	15.7 (400)		5.30~16				-				,	SH5-400								
								OR													
	1 1 2	Flange hand	lle (1)	- require	es shaft	operated	mechanis	sm or cable	e oper	ated m	echan	ism + cable									
		NEMA type				ge style		Test fun				Defeatable	Catalog no.								
		1, 3R, 4, 12			St	andard		N.I.			,		FLH1								
		1, 3R, 4, 4X,	12		Chror	ne plated		- N)	ſ	Υ	FLH2								
	200	Shaft operat	ted fla	ange me	chanisn	n (2) - inclu	des shaf	t													
	3	For enclosure											Catalog no.								
	9	6~24 (152~6	_	,									FLRM								
	0 10	Cable opera	ted fl	ange me	chanisn	n and cabl	e - must	select med	hanis	m (3) a	nd cab	le (4)									
	3-1-	Item / length											Catalog no.								
	4	Cable mecha											FLCM								
													FLC36								
		36 (900) cabl										,	FLC60								
	- "	36 (900) cabl								120 (3000) cable											
	. **	60 (1500) cal	ole																		
	***	60 (1500) cal	ole					OR					FLC120								
	***	60 (1500) cal	ole able	e door h	andle ki	t - to be u	sed with		l hand	dle			FLC120								
	***************************************	60 (1500) cab 120 (3000) ca	ole able	e door h	andle ki	t - to be u	sed with			dle Padlo	ckable	Defeatable	FLC120 Catalog no.								
	The state of the s	60 (1500) cal 120 (3000) ca	ole able	e door ha	<mark>andle ki</mark>	t - to be us	sed with	front pisto Test fund		Padlo		Defeatable									
	***************************************	60 (1500) cal 120 (3000) ca	ole able	e door ha	andle ki	t - to be u	sed with	front pisto				Defeatable N									
	***************************************	60 (1500) cat 120 (3000) ca NFPA through Color	ole able	e door ha	andle ki	t - to be u	sed with	front pisto Test fun N		Padlo			Catalog no.								
	***************************************	60 (1500) cat 120 (3000) ca NFPA through Color Red	ole able gh the		andle ki	t - to be u	sed with	front pisto Test fund		Padlo			Catalog no.								
ıts		60 (1500) cat 120 (3000) ca NFPA through Color	ole able gh the		andle ki			front pisto Test fun N		Padloo	(N	Catalog no.								
tacts		60 (1500) cat 120 (3000) cat NFPA through Color Red	ole able gh the	S		Continuo	ous amp	front pisto Test fun N AND	ction	Padloo	numb	N er of aux contacts	Catalog no.								
ontacts		60 (1500) cal 120 (3000) cal NFPA throug Color Red	ole able gh the				ous amp	front pisto Test fun N	ction	Padloo	numb	N	Catalog no. H79-2 Catalog no.								
Accessories Aux. contacts		60 (1500) cat 120 (3000) cat NFPA through Color Red	ole able gh the	S	ontacts	Continuo	ous amp	front pisto Test fun N AND	ction (Vac)	Padloo	numb	N er of aux contacts	Catalog no.								

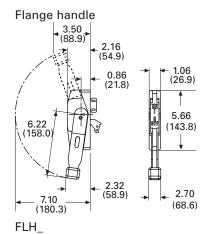
BUSSMANN

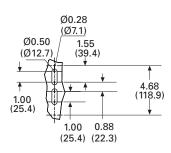


Direct mount handle



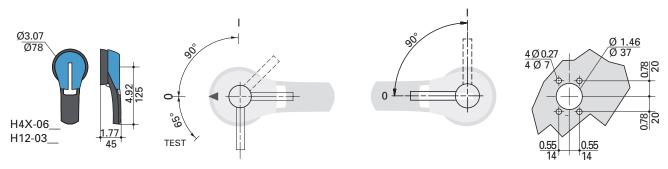
DIR-07





External front and right side pistol handle

Handle type Direction of front operation Direction of right side operation Door drilling layout



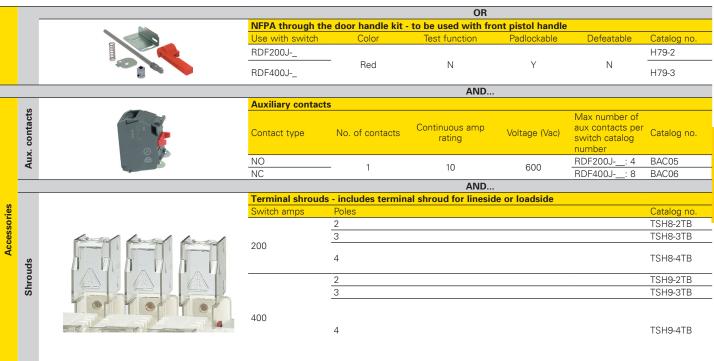


Standard 200 and 400 amp Class J

For a complete assembly, select:

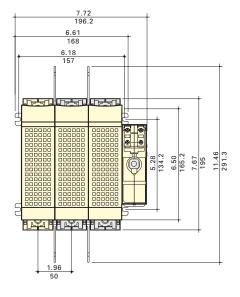
		Switch											
	A 4	Ottiton											
		Fi	use		SCCR	1-phase		x horsepow 3-phase			C*	– – Catalog no.	
			lass	Poles	(kA)	220/240	220/240	440/480	600	125	250		
				2	(, 1)	10	-	-	-	-	-	RDF200J-2	
		200		3		-	60	125	150	-	-	RDF200J-3	
				4		-	60	125	150	-	-	RDF200J-4	
v			J	2	200	10	-	-	-	20	50	RDF400J-2	
igu		400		3	•	-	125	250	350	20	50	RDF400J-3	
+				4	•	-	125	250	350	20	50	RDF400J-4	
Switch + lugs		* DC ratings	use tv	vo poles	in series.								
<u>\sqr</u>	+	Terminal lug kit											
0)		Switch am	nps		les		per kit	F	AWG wi	re / type		Catalog no.	
	Ab.				2		2	_	6-300	kcmil		LUG1-2	
		200			3		3	_	75°C			LUG1-3	
					4		4					LUG1-4	
		400			2 3		2 3	- 4-600 kc	mil or du	ual 1/0-25	50 kcmil	LUG2-2 LUG2-3	
		400			3 4		3 4	-	75°C	Cu/Al		LUG2-4	
					+	-	PLUS					LUG2-4	
		Direct mount handle - mounts directly to switch, no shaft required											
		For switch ca			olor		unction	o quill	Padlo	ckable		Catalog no.	
	l III												
	<u>, </u>	All switches		Bla	ack	,	Y		Υ	1		DIR-07	
	•	2		5									
							OR						
		External front operated pistol handles - shaft required											
suc		NEMA type		<u>-</u>	olor		unction	Padlock	able	Defea	atable	Catalog no.	
atic		1, 3R, 12		Bla	ack							H12-03B	
) Si	l W	1, 3N, 12		Red/	ellow	- 1	N					H12-03R	
apr	_				ack	. '	N	Υ	~		Y	H4X-06B	
2		1, 3R, 4, 4X,	12		ellow			-				H4X-06R	
- da		.,, ., .,			ack		Y					H4X-06TB	
Select for standard applications					ellow							H4X-06TR	
o .	Or	Metallic hasp (he		teavy duty) external front operated pistol handles - shaft required Color Test function Padlockable Defeatab						Cotalogua			
et f		1, 3R, 4, 4X, 12							aDIE			Catalog no. H4X-06BHD	
e e				Black Red/yellow		- 1	N	Υ		`	Y	H4X-06BHD	
Š		External righ	ht side			handles -	shaft regu	iired				1147-0011110	
		NEMA type	TE SIGO		olor		unction	Padlock	able	Defea	atable	Catalog no.	
					ack							H4X-06SB	
es		1, 3R, 4, 4X,	12		ellow	- ľ	N	Υ		N,	/A	H4X-06SR	
Handles	+	Shafts for pi	istol h										
Ha		Length — in	(mm)	Mountin	ng depth	(X) — in (m	ım)					Catalog no.	
		7.9 (200)				(145-230)						- SH5-200	
		(200)				(200-260)						5110 200	
		12.6 (320)		200 A: 5.70-13.78 (145-350)								SH5-320	
				400 A: 7.87-16.93 (200-380)								3110 020	
		15.7 (400)		200 A: 5.70-16.93 (145-430)								- SH5-400	
		.5.7 (400)		400 A: 7	7.87-18.10	(200-460)							
							OR						
		Flange hand	lle (1)	200 A oı	าly - reqเ	uires shaft	operated	mechanisr	n or cal	ole opera	ated me	chanism +	
	1 2	NEMA type		Elona	o ctulo	Toot 6	unction	Padlock	able	Dofe	ntable	Catalagina	
		1, 3R, 4, 12			e style ndard				abie		atable	Catalog no. FLH1	
		1, 3R, 4, 12 1, 3R, 4, 4X,	12		e plated	- 1	N	Υ		`	Y	FLH2	
		Shaft operat				(2) 200 A	only - incl	ides shaft				. 5115	
	3	For enclosure				,	,					Catalog no.	
	3	6~24 (152~6		(11								FLRM	
	8 40	Cable operat		nge me	chanism	and cable	200 A on	y - must s	elect M	echanisn	n (3) an		
	67	Item — in (m		<u> </u>								Catalog no.	
	4	Cable mecha										FLCM	
		36 (900) cable										FLC36	
		60 (1500) cab										FLC60	
	**	120 (3000) ca										FLC120	

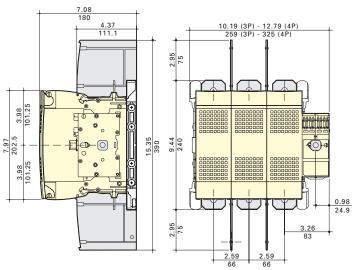




RDF200J-3 RDF400J-3

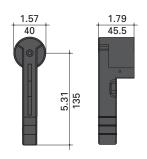




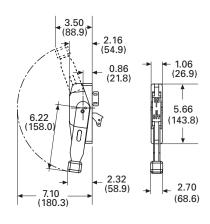


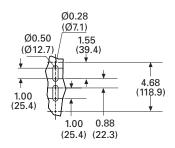


DIR-07 direct mount handle



FLH_ flange handle





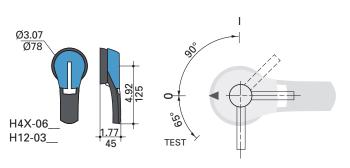
External front and right side pistol handle

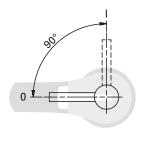
Handle type

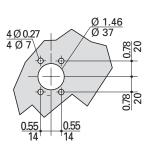
Direction of front operation

Direction of right side operation

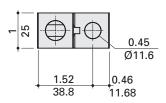
Door drilling layout



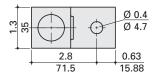


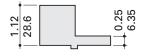


Terminal lugs 200 A (LUG1-__)



400 A (LUG2-__)









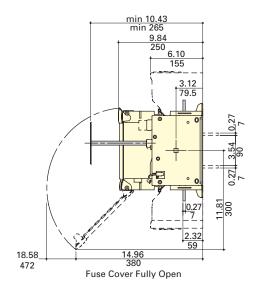
Standard 600 amp Class J and 800 amp Class L

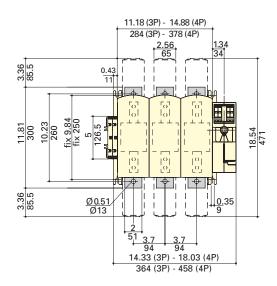
For a complete assembly, select:

			Switch											
		LEG LEG LEG LEG		Fuse				ng, 3-phase						
			Amps	class	Poles	SCCR ()kA)	220/240	440/480	600	Catalog no.				
			600	J	2		200	400	500	RDF600J-2 RDF600J-3				
			000	J	4		200	400	500	RDF600J-4				
	ıgs				2	– 200 ·	-	-	-	RDF800L-2				
	<u> </u>		800	L	3	_	200	500	500	RDF800L-3				
	당		Township of the		4		200	500	500	RDF800L-4				
	Switch + lugs	•	Terminal I		Poles	Lugs per kit	C	onductor AWG s	ize / type	Catalog no.				
	0,		0111011	аттро	2	2		3.1443(31.74.74.3		LUG5-2				
								(2) 2-600 kc	mil					
		0	600-8	300	3	3		75°C Cu/ A		LUG5-3				
					4	4				LUG5-4				
							PLUS	;						
			Direct mo	Direct mount handle - mounts directly to switch, no shaft required										
rtion			For switch			Color	Test	Defeatable	Catalog no.					
olica		u u	All avvitales	_		Black	function Y	Y	NI	DIP 00				
abi	_		All switche	N	DIR-08									
ard	_		OR External front operated pistol handles - shaft required											
ano			NEMA type			Color	Test	Padlockable	Defeatable	Catalog no.				
r st			INEIVIA LYPE	e 			function	Padiockable	Defeatable					
it fo			1, 3R, 4, 4)	X, 12		Black d/yellow	Ν	Υ	Υ	H4X-07B H4X-07R				
Select for standard application		Or	Metallic ha	asp (hea			perated pis	tol handles - sh	aft required	114%-0711				
	Handles		NEMA type			Color	Test function	Padlockable	Defeatable	Catalog no.				
					[Black				H4X-07BHD				
			1, 3R, 4, 4)	X, 12	Red	d/yellow	N	Υ	Υ	H4X-07RHD				
			Shafts for											
		+	Length — i	Catalog no.										
			7.9 (200)			<mark>depth (X) — in</mark> 97 (270~304)	(11111)			SH7-200				
			12.6 (320)		10.63~16.	.69 (270~424)				SH7-320				
			15.7 (400) 10.63~19.84 (270~504)							SH7-400				
	_		15.7 (400)	3117-400										
	_		NFPA thro	ugh the	door hand	lle kit - to be u	OR used with fr	ont pistol hand	le					
			For switch			Color	Test func- tion	Padlockable	Defeatable	Catalog no.				
			All switche	:S	Red		N	Υ	N	H79-4				
			7 0 77710110				AND.		.,					
	(0	-	Auxiliary o	contacts			AND.	•						
	Aux. contacts	1年8	Contact typ		No. of contacts	Continuous amp rating	Voltage (Vac)		of aux contacts per witch	Catalog no.				
	. CO	* 2	NO				(100)	 		BAC05				
	Aux.	(a)	NC		- 1	10	600		8	BAC06				
10			INC				AND.			BACOO				
rie			Terminal s	hrouds	- includes	terminal shrou		de or loadside						
esso		for the fact to the	Switch amp				Pol			Catalog no.				
Accessories	sp						2	2		TSH10-2TB				
	Shrouds		600-800				3			TSH10-3TB				
	U)		223 000											
							4	ļ		TSH10-4TB				

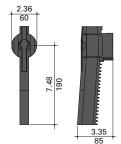


RDF600J-3 and RDF800L-3





Dir-08 drect mount handle

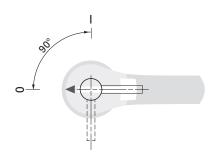


External front pistol handle

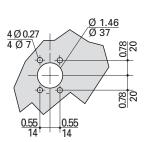
Handle type



Direction of front operation

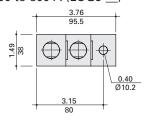


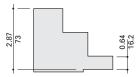
Door drilling layout



Terminal lugs

600 to 800 A (LUG5-__)





11-70



UL 98 non-fused rotary disconnect switches — 30 to 1200 amps

Bussmann series UL 98 non-fused rotary disconnect switches are versatile switches that "break" and "make" power circuits ON and OFF load.

Agency information

- UL 98, Guide WHTY, File E155130
- CSA 22.2 No. 4, File 257020
- Conforms with IEC 60947-3

Features

- · Make and break power under load
- Up to 200 kA SCCR
- Panel mount (30-100 A compact DIN-Rail or panel mount)
- Disconnect switches are front, right side and direct handle operable (30-100 A)
- Finger-safe (30-100 A compact only)
- Fully visualized breaking (100-1200 A)

Online resources

Visit Eaton.com/bussmannseries for:

- · CAD drawings
- · Instruction sheets

IEC specifications

UL information









Related Bussmann series products

Modular Class H(K), J and RK fuse blocks up to 600 A

Modular Class H(K), J and RK power distribution fuse blocks up to 400 A

Modular, finger-safe CH Class CC and J, and UL supplemental and IEC 10x38mm DIN-Rail holders up to 60 A

Finger-safe Optima Class CC, UL supplemental and IEC 10x38mm DIN-Rail/panel mount holders up to 30 A

Finger-safe Optima™ Class CC, UL supplemental and IEC 10x38mm DIN-Rail/panel mount protection modules up to 30 A





RD600-3

						Catal	og no.				
3-pole		RD30-3	RD60-3	RD100-3	RD100-3-SCCR	RD200-3	RD400-3	RD600-3	RD800-3	RD1000-3	RD1200-3
4-pole		_	_	_	_	RD200-4	RD400-4	RD600-4	RD800-4	RD1000-4	RD1200-4
Thermal current I _{th} @ 40°C (A)		30	60	100	100	200	400	_	_	_	_
Rated insulation voltage U _i (V)		800	800	800	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage U _{imp} (kV)		8	8	8	8	8	8	12	12	12	12
Rated operation currents I _e (A)											
Rated voltage (Vac)	Load duty category	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1
400	AC-22 A AC-23 A	-		100	100		400	630	800	1000	1200 1000
	AC-22 A	- 32	63	80	- 100	200		500	630	630	630
690	AC-23 A	_		63	-		315	200	400	400	400
Operational power (Vac) in AC-	·23 (kW)										
400 V w/o prebreak AC ^{1, 2}		15			51	100	220	355	450	F00	FC0
500 V w/o prebreak AC 1, 2		- 15	30	45	63	140	280	450	560	560	560
690 V w/o prebreak AC 1, 2		18.5			90	185	185	185	400	400	400
Overload capacity (U _a 415 Vac)											
Rated short-circuit making capaci	ty I _{cm} (kA peak) ³	12	12	12	17.6	32	48	48	75	48	75
Fuse protected short-circuit wit	thstand										
(kA RMS prospective)											
Short-circuit current (kA) ³		50	50	25	200	200	200	100	100	100	100
Associated fuse rating (A) ³		32	63	100	100	200	400	630	800	1000	1250
Connection											
Minimum Cu cable cross section	(mm²)	2.5	2.5	10	35	70	185	2x150	2x185	2x240	_
Minimum Cu busbar section (mm	n ²)	_	_	_	_	_	_	2x30x5	2x40x5	2x50x5	2x60x5
Maximum Cu cable section (mm²	(1)	70	70	70	300	300	600		_	_	_

- A/B: Category with index A = frequent operation; category with index B = infrequent operation.
- The power value is given for information only; the current values vary from one manufacturer to another.
- 3 For a rated operating voltage, Ue = 400 Vac.









UL specifications

RD30-3

RD200-3

RD600-3

						Catalog no.								
					RD100-3-									
3-pole		RD30-3	RD60-3	RD100-3	SCCR	RD200-3	RD400-3	RD600-3	RD800-3	RD1000-3	RD1200-3			
4-pole						RD200-4	RD400-4	RD600-4	RD800-4	RD1000-4	RD1200-4			
UL standard		UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98	UL 98			
Max ampacity		30 A	60 A	100 A	100 A	200 A	400 A	600 A	800 A	1000 A	1200 A			
Switch type		Compact	Compact	Compact	Standard	Standard	Standard	Standard	Standard	Standard	Standard			
Handle operati		Front/Side	Front/Side	Front/Side	Front	Front	Front	Front	Front	Front	Front			
UL electrical r		0001/	0001/		0001/	0001/	0001/	0001/	0001/	0001/	0001/			
Max voltage (A		600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac			
Max voltage (D					250 Vdc —	250 Vdc		250 Vdc						
	1-phase, 120 1-phase, 240	5	10	5 10	10	10	<u>_</u>							
Max. AC Hp	3-phase, 240	10	20	20	30		125	200	200	200	200			
ratings	3-phase, 480	20	40	50		150	250	400	500	500	500			
	3-phase, 600	25	50	50	100	200	350	350	500	500	500			
	125							20	_					
DC Hp ratings	250							50						
Electrical char														
SCCR with fus		100	100	25 /100*	200	200	200	200	100	100	100			
Fuse class	4	J	J		J	J	J	J	L	L	L			
Max. fuse ratir	ng (A)	30	60	100	10A	200	400	600	800	1000	1200			
Terminal lugs/k		Integral	Integral	Integral	•	•	•	•	•	•	•			
Lug mounting (N•m)	torque - Ib-in	_	_	_	160 (18)	160 (18)	LUG2 310 (35) LUG3 398 (45)	310 (35)	310 (35)	310 (35)	310 (35)			
Wire type		75°C Cu	75°C Cu	75°C Cu	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al	75°C Cu/ Al			
	Solid	12-10, 35.4 (4)	12-10, 35.4 (4)	12-10, 35.4 (4)	_	_	_	_	_	_				
) A (10-1, 35.4 (4)	10-1, 35.4 (4)	10-1, 35.4 (4)	6-300 kcmil, 275 (31)	6-300 kcmil, 275 (31)	LUG2 4-600 kcmil, 550 (62)	(2) 2-600 kcmil, 375	(4) 2-600 kcmil, 375	(4) 2-600 kcmil, 375	(4) 2-600 kcmil, 375			
Wire range and torque -	Chronodod	1/0, 39.8	1/0, 39.8	1/0, 39.8			Dual 1/0-250	(42.4)	(42.4)	(42.4)	(42.4)			
lb-in (N•m)	Stranded	<u>(4.5)</u> 2/0, 44.3 (5)	(4.5) 2/0, 44.3 (5)	(4.5) 2/0, 44.3 (5)			kcmil, 550 (62) LUG3: (2) 6-2, 200 (22.6)							
				(5)			(2) 1-350 kcmil, 375 (42.4)							
Mechanical ch	naracteristics						070 (42.4)							
Endurances/Cy		10,000	10,000	10,000	10,000	8000	6000	6000	3500	3500	3500			
Physical chara		,	,	,	,									
Dimensions					See dra	awings on produ	uct pages							
Weight - Ibs	3-pole	1.3 (0.6)	1.3 (0.6)	1.3 (0.6)	4.2 (1.91)	4.2 (1.91)	10.0 (4.6)	18.1 (8.2)	19.6 (8.9)	19.6 (8.9)	19.6 (8.9)			
(kg)	4-pole	_	_		_	5.0 (2.3)	12.3 (5.6)	23.9 (10.9)	25.3 (11.5)	25.3 (11.5)	25.3 (11.5)			
Environmenta	ıl													
Operating Tem		-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C			
Flammability R	ating	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0			
Accessories	3-pole	Integral	Integral	Integral	•	•	•	•	•	•	•			
Lug kit cat. no.	4-pole	—	—	—		•	•	•	•	•	•			
	NEMA 1, 3R, 12	•	•	•	•	•	•	_	_	_				
	NEMA 1, 3R, 4, 4X, 12	•	•	•	•	•	•	•	•	•	•			
Handles	Direct	•	•	•	•	•	•	•	•	•	•			
	Front Pistol	•	•	•	•	•	•	•	•	•	•			
	Front or Side Selector	•	•	•	_	_	_	_	_	_				
Shaft c/s - mm		5x5	5x5	5x5	10×10	10×10	10×10	12x12	12x12	12x12	12×12			
Shaft guide		•	•	•	•	•	•	•	•	••	•			
Shrouds		•	•	•	•	•	•	•	•	•	•			
Additional pole		•	•	•				_	_	_				
Auxiliary	NO + NC	•	•	•	•	•	•	•	•	•	•			
contacts	(2) NO	•	•	•	_	_	_	_	_	_	_			

Available, see product page for details and catalog numbers.
 Not available.
 * 25 kA @ 600 Vac, 100 kA @ 480 Vac.



UL 98 non-fused rotary disconnect switches — 30, 60 and compact 100 A

For a complete assembly, select:

			Switch								
		.44.0.					orsepowe	er rating			
					1-ph			3-phase		Conductor	
	tch	# # # ##	Amps Pol	es SCCR (kA)	120		220/240	440/480		AWG size/type	Catalog no.
	Switch	2	30	100	2	5	10	20	25	10-2/0 Str/12-10 Sol	RD30-3
	S		603		3	10	20	40	50	75°C Cu	RD60-3
			* 100 kA @480 \	25/100*	5	10	20	50	50		RD100-3
			* 100 KA @480 V	/ac, 25 kA @ 600 Vad	C.		PLUS				
			Direct mount by	andle - mounts dire	ootly to c	witch no		uirod			
			For switch cat. n		ectly to s	Test fur		uneu	Padlo	ckable	Catalog no.
			All switches	Black		N		,		Switch	DIR-02
			7 111 0 1 1 1 1 0 0	21461			OR				5 02
		1 2	External front o	r right side operat	ed select	or handles	- shaft re	equired			
			NEMA type	Color	Handle	Test fur	nction		Padlo	ckable	Catalog no.
			TILIVIA type		length	lest lui	iction		i auto	CKable	
				Black	Short						H4X-01B (1)
ou			1, 3R, 4, 4X, 12	Red/yellow	Short	Ν				Υ	H4X-01R (1)
ati				Black	Long						H4X-02B (2)
plic		Or	External front o	Red/yellow	Long	oft roquiro	4				H4X-02R (2)
ар		Or		perated pistol han	Handle						
ard			NEMA type	Color	length	Test fur	nction	Padlockabl	e	Defeatable	Catalog no.
Select for standard application			1 00 4 47 43	Black	—						H4X-03B
sta			1, 3R, 4, 4X, 12	Red/yellow		N		Υ		Υ	H4X-03R
o			Metallic hasp (h	eavy duty) externa	al front o	perated pi	stol hand	lles - shaft requ	ired		
ct	es		NEMA type	Color	Handle	Test fur	nction	Padlockabl		Defeatable	Catalog no.
e e	Handles		TVEIVIA type		length	1031 101	TICLIOIT	- adiockabi		Delegrable	
S	Ηa		1, 3R, 4, 4X, 12	Black		N		Υ		Υ	H4X-03BHD
			Objetta faminalia	Red/yellow							H4X-03RHD
		+	Shafts for selec		h (V) in	(mm)					Catalog no.
		1	Length — in (mr 5.9 (150)	3.50~7.60 (89~		(111111)					SH4-150 (1)
			7.9 (200)	3.50~9.50 (89~							SH4-200 (1)
			12.6 (320)	3.50~14.9 (89~							SH4-320 (1)
			Shafts for pisto								
		2	Length — in (mn		h (X) - in (mm)					Catalog no.
		2	7.9 (200)	3.30~7.40 (84~	188)						SH3-200 (2)
			12.6 (320)	3.30~9.30 (84~	-236)						SH3-320 (2)
		E. C.	15.7 (400)	3.30~14.7 (84~	·373)						SH3-400 (2)
		+	Shaft guide for	selector handles							
			D : 15 404	211 (0000	6	1.6	1 1				Catalog no.
			Shaft guide for	6" (320mm) long sha	iπs, optior	nai for otne	riengths				SH-GUIDE1
			Shart guide for	pistoi manules							Catalog no.
			Required for 15.7	7î (400mm) long sha	ifts, option	nal for other	r lenaths				SH-GUIDE2
				<u> </u>	,		AND				
		6	Auxiliary contac	ets							
	ts	. = 1	Contact type	No. of cont	acts	Continuo		Voltage (Vac)	Max	number of units per	Catalog no.
	Aux. contacts		Jontage type	140. 01 00110		ratir	ng	- voitage (vac)		switch	Julianog 110.
	Ö		NO + NC	1 of eac	:h			240	2 (1	per side/4 contacts total)	BAC01
	×					10)		2 (1	per side/4 contacts	
	Αſ	C	NO	2					_ (.	total)	BAC02
							AND				
Se	(0			ds - includes termi	nal shrou	d for both	lineside	and loadside			
Accessories	Shrouds		Switch	Poles				Location	on sv	vitch	Catalog no.
SS	hro		amps								
\cc	S	C C	All switch es	1 (for switched 3	4th pole)			Lineside a	nd loa	dside	TSH3-1TB TSH3-3TB
1				3			AND				10110-010
		and and	Switched 44h D	lolo converto 2 ma	alo carital	to 4 pole	AND				
	a)			ole - converts 3-po	ne switch	to 4-poie					
	lod		Switch amps								Catalog no.
	₽₽		30								POLE98-30
	Sw. 4 th pole	4	60								POLE98-60
	Ś	a 1814							-		
											POLE98-100
		contact polonog	100				M 000				



Possible 4th pole configurations





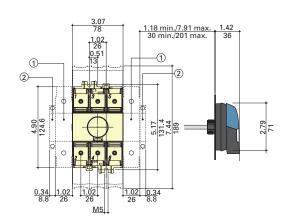




Dimensions - in (mm)

Direct handle operation

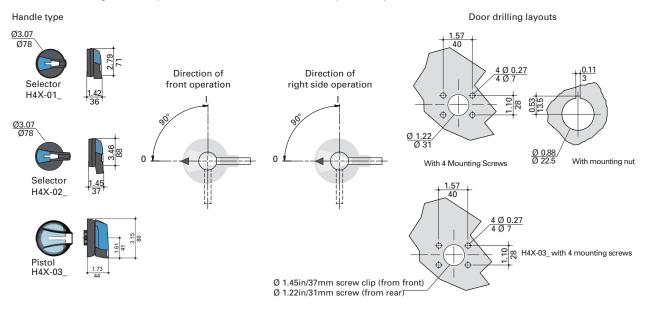
External right side operation



- 1. Position for 1 switched 4th pole (1 per device max.) or 1 auxiliary contact.
- 2. Position for 1 auxiliary contact only.

Note: Maximum of 4 Auxiliary contacts, or 3 Auxiliary contacts + one switched 4th pole.

External front/right side operated selector handle, front operated pistol handle



External front operation

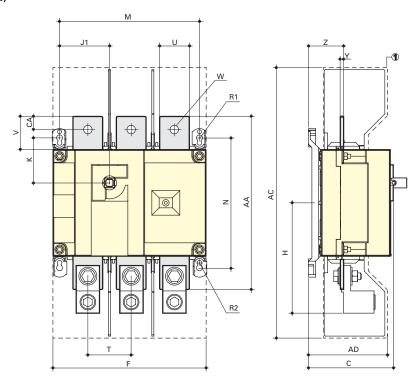


UL 98 non-fused rotary disconnect switches—100, 200 and compact 400 A

For a complete assembly, select:

			Switch							
		4.4					Max hors	sepower rating		
		. 11 11				1-phase		3-phase		
		201010	Amps	Poles	SCCR (kA)	220/240	220/240	440/480	600	Catalog no.
			100	- 3		10	30	75	100	RD100-3-SCCR
		Em Stown	200		_	10	75	150	200	RD200-3
		School Co.		4	_ 200	10	75	150	200	RD200-4
			400	3	_	-	125	250	350	RD400-3
				4		-	125	250	350	RD400-4
	ن	+	Terminal Iu Switch							
	Switch		amps	Poles	Lugs p	oer kit	Con	ductor AWG si	ze/type	Catalog no.
	S			2	2			0.0001		LUG1-2
			100-200	3	3	8		6-300 kcmil 75°C Cu/ Al		LUG1-3
				4	4			, o o ou, , i		LUG1-4
				2	2		4-600 kg	mil or Dual 1/0	0-250 kcmil	LUG2-2
				3	3		1 000 11	75°C Cu/ Al		LUG2-3
			400	2	4					LUG2-4
_				3	2			(2) 6-350 kcm		LUG3-2 LUG3-3
tio				4	4			75°C Cu/ Al		LUG3-4
lica							PLUS			2000 4
Select for standard application			Direct mou	ınt handle	- mounts di	rectly to sw		aft required		
rd		TIP .	For switch of		Со		Test		ckable	Catalog no.
ndai		ı ı					function			
tan			All switches	3	Bla	ick	N		Y	DIR-03
or s							OR			
it fe			External fr	ont opera	ted pistol ha	ndles - shat				
e e			NEMA type)	Со	lor	Test function	Padlockable	Defeatable	Catalog no.
Š			4 00 40		Bla	ick				H12-03B
		WW	1, 3R, 12		Red/y	ellow	NI	V	V	H12-03R
		Or	1, 3R, 4, 4X	(12	Bla	ck	Ν	Υ	Υ	H4X-06B
					Red/y					H4X-06R
	e		Metallic has	sp (heavy d	duty) external	front operat		ndles - shaft re	equired	
	Handle		NEMA type)	Со	lor	Test function	Padlockable	Defeatable	Catalog no.
	I				Bla	ck				H4X-06BHD
			1, 3R, 4, 4X	(, 12	Red/y		Ν	Υ	Υ	H4X-06RHD
		+	Shafts for	pistol han	dles					
			Length — in	n (mm)		epth (X) - in	(mm)			Catalog no.
			7.9 (200)		5.31~10.43					SH5-200
			12.6 (320)		5.31~15.16					SH5-320
			15.7 (400) Shaft Guid	la	5.31~18.31	(135~465)				SH5-400
		, , , , , , , , , , , , , , , , , , ,	Shart Guid	ie						Catalog no.
		6								Catalog 110.
			Required fo	r 15 7î (40)	0mm) long sh	afts optiona	I for other l	enaths		SH-GUIDE2
					, .eg	,				
		RICEON					AND			
			Auxiliary c	ontacts						
	Ş		Contact	No. of	Continuous	amp rating	Voltage	Max num	ber of aux	Catalog no.
	Aux. contacts		type	contacts	Continuous	amp rating	Vac	contacts	per switch	
	.uo		NO + NC	-	10	.1	125-250			BAC03*
	×.	FRANKS W	NO + NC	- 1 of each				-	2	BAC04* BAC11*
	Au	The state of the s	NO + NC	-	1		125			BAC11*
es				ary contact, ins	tall either BAC03 o	r BAC11. For two	auxiliary contact	s, install BAC03 + B	AC04, or BAC11 + I	
Sori							AND			
Accessories			Terminal s	hrouds - i	ncludes term	inal shroud	for Linesia	le or loadside		
Acc			Switch		Poles			ocation on sw	ritch	Catalog no.
	s)		amps		. 3100					
	pne		100-200		3	-		Lineside Loadside		TSH4-3T TSH4-3B
	Shrouds		100-200		4		1	ineside or load	side	TSH4-4TB
	S		-				<u>L</u>	Lineside	Juliu C	TSH5-3T
			400		3	-		Loadside		TSH5-3B
					4		L	ineside or load	side	TSH5-4TB

Dimensions — in (mm)



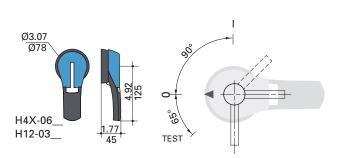
Switch	Overall	Termin	al shrouds			Switc	h body				Switch	moun	ting					Conne	ction			
amps	dim. C	AC	AD	F 3p.	F 4p.	H	J1 3p.	J1 4p.	K	M 3p.	M 4p.	N	R1	R2	T	U	V	W	Υ	Z	A A	AC
100	3.72 (95)	10.1	3.05 (78)	7.09	9.06	4.22	2.17	4.13	1.8	6.3	8.27	5.31	0.35	0.27	1.97	0.98	1.18	0.43	0.14	1.35	6.3	0.6
100	3.72 (95)	(256)	3.05 (78)	(180)	(230)	(107)	(55)	(105)	(46)	(160)	(210)	(135)	(9)	(7)	(50)	(25)	(30)	(11)	(4)	(34)	(160)	(15)
200	2.72 (05)	10.1	2.05 (70)	7.09	9.06	4.22	2.17	4.13	1.8	6.3	8.27	5.31	0.35	0.27	1.97	0.98	1.18	0.43	0.14	1.35	6.3	0.6
200	3.72 (95)	(256)	3.05 (78)	(180)	(230)	(107)	(55)	(105)	(46)	(160)	(210)	(135)	(9)	(7)	(50)	(25)	(30)	(11)	(4)	(34)	(160)	(15)
400	4.02 (120)	16	4.15 (115)	9.05	11.4	6.53	2.95	5.31	2.65	8.26	10.6	7.67	0.35	0.27	2.56	1.77	1.97	0.43	0.2	2.08	10.2	0.8
400	4.92 (128)	(406)	4.15 (115)	(230)	(290)	(166)	(75)	(135)	(68)	(210)	(270)	(195)	(9)	(7)	(65)	(45)	(50)	(13)	(5)	(53)	(260)	(20)

DIR-03 direct mount handle

1.57 40 45.5 1.79 45.5

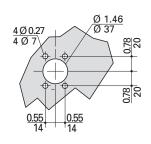
External front handle

Handle type

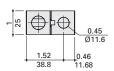


Direction of front operation

Door drilling layout

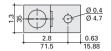


Terminal lugs



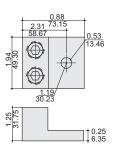


LUG1-_ 100 to 200 A





LUG2-_ 400 A



LUG3-_ 400 A



UL 98 non-fused rotary disconnect switches — 600, 800, 1000 and 1200 A

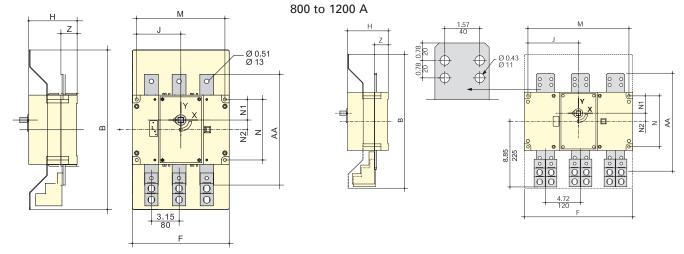
For a complete assembly, select:

			Switch							
			SWILLII				Max horser	ower rating		
					SCCR		3-phase		DC*	_
			Amps	Poles	(kA)	220/240	440/480	600	125 250	Catalog no.
			600 -	3	- 200	240	400	350	20 50	RD600-3
		The state of the s	600 -	4	- 200	240	400	350	20 50	RD600-4
			800 -	3	_	200	500	500		RD800-3
				4	-	200	500	500		RD800-4
	_	The state of the s	1000 -	3	- 100	200	500	500		RD1000-3
	itch	N and		4	-	200	500 500	500 500		RD1000-4 RD1200-3
	Switch	*	1200 -	3 4	-	200	500	500		RD1200-3
	•,		* DC ratings use	two poles in serie	S	200	500	500		ND 1200-4
		+	Terminal lug l	-	0.					
				Poles		Luca par kit	Lucia raquira	al max mala	Conductor AWC	Catalog no.
		The same of the sa	Switch amps			Lugs per kit	Lugs require	ed per pole	size/type	
			600 -	3		3	- 1		(2) 2-600 kcmil	LUG5-3
		0.00		4		4			75°C Cu/ Al	LUG5-4
			800-1200 —	3 4		<u>6</u> 8	- 2		(4) 2-600 kcmil 75°C Cu/ Al	LUG6-6
5				4		8	PLUS		75 C Cu/ Ai	LUG6-8
Select for standard application		IIQ.	Direct mount h	andle - mounts	directly to	o switch no sh				
oje			For switch		directly t	Color	Test function	Pa	dlockable	Catalog no.
app		Vir	10101110			30.0.	1000 1011011011		alo di abio	
힏			ΔΙΙ ενν	vitches		Black	N		Υ	DIR-04
nda		III.	All 3W	71101103		Didok	14			DITTO
stal							OR			
o		1 2	External front	operated pisto	ol handle	s - shaft requir				
t T		· • • • • • • • • • • • • • • • • • • •	NEMA type	- средения расс		Color	Test function	Padlockable	Defeatable	Catalog no.
ele						Black				H4X-07B (1)
S		W .	1, 3R, 4, 4X, 12	2	Re	ed/yellow	- - N	Υ	Y	H4X-07R (1)
			1, 511, 4, 47, 12	_		Black	-	'	'	H4X-08B (2)
		•				ed/yellow				H4X-08R (2)
	S	3 Or 4		(heavy duty) e	xternal f		pistol handles			Catalana
	Handles		NEMA type			Color Black	Test function	Padiockable	Defeatable	Catalog no. H4X-07BHD (3)
	Har					ed/yellow	-			H4X-07BHD (3)
		3.	1, 3R, 4, 4X, 1			Black	- N	Υ	Υ	H4X-08BHD (4)
					Re	ed/yellow	-			H4X-08RHD (4)
			Shafts for pist	tol handles						
			Length — in (n	nm)		ig depth (X) — i	n (mm)			Catalog no.
			7.9 (200)			5.50 (221~343)				SH6-200
			12.6 (320)			3.23 (221~463)				SH6-320
			15.7 (400) Shaft guide		8.70~21	.38 (221~543)				SH6-400
		+	Snart guide							Catalog no.
										Catalog 110.
			Required for 15	5.7" (400mm) lo	ng shafts,	optional for oth	ner lengths			SH-GUIDE2
							AND			
		4	Auxiliary cont	acts						
	cts	\	Contact type I	No. of contacts	Continu	ous amp rating	Voltage (Vac)		er of aux contacts	Catalog no.
	Aux. contacts		NO + NC	1 of each				pe	er switch	BAC03*
	CO	(a) (8)	NO + NC	1 of each	-	10.1	125-250			BAC04*
	Ä.	F8316-3848-344	NO + NC	1 of each					2	BAC11*
es	Ā		NO + NC	1 of each	-	1	125			BAC12*
Accessories					ither BAC0	3 or BAC11. For tw	vo auxiliary contact	ts, install BACO	03 + BAC04, or BAC	
Ses							AND			
Acc		· /		ds* — includes	terminal	shroud for lines				
	ιn	-	Switch amps	Poles			Location	on switch		Catalog no.
	pn		600 -	3		_				TSH6-3TB
	Shrouds			4		-	Lineside o	or loadside		TSH6-4TB
	Ś		800-1200 —	3 4		-				TSH7-3TB TSH7-4TB
			* Shroud for lin	neside included	with ewit	·ch				1311/-41D
			Sinoud for III	iosiae iriciaaea	vvitii 3VVII	.011.				



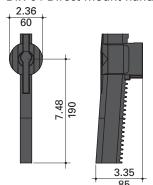
Dimensions — in (mm)





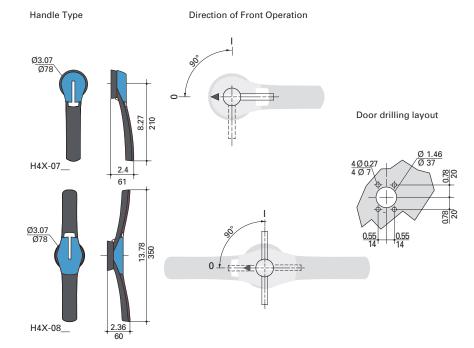
Switch	Terminal		S	witch body				Swite	h mounting	3		Conne	ction
amps	shrouds B	F 3p.	F 4p.	Н	J 3p.	J 4p.	M 3p.	M 4p.	N	N1	N2	A A	Z
600	18.12 (460)	11 (280)	14.17 (360)	5.5 (140)	5 (128)	6.59 (168)	10.03 (255)	13.19 (335)	6.88 (175)	2.34 (60)	1.1 (28)	12.6 (320)	1.85 (47)
800	18.12 (460)	14.64 (372)	19.37 (492)	5.5 (140)	6.83 (174)	9.19 (234)	13.66 (347)	18.38 (467)	6.88 (175)	2.34 (60)	1.1 (28)	13 (330)	1.85 (47)
1000	18.12 (460)	14.64 (372)	19.37 (492)	5.5 (140)	6.83 (174)	9.19 (234)	13.66 (347)	18.38 (467)	6.88 (175)	2.34 (60)	1.1 (28)	13 (330)	1.85 (47)
1200	18.12 (460)	14.64 (372)	19.37 (492)	5.5 (140)	6.83 (174)	9.19 (234)	13.66 (347)	18.38 (467)	6.88 (175)	2.34 (60)	1.1 (28)	13 (330)	1.85 (47)

DIR-04 Direct mount handle

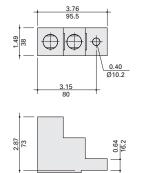


Terminal lugs

External front pistol handles



LUG5-__, LUG6-__ 600 to 1200 A





UL 508 non-fused rotary disconnect switches — 16 to 80 A

Eaton UL 508 load break disconnect switches allow safe control and safe disconnection of any motor application or to isolate a circuit within the panel.

These disconnect switches are compact and offer a wide variety of accessories like 4th poles, Auxiliary contacts, door mounting and 6/8-Pole kits.

Features

- · Suitable for motor disconnect
- · DIN-Rail or panel mount
- · Door mount option
- Disconnect switches are front, right side or direct handle operable
- · Finger-safe

Agency information

- UL 508, Guide NLRV, File E155129
- CSA C22.2 No. 14, File 257020
- Conforms with IEC 60947-3

Online resources

Visit Eaton.com/bussmannseries for:

- · CAD drawings
- · Instruction sheets
- UL information



Related Bussmann series products

Fuse blocks

Modular Class H(K), J and RK fuse blocks up to 600 A

Modular Class H(K), J and RK power distribution fuse blocks up to 400 A Modular, finger-safe CH Class CC and J, and UL supplemental and IEC 10x38mm DIN-Rail holders up to 60 A

Finger-safe Optima Class CC, UL supplemental and IEC 10x38mm DIN-Rail/panel mount holders up to 30 A

Finger-safe Optima™ Class CC, UL supplemental and IEC 10x38mm DIN-Rail/panel mount protection modules up to 30 A



IEC specifications

RD16-3-508

RD16-3-508 with 6-pole conversion kit

	Catalog no.	RD16-3-508	RD25-3-508	RD40-3-508	RD63-3-508	RD80-3-508
Thermal current I _{th} at 4	10°C (A)	16	25	40	63	80
Rated insulation voltag	ge U _i (V)	800	800	800	800	800
Rated impulse withsta	nd voltage U _{imp} (kV)	8	8	8	8	8
Rated operation curre	ents le (A)					
Load duty category	Rated voltage	A/B ¹				
500	AC-22 A/ AC-22 B	16/16	25/25	40/40	63/63	80/80
500	AC-23A/ AC-23 B	16/16	25/25	25/25	63/63	63/63
	AC-21 A/ AC-21 B	16/16	25/25	40/40	63/63	80/80
690	AC-22 A/ AC-22 B	16/16	25/25	32/40	40/63	63/80
	AC-23A/ AC-23 B	16/16	25/25	25/25	40/40	40/40
Operational power in	AC-23 (kW)					
400 Vac without prebre	eak AC 1, 2	7.5	11	18.5	30	37
500 Vac without prebre	eak AC 1, 2	7.5	11	15	30	37
690 Vac without prebre	eak AC 1, 2	7.5	15	18.5	30	37
Overload capacity (U	, 415 Vac)					
Rated short-time withs RMS) ³	stand current 0.3 s. ICW (kA	2.5	2.5	2.5	3	3
Rated short-time making	ng capacity I (kA peak) 3	6	6	6	9	9
Fuse protected short	-circuit withstand (kA RMS pro	ospective)				
Prospective short-circu	uit current (kA RMS) 3	50	50	50	50	50
Associated fuse rating	(A) ³	16	25	40	63	80
Connection						
Minimum Cu cable cro	oss section (mm²)	1.5	1.5	1.5	2.5	2.5
Maximum Cu cable se	ection (mm²)	16	16	16	35	35
Tightening torque min/	/max (Nem)	2/2 2	2/2 2	2/2 2	3 5/3 85	3 5/3 85

- A/B: Category with index A = frequent operation; category with index B = infrequent operation.
- The power value is given for information only; the current values vary from one manufacturer to another.
- 3 For a rated operating voltage, U = 400 Vac.





UL specifications



RD16-3-508

RD16-3-508 with 6-pole conversion kit



	Catalog no.	RD16-3-508	RD25-3-508	RD40-3-508	RD63-3-508	RD80-3-508
UL standard		UL 508	UL 508	UL 508	UL 508	UL 508
Max ampacity		16 A	25 A	40 A	63 A	80 A
Handle operation		Front/Side	Front/Side	Front/Side	Front/Side	Front/Side
UL ratings						
Max voltage (AC)		600 Vac	600 Vac	600 Vac	600 Vac	600 Vac
	3-phase, 208	3	7.5	7.5	15	15
May Ha ratings	3-phase, 240	5	7.5	7.5	20	20
Max. Hp ratings	3-phase, 480	10	15	20	40	40
	3-phase, 600	10	20	25	40	40
Electrical characteristics						
SCCR with fuse (kA)		65	65	10/65	50/65	50/65
	Fuse class	J	J	J	J	J
Recommended upstream	Max. fuse rating (A)	30	30	60/30	100/60	100/60
Terminals		Integral	Integral	Integral	Integral	Integral
Wire type		75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu
	Solid single	14-10, 26.5 (3)	14-10, 26.5 (3)	14-10, 26.5 (3)	14-10, 31.1 (3.5)	14-10, 31.1 (3.5)
Wire range and torque - Ib-in	Solid dual	12, 26.5 (3)	12, 26.5 (3)	12, 26.5 (3)	12, 31.1 (3.5)	12, 31.1 (3.5)
(N•m)	Stranded single	14-4, 26.5 (3)	14-4, 26.5 (3)	14-4 , 26.5 (3)	14-1, 31.1 (3.5)	14-1, 31.1 (3.5)
	Stranded dual	14-12, 26.5 (3)	14-12, 26.5 (3)	14-12, 26.5 (3)	10-6, 31.1 (3.5)	10-6, 31.1 (3.5)
Mechanical characteristics		, ==== (=/	, ==== (=/	, ==:= (=/	, , , ,	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Endurances/cycles		10,000	10,000	10,000	10,000	10,000
Physical characteristics		,	,		,	,
Dimensions		See	drawings on produc	ct pages		
Weight- lb (kg)		0.5 (0.2)	0.5 (0.2)	0.5 (0.2)	0.7 (0.32)	0.7 (0.32)
Environmental		0.0 (0.2)	0.0 (0.2)	0.0 (0.2)	0.7 (0.02)	0.7 (0.02)
Operating temperature		-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C	-20 to 70°C
Flammability rating		UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0	UL 94-V0
Accessories		OL 34-V0	OL 34-V0	OL 34-V0	OL 34-V0	OL 34-V0
Accessories	Direct	DIR-01	DIR-01	DIR-01	DIR-01	DIR-01
		H4X-01B	H4X-01B	H4X-01B	H4X-01B	H4X-01B
	Short selector/NEMA 1, 3R, 4, 4X, 12	H4X-01B	H4X-01B	H4X-01B	H4X-01B	H4X-01B
	 					
Lla malla a	Long selector/NEMA 1, 3R, 4, 4X, 12	H4X-02B	H4X-02B	H4X-02B	H4X-02B	H4X-02B
Handles		H4X-02R	H4X-02R	H4X-02R	H4X-02R	H4X-02R
	Pistol handle/NEMA 1, 3R, 4,	H4X-03B	H4X-03B	H4X-03B	H4X-03B	H4X-03B
	4X, 12	H4X-03R	H4X-03R	H4X-03R	H4X-03R	H4X-03R
	Metallic hasp (HD) pistol handle/	H4X-03BHD	H4X-03BHD	H4X-03BHD	H4X-03BHD	H4X-03BHD
	NEMA 1, 3R, 4, 4X, 12	H4X-03RHD	H4X-03RHD	H4X-03RHD	H4X-03RHD	H4X-03RHD
	5.9"/150mm	SH4-150	SH4-150	SH4-150	SH4-150	SH4-150
Selector handle shafts - 5x5mm	7.9"/200mm	SH4-200	SH4-200	SH4-200	SH4-200	SH4-200
	12.6"/320mm	SH4-320	SH4-320	SH4-320	SH4-320	SH4-320
	7.9"/200mm	SH3-200	SH3-200	SH3-200	SH3-200	SH3-200
Pistol handle shafts - 5x5mm	12.6"/320mm	SH3-320	SH3-320	SH3-320	SH3-320	SH3-320
	15.75"/400mm	SH3-400	SH3-400	SH3-400	SH3-400	SH3-400
Selector handle shaft guide		SH-GUIDE1	SH-GUIDE1	SH-GUIDE1	SH-GUIDE1	SH-GUIDE1
Pistol handle shaft guide		SH-GUIDE2	SH-GUIDE2	SH-GUIDE2	SH-GUIDE2	SH-GUIDE2
Door mount kit		DOOR-508	DOOR-508	DOOR-508	DOOR-508	DOOR-508
	1-Pole	TSH1-1TB	TSH1-1TB	TSH1-1TB	_	_
	3-Pole (loadside and lineside)	TSH1-3TB	TSH1-3TB	TSH1-3TB	TSH2-3TB	TSH2-3TB
	Switched 4th pole/switch amps	POLE-16	POLE-25	POLE-40		_
Shrouds/switch amps	Ground module (conforms to IEC 60947-3)	GND-16-40	GND-16-40	GND-16-40	GND-63-80	GND-63-80
	Neutral module (conforms to IEC 60947-3)	NTRL-16-40	NTRL-16-40	NTRL-16-40	NTRL-63-80	NTRL-63-80
	NO + NC (1 ea.)	BAC01	BAC01	BAC01	BAC01	BAC01
	(2) NO	BAC02	BAC02	BAC02	BAC02	BAC02
Auxiliary contacts	AC ratings					
•	Volts	240 Vac	240 Vac	240 Vac	240 Vac	240 Vac
	Amps	10	10	10	10	10
0.60 1 : 1::	o switches of same rating, 16-80 A	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE

[—]Not available.



UL 508 non-fused rotary disconnect switches —16, 25, 40, 63 and 80 A

For a complete assembly, select:

		Switch									
					Max. Class	Ma	ax horsepow	er rating, 3	-Phase		
				SCCR @600V	J fuse					Conductor AWG size/	
	L	Amps	Poles	(kA)	amps	208	<u>-</u>	440/480	600	type	Catalog no.
	0 0 0	16		65	30 -	3	5	10	10	— 14-10 Sol, Dual 12	RD16-3-508
t t	ON MOST TON	25		10	60	7.5	7.5	15	20	— Sol, 14-4 Str, Dual	RD25-3-508
Switch	2()	40		65	30	7.5	7.5	20	25	14-12 Str, 75°C Cu	RD40-3-508
03			3	50	100						
	0 0 0 6	63		65	60	15	20	40	40	14-10 Sol, Dual 12	RD63-3-508
				50	100					— Sol, 14-1 Str, Dual	
		80		65	60	15	20	40	40	10-6 Str, 75°C Cu	RD80-3-508
							PLUS				
		Direct mour	nt handle	- mounts direct	ly to switch,	no shaf	ft required				
		For switch ca	at. no.		Color		Test fu	unction		Padlockable	Catalog no.
		All switches			Black		1	V	,	Y - On Switch	DIR-01
		Futamet for		Laida amanata d	a alaatau baa	ا مالم	OR	_			
	1 2	NEMA type	nt or right	t side operated Color	Handle le			unction		Padlockable	Catalog no.
		INCINIA LYPE		Black			1621 11	anction		I GUIUCKADIE	H4X-01B (1)
		١		Red/vellow	- Shor	t					H4X-01B (1)
u		1, 3R, 4, 4X,	12	Black			- 1	V		Υ	H4X-02B (2)
ati				Red/yellow	- Long	1					H4X-02R (2)
<u> </u>	Or	External fro	nt operate	ed pistol handle	es - shaft req	uired					
abk		NEMA type		Color	Handle le	ength	Test fu	unction	Padlockabl	e Defeatable	Catalog no.
2		1, 3R, 4, 4X,	12	Black	_		1	V	Υ	Υ	H4X-03B
da				Red/yellow						<u> </u>	H4X-03R
tan			o (heavy di	uty) external fron					Dadlaakabl	a Defeatable	Catalagina
S		NEMA type		Color Black	Handle le	ength	iest it	unction	Padlockabl	e Defeatable	Catalog no. H4X-03BHD
Select for standard application es		1, 3R, 4, 4X,	12	Red/yellow	· _		1	V	Υ	Υ	H4X-03BHD
<u>ec</u>		Shafts for s	elector ha	- ' '							111710011112
Se		Length — in		Mounting dept	th (X) - in (mm	1)					Catalog no.
Sel	1	5.9 (150)		3.50~7.60 (89~							SH4-150 (1)
±		7.9 (200)		3.50~9.50 (89			,				SH4-200 (1)
		12.6 (320)		3.50~14.9 (89	~378)						SH4-320 (1)
		Shafts for p				`					0.11
	2	Length — in	(mm)	Mounting dept		1)					Catalog no.
		7.9 (200) 12.6 (320)		3.30~7.40 (84~							SH3-200 (2) SH3-320 (2)
		15.7 (400)		3.30~9.30 (84)							SH3-400 (2)
	+		s for selec	tor and pistol h							2.13 .30 (2)
		Handle type									Catalog no.
		Selector		Required for 12	2.6" (320mm)	long sha	afts, optiona	I for other I	engths		SH-GUIDE1
		Pistol		Required for 1	5.7" (400mm)	long sha	afts, optiona	I for other I	engths		SH-GUIDE2
	1880										
	+	Door mount									
				n the right side o switch and selec				enclosure	door using s	switch side operation sh	att location. Kit
		Switch	iait. Order	SWILCH and Selec	CLOI Hariule Se	paratery	<u>'. </u>				Catalog no.
		OVVICOIT									Catalog IIO.
		All switches	- kit includ	es shaft							DOOR-508
						_	AND				
							AND				



	S	6	Auxiliary contacts					
	Aux.Contacts	· 1	Contact type	No. of contacts	Continuous amp rating	Voltage (Vac) rating	Max number of units per switch	Catalog no.
	Ö		NO + NC	1 Ea.				BAC01
	Aux.		NO	2	10	240	2 (1 per side/4 contacts total)	BAC02
						AND		
			Terminal shrouds - inc	cludes terminal	shroud for both line	side and loadside		
	Shrouds		Switch amps		Poles		Location on switch	Catalog no.
	Jr0		16-40	1 (fc	or switched 4th pole)			TSH1-1TB
	S	c c c	16-40 63-80		3		Lineside and loadside	TSH1-3TB TSH2-3TB
			03-00			AND		13112-3115
		ent (a)	Switched 4th pole - co	onverts 3-pole s	witch to 4-pole swit			
	<u>e</u>	•	Switch amps					Catalog no.
es	4th pole	and the state of t	16					POLE-16
Accessories	4		25					POLE-25
Ses			40					POLE-40
Ă						AND		
	<u>s</u>			Nodules - provid	les unswitched grou		onforms to IEC 60947-3	
	pou		Switch amps			Module Type		Catalog no.
	r.		16-40	_		Ground		GND-16-40
	nen		63-80			Ground		GND-63-80
	Gnd./neut. mods	4	16-40	_		Neutral		NTRL-16-40
	Ō		63-80			Neutiai		NTRL-63-80
						AND		
		A.A. A.n.	6-pole conversion kit - c	reates a 6-pole s	switch by ganging two	3-pole switches of ed	ual rating	
	<u>.</u> =	000000	Switch amps All switches					Catalog no. KIT-6POLE*
	e ×			t handle. If extern	nal handle is needed (order a selector handle	and shaft for the UL 508 Rotary Di	
	pole kit		Switches.	. Hariule. II exteri	iai nanale is needed (naci a selector nanule	and shart for the OL 300 Hotary Di	3001111601
	9		Note: To create an 8-po	le switch from 16	6 to 40 amp switches	, use two 3-pole switch	nes of equal ratings plus two switch	ned 4th poles
		Order switches separately	(part # POLE).					



Auxiliary contact configurations









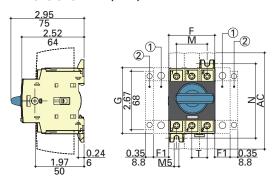


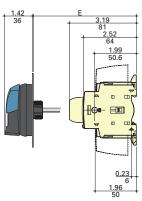


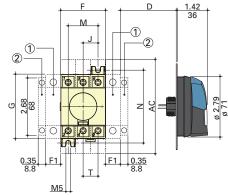


Ground and neutral module, and switched 4^{th} pole configurations.

Dimensions — in (mm)







Direct handle operation

External front operation

External side operation

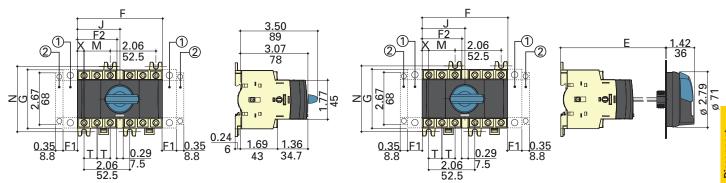
- 1. Position for 1 switched 4^{th} pole (1 per device max.), or ground or neutral module (2 per device max.) or 1 auxiliary contact. 2. Position for 1 auxiliary contact only.

Note: Maximum of 4 Auxiliary contacts, or 3 Auxiliary contacts + one ground or neutral module, or one switched 4th pole.

Switch		Overall of	dimensions		Terminal		Switc	h body		Switch r	nounting	
amps	D min	D max	E min	E max	shroud AC	F	F1	G	J	M	N	Connection T
16 to 40	1.18 (30)	9.25 (235)	3.94 (100)	14.64 (372)	4.33 (110)	1.77 (45)	0.59 (15)	2.67 (68)	0.59 (15)	1.18 (30)	2.95 (75)	0.59 (15)
63 to 80	1.18 (30)	9.25 (235)	3.93 (100)	14.64 (372)	4.33 (110)	2.06 (53)	0.69 (18)	2.99 (76)	0.69 (18)	1.38 (35)	3.35 (85)	0.69 (18)



Dimensions - in (mm)



Direct front operation for 6/8-pole disconnects

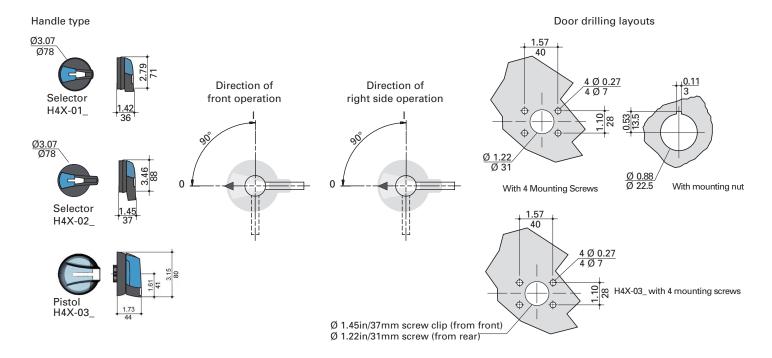
External front operation for 6/8-pole disconnects

- 1. Position for 1 switched 4th pole (1 per device max.) or 1 auxiliary contact.
- 2. Position for 1 auxiliary contact only.

Note: Maximum of 4 auxiliary contacts, or 3 auxiliary contacts + one switched 4th pole.

Switch	Ov	erall dimensi	ons		Swit	ch body		Switch ı	mounting	Conne	ction
amps	E min	E max	F	F1	F2	G	J	M	N	Т	X
16 to 40	4.13 (105)	14.64 (372)	3.83 (98)	0.59 (15)	1.77 (45)	2.67 (68)	1.92 (48.75)	1.18 (30)	2.95 (75)	0.59 (15)	0.29 (8)
63 to 80	4.13 (105)	14.65 (372)	4.13 (105)	0.69 (18)	2.06 (53)	2.99 (76)	2.06 (52.5)	1.38 (35)	3.35 (85)	0.69 (18)	0.34 (9)

External selector and pistol handles





UL 98 and UL 508 enclosed disconnect switches

Enclosed fused and non-fused rotary disconnect switches from 16 to 1200 A in NEMA 1, 3R, 4, 4X, 12 enclosures.

Ratings

- Volts
 - 600 Vac
 - 250-600 Vdc*
- Amps 16-1200 A
- SCCR
 - UL 98 25-200 kA
 - UL 508 10-65 kA
- * Some non-fused disconnect switches are not rated for DC applications.

Agency information

- UL 98 Listed, Guide WIAX, WIAX7, File E182262
- UL 508 Listed, Guide NLRV, NLRV, File E155129
- cULus Listed to Canadian Standard 22.2, No. 14
- cULus Listed to Canadian Standard 22.2, No. 4
- Conforms with IEC 60947-3
- · RoHS compliant
- CE

Operating temperature

• -20°C to 70°C

4X plastic enclosure flammability ratings

- Polycarbonate UL 94-5V A-0
- Fiberglass UL 94-5V

Field installed accessories

- · Auxiliary contacts
- · Terminal shrouds
- Switched 4th pole (UL 508 only)

Online resources

Visit Eaton.com/bussmannseries for:

- · CAD drawings
- · Instruction sheets
- UL information

Features

- UL 98 Listed for general purpose, main disconnect, or branch circuit protection up to 600 Vac/dc
- UL 508 Listed for motor disconnect applications up to 600 Vac
- Multiple field installed accessories enhance the enclosed disconnect switches to fit the desired application
- Lockout/tagout: Up to three 1/4" shank padlocks can be installed on external handles



NEMA 1, 3R, 4 and 12



NEMA 4X 304 stainless steel



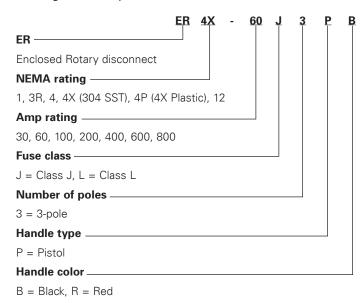
NEMA 4X polycarbonate or fiberglass



UL 98 enclosed fused disconnects — 30 to 800 A

3-pole UL 98 600 Vac

Catalog number system:



Catalog numbers

All catalog numbers provided with integral or installed lugs and a black selector handle. Order Red/yellow handle by changing the suffix "B" to "R."







NEMA 1, 3R, 4 and 12

NEMA 4X 304 stainless steel

NEMA 4X

30-800A UL 98 fused switches

Available Bussmann series fuses

Fuse class	Catalog symbol/type
	LPJ time-delay, current limiting
J	JKS fast-acting fuses
	DFJ high speed drive fuse
	KRP-C time-delay, current limiting
1	KTU fast-acting
L	KLU time-delay
	KRP-CL (225-600 A)

		NEMA enclosure ty	pe and catalog no.				
Switch amps	Fuse class	1	3R	4	4X plastic ¹	4X 304 stainless	12
30		ER1-30J3PB	ER3R-30J3PB	ER4-30J3PB	ER4P-30J3PB	ER4X-30J3PB	ER12-30J3PB
60		ER1-60J3PB	ER3R-60J3PB	ER4-60J3PB	ER4P-60J3PB	ER4X-60J3PB	ER12-60J3PB
100		ER1-100J3PB	ER3R-100J3PB	ER4-100J3PB	ER4P-100J3PB	ER4X-100J3PB	ER12-100J3PB
200	J	ER1-200J3PB	ER3R-200J3PB	ER4-200J3PB	ER4P-200J3PB	ER4X-200J3PB	ER12-200J3PB
400		ER1-400J3PB	ER3R-400J3PB	ER4-400J3PB	ER4P-400J3PB	ER4X-400J3PB	ER12-400J3PB
600		ER1-600J3PB	ER3R-600J3PB	ER4-600J3PB	ER4P-600J3PB	ER4X-600J3PB	ER12-600J3PB
800	L	ER1-800L3PB	ER3R-800L3PB	ER4-800L3PB	ER4P-800L3PB	ER4X-800L3PB	ER12-800L3PB

¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-55.

				Volt	age		
Switch amps	Switch cat. no.	Fuse class	Poles	Vac	Vdc	SCCR @ Vac (kA)	Max. Hp @ 600 Vac
30	RDF30J-3						20
60	RDF60J-3				250		50
100	RDF100J-3	1					75
200	RDF200J-3	J	3	600	N/A	200	150
400	RDF400J-3				250		350
600	RDF600J-3				600		500
800	RDF800L-3	L			000		500



UL 98 enclosed fused disconnects — 30 to 800 A

Enclosure weights and dimensions

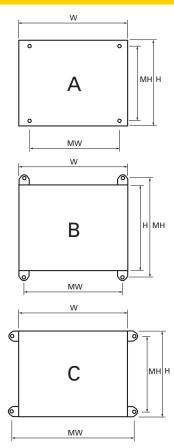
Catalog no.		Fuse	NEMA			Mounting ce	nters h x w	in)
family	Amps	class	enclosure	H x W x D (in)	Α	В	С	Weight (lbs)
			1, 3R, 4, 12	- 10x10x6	8.3x8.3	_	_	- 15
ER30J	30		4X-SST	100000	_	10.7x8.3	8.3x10.7	- 15
		_	4X-plastic ¹			12x5.6	7.6×10	8
			1, 3R, 4, 12	12x10x6	10.3x8.3	_	_	- 19
ER60J	60		4X-SST		_	12.7x8.3	8.3x10.7	19
	_	4X-plastic ¹	13x13x6	_	14×7.6	9.6x12	11	
ER100J 100	-	1, 3R, 4, 12	14,40,40	12.3x10.3	_	_	- 21	
		4X-SST	- 14x12x6		14.7×10.3	12.3x12.7	- ZI	
		4X-plastic ¹	13x13x6		14×7.6	9.6x12	12	
		1, 3R, 4, 12	24,20,0	22.3x18.3	_	_	- 55	
ER200J	200		4X-SST	- 24x20x8		24.7x18.3	22.3x20.7	- 55
			4X-plastic ¹	27x21x10	_	25.75x14	_	39
		-	1, 3R, 4, 12	- 48x36x12	46.3x34.3	_	_	- 188
ER400J	400		4X-SST	40000012	_	48.7x34.3	46.3x36.7	100
			4X-plastic ¹	51x37x14	_	50x28.5	_	186
			1, 3R, 4, 12	- 48x36x12	46.3x34.3	_	_	- 216
ER600J	600		4X-SST	40000012	_	48.7x34.3	46.3x36.7	210
			4X-plastic ¹	51x37x14	_	50x28.5	_	214
			1, 3R, 4, 12	- 48x36x12	46.3x34.3	_	_	- 216
ER800L	800	L	4X-SST	40X30X1Z		48.7x34.3	46.3x36.7	- Z10
			4X-plastic ¹	51x37x14	_	50x28.5	_	214

¹ Enclosures \leq 100 A are polycarbonate, flammability rating UL 94-5V A-V0, \geq 200 A are fiberglass, flammability rating UL 94-5V.

Available field-Installed accessories - order separately Auxiliary contacts - for 30 to 800 amp switches



Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
NO	1	10	600 -	4 (30 to 200 A)	BAC05
NC	1	10	600 -	8 (400 to 800 A)	BAC06



Terminal shrouds

For 200 to 800 amp switches - includes terminal shroud for lineside or loadside



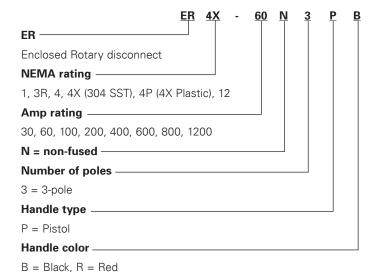
Switch amps	Poles	Catalog no.
200		TSH8-3TB
400	3	TSH9-3TB
600-800		TSH10-3TB



UL 98 enclosed non-fused disconnects — 30 to 1200 A

3-pole UL 98 600 Vac

Catalog number system:









NEMA 1, 3R, 4 and 12

NEMA 4X 304 stainless steel

NEMA 4X

200-1200A UL 98 non-fused switches







NEMA 1, 3R, 4 and 12

NEMA 4X 304 stainless steel

NEMA 4X

30-800A UL 98 non-fused switches

Catalog numbers

All Catalog numbers provided with integral or installed lugs and a black selector handle. Order Red/yellow handle by changing the suffix "B" to

	NEMA enclosure type and catalog no.							
Amps	1	3R	4	4X plastic ¹	4X 304 stainless	12		
30	ER1-30N3PB	ER3R-30N3PB	ER4-30N3PB	ER4P-30N3PB	ER4X-30N3PB	ER12-30N3PB		
60	ER1-60N3PB	ER3R-60N3PB	ER4-60N3PB	ER4P-60N3PB	ER4X-60N3PB	ER12-60N3PB		
100	ER1-100N3PB	ER3R-100N3PB	ER4-100N3PB	ER4P-100N3PB	ER4X-100N3PB	ER12-100N3PB		
200	ER1-200N3PB	ER3R-200N3PB	ER4-200N3PB	ER4P-200N3PB	ER4X-200N3PB	ER12-200N3PB		
400	ER1-400N3PB	ER3R-400N3PB	ER4-400N3PB	ER4P-400N3PB	ER4X-400N3PB	ER12-400N3PB		
600	ER1-600N3PB	ER3R-600N3PB	ER4-600N3PB	ER4P-600N3PB	ER4X-600N3PB	ER12-600N3PB		
800	ER1-800N3PB	ER3R-800N3PB	ER4-800N3PB	ER4P-800N3PB	ER4X-800N3PB	ER12-800N3PB		
1200	ER1-1200N3PB	ER3R-1200N3PB	ER4-1200N3PB	N/ A	ER4X-1200N3PB	ER12-1200N3PB		

¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-72.

Amps	Switch catalog no.	Poles	Vac	SCCR (kA)	Max. Hp @ 600 Vac
30	RD30-3			100 -	25
60	RD60-3			100	50
100	RD100-3			25/100*	U
200	RD200-3	3	600		200
400	RD400-3	3	000	200	350
600	RD600-3				300
800	RD800-3			100	500
1200	RD1200-3			100	500

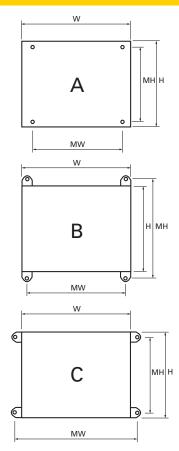
^{* 25} kA @ 600 Vac, 100 kA @ 480 Vac.



UL 98 enclosed non-fused disconnects — 30 to 1200 A

Enclosure weights and dimensions

		g NEMA			Mountir			
ER30 30 4X-SST 10x8x6 — 10.7x6.3 8.3x8.7 11 4X-plastic (1) 9x9x6 — 10x3.6 5.6x8 5 1, 3R, 4, 12 10x8x6 — 10.7x6.3 8.3x8.7 12 4X-plastic (1) 9x9x6 — 10.7x6.3 8.3x8.7 12 4X-plastic (1) 9x9x6 — 10x3.6 5.6x8 5 1, 3R, 4, 12 12x10x6 — 10x3.6 5.6x8 5 4X-SST 12x10x6 — 10x3.6 5.6x8 5 4X-plastic (1) 13x13x6 — 12x7x8.3 8.3x10.7 12 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 ER200 200 4X-SST 20x16x8 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122	no. family	Amps	mps enclosure	H x W x D (in)	Α	В	С	Weight (lbs)
ER30			1, 3R, 4, 12	10,0,0	8.3x6.3	_	_	11
ER60	ER30	30	30 4X-SST	ΙΟΧΟΧΌ	_	10.7x6.3	8.3x8.7	11
ER60 60 4X-SST 10x8x6 — 10.7x6.3 8.3x8.7 12 4X-plastic (1) 9x9x6 — 10x3.6 5.6x8 5 1, 3R, 4, 12 12x10x6 — 12.7x8.3 8.3x10.7 12 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 ER200 200 4X-SST 20x16x8 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122			4X-plastic (1)	9x9x6	_	10×3.6	5.6x8	5
ER60 60 4X-SST — 10.7x6.3 8.3x8.7 12 4X-plastic (1) 9x9x6 — 10x3.6 5.6x8 5 1, 3R, 4, 12			1, 3R, 4, 12	10,49,46	8.3x6.3	_	_	12
ER100 100 100 4X-SST 12x10x6 10.3x8.3 — — 12 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 4X-plastic (1) 20x16x8 18.3x14.3 — — 39 4X-plastic (1) 20x17x12 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122	ER60	60	60 4X-SST	ΙΟΧΟΧΟ	_	10.7x6.3	8.3x8.7	12
ER100 100 4X-SST 12x10x6 — 12.7x8.3 8.3x10.7 12 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 1, 3R, 4, 12 20x16x8 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122			4X-plastic (1)	9x9x6	_	10x3.6	5.6x8	5
ER100 100 4X-SST — 12.7x8.3 8.3x10.7 12 4X-plastic (1) 13x13x6 — 14x7.6 9.6x12 8 1, 3R, 4, 12 20x16x8 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122			1, 3R, 4, 12	12v10v6	10.3x8.3	_	_	12
ER200 200 4X-SST 20x16x8 18.3x14.3 — — 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122	ER100	100	100 4X-SST	12X 10X0	_	12.7x8.3	8.3x10.7	12
ER200 200 4X-SST 20x16x8 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122			4X-plastic (1)	13x13x6	_	14x7.6	9.6x12	8
ER200 200 4X-SS1 — 20.7x14.3 18.3x16.7 39 4X-plastic (1) 20x17x12 — 21.5x10.1 31 1, 3R, 4, 12 36x30x8 34.3x28.3 — — 122			1, 3R, 4, 12	20v16v9	18.3x14.3	_		39
	ER200	200	200 4X-SST	20x 10x8	_	20.7x14.3	18.3x16.7	39
			4X-plastic (1)	20x17x12	_	21.5x10.1		31
ER400 400 4X-SST — 36.7x28.3 34.3x30.7 122			1, 3R, 4, 12	26,20,0	34.3x28.3	_	_	122
	ER400	400	400 4X-SST	30x30x0	_	36.7x28.3	34.3x30.7	122
4X-plastic (1) 37x32x14 — 38x28.9 — 103			4X-plastic (1)	37x32x14	_	38x28.9	_	103
			1, 3R, 4, 12	10,26,12	46.3x34.3	_	_	209
ER600 600 4X-SST — 48.7x34.3 46.3x36.7 209	ER600	600	600 4X-SST	40X30X12	_	48.7x34.3	46.3x36.7	209
4X-plastic (1) 51x37x 14 — 50x28.5 — 187			4X-plastic (1)	51x37x 14	_	50x28.5		187
			1, 3R, 4, 12	10,26,12	46.3x34.3	_	_	211
ER800 800 4X-SST 48x36x12 — 48.7x34.3 46.3x36.7 211	ER800	800	300 4X-SST	40X30X1Z	_	48.7x34.3	46.3x36.7	211
4X-plastic (1) 51x37x 14 — 50x28.5 — 189			4X-plastic (1)	51x37x 14	_	50x28.5	_	189
TR 1300 1300 1, 3R, 4, 12 60x36x16 58.3x34.3 — — 268	ED 1000	1200	1, 3R, 4, 12	60x36x16	58.3x34.3	_	_	268
ER1200 1200 4X-SST 60x36x16 — 60.7x34.3 58.3x36.7 268	EH1200	1200	4X-SST	60x36x16	_	60.7x34.3	58.3x36.7	268



¹ Enclosures ≤100 A are polycarbonate, flammability rating UL 94-5V A-V0, ≥200 A are fiberglass, flammability rating UL 94-5V.

Available field-installed accessories - order separately

Auxiliary contacts for 30 to 1200 amp switches.



Switch amps	Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
30-100	NO + NC	1 of each	10	240	1	BAC01*
30-100	NO	2	10	240	4	BAC02*
	NO + NC	1 of each	10.1	125-250		BAC03**
200-1200	NO + NC	1 of each	10.1	120-200	2	BAC04**
	NO + NC	1 of each	1	125		BAC11**
	NO + NC	1 of each	I	123		BAC12**

^{*} Two (2) Units per switch max.

Terminal shrouds for 200 to 800 amp switches



Switch amps	Poles	Location on switch	Catalog no.
30-100		Lineside and loadside	TSH3-3TB
200	-	Lineside	TSH4-3T
		Loadside	TSH4-3B
400	3	Lineside	TSH5-3T
400	-	Loadside	TSH5-3B
600		Lineside or loadside	TSH6-3TB
800-1200		Lilleside of loadside	TSH7-3TB

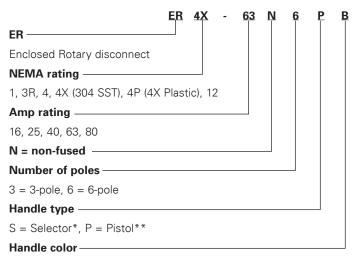
^{**}For one auxiliary contact, install either BAC03 or BAC11. For two auxiliary contacts, install BAC03 + BAC04, or BAC11 + BAC12.



UL 508 enclosed non-fused disconnect — 16 to 80 A

3-/6-pole UL 508 600 Vac

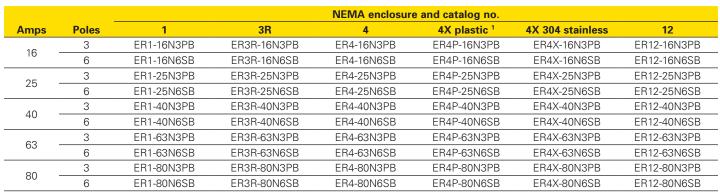
Catalog number system:



B = Black, R = Red

Catalog numbers

All catalog numbers provided with a black selector handle. Order red/ yellow handle by changing the suffix "B" to "R."



¹ Polycarbonate enclosure flammability rating UL 94-5V A-V0.

Switch ratings

For wire types, ranges and terminal torques, see table on page 11-80.

Amps	Switch catalog no.	Vac	SCCR with max upstream Class J fuse	Max. Hp @ 600 V
16	RD16-3-508		65 kA /30 A	10
25	RD25-3-508		05 KA /50 A	20
40	RD40-3-508	600	65 kA /30 A — 10 kA / 60 A	25
63	RD63-3-508		65 kA /60 A — 50 kA / 100 A	40
80	RD80-3-508		50 kA / 100 A	40

Note: Voltage, SCCR and horsepower ratings are the same for 3- and 6-pole switches.







NEMA 1, 3R, 4 and 12

NEMA 4X 304 stainless steel

NEMA 4X

16-80 A UL 508 non-fused switches

^{* 6-}Pole switches only, selector handle does not interlock the enclosure door.

^{**3-}pole switches only.



UL 508 enclosed non-fused disconnect — 16 to 80 A

Enclosure weights and dimensions

NEMA		Switch		ı	Mounting ce	enters h x v	v (in)
enclosure	Poles	amps	H x W x D (in)	Α	В	С	Weight (lbs)
1, 3R, 4, 12 - 4X-304 SST -	3		8x6x6	6.3x4.3	_	_	8
	6	16-80 -	10x8x6	8.3x6.3	_	_	11
	3	10-00	8x6x6	_	8.7x4.3	6.3x6.7	8
	6		10x8x6	_	10.7x6.3	8.3x8.7	11
	3	16-63	7.4x8.7x5.8	_	8x3.6	3.6x8	4
4X-plastic ¹		80	9.4x8.7x5.9	_	10x3.6	5.6x8	5
	6	16-8 A	11.4×10.7×6.3	_	12x5.6	7.6×10	6

¹ Polycarbonate.

Available field-installed accessories - order separately Auxiliary contacts



Contact type	No. of contacts	Cont. amp rating	Vac	Max. units per switch	Catalog no.
NO + NC	1 Ea.	10 240	2 (1 per side 4 contacts total)	BAC01	
NO	2	10	240	2 (1 per side, 4 contacts total)	BAC02

Auxiliary contact configurations



Terminal shrouds

Includes terminal shroud for both lineside and loadside.



Switch amps	Poles	Location on switch	Catalog no.
16-40	3	Lineside and loadside	TSH1-3TB
63-80			TSH2-3TB

Switched 4th pole

Converts 3-pole switch to 4-pole switch.



Switch amps	Catalog no.
16	POLE-16
25	POLE-25
40	POLE-40

