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.



Contents

Description	Section page
Compact Circuit Protector disconnect switches	
Class CF CUBEFuse up to 100 A (CCP2-CF)	2-8
Class CF CUBEFuse 200 and 400 A (CCP2-CF)	9-12
Accessories for CUBEFuse CCP2	13-
Multi-wire lug kits	13-14
Selector and pistol handles, shafts, NFPA 79 compliant handles	15-16
Flange handle rod and cable operators	17
200 and 400 A switch rotary mechanisms	18
Auxiliary contacts	19-20
PLC fuse monitors (up to 100 A switches)	21-22
How to order Class CF switches	23-35
Switches up to 100 A	23-30
200 and 400 A switches	32-35

Description	Section page
Compact Circuit Protector disconnect switches	
Compact Circuit Protector Base (CCP2B - CUBEFuse)	36-37
Class CC, UL supplemental and IEC 10x38 (CCP2)	38-42
Accessories for Class CC, UL supp. and IEC 10x38 CCP2	43-47
Multi-wire lug kits	43
Selector and pistol handles, shafts, NFPA 79 compliant handles	44
Auxiliary contacts	45
PLC fuse monitors	46-47
How to order Class CC, UL supplemental and IEC 10x38 switches	48-51
Low profile Class CC and G, UL supplemental and IEC 10x38 (CCPLP)	52-53
UL 98 fused disconnect switches, 30 to 800 A	
Introduction and agency information	54
Product line summary — UL	55
30 A Class CC and compact Class J	56-57
30 A standard Class J	58-59
60 A compact Class J	60-61
60 A standard Class J	62-63
100 A standard Class J	64-65
200 A and 400 A standard Class J	66-68
600 A standard Class J and 800 A Class L	69-70
UL 98 non-fused disconnect switches, 30 to 1200 A	
Introduction, agency information and IEC product summary	71
UL product summary	72
30 A, 60 A and 100 A compact	73-74
100 A, 200 A and 400 A standard	75-76
600 A, 800 A, 1000 A and 1200 A standard	77-78
UL 508 non-fused disconnect switches, 16 to 80 A	
Introduction, agency information and IEC product summary	79
UL product summary	80
16 A, 25 A, 40 A, 63 A and 80 A	81-83
Enclosed UL 98 and UL 508 disconnect switches	
Introduction and agency information	84
Fused UL 98 enclosed disconnects, 30 to 800 A	85-86
Non-fused UL 98 enclosed disconnects, 30 to 1200 A	87-88
Non-fused UL 508 enclosed disconnects, 16 to 80 A	89-90

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

Class CF CCP contents	Section page
30, 60 and 100 amp switches	
Descriptions and specifications	
Catalog numbers	5
Ferminal data	6
Dimensions	6-8
200 and 400 A switches	
Descriptions and specifications	9-10
Catalog numbers and horsepower ratings	10
Available lugs	10
Dimensions	11-12
Accessories	
Multi-wire lug kits	
30, 60 and 100 A switches	13
200 and 400 A switches	14
Handles and shafts	
Selector and pistol handles	15
Handle shafts	16
NFPA 79 compliant handles	16
Flange handle rod and cable operators	17
200 and 400 A switches	
Front rotary mechanisms	18
Side rotary mechanisms	18
Terminal shroud kits	18
Phase barrier kits	18
Handle extension	18
Auxiliary contacts	
30, 60 and 100 A switches	19
200 and 400 A switches	20
PLC fuse monitor (30, 60 and 100 A switches)	21-22
How to order	
30 and 60 A switches	
Switch only	23
Front and right side rotary switches	24-25
Left side rotary switches	
100 A switches	
Switch only	27
Front and right side rotary switches	
Left side rotary switches	
200 and 400 A switches	
200 A switches	
400 A switches	34-35



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

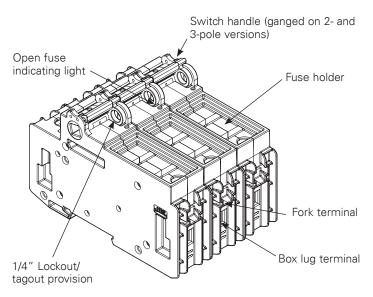
Accessories

- · 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 retery electronics	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 vatory, alackarias	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	Diebt eide neten, electroise	600 Vac/125 Vdc	-	_	3	_	_
CCP2S-3-30CF	3	- Right side rotary, clockwise	600 Vac	-	_	5	15	10
CCP2SL-2-30CF	2	Left side retery counterplackuise	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	_	7-1/2	_	_
CCP2-3-60CF	3	_	600 Vac		_	7-1/2	20	10
CCP2R-2-60CF	2	Dight front retery electrics	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	I oft forms nature also be size a	600 Vac/125 Vdc*		_	7-1/2	_	_
CCP2RL-3-60CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC	_	7-1/2	20	10
CCP2S-2-60CF	2	Dight side veters, electricies	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	Loft side retery counterplackuing	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	Disht formt metamic algebraic	600 Vac/125 Vdc**	-	_	10	_	_
CCP2R-3-100CF	3	- Right front rotary, clockwise	600 Vac	- - 200 kA AC	_	20	50	40
CCP2RL-2-100CF	2	Left front retery plackwise	600 Vac/125 Vdc**		_	10	_	_
CCP2RL-3-100CF	3	- Left front rotary, clockwise	600 Vac	- 100 kA DC		20	50	40
CCP2S-2-100CF	2	Dight aids retary, alsoluvies	600 Vac/125 Vdc**	-	_	10	_	_
CCP2S-3-100CF	3	- Right side rotary, clockwise	600 Vac	-	_	20	50	40
CCP2SL-2-100CF	2	I off cide category accompany and allowing	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)			
	U-0	Stranded, Class K	_ Dual				
75°C Cu	10-18	Stranded, Class B to K		2.26 (20)			
	10-18	Solid	Single/dual	2.26 (20)			
	4-18	Stranded, UL ferrule,	Single	2.20 (20)			
	6-18	Class B/C	Twin [†]	3.39 (30)			
	4-18	Stranded, UL ferrule,	Single	2 92 (25)			
	6-18	Class K	Twin [†]	2.82 (25)			
100 A switches							
	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	Toda +	2.26 (20)			
	6-9	-	Twin†	2.82 (25)			
	10-18	Solid	Single/Dual	2.26 (20)			
	8-18		Circ rela	2.26 (20)			
	1-7	Class K	Single	3.39 (30)			
	3-10	-	Dual	5.08 (45)			
	8-18		Cinale	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

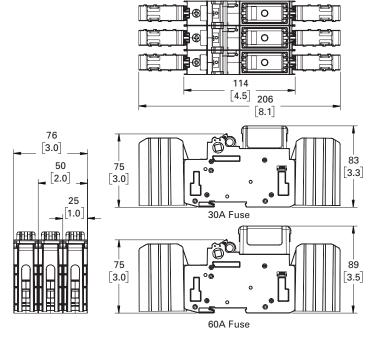
- Fork terminal suitable for line, load or accessory connection, max.
 30 A suitable for use with:
 - 10-24 screw for 30 and 60 A switches
 - 1/4-28 screw for 100 A switches

Available Bussmann series fuses

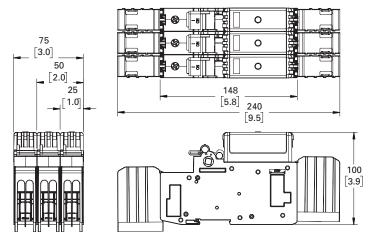
UL fuse class	Type/description	Volts	Data sheet no.
	Indicating time-delay, Low-Peak™ CUBEFuse (6-100 A)	600 Vac/	0000
CF	Non-indicating time-delay, Low-Peak CUBEFuse (1-100 A)	300 Vdc	9000
	Non-indicating fast-acting CUBEFuse (1-100 A)	600 Vac/dc	2147

Dimensions - mm (in)

Switch (shown with optional terminal shrouds)



30 and 60 amp switches

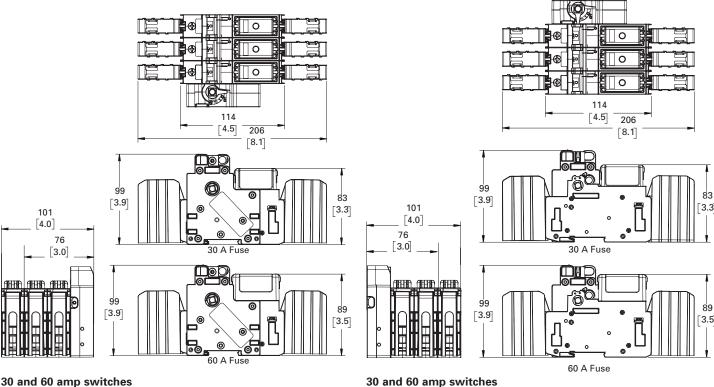


100 amp switches

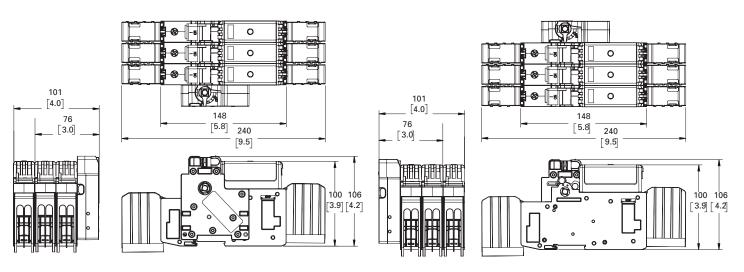


Left front rotary switches (shown with optional terminal shrouds)

Right front rotary switches (shown with optional terminal shrouds)





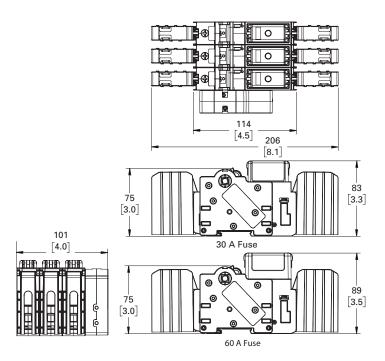


100 amp switches

100 amp switches

Left side rotary switches (shown with optional terminal shrouds)

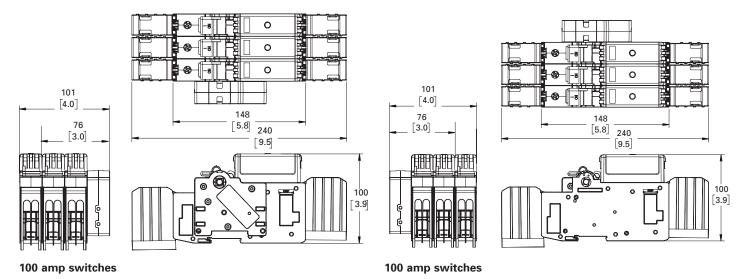
Right side rotary switches (shown with optional terminal shrouds)



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

30 and 60 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

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

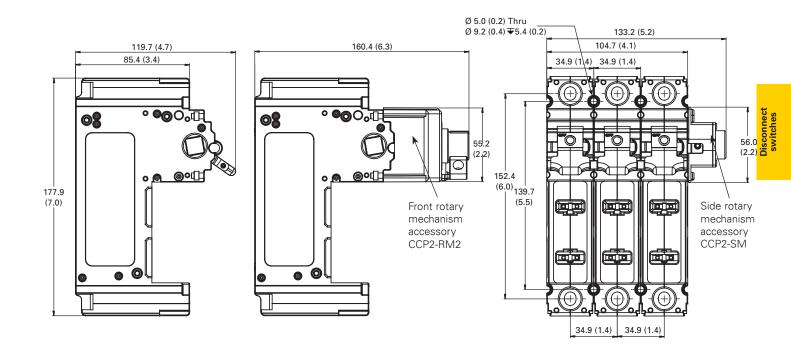
Catalog no.	Description	Lugs per cat. no.	Wire range AWG (mm²)	Wire type/ temp.	Conductor torque N•m (lb-in)	Lug mounting screw torque N·m (lb-in)
200 A switche	s					
CCP2-L2-1	Stainless steel lug	1	350-4 (185-25)	Cu 75°C	20.3 (180)	0.9 (8)
CCP2-L2-1A	Aluminum lug*	1	350-4 (185-25)	Cu/Al 75°C	28.2 (250)	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	g 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)	00.0 (000)
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 multi wire terminal with abroud	2	1/0 1/1 /50 2 5	Cu/Al 75°C	8 = 4.5 (40)	-
CCP2-MW6-6	6-port multi-wire terminal with shroud	3	1/0-14 (50-2.5)	Cu/Ai /5°C	4-6 = 5.0 (45	
					1/0-2 = 5.6 (50)	

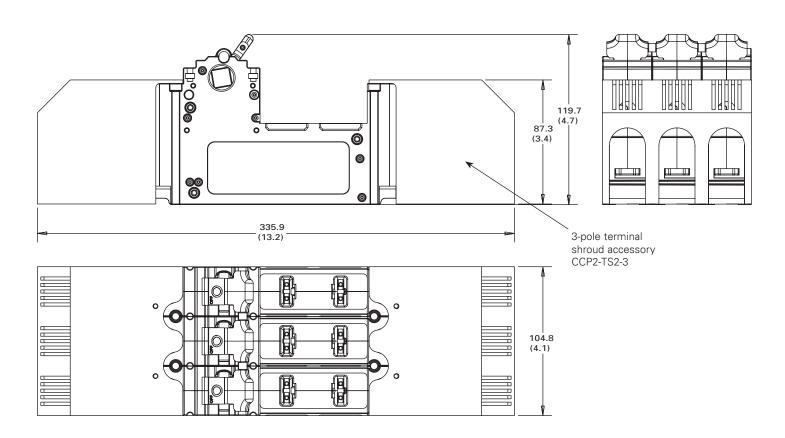
Accessories

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)

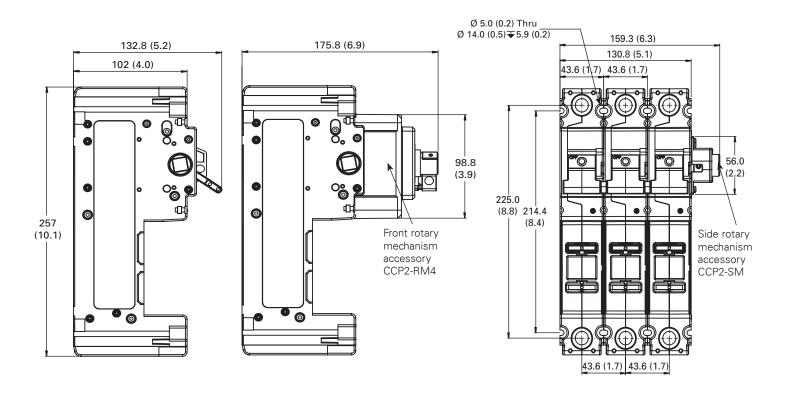
^{*} Complete installation requires pistol handle and shaft, order separately.

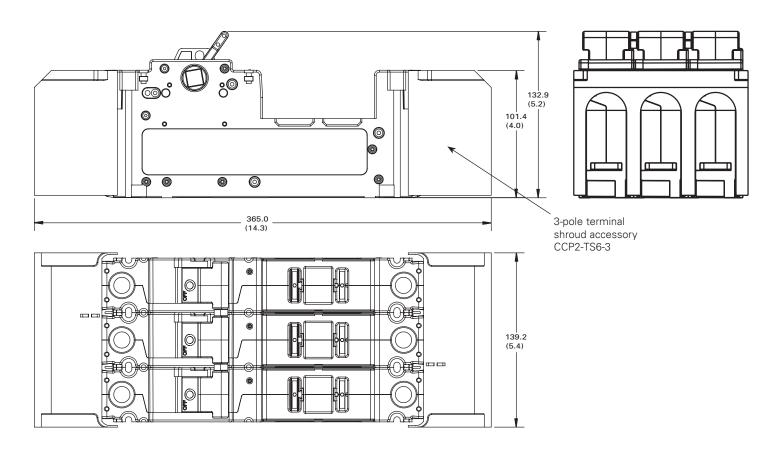
200 amp switch dimensions - mm (in)





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

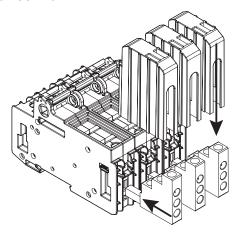
Туре	AWG range	Class	Quantity	Torque N•m (lb-in)
Cu/Al	4-6	Ctranded Class B/C	Cinalo	3.95 (35)
Cu/Al —	8	- Stranded, Class B/C	Single	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu	10-14	Solid	Single	2.26 (20)
Cu -	8	III formula Class P to V	Single/twin [†]	2.82 (25)
	10-14	— UL ferrule,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

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

CCP2 box lug torque for multi-wire lugs

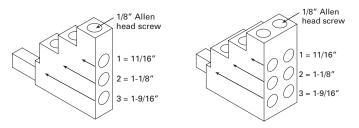
- 30/60 A switch lug, 4.52 N•m (40 lb-in)
- 100 A switch lug, 5.09 N•m (45 lb-in)

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)

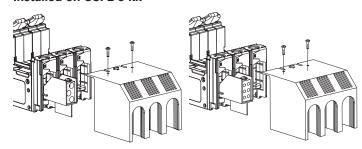
Multi-wire lug conductor information

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

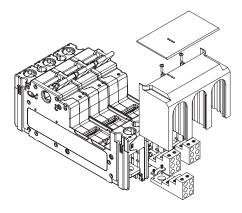
Туре	AWG range	Class	Quantity	Torque N•m (lb-in)
Cu/Al	4-6	- Stranded, Class B/C	Single	3.95 (35)
Cu/Ai	8	Stranueu, Class b/C	Sirigle	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
Cu -	10-14	Solid	Single	2.26 (20)
Cu ·	8	- III formula Class P to V	Cinala/turint	2.82 (25)
	10-14	UL ferrule,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

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

Installed on CCP2-3-xx



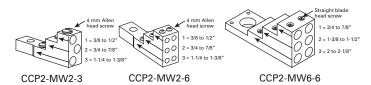
3- and 6-port multi-wire lugs mounted on 200 A switches



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 2/9	
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		CCP2-H4X-R1(selector, red/yellow)	
CCP2RL-(pole)-60CF	Left front rotary, clockwise	CCP2-H4X-B2 (pistol, black/grey) —— CCP2-H4X-R2 (pistol, red/yellow) CCP2-SH1-290 (11.5	
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)	
000001 / 1) 0005	Left side rotary,	CCP2-H4X-R1L (selector, red/yellow)	
CCP2SL-(pole)-60CF	counterclockwise	CCP2-H4X-B2L (pistol, black/grey)	
CCP2SL-(pole)-100CF		CCP2-H4X-R2L (pistol, red/yellow)	

Handles and shafts for 200 and 400 A switches

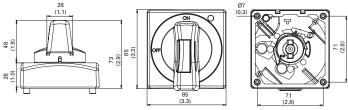
For catalog no.	Order front rotary mechanism cat. no.	Order right/ left side rotary mechanism cat. no.	Order front/right side clockwise handle cat. no.	Order left side counterclockwise handles (use only with CCP2-SM) cat. no.	Order either 12 mm shaft cat. no.
CCP2-(poles)-200CF	CCP2-RM2*		CCP2-H4X-B3 (short - black/grey)	CCP2-H4X-B3L (short - black/grey)	CCP2-SH2-225
CCI 2-(poles)-200CI	CCFZ-(poles)-200CF CCFZ-NIVIZ	0000 014	CCP2-H4X-R3 (short - red/yellow)	CCP2-H4X-R3L (short - red/yellow)	(8.9"/225 mm)
0000 / 1 140005	00D0 D144*	- CCP2-SM	CCP2-H4X-B4 (long - black/grey)	CCP2-H4X-B4L (long - black/grey)	CCP2-SH2-425
CCP2-(poles)-400CF	CCP2-RM4*		CCP2-H4X-R4 (long - red/yellow)	CCP2-H4X-R4L (long - red/yellow)	(16.7"/425 mm)

^{*} For three-pole switches only.

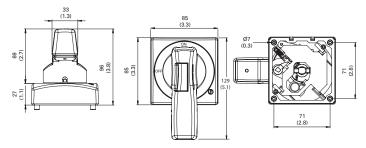


Handle dimensions — mm (in)

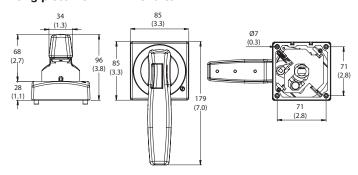
Selector for 8 mm shafts



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 amp switches				
CCP2-FLR1	Rod operator with painted handle	Type 1, 3R, 12		
CCP2-FLR1X	Rod operator with chrome handle	Type 4X		
CCP2-FLC1-36	36" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-36X	36" Cable with chrome handle	Type 4X		
CCP2-FLC1-60	60" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-60X	60" Cable with chrome handle	Type 4X		
CCP2-FLC1-120	120" Cable with painted handle	Type 1, 3R, 12		
CCP2-FLC1-120X	120" Cable with chrome handle	Type 4X		
200 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		
CCP2-FLC2-120X	120" Cable with chrome handle	Type 4X		

Description

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

Handles are available in painted versions with 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.

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.

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

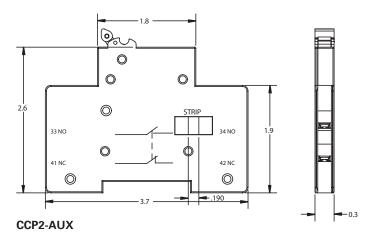
-20°C to 75°C (-4°F to 167°F)

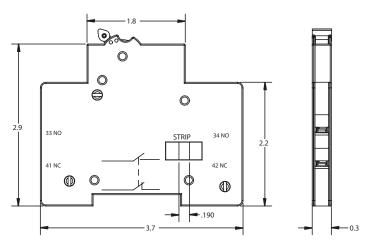
Installed on a CCP2-3-xx

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.





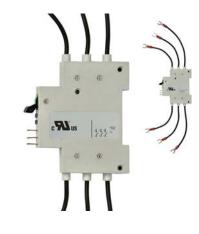
PLC fuse monitor for 30, 60 and 100 A switches

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



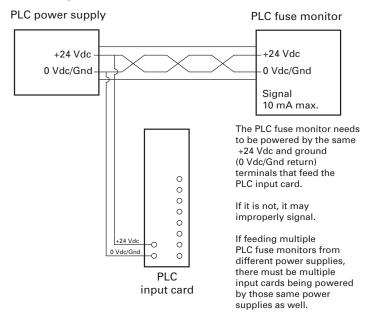
Installed on a CCP2-3-xx



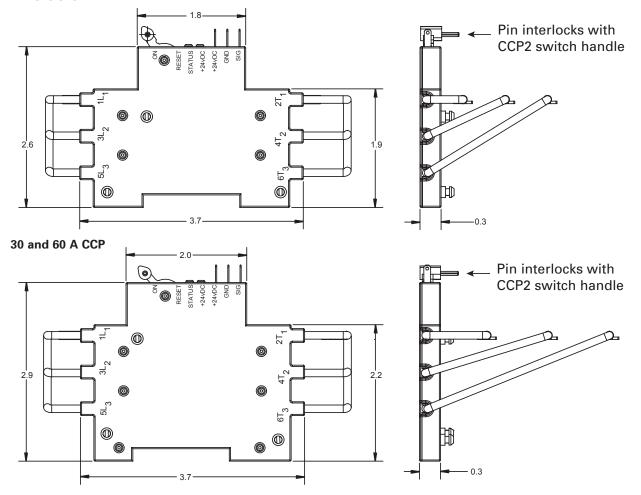
CCP2-PLC-IND mounted on a 3-pole switch and using the fork terminals. When mounted on a 2- or 1-pole switch, remove unused leads.

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

		Catalog no.	Catalog no.				
		Switches	Amps	Poles			
Required		Switch (used alone of	or with flange cable or flange rod handles)				
bedn		CCP2-1-30CF		1			
ř		CCP2-2-30CF	30	2			
	-	CCP2-3-30CF		3			
		CCP2-1-60CF		1			
		CCP2-2-60CF	60	2			
		CCP2-3-60CF	-	3			
			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			
		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 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				
5		Auxiliary contacts	Description — mounts on right side, cannot be used with flan cable operator	ge handle rod or			
Vecessor 163	- Nin William	CCP2-AUX	NO/NC, 5 A / 240 V				
	111	PLC fuse monitor	Description — mounts on left side, cannot be used with flange operator	e handle rod			
	.9u. ₃₃₇	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		
	Header of the same	CCP2R-2-30CF		2
	EBL O	CCP2R-3-30CF	30	3
		CCP2R-2-60CF		2
	5 -	CCP2R-3-60CF	60	3
	The state of the s	Left front rotary		
	11	CCP2RL-2-30CF		2
	100	CCP2RL-3-30CF	30	3
		CCP2RL-2-60CF	60	2
		CCP2RL-3-60CF	60	3
	Madada.	Right side rotary		
	Marie .	CCP2S-2-30CF	30	2
	-	CCP2S-3-30CF	30	3
		CCP2S-2-60CF	60	2
red	10 0	CCP2S-3-60CF		3
Required	F.74		And	
R		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-MW1-3	3-port multi-wire, 75°C Cu/Al, 6-14, includ	des terminal shrouds, pack of 3



			And
		Terminal shrouds	Description
		CCP2-TS1-3	Pack of 3
		Auxiliary contacts	Description — use with CCP2RL-(poles)-30/60CF switches
Accessories	- 19Na 1800	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
		CCP2-PLC-IND	Signal output 24 Vdc / 10 mA



30 and 60 A CCP2 counterclockwise switches

		Catalog no.		
		Switches	Amps	Poles
		Left side rotary		
	III	CCP2SL-2-30CF	30	2
	A	CCP2SL-3-30CF	30	3
	W. ===	CCP2SL-2-60CF	00	2
	100	CCP2SL-3-60CF	- 60	3
	E24 E24		And	
		Rotary handles	Description	Rating
p		CCP2-H4X-B1L	Selector handle — black/grey	
Required		CCP2-H4X-R1L	Selector handle — red/yellow	Type 1, 4X, 12
		CCP2-H4X-B2L	Pistol handle — black/grey	Type 1, 4/1, 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 NFPA 79 compliant	490 mm	
		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	
	1116	Terminal shrouds	Description	
Accessories		CCP2-TS1-3	Pack of 3	
esse		Auxiliary contacts	Description —mounts on right side	
Acc	• 91	CCP2-AUX	NO/NC, 5 A / 240 V	



100 A CCP2 switches

	or a complete assembly, select from the following required and optional components, and accessories.					
		Catalog no. Switches	Amps	Poles		
			or with flange cable or flange rod handles)	Poles		
Required		CCP2-1-100CF		1		
Re		CCP2-2-100CF	100	2		
	555	CCP2-3-100CF		3		
			And			
		Flange handle rod operator	Description — 3-pole switches only	Rating		
	TO TORK	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		
Optional		CCP2-FLC1-36	36" cable, red/black painted handle	Type 1, 3R, 12		
	The state of the s	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		
		001212011207	120 Gabio, Gillottic Hariato	1,450 17.		
		Multi-wire lug kits	Description			
	CCP2-MW1-6		6-port multi-wire, 75°C Cu/Al, 6-14, includes terminal shrouds, pack of 3			
			And			
	1112	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		
	, RI., 1555	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	
	Harman	Left front rotary			
	10 100	CCP2RL-2-100CF	100	2	
		CCP2RL-3-100CF		3	
	Walter offe	Right side rotary			
		CCP2S-2-100CF	100	2	
red		CCP2S-3-100CF	100	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		
	To a	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	S C C C C C C C C C C C C C C C C C C C	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
	6 6 6 7 222 7 222 7 2 2 2 2 2 2 2 2 2 2	CCP2-PLC-100	Signal output 24 Vdc / 10 mA



100 A CCP2 counterclockwise switches

		Catalog no.		
		Switches	Amps	Poles
		Left side rotary	-	
		CCP2SL-2-100CF	100	2
		CCP2SL-3-100CF		3
	5.7.44 5.7.44		And	
		Rotary handles	Description	Rating
		CCP2-H4X-B1L	Selector handle — black/grey	
Required		CCP2-H4X-R1L	Selector handle — red/yellow	Type 1, 4X, 12
R		CCP2-H4X-B2L	Pistol handle — black/grey	1, 47, 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	les terminal shrouds, pack of 3
			And	
	117	Terminal shrouds	Description	
Accessories		CCP2-TS1-6	Pack of 3	
ces		Auxiliary contacts	Description — mounts on right side	
Ac	Na Property	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)
- CE
- 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	TCF300RN
TCF6RN	TCF30RN	TCF70RN	TCF150RN	TCF350RN
TCF10RN	TCF35RN	TCF80RN	TCF175RN	TCF400RN
TCF15RN	TCF40RN	TCF90RN	TCF200RN	
TCF17-1/2RN	TCF45RN	TCF100RN	TCF225RN	

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		
	1333	CCP2-1-200CF		1	1	
		CCP2-2-200CF	200	2		
red	etete	CCP2-3-200CF		3		
Required			And			
æ	The Contract of the Contract o	Lug kits	Description			
		CCP2-L2-1	Stainless steel lug, 75° Cu only, 350 kg	cmil-4, 1 per pack		
	1 0 0	CCP2-L2-1A	Aluminum lug, 75°C Cu/Al, 350 kcmil-	4, 1 per pack		
	00	CCP2-MW2-3	3-port multi-wire lug, 75°C Cu/Al, 2-14	, 3 per pack, includes termina	l shroud	
	0.	CCP2-MW2-6	6-port multi-wire lug, 75°C Cu/Al, 6-14	, 3 per pack, includes termina	l shroud	
			And			
		Rotary mechanisms	Description			
		CCP2-SM	Side rotary mechanism - mounts on left or right side of 1-, 2- and 3-pole switches			
	E.T. 8	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		
nal		CCP2-H4X-B4	Long pistol handle — black/grey	mechanism or side rotary mechanism CCP2-SM on		
Optional		CCP2-H4X-R4	Long pistol handle — red/yellow	the switch's right side	T 4 1)/ 40	
0		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- SM on the switch's left		
		CCP2-H4X-R4L	Long pistol handle — red/yellow	side		
	• •		And	<u> </u>		
	Table 1 2	Shafts (12 mm)	Length			
		CCP2-SH2-225	225 mm			
		CCP2-SH2-425	425 mm			
		NFPA 79 compliant handle	Color			
		CCP2-NFPA-2	Red			

	- 1		Or Description — 3-pole switches		
	C B	Flange handle rod operator	only, cannot be used with side or front rotary mechanisms	Rating	
	- (1 + 1	CCP2-FLR2-21	Red/black, painted handle	Type 1, 3R and 12	
		CCP2-FLR2-21X	Chrome handle	Type 4X	
_			Or		
Optional	. 1	Flange handle cable operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating	
		CCP2-FLC2-36	36" cable, red/black painted handle	Type 1, 3R and 12	
	The same of the sa	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	
	10	CCP2-FLC2-120	120" cable, red/black painted handle	Type 1, 3R and 12	
		CCP2-FLC2-120X	120" cable, chrome handle	Type 4X	
			And		
		Terminal shrouds	Des	scription	
		CCP2-TS2-3	3-pole terminal shroud with phase shields, 1 per pack		
		Phase barriers	Description		
		CCP2-PB2	Phase barriers, 2 per pack		
	And				
	Control wire terminals		Description		
Accessories	E CONTRACTOR OF THE PARTY OF TH	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	
Acc		Auxiliary contacts	Description		
Ac		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	

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400 A CCP2 switches

		Catalog no.				
		Switches	Amps	Poles		
	01010	CCP2-1-400CF		1		
	1	CCP2-2-400CF	400	2		
	etete	CCP2-3-400CF		3		
-			And			
Required	0 0 0	Lug kits	Description			
		CCP2-L4-1	Stainless steel lug, 75° Cu only, 500 kcn	nil-3, 1 per pack		
		CCP2-L4-1A	Aluminum lug, 75° Cu only, 500 kcmil-3,			
		CCP2-L4B-3	Stainless steel lug, 75° Cu only, 750-500		minal shroud	
	MAN	CCP2-L4B-3A	Aluminum lug, 75°C Cu/Al, 750-500 kcm			
	On the	CCP2-MW6-6	6-port multi-wire lug, 75°C Cu/Al, 1/0-14			
		CCP2-L6-3	2-port stainless steel lug, 75° Cu only, 5°			
		CCP2-L6-3A				
		CCP2-L0-3A	2-port aluminum lug kit, 75° Cu/Al only,	500 kcmii-2, 3 per pack, include	es terminal shroud	
	T T		And			
		Rotary mechanisms	Description			
		Illechamania	Description			
		CCP2-SM	Side rotary mechanism - mounts on left or right side of 1-, 2- and 3-pole switches			
	F.5.4	CCP2-RM4	Front rotary mechanism - mounts only rotating handle	y on 3-pole switches, requires	s clockwise	
		And				
		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		
io		CCP2-H4X-B4	Long pistol handle — black/grey	mechanism or side rotary		
Option		CCP2-H4X-R4	Long pistol handle — red/yellow	mechanism CCP2-SM on 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		
			· '	rotary mechanism CCP2-		
		CCP2-H4X-B4L	Long pistol handle — black/grey	SM on the switch's left		
		CCP2-H4X-R4L	Long pistol handle — red/yellow	side		
			And			
	The state of the s	Shafts (12 mm)	Length			
		CCP2-SH2-225	225 mm			
		CCP2-SH2-425	425 mm			
		NFPA 79 compliant handle	Color			
		CCP2-NFPA-2	Red			



			Or	
	CH A III	Flange handle rod operator	Description - 3-pole switches only, cannot be used with side or front rotary mechanisms	Rating
	,	CCP2-FLR2-21	Red/black, painted handle	Type 1, 3R, 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
0		CCP2-FLC2-36	36" cable, red/black painted handle	Type 1, 3R, 12
	To the second	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	8	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. 0 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

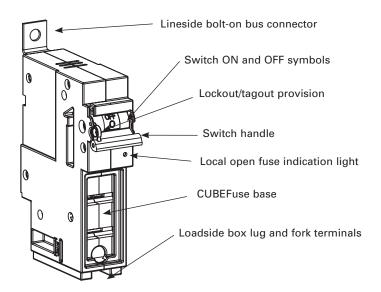
Item	Poles	lbs (kg)
up to 60 amp switches	6	1.7 (0.77)
70 to 100 amp switches	6	2.6 (1.18)

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	D. I	Voltage	CUBEFuse	0000	Hp ratings
numbers	Poles	ratings 347 Vac,	amp range	SCCR	(Vac)†††
CCP2B-1-15CF	1	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		200 kA	7.5 Hp @ 240 V 20 Hp @ 480 V 10 Hp @ 600 V
CCP2B-1-50CF	1	347 Vac, 125 Vdc*			3.0 Hp @ 120 V
CCP2B-2-50CF	2	600 Vac, 125 Vdc*		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

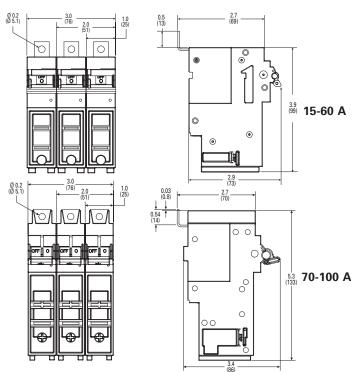
¹ and 3 A indicating CUBEFuse not available. Correct fit with CCP2B disconnect requires indicating CUBEFuse with date code R38 or later.

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	Sirigle	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 (20)	
70 to 100 A switches					
	12-18	– – Stranded, Class B – to K –		2.26 (20)	
	10			2.82 (25)	
	8		Single	4.52 (40	
	4-6			5.08 (45)	
	1-3			6.21 (55)	
	3-12	Stranded, Class B to K	Dual	3.95 (35)	
	12-18	_		2.26 (20)	
	10	Stranded, UL	Single	3.95 (35)	
75°C Cu	1-8	– ferrule, Class B/C		4.52 (40)	
75 C Cu	10-18	_	Twint	2.26 (20)	
	6-8			2.82 (25)	
	10-18	— Solid	Single	2.26 (20)	
	10-18		Dual	2.26 (20)	
	8-18	_	Single	2.26 (20)	
	1-6	_ Class K		3.39 (30)	
	3-10		Dual	5.08 (45)	
	8-18	_	Single	2.26 (20)	
	1-6	_ Class K, UL ferrule		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



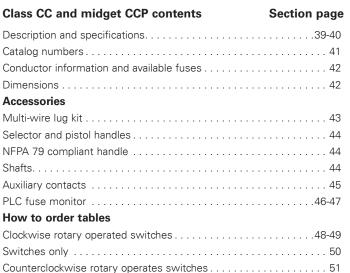
CCP2 switch



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 note evitab entr	
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 from rotary 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.

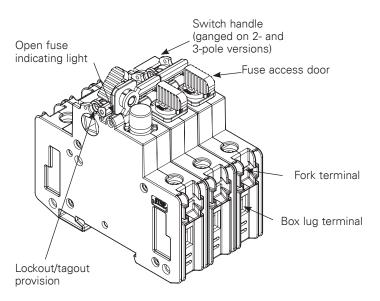
Accessories

- · 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

BUSSMANNSERIES

Features

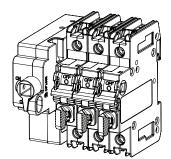
- Extremely compact (18 mm wide per pole) design
- High SCCR up to 200 kA (UL Class CC) and 120 kA (IEC)
- Disconnect rated for load isolation
- Full voltage rated up to 600 Vac or 80 Vdc
- UL 98 Listed Class CC version is horsepower rated and suitable for branch circuit protection and disconnect
- IEC 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).





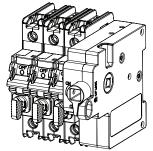
Right front rotary operated CCP2 switch with PLC fuse monitor.

Rotary operating switch versions



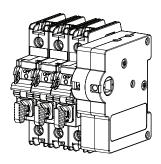
Left front rotary switch

Clockwise operating handles



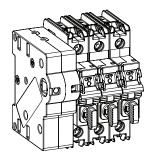
Right front rotary switch

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		600 Vac	-	_	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		000 vac		3/4	3	5	7.5	75°C Cu/Al
CCP2RL-2-30CC	2	Switch with left front	30 A	600 Vac	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 Vac	-	_	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		000 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	.200271	IEC 400 Vac†	120 120 10 11					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)
Cu	10-18	Solid	Single/dual	
00	4-18	Cture and and IIII formula Class 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, OL Terrule, Class IX	Twin [†]	2.02 (23)
	4-8		Single	2.26 (20)
Al	6	Stranded	Dual	2.82 (25)
	8	•	Duai	2.26 (20)

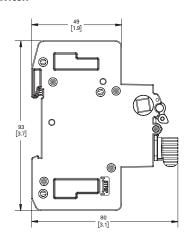
[†] Two stranded conductors placed in one UL Listed twin ferrule.

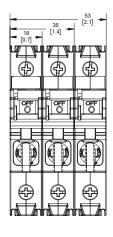
Available Bussmann series fuses

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
Μ	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

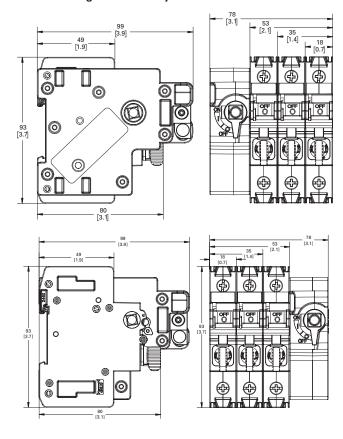
^{* 1/2} to 2-1/2 and 20 to 30 A are 300 Vdc, 2-8/10 to 15 A are 150 Vdc.

Dimensions - mm (in) Switch

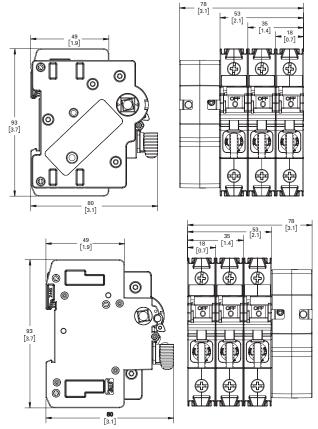




Left front and right front rotary switches



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/AI	4-6		Single	3.95 (35)
Cu/Al 8	8	- Stranded, Class B/C	Sirigle	2.82 (25)
	10-14	Stranded, Class B/C	Single/dual*	2.26 (20)
C	10-14	Solid	Single	2.26 (20)
Cu	8	- UL ferrule, Class B to K	Single/twin†	2.82 (25)
	10-14	- OL lettule, Class B to K	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)

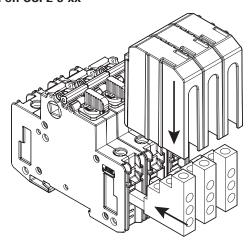
Terminal shroud accessory

Terminal shrouds are available without multi-wire terminals.

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

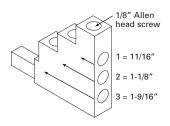


Installed on CCP2-3-xx



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 retent alcelusies		
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

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

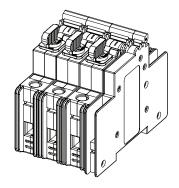
 Mounts on the CCP2's right side ONLY and mechanically interlocks with the CCP2 switch handle with provided hardware.
 The CCP2-AUX CANNOT be mounted on the right front and right side rotary operated versions.

Storage and operating temperature

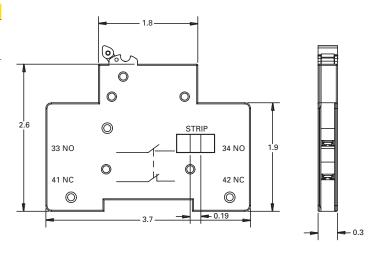
• -20°C to 75°C (-4°F to 167°F)

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.



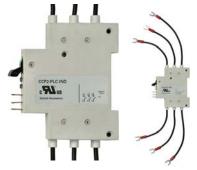
PLC fuse monitor

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

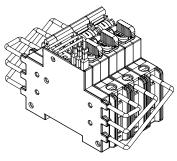
Storage and operating temperature

• -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.

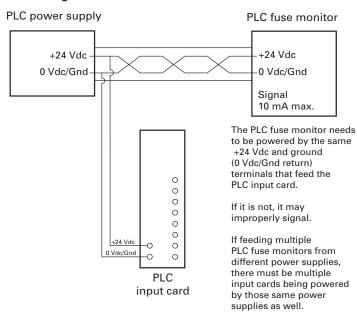
Note: The CCP2-PLC-IND **CANNOT** be mounted on the left front/left side rotary operated versions or if the multi-wire lug kit is installed.



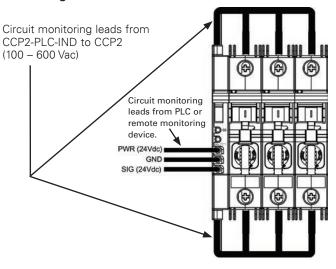
CCP2-PLC-IND fuse monitor mounted on a right front rotary operated switch.



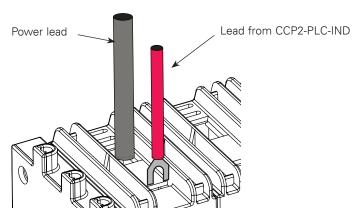
PLC wiring schematic



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



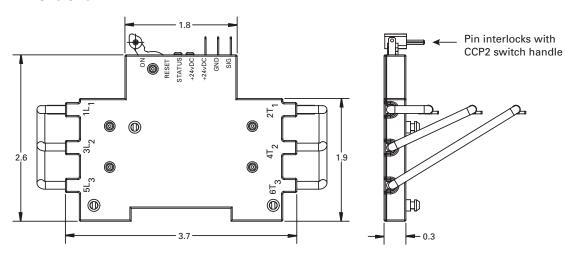
Connection from CCP2-PLC-IND to CCP2-3-xx



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		
	C C	CCP2R-2-30CC		2
	ELLO	CCP2R-3-30CC		3
	151	CCP2R-2-30M	30	2
		CCP2R-3-30M		3
	The same	Left front rotary		
	11	CCP2RL-2-30CC		2
	10	CCP2RL-3-30CC	30	3
		CCP2RL-2-30M	30	2
	The state of the s	CCP2RL-3-30M		3
	Marine .	Right side rotary		
		CCP2S-2-30CC		2
	The state of the s	CCP2S-3-30CC	30	3
		CCP2S-2-30M		2
red		CCP2S-3-30M		3
Required	F.7.44		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	77.
		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	
		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
		Auxiliary contacts	Description — cannot be used on right front or right side operated switches
Accessories	•Ala	CCP2-AUX	NO + NC, 5 A / 240 V
	111	PLC fuse monitor	Description — Cannot be used on left front operated switches
	CAN 2252 TO	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		
pe	Land Company of the party of th	CCP2-1-30CC		1
Required	<u> </u>	CCP2-2-30CC		2
Re		CCP2-3-30CC	20	3
		CCP2-1-30M	30	1
		CCP2-2-30M		2
	বিভাগ ভাগ ভাগ	CCP2-3-30M		3
			And	
		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	
		Auxiliary contacts	Description	
Accessories	SAN PER	CCP2-AUX	NO + NC, 5 A / 240 V	
	111	PLC fuse monitor	Description	
	c 211/m 335 =	CCP2-PLC-IND	Signal output 24 Vdc / 10 mA	

BUSSMANN

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	CCP2SL-2-30CC		2
	40	CCP2SL-3-30CC	30	3
	4-444	CCP2SL-2-30M	30	2
	The state of the s	CCP2SL-2-30M		2
			And	
þ		Rotary handles	Description	NEMA rating
Required		CCP2-H4X-B1L	Selector handle — black/grey	
_		CCP2-H4X-R1L	Selector handle — red/yellow	4X
		CCP2-H4X-B2L	Pistol handle — black/grey	4/\
		CCP2-H4X-R2L	Pistol handle — red/yellow	
	***************************************		And	
		Shafts (8 mm)	Length	
		CCP2-SH1-290	290 mm	
	-	CCP2-SH1-490	490 mm	
		Lug kits	And 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	
ies		CCP2-TS1-3	Pack of 3	
SSOF		Auxiliary contacts	Description —mounts on right side	
Accessories	· PLu	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)

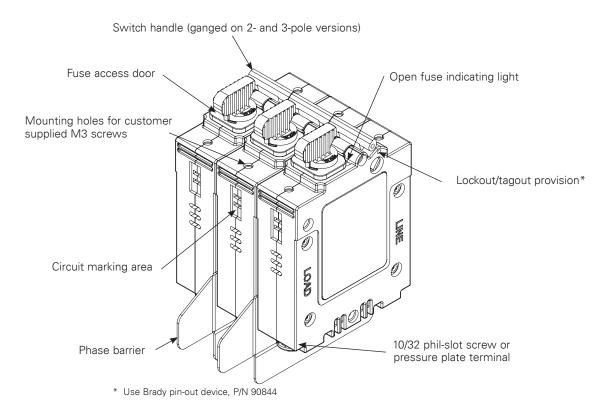
Minimum enclosure size

• 6" x 6" x 4" per UL 98 Listing



Available CCPLP versions

Catalog no.					SCCR	- 1	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	dget 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)



UL 98 fused disconnect switches — 30 to 800 A











RDF30CC-3

RDF30J-3 / RDF60J-3-COMP

RDF200J-3

Poles						Catalo	oa 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 Front/Side ,	Standard Front/Side ,	Standard Front/Side ,	Standard	Standard
Handle operation		Front	Front	Front/Side	Front/Side	Front/Side	Flange	Flange	Flange	Front , Flange	Front , Flange
UL electrical rat Max AC volts	tings	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac	600 Vac
Max DC volts*				250 Vdc	250 Vdc	250 Vdc	250 Vdc	- 600 vac	250 Vdc	600 Vdc	600 Vdc
IVIAX DC VOILS	1-phase, 240			3	10	10	10	10	10		
Std. AC Hp	3-phase, 240	3	3	3	7.5	7.5	15	25	50	75	75
ratings	3-phase, 480	5.0	5.0	5.0	15	15	25	50	100	150	200
ratingo	3-phase, 600	7.5	7.5	7.5	15	15	30	60	125	200	250
	3-phase, 240	7.5	7.5	7.5	15	15	30	60	125	200	200
Max. AC Hp	3-phase, 480	15	15	15	30	30	60	125	250	400	500
ratings	3-phase, 600	20	20	20	50	50	75	150	350	500	500
DC 11 ::	125 Vdc			3	5	5	7.5		20		
DC Hp ratings	250 Vdc	_	_	5	10	10	20		50	_	
Electrical charac	cteristics										
SCCR		100 kA	100 kA	200 kA	100 kA	200 kA	200 kA	200 kA	200 kA	200 kA	200 kA
Terminal lugs/ki		Integral	Integral	Integral	Integral	Integral	Integral	•	•	•	•
Mounting torqu	ıe - Ib-in (N∙m)				_			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
Wire range,	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)	_	-	_	
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 or	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/a;alat Ilaa	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 - lbs (kg)	3-pole +	1.4 (0.6)	1.5 (0.7)								
(kg)	neutral	1.4 (0.0)									
	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	atıng	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		•	•	•	•	•	•	•	•	•	•
Shafts c/s - mr	m	5x5	5x5	10×10	10x10	10×10	10×10	10×10	10x10	12X12	12X12
Terminal shrou	ıds	Not Required	Not Required	Not Required	Not Required	Not Required	Not Required	•	•	•	•
Auxiliary	(1) NO	•	•	•	•	•	•	•	•	•	•
contacts	(1) NC	•	•	•	•	•	•	•	•	•	•
	(1) NC Volts Amps	600 10	600 10	600 10	600 10	600 10	600	600	600 10	600	600

[•] Available, see product page for details and catalog numbers.

—Not available.

^{*} General purpose only, not photovoltaic rated.



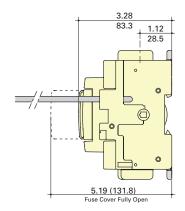
UL 98 fused rotary disconnect switches — 30 A

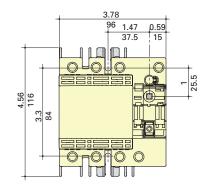
Standard 30 amp Class CC and compact 30 amp Class J

			Switch								
				Fuse		SCCR	Max H	p rating, 3-pl	nase	Conductor	
			Amps	class	Poles		20/240		600	AWG size /type	Catalog no.
	ج		30		3	100	7.5	15	20	- 71	RDF30CC-3
	Switch		30	CC	3 + Ntrl.*	100	7.5	15	20	- 14-10 Sol/Str	RDF30CC-3N
	Š		30		3	100	7.5	15	20	_ 75°C Cu	RDF30J-3-COMP
	•		30	J	3 + Ntrl.*	100	7.5	15	20		RDF30J-3N-COMP
		A Control of the Cont	* Neutral is	cyvitcho		100	7.0	10			1101 303-311-001111
			Neditaria	SVVILGITE	<u>u.</u>			Plus			
-			Direct mou	unt hand	lle - mounts	directly to	ewitch		auiro	1	
			For switch		Color	Test fun		Padlock		<u>, </u>	Catalog no.
			1 Of SWITCH	cat. 110.	COIOI	iest iuii	Ction	1 adiock	abie		Catalog 110.
			RDF30CC	_							DIR-05
			-		- Black	Υ		Υ			
			RDF30JC	OMP	Didck						DIR-06
		1	1101 3000	JOIVII							DITI-00
	-							OR			
	-		Evternal fr	ont one	rated selecto	r handle - e	shaft re				
			NEMA type		Color	Test fun		Padlock	ahla	Defeatable	Catalog no.
			1, 3R, 4, 4		Black	lest luli	Ction		abie		H4X-04B
			1, 3R, 4, 4)		Red/yellow	- N		Y		Υ	H4X-04B
			Shafts for								Π4Λ-04η
		+	Length - in		Mounting de	onth (V) in	(mm)				Catalog no.
Select for standard applications			7.9 (200)	(11111)	4.02~9.65 (1		(111111)				SH1-200
tio											
<u>ica</u>		E. Single	12.6 (320)		4.02~14.37						SH1-320
ldd	_		15.7 (400)		4.02~17.52 (102~445)					SH1-400
d a								OR			
ar					rated pistol h						
ano			NEMA type	9	Color	Test fun	ction	Padlock	able	Defeatable	Catalog no.
ste			1, 3R, 12		Black	_					H12-05B
Por			1, 3R, 12		Red/yellow	- N					H12-05R
t	<u>e</u>		1, 3R, 4, 4)	ζ, 12	Black	-		Υ		Υ	H4X-05B
e e	Handle		1, 3R, 4, 4)	ζ, 12	Red/yellow			_ '		ı	H4X-05R
S	Ĩ		1, 3R, 4, 4)	۲, 12	Black	- Y					H4X-05TB
			1, 3R, 4, 4)	ζ, 12	Red/yellow	'					H4X-05TR
		or			vy duty) exte					shaft required	
			NEMA type	9	Color	Test fun	ction	Padlock	able	Defeatable	Catalog no.
					D						
			1, 3R, 4, 4)	ζ, 12	Black						H4X-05BHD
			1, 3R, 4, 4>	ζ, 12	Black	- N		V		V	H4X-05BHD
						- N		Y		Y	
			1, 3R, 4, 4) 1, 3R, 4, 4)		Black Red/yellow	- N		Υ		Y	H4X-05BHD H4X-05RHD
						- N		Υ		Y	
		.		ζ, 12	Red/yellow	- N		Y		Y	
		+	1, 3R, 4, 4)	<, 12 pistol ha	Red/yellow		(mm)	Y		Y	H4X-05RHD
		+	1, 3R, 4, 4> Shafts for Length - in	<, 12 pistol ha	Red/yellow andles Mounting de	epth (X) - in	(mm)	Y		Y	
		+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200)	<, 12 pistol ha	Red/yellow andles Mounting de 4.02~9.65 (1	epth (X) - in 102~245)	(mm)	Y		Y	H4X-05RHD Catalog no. SH2-200
		•	1, 3R, 4, 4> Shafts for Length - in	<, 12 pistol ha	Red/yellow andles Mounting de	epth (X) - in 102~245) (102~365)	(mm)	Y		Y	H4X-05RHD Catalog no.
	_	•	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320)	<, 12 pistol ha	Red/yellow Andles Mounting de 4.02~9.65 (1 4.02~14.37	epth (X) - in 102~245) (102~365)	(mm)	Y		Y	H4X-05RHD Catalog no. SH2-200 SH2-320
	<u>-</u>	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400)	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445)		OR	stol ha		H4X-05RHD Catalog no. SH2-200 SH2-320
	_	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro	of the price of th	Red/yellow Andles Mounting de 4.02~9.65 (1 4.02~14.37	epth (X) - in 102~245) (102~365) 102~445) kit - to be	used w	OR vith front pi		andle	Catalog no. SH2-200 SH2-320 SH2-400
	_	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400)	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445)	used w	OR			H4X-05RHD Catalog no. SH2-200 SH2-320
	_	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be	used w	OR vith front pi		andle	Catalog no. SH2-200 SH2-320 SH2-400
	_	+	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock		a ndle Defeatable	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
		+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be	used w	OR vith front pi		andle	Catalog no. SH2-200 SH2-320 SH2-400
		+	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock		a ndle Defeatable	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
		+	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color	of the price of th	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock		a ndle Defeatable	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
		+	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color	pistol ha (mm)	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~17.52 (epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock		a ndle Defeatable	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
	ts	+	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red	pistol ha (mm)	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock Y	able	andle Defeatable N	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
Se	tacts	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red Auxiliary c Contact	pistol ha (mm) ugh the	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock Y AND	numbe	andle Defeatable N	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no.
nies	ontacts	+	1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red Auxiliary c Contact type	pistol ha (mm) ugh the	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used w	OR vith front pi Padlock Y AND	numbe t switc	andle Defeatable N ar of auxiliary contacts per n catalog number	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no.
ssories	y contacts	+	1, 3R, 4, 4 Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red	pistol ha (mm) ugh the	Red/yellow andles Mounting de 4.02~9.65 (1 4.02~14.37 (4.02~17.52 (door handle	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun	used voction	OR vith front pi Padlock Y AND Maximum disconnec RDF30CC- BAC05 (1)	numbet switc	andle Defeatable N	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)
cessories	ary contacts		1, 3R, 4, 4> Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red Auxiliary c Contact type	pistol ha (mm) ugh the	Red/yellow Andles Mounting de 4.02~9.65 (1) 4.02~17.52 (door handle Continuous amp rating	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun N	used voction	OR vith front pi Padlock Y AND Maximum disconnec RDF30CC-	numbet switc	ndle Defeatable N er of auxiliary contacts per n catalog number with BAC-HOLDER2	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)
Accessories	xiliary contacts		1, 3R, 4, 4 Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red	pistol ha (mm) ugh the	Red/yellow Andles Mounting de 4.02~9.65 (1) 4.02~17.52 (door handle Continuous amp rating	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun N	used voction	OR vith front pi Padlock Y AND Maximum disconnec RDF30CC- BAC05 (1) HOLDER2	numbet switch	ndle Defeatable N er of auxiliary contacts per of auxiliary contact	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)
Accessories	Auxiliary contacts		1, 3R, 4, 4 Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red	pistol ha (mm) ugh the contacts No. of contacts	Red/yellow Andles Mounting de 4.02~9.65 (1) 4.02~14.37 (1) 4.02~17.52 (1) Moor handle Continuous amp rating 10	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun N	used voction	OR vith front pi Padlock Y AND Maximum disconnec RDF30CC- BAC05 (1) HOLDER2 Accepts 4	numbet switch	ndle Defeatable N er of auxiliary contacts per n catalog number with BAC-HOLDER2	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1)
Accessories	Auxiliary contacts	1 2	1, 3R, 4, 4) Shafts for Length - in 7.9 (200) 12.6 (320) 15.7 (400) NFPA thro Color Red Auxiliary c Contact type NO NC	pistol ha (mm) ugh the contacts No. of contacts	Red/yellow Andles Mounting de 4.02~9.65 (1) 4.02~14.37 (1) 4.02~17.52 (1) Moor handle Continuous amp rating 10	epth (X) - in 102~245) (102~365) 102~445) kit - to be Test fun N	used voction	OR vith front pi Padlock Y AND Maximum disconnec RDF30CC- BAC05 (1) HOLDER2	numbet switch	ndle Defeatable N er of auxiliary contacts per of auxiliary contact	Catalog no. SH2-200 SH2-320 SH2-400 Catalog no. H79-1 Catalog no. BAC05 (1) BAC06 (1)

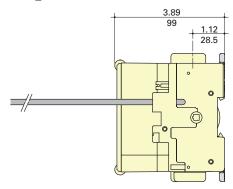
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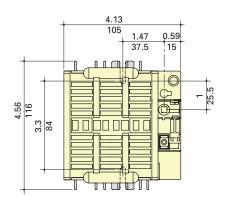






RDF30J-_-COMP





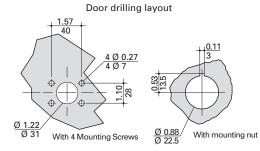
External front selector handle

Selector handle type

Direction of front operation

Direction of front operation

H4X-04_

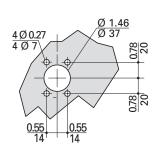


External front pistol handles

Pistol handle type

Ø3.07 Ø78 H4X-05 H12-05__ TEST

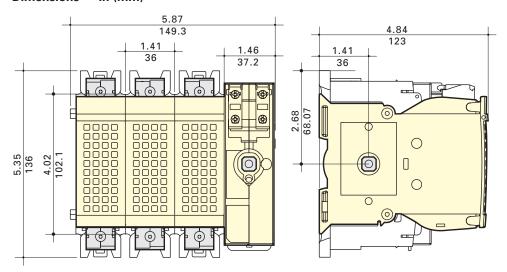
Door drilling layout



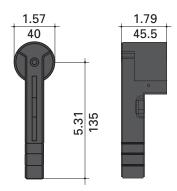
Standard 30 amp Class J

		Switch											
		Switch					May h	norsepowei	rating				
	25 2 125		Fuse		SCCR	1-n	hase	3-pha		D(^*	Conductors	
_	0-00-00-00	Amps	class	Poles	(kA)	220/240		440/480	600	125	250	AWG size / type	Catalog no.
Switch	70 70 70	Allips	Class	2	(KA)	3	-	- 440/400	-	3	5	Avvo size / type	RDF30J-2
3		30	J	3	200		7.5	15	20	3	5	14-10 Sol/14-6 Str	RDF30J-3
0,		30	J	4	. 200		7.5	15	20	3	<u>5</u>	- 75°C Cu	RDF30J-4
	10 % (c)	* DC ratio	ac lice t	wo poles i	n cariac		7.0	10			<u> </u>		NDI 303-4
_		DC Tatil	igs use ti	wo poles i	11 361163.			PLUS					
-		Direct me	nunt han	dle - mou	inte dire	ctly to sw	itch, no sh		d				
		For switch				Color	ittii, iio sii	Test fun		Padlo	rkahle		Catalog no.
	nr nr	TOT SWILL	r cat. 110.			COIOI		1631 1011	CLIOIT	1 auto	Rabie		Catalog 110.
	ш	All switch	es			Black		Υ		Y - On	switch		DIR-07
		All SWITCH	03			Didok		'		1 011	SVVILGIT		DIII 07
								OR					
		External	front ope	erated pis	tol hand	dles - shaf	t required						
		NEMA typ				Color		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.
						Black							H12-05B
		1, 3R, 12				d/yellow							H12-05R
						Black		- N					H4X-05B
					Re	d/yellow)	/	Y	H4X-05R
		1, 3R, 4, 4	4X, 12		. 10	Black				-			H4X-05TB
					Re	d/yellow		- Y					H4X-05TB
Suc	Or	Metallic I	nasp (he	avv dutv)			erated pisto	ol handles	- shaf	t require	ed		11137 00111
Select for standard applications		NEMA		, daty			atoa pist					5.4	0.11
<u></u>		type	Color			Color		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.
dd			1)/ 10			Black				,	,		H4X-05BHD
<u>a</u>	-	1, 3R, 4, 4	4X, 12	•	Re	d/yellow		- N)	ſ	Υ	H4X-05RHD
arc		External	right sid	e operate	d pistol	handles -	shaft requi	ired					
D D		NEMA typ				Color		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.
sta						Black							H4X-05SB
<u>=</u>		1, 3R, 4, 4	4X, 12		Re	d/yellow		- N)	/	N/A	H4X-05SR
ا لو	+	Shafts fo	r pistol ł	nandles		- /							
Select for					ng depth	(X) — in (r	mm)						Catalog no.
Sel		7.9 (200)			.06 (135-								SH5-200
•		12.6 (320)			3.78 (135								SH5-320
		15.7 (400)		5.30~16	5.93 (135	5~430)							SH5-400
								OR					
		Flange ha	andle (1)	- requires	s shaft o	perated n	nechanism	or cable o	perate	d mech	anism ·	+ cable	
	1 2	NEMA typ	ре		Fla	nge style		Test fun	ction	Padlo	ckable	Defeatable	Catalog no.
		1, 3R, 4, 1	12		S	tandard		N.I.		\	,	V	FLH1
		1, 3R, 4, 4	4X, 12		Chro	me plated		- N		١	ſ	Υ	FLH2
		Shaft ope	erated fla	ange mec	hanism	(2) - includ	des shaft						
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			:h - in (mm									Catalog no.
	3	6~24 (152											FLRM
	OF Late	Cable op	erated fla	ange mec	hanism	and cable	- must sel	ect mecha	nism (3) and c	able (4)	
	100	Item / Ien	gth — in	(mm)									Catalog no.
	4	Cable me	chanism										FLCM
		36 (900) c	able										FLC36
		60 (1500)	cable										FLC60
	- 34	120 (3000) cable										FLC120
								OR					
	-	NFPA thr	ough the	e door ha	ndle kit	- to be us	ed with fro	nt pistol h	andle				
		Color						Test fun	ction	Padlo	ckable	Defeatable	Catalog no.
	B	Red						N		`	/	Ν	H79-2
								AND					
		Auxiliary	contacte	5				A110					
		Contact											
es		type	No. of o	contacts	Con	tinuous am	p rating	Voltage	(Vac)	Max.	aux co	ntacts per switch	Catalog no.
ori	1940年	1700											
SS		NO											BAC05
Accessories Aux contacts	<u> </u>			1		10		600				4	
A				1		10		000				7	
		NC											BAC06

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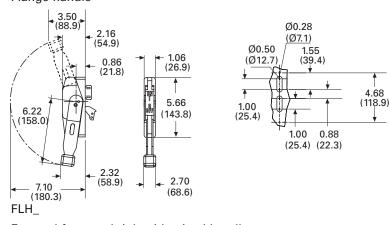


Direct mount handle



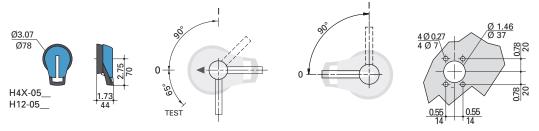
DIR-07

Flange handle



External front and right side pistol handle

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

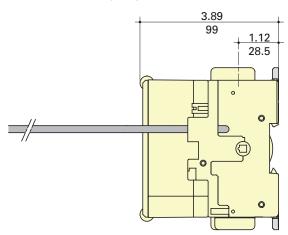


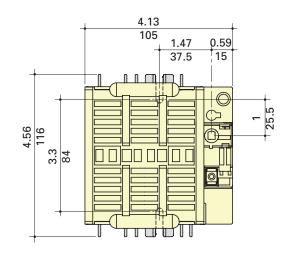
Compact 60 amp Class J

			Switch											
Г		3913-1301						Max h	norsepower i	rating				
				Fuse		SCCR	1-phase		3-phase		DO	C*	Conductor	-
	ç	TI TI	Amps	class	Poles	(kA)	220/240	220/240	440/480	600	125	250	AWG size / type	Catalog no.
	Switch	なない			2		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
		THE REAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF T			4		-	15	30	50	5	10	– 75°C Cu	RDF60J-4-COMP
			* DC ratings	use tw	vo poles i	n series.								
									PLUS					
			Direct mour		dle - mou			ch, no sh			DII-	-11-1-		Catalana
		M*	For switch ca	at. no.			Color		Test func	tion	Padlo	скаріе		Catalog no.
			All switches				Black		Υ		Y - on	switch		DIR-07
	-								OR					
			External fro	nt ope	rated pis	tol hand	lles - shaft	required	Un					
			NEMA type	<u> </u>			Color		Test func	tion	Padlo	ckable	Defeatable	Catalog no.
			1, 3R, 12				Black							H12-05B
			1, 3R, 12				d/yellow		-					H12-05R
			1, 3R, 4, 4X,	12			Black		- N					H4X-05B
			1, 3R, 4, 4X,				d/yellow		-)		Y	H4X-05R
			1, 3R, 4, 4X,				Black				-			H4X-05TB
S			1, 3R, 4, 4X,	_			d/yellow		- Y					H4X-05TR
Select for standard applications		Or	Metallic has		vv duty)			ated nist	nl handles -	shaft	require	d		11777 00111
ati			NEMA type	א יוובמ	y duty)		Color	uteu pist	Test func		Padlo		Defeatable	Catalog no.
iệ			1, 3R, 4, 4X,	10			Black		lest fullo	tion	raulo	Kable	Defeatable	H4X-05BHD
app									- N)	1	Y	
D.			1, 3R, 4, 4X, External rig				d/yellow							H4X-05RHD
daı				nt side	operate			nart requi					D (0 + 1
a			NEMA type				Color		Test func	tion	Padlo	ckable	Defeatable	Catalog no.
st			1, 3R, 4, 4X,	_			Black		- N)	/	N/A	H4X-05SB
for			1, 3R, 4, 4X,			Red	d/yellow		.,				. 47. 1	H4X-05SR
ಕ	Handle	+	Shafts for p											
ele	au		Length — in	(mm)	Mountin	ng depth	(X) - in (mm))						Catalog no.
S	Ĩ		7.9 (200)		5.30~9.0	06 (135~:	230)							SH5-200
			12.6 (320)		5.30~13	3.78 (135-	~350)							SH5-320
			15.7 (400)		5.30~16	6.93 (135-	~430)							SH5-400
	_								OR					
		/90	Flange hand	dle (1) -	- requires	s shaft o	perated me	chanism	or cable op	erated	l mecha	nism	+ cable	
		1 2	NEMA type			Flan	nge style		Test func	tion	Padlo	ckable	Defeatable	Catalog no.
			1, 3R, 4, 12				andard							FLH1
			1, 3R, 4, 4X,	12			me plated		- N)	1	Y	FLH2
		-0	Shaft opera		nae mec			s shaft						
		A	For enclosur											Catalog no.
	ľ	3	6~24 (152~6		(1.111									FLRM
		The sales	Cable opera		nge mec	hanism	and cable -	must sele	ect mechani	ism (3) and c	able (4)	. =:
		10	Item / length				• • • • • • • • • • • • • • • • •		_ JC .IIO JII III	J.11 (0	,	(4		Catalog no.
		4	Cable mecha											FLCM
		0	36 (900) cab											
														FLC36
			60 (1500) ca											FLC60
		**	120 (3000) c	able										FLC120
		10 00 4 00 000							OR					
			NFPA throu	gh the	door ha	ndle kit -	to be used	with sel			 -			Catalog no
			Color						Test func	uon	raul00	ckable	Defeatable	Catalog no.
		°O,	Red						N)	1	N	H79-2
		■ *							AND					
			Auxiliary co	ntacts										
					No. of c	contacts	Continuo		Voltage (\	Vac)	Max	aux co	ontacts per switch	Catalog no.
S	cts		Contact type)			ratu	ng	3- (
ories	ntacts	-			140. 01 0		Tatil							
essories	contacts	\$ 1.7 P.	Contact type	•	110. 01 0		1411							BAC05
Accessories	ux. contacts	17			- 1	1	10)	600				4	BAC05
Accessories	Aux. contacts	17				1)	600				4	BAC05 BAC06

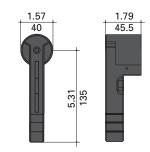
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Dimensions — in (mm)



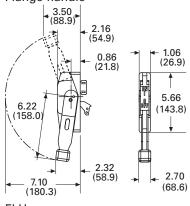


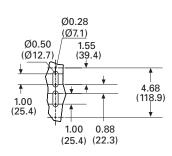
Direct mount handle



DIR-07

Flange handle



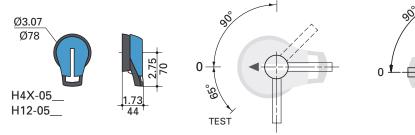


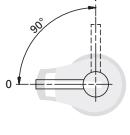
FLH_

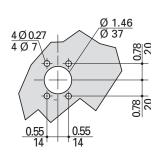
External front and right side pistol handle

Handle type

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





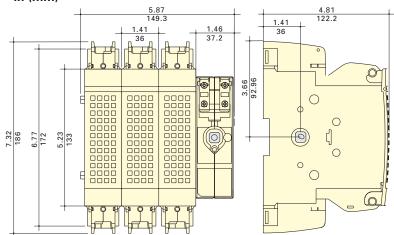




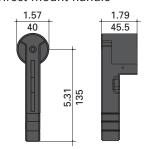
Standard 60 amp Class J

			Switch											
		belle to to						Max I	norsepowe	r rating				
		1000		Fuse		SCCR	1-phase		3-phase		DC	C*	Conductor AWG	
	유		Amps	class	Poles	(kA)	220/240	220/240	440/480	600	125	250	size/type	Catalog no.
	Switch				2	200	10	-	-	-	5	10	- 12-10 Sol/12-1 Str	RDF60J-2
	Ś		60	J	3	200	-	15	30	50	5	10	- 75°C Cu	RDF60J-3
		至。图图 表。			4	200	-	15	30	50	5	10	75 0 00	RDF60J-4
			* DC ratin	gs use t	wo poles	in series.								
									PLUS					
			For switch		dle - mo		ctly to swi	tch, no sh	Test fun		Padloc	kablo		Catalog no.
		nr -	FOI SWILCH	Cat. 110.			20101		iest iuiii	CLIOIT	rauloc	Kable		Catalog 110.
		y y	All switche	es			Black		Υ		Y	′		DIR-07
	-								OR					
			External f	ront ope	erated p	istol hand	lles - shaft	required						
			NEMA typ	e			Color		Test fun	ction	Padloc	kable	Defeatable	Catalog no.
			1, 3R, 12				3lack							H12-03B
			1, 3R, 12			Red	d/yellow		- N					H12-03R
			1, 3R, 4, 4				Black		. IN		Y	,	Υ	H4X-06B
			1, 3R, 4, 4			Red	d/yellow				ĭ		ī	H4X-06R
			1, 3R, 4, 4	X, 12			3lack		- Y					H4X-06TB
ns			1, 3R, 4, 4	X, 12		Red	d/yellow		ī					H4X-06TR
Select for standard applications		Or	Metallic h	asp (hea	avy duty) externa	I front ope	rated pist	ol handles	- shaft	require	d		
ica			NEMA typ	е			Color		Test fun	ction	Padloc	kable	Defeatable	Catalog no.
dd			1, 3R, 4, 4	X, 12			Black		- N		Y	,	Υ	H4X-06BHD
g a			1, 3R, 4, 4	X, 12		Red	d/yellow		- IN		ı		Ţ	H4X-06RHD
dar			External r	ight sid	e operat	ed pistol	handles - s	shaft requi	ired					
and			NEMA typ	e e			Color	Test fun	ction	Padloc	kable	Defeatable	Catalog no.	
st			1, 3R, 4, 4				Black							H4X-06SB
Į.			1, 3R, 4, 4				d/yellow		- N		Y	,	N/A	H4X-06SR
ect	Handle	±	Shafts for		nandles		.,, -							
Sel	au					ng depth	(X) — in (mr	m)						Catalog no.
0,	_		7.9 (200)			.06 (135~								SH5-200
			12.6 (320)			3.78 (135-								SH5-320
		in the second	15.7 (400)			6.93 (135-								SH5-400
	_								OR					
	_		Flange ha	ndle (1)	- require	es shaft o	perated m	echanism	or cable o	perated	mecha	anism	+ cable	
		1 2	NEMA typ				ge style		Test Fun		Padloc		Defeatable	Catalog no.
			1, 3R, 4, 1				andard							FLH1
			1, 3R, 4, 4				ne plated		- N		Y		Υ	FLH2
		100			ange me		(2) - includ	es shaft						
		3	For enclos	ure dept	:h — in (r	nm)								Catalog no.
			6~24 (152	~613)										FLRM
		CE LOS	Cable ope	erated fla	ange me	chanism	and cable	- must sel	ect mecha	nism (3) and c	able (4	()	
		100	Item / leng	gth — in	(mm)									Catalog no.
		4	Cable med	chanism										FLCM
		(36 (900) c	able										FLC36
			60 (1500)											FLC60
		***	120 (3000)) cable										FLC120
									OR					
			NFPA thro	ough the	e door h	andle kit	- to be use	d with fro	nt pistol h	andle				
			Color						Test fun	ction	Padloc	kable	Defeatable	Catalog no.
		"Old The	Red						Ν		Υ	′	N	H79-2
									AND					
	10		Auxiliary	contacts	s									
S	ts:				No. of	contacts	Continuo		Voltage	(Vac)	Max nu		of aux contacts per	Catalog no.
ories	ntacts	5 17 1	Contact ty	pe	140. 01		rati	ına	5					
essories	contacts	\$ 10 m		pe	140. 01		rati	ing				8	switch	
Accessories	Aux. contacts		NO NC	pe	-	1	rati 1		600				4	BAC05 BAC06

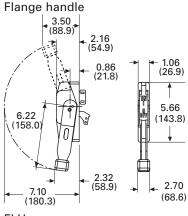
BUSSMANN

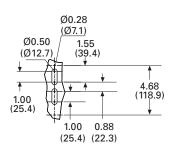


Direct mount handle



DIR-07

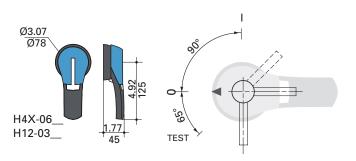


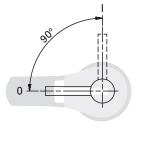


FLH_

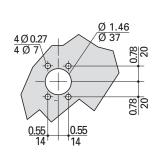
Handle type

External front and right side pistol handle





Direction of right side operation



Door drilling layout

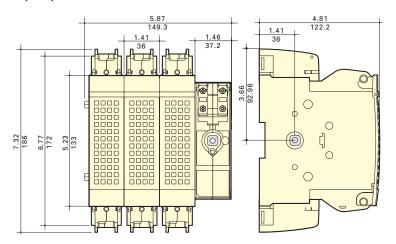
Direction of front operation



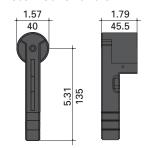
Standard 100 amp Class J

		Switch											
	ELECT						Max h	orsepower	rating				
			Fuse		SCCR	1-phase		3-phase		DO	*	Conductor	
_		Amps	class	Poles	(kA)	220/240	220/240		600	125	250	AWG size/type	Catalog no.
Switch		Airips	Class		(KA)		-, -	440/400				Avva size/type	
<u>`</u> \s		400		2		10	-	-	-	7.5	20	12-10 Sol/12-1 Str	RDF100J-2
S	藤藤 御 きゃ	100	J	3	200		30	60	75	7.5	20	- 75°C Cu	RDF100J-3
	F. B. B. S.			4		-	30	60	75	7.5	20		RDF100J-4
		* DC rating	gs use	two pole	s in serie	S.							
								PLUS					
		Direct mo		ndle - m	ounts di	rectly to su	witch, no	shaft requ	ired				
	l m	For switch no.	cat.		(Color		Test fund	Padlo	ckable		Catalog no.	
	l li	110.											
		All switche	es		1	Black		Υ)	/		DIR-07
								OR					
		External f	ront op	perated p	oistol ha	ndles - sha	ft require	ed					
		NEMA typ	e		(Color		Test fund	ction	Padlo	ckable	Defeatable	Catalog no.
						Black							H12-03B
		1, 3R, 12				d/yellow		-					H12-03R
						Black		- N					H4X-06B
								-		}	/	Υ	
		1, 3R, 4, 4	X, 12			d/yellow							H4X-06R
		., ٥.,, ٦, ٦	.,			Black		- Y					H4X-06TB
	_				Red	d/yellow							H4X-06TR
	Or	Metallic h	asp (he	(heavy duty) external front operated pi					es - sl	haft rec	uired		
		NEMA typ			Color		Test fund		Padlo		Defeatable	Catalog no.	
				Black				TOST TUTT	CHOIT	- GOLOCKODIE		Delegatable	H4X-06BHD
		1, 3R, 4, 4						- N		}	/	Υ	
	11.00	1, 3R, 4, 4		_		d/yellow						H4X-06RHD	
		External r		de opera			- shaft re						
		NEMA typ	е	Color				Test fund	Padlo	ckable	Defeatable	Catalog no.	
		1 00 4 4	Black				N.I.		,	,	NI/A	H4X-06SB	
		1, 3R, 4, 4	Χ, ΙΖ	Red/yellow				- N		Υ		N/A	H4X-06SR
Handles		Shafts for	nistol	handles									
	·	Length —	· in										
Ĕ		(mm) 7.9 (200)				Mounting depth (X) - in (mm)							Catalog no.
Ξ̈́						220)							SH5-200
			5.30~9.06 (135~230) 5.30~13.78 (135~350)										
	100	12.6 (320)											SH5-320
		15.7 (400)		5.30~1	6.93 (135	~430)							SH5-400
			11 /4	, .	1 6			OR					
	1 2) - requii			mechanis					ism + cable	0
		NEMA typ				ige style		Test fund	ction	Padlo	ckable	Defeatable	Catalog no.
			, 3R, 4, 12			andard		- N		\	,	Υ	FLH1
	10	1, 3R, 4, 4	I, 4, 4X, 12 Chrome plated N Y								'	FLH2	
	210	Shaft ope	rated f	lange m	echanisn	n (2) - inclu	ides shaf	t					
		For enclos											Catalog no.
	3	6~24 (152											FLRM
	02 Lat			lange m	echanica	n and cabl	e - must	salact mos	hanic	m (3) a	nd cah	Je (4)	. = 11171
	100				condinsi	i and cabl	e - must	select illec	Harrist	11 (3) al	nu cal	16 (4)	Cotologina
	4	Item / leng											Catalog no.
	0	Cable med		1									FLCM
		36 (900) ca										,	FLC36
	•	60 (1500)	cable										FLC60
	200	120 (3000) cable									FLC120		
								OR					
		NFPA thro	ough th	ne door l	nandle ki	t - to be us	sed with		l hand	lle			
	8	Color			The state of the s			Test fund		Padlo	ckable	Defeatable	Catalog no.
		00101						TOST TUTT	CHOIL	1 44100	ACODIC .	Delegiable	Satalog 110.
	S. C.	Red						Ν		}	,	Ν	H79-2
	11 -	neu						IN		1		IN	11/3-2
								AND					
		And Auxiliary contacts											
S	- 3	Contact time No of contacts Continuous amp Voltage (Voc) Max number of aux contacts											
acts		V. CHIIde IV	140. 01	Comacis	rati	Voltage (Vac)		per switch			Catalog no.		
ontacts	E TO SEE					100							
. contacts	\$ T. C.	NO		_									BAC05
Aux. contacts				_	1	10)	600				4	BAC05 BAC06

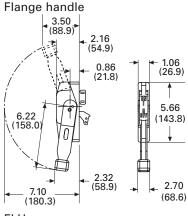
BUSSMANN

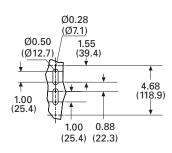


Direct mount handle



DIR-07

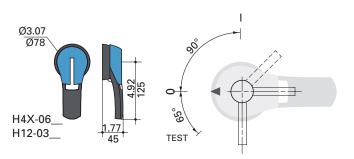


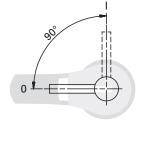


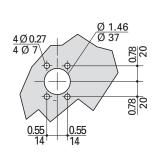
FLH_

External front and right side pistol handle

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





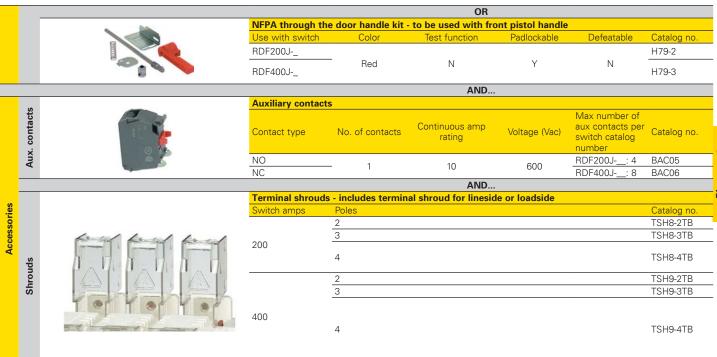




Standard 200 and 400 amp Class J

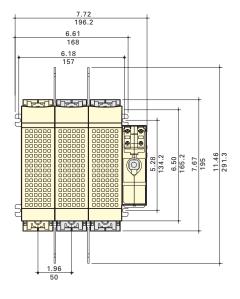
		Switch											
	4.4												
			Fuse		SCCR	1-phase		3-phase		DC	C*		
		Amps	class	Poles	(kA)	220/240	220/240	440/480	600	125	250	Catalog no.	
				2		10	-	-	-	-	-	RDF200J-2	
		200		3		-	60	125	150	-	-	RDF200J-3	
			J	4	000	-	60	125	150	-	-	RDF200J-4	
ဟ			J	2	200	10	-	-	-	20	50	RDF400J-2	
<u>l</u> ng	The state of the s	400		3		-	125	250	350	20	50	RDF400J-3	
+	4			4		-	125	250	350	20	50	RDF400J-4	
Switch + lugs		* DC ratin	igs use tv	vo poles	in series								
<u>\sc{x}</u>	+	Terminal lug kit											
0)		Switch	amps	Po	les	Lugs	per kit		AWG wi	re / type		Catalog no.	
	dv.				2		2	_	6-300	komil		LUG1-2	
		20	0		3		3	_	75°C			LUG1-3	
					4		4					LUG1-4	
	CAT .		_		2		2	- 4-600 kg	mil or du	ual 1/0-25	0 kcmil	LUG2-2	
		40	0		3		3	_	75°C		0 11011111	LUG2-3	
					4		4					LUG2-4	
		Diversit		dla :::	unda di	antle to	PLUS	haft requir	ad				
		For switch			olor		unction	mart requir	Padloo	rkablo		Catalog no.	
	Νř	TOT SWILCH	Cat. 110.		7101	1851	anction		i adio(Rabie		Catalog 110.	
	LII.	All switche	00	DI	ack		Υ		Υ	,		DIR-07	
		All SWILCH	65	Die	JCK .		1		'			DIN-07	
							OR						
1		Evternal f	front one	erated ni	stol han	dles - shaf							
us		NEMA typ			olor		unction	Padloc	kable	Defea	table	Catalog no.	
iţ.					ack							H12-03B	
li Ca		1, 3R, 12			ellow	-						H12-03R	
ddi				Bla	ack	-	N				,	H4X-06B	
p		1 00 4 4	11/ 10	Red/y	ellow	-		Y		Y		H4X-06R	
dan		1, 3R, 4, 4	+∧, IZ	Bla	ack		Υ	_				H4X-06TB	
tan	Or			Red/y	ellow		ī					H4X-06TR	
Select for standard applications				eavy duty) external front operated pistol handles - shaft r				required	1				
t fo		NEMA type 1, 3R, 4, 4X, 12		Color Black		Test f	Test function		Padlockable		itable	Catalog no.	
<u>ec</u>						_	N	Υ		Υ	/	H4X-06BHD	
Se		Red/yellow External right side operated pistol handles - shaft required										H4X-06RHD	
									Lede Le	D-4	4-1-1-	Catalana	
		NEMA typ	oe		o <mark>lor</mark> ack	lest t	unction	Padloc	kable	Defea	itable	Catalog no. H4X-06SB	
ý		1, 3R, 4, 4	1X, 12		ellow/	-	N	Y		N/	'A	H4X-06SR	
Handles	•	Shafts for	r nistal h		- C11044							11477 00011	
lan	Ŧ	Length —			a denth	(X) — in (m	nm)					Catalog no.	
	_		((145-230)	.,						
		7.9 (200)				(200-260)					- SH5-200		
		10.0 (==::		200 A: 5	5.70-13.7	8 (145-350)					- 0115 05 -		
		12.6 (320)		400 A:	7.87-16.9	3 (200-380)					SH5-320	
	W.	-			3 (145-430)								
		15.7 (400)				(200-460)					- SH5-400		
							OR						
		Flange ha	andle (1)	200 A or	ıly - requ	uires shaft		mechanis	m or cal	ole opera	ted me	chanism +	
	1 4 2	cable											
	8/1	NEMA typ			e style	Test f	unction	Padloc	kable	Defea	itable	Catalog no.	
		1, 3R, 4, 1			dard	_	N	Υ		Υ	/	FLH1	
		1, 3R, 4, 4			e plated							FLH2	
	S) ca					(2) 200 A	only - incl	udes shaft				0.11	
	3	For enclos		n — in (n	nm)							Catalog no.	
		6~24 (152					000				(0)	FLRM	
	12			ange me	cnanism	and cable	200 A on	ıy - must s	elect M	echanisn	1 (3) and	d Cable (4)	
	4	Item — in										Catalog no.	
	The sales	Cable med										FLCM	
		36 (900) c										FLC36	
	**	60 (1500)										FLC60 FLC120	
		120 (3000	, capie						-			I LUIZU	

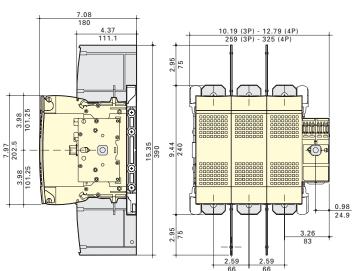




RDF200J-3 RDF400J-3





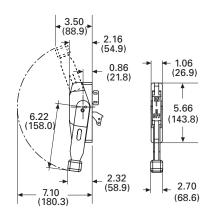


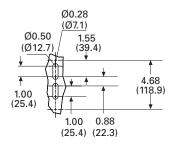


DIR-07 direct mount handle

1.57 40 45.5 1.79 45.5

FLH_ flange handle





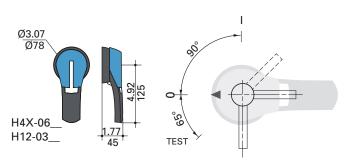
External front and right side pistol handle

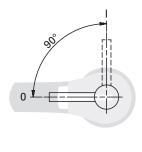
Handle type

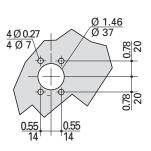
Direction of front operation

Direction of right side operation

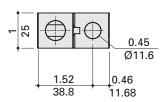
Door drilling layout



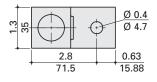


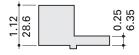


Terminal lugs 200 A (LUG1-__)



400 A (LUG2-__)







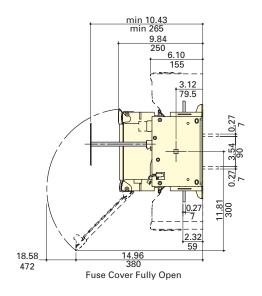


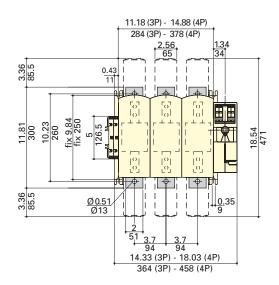
Standard 600 amp Class J and 800 amp Class L

			Switch										
		in the second	OWNER	Fuse			Max	horsepower rat	ing, 3-phase				
			Amps	class	Poles	SCCR ()kA)	220/240	440/480	600	Catalog no.			
			600		3	-	- 200	- 400	-	RDF600J-2 RDF600J-3			
			600	J	4	-	200	400 400	500 500	RDF600J-3			
	gg				2	200	-	-	-	RDF800L-2			
	<u> </u>		800	L	3	_	200	500	500	RDF800L-3			
	Switch + lugs	_	Terminal I	ua kit	4		200	500	500	RDF800L-4			
	Swi	attion.	Switch		Poles	Lugs per kit	С	onductor AWG s	size / type	Catalog no.			
		100			2	2				LUG5-2			
			600-8	800	3	3		(2) 2-600 kg		LUG5-3			
			0000	500				75°C Cu/ /	ΔI				
					4	4				LUG5-4			
							PLUS	<u> </u>					
_			Direct mount handle - mounts directly to switch, no shaft required										
catior		N .	For switch	cat. no.	(Color	Test function	Padlockable	Defeatable	Catalog no.			
rd appli			All switche	S	Е	Black	Υ	Υ	N	DIR-08			
	_												
nda			External fr	ont ope	rated pisto	l handles - sh							
Select for standard application			NEMA type		Color		Test function	Padlockable	Defeatable	Catalog no.			
			1, 3R, 4, 4X, 12			Black		Y	Υ	H4X-07B			
						l/yellow	N nerated nic	tol handles - sh	aft required	H4X-07R			
		Or	NEMA type	uop (iiou		Color	Test function	Padlockable	Defeatable	Catalog no.			
	Handles		1, 3R, 4, 4X, 12		E	Black				H4X-07BHD			
	На				Red/yellow		N	Y	Y	H4X-07RHD			
		+	Shafts for										
			Length — in (mm) Mounting depth (X) — in (mm)							Catalog no.			
			7.9 (200)		10.63~11.9		SH7-200						
			12.6 (320)		10.63~16.	69 (270~424)				SH7-320			
			15.7 (400) 10.63~19.84 (270~504)							SH7-400			
	_		,										
			NFPA through the door handle kit - to be used with front pistol handle										
			For switch cat. no.		Color		Test func- tion	Padlockable	Defeatable	Catalog no.			
		0	All switche	S	Red		Ν	Υ	N	H79-4			
							AND.						
	ıcts		Auxiliary o		No. of	Continuous	Voltage	Max number o	of aux contacts per	0.11			
	Aux. contacts	· 自己不	Contact typ	ое 	contacts	amp rating	(Vac)		witch	Catalog no.			
	Ä.		NO		- 1	10	600		8	BAC05			
	⋖		NC				AND.			BAC06			
ries			Terminal s										
880		fred bed to	Switch amp		includes (Catalog no.						
Accessories	spi						2		TSH10-2TB				
	Shrouds		600-800				3	}		TSH10-3TB			
		Terrery					TSH10-4TB						
		S.E. S.	4										

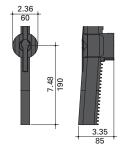


RDF600J-3 and RDF800L-3





Dir-08 drect mount handle

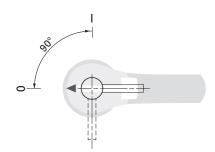


External front pistol handle

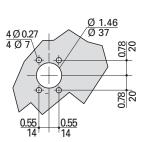
Handle type





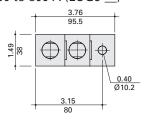


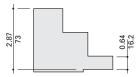
Door drilling layout



Terminal lugs

600 to 800 A (LUG5-__)







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

	Catalog 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 categ	/	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1	A 1	
400 AC-22 AC-23	2 Δ		100			400	630	800	1000	1200 1000	
AC-22	32 A	63	80	– 100 –	200		500	630	630	630	
690 $\frac{7.022}{\text{AC-}23}$	3 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	560	560	
500 V w/o prebreak AC 1, 2	15	30	45	63	140	280	450	560	500	500	
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 capacity I cm (kA pea	ak) ³ 12	12	12	17.6	32	48	48	75	48	75	
Fuse protected short-circuit withstand											
(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	2×240		
Minimum Cu busbar section (mm²)	_			_	_		2x30x5	2x40x5	2x50x5	2x60x5	
Maximum Cu cable section (mm²)	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 operat		Front/Side	Front/Side	Front/Side	Front	Front	Front	Front	Front	Front	Front
UL electrical		0001/	0001/	000 \ /	0001/	0001/	0001/	0001/	0001/	0001/	COO \ /
Max voltage (A		600 Vac	600 Vac	600 Vac	600 Vac 250 Vdc	600 Vac	600 Vac —	600 Vac	600 Vac	600 Vac —	600 Vac
Max voltage ([1-phase, 120		3			250 Vdc	_	250 Vdc —			
	1-phase, 120	5	10	10	10	10					
Max. AC Hp	3-phase, 240	10	20	20	30	75	125	200	200	200	200
ratings	3-phase, 480	20	40	50	75	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 cha											
SCCR with fus		100	100	25 /100*	200	200	200	200	100	100	100
Fuse class		J	J	J	J	J	J	J	L	L	L
Max. fuse ration	ng (A)	30	60	100	10A	200	400	600	800	1000	1200
Terminal lugs/l	kits	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)		_	_	_	_	_	
Wire range		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 (42.4)	(4) 2-600 kcmil, 375 (42.4)	(4) 2-600 kcmil, 375 (42.4)	(4) 2-600 kcmil, 375 (42.4)
and torque -	Stranded	1/0, 39.8 (4.5)	1/0, 39.8 (4.5)	1/0, 39.8 (4.5)			Dual 1/0-250 kcmil, 550 (62)	(42.4)	(72.7)	(72.7)	(42.4)
(1	Strandod		2/0, 44.3 (5)	2/0, 44.3			LUG3: (2) 6-2, 200 (22.6)				
							(2) 1-350 kcmil, 375 (42.4)				
Mechanical c	haracteristics										
Endurances/C	ycles	10,000	10,000	10,000	10,000	8000	6000	6000	3500	3500	3500
Physical char	acteristics										
Dimensions					See dra	awings on produ	uct pages				
Weight - lbs	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)
Environment	al										
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	
Flammability F	Rating	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 cat. no	3-pole	Integral	Integral	Integral	•	•	•	•	•	•	•
	4-pole			_		•	•	•	•	•	•
	NEMA 1, 3R, 12	•	•	•	•	•	•		_		
Handles	NEMA 1, 3R, 4, 4X, 12	•	•	•	•	•	•	•	•	•	•
	Direct	•	•	•	•	•	•	•	•	•	•
	Front Pistol	•	•	•	•	•	•	•	•	•	•
01 6	Front or Side Selector	•	•	•		_		_		_	
Shaft c/s - mm	1	5x5	5x5	5x5	10x10	10×10	10×10	12x12	12x12	12x12	12×12
Shaft guide		•	•	•	•	•	•	•	•	••	•
Shrouds		•	•	•	•	•	•	•	•	•	•
Additional pole Auxiliary	NO + NC	•	•	•		<u> </u>		<u> </u>		<u> </u>	
contacts	(2) NO	•	•	•			<u> </u>				-
COTTACLS	\Z/ INU	-	-	•	_	_	_	_	_	_	_

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

BUSSMANN SERIES FULL LINE CATALOG 1007 — OCTOBER 2018



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

For a complete assembly, select:

			Switch							
							orsepowe			
						hase		3-phase	Conductor	
	Switch		<u> </u>	les SCCR (kA)	120	220/240	220/240	440/480	600 AWG size/type	Catalog no.
	<u>Š</u>	.6	30	100	2	5	10	20	25 10-2/0 Str/12-10 Sol	RD30-3
	S			3	3	10	20	40	<u>50_</u> 75°C Cu	RD60-3
			100	25/100*	5	10	20	50	50 73 0 00	RD100-3
-		IP-III (I)	* 100 KA @480	Vac, 25 kA @ 600 Va	ac.		PLUS			
1			Direct mount b	nandle - mounts dir	rectly to s	witch no		iired		
			For switch cat.			Test fu		incu	Padlockable	Catalog no.
			All switches	Black		N		`	7 - On Switch	DIR-02
							OR			
		1 2	External front	or right side opera	ted select	or handles	s - shaft re	equired		
			NEMA type	Color	Handle	Test fu	nction		Padlockable	Catalog no.
				Black	length Short					H4X-01B (1
				Red/vellow	Short					H4X-01B (1
5			1, 3R, 4, 4X, 12	Black	Long	N	1		Υ	H4X-02B (2
i a				Red/yellow	Long					H4X-02B (2
1		Or	External front	operated pistol har		aft require	d			1147-0211 (2
6		.			Handle				D (0
2			NEMA type	Color	length	Test fu	nction	Padlockabl	e Defeatable	Catalog no
Select for stalldard application			1, 3R, 4, 4X, 12	Black		N	1	Υ	Υ	H4X-03B
210				Rea/yellow						H4X-03R
2			Metallic hasp	heavy duty) extern		perated pi	stol hand	les - shaft requ	ired	
3	Handles		NEMA type	Color	Handle length	Test fu	nction	Padlockabl	e Defeatable	Catalog no
כ	an			Black	—					H4X-03BHI
	I		1, 3R, 4, 4X, 12	Red/yellow		N	1	Y	Y	H4X-03RHI
		+	Shafts for sele							
		1	Length — in (m	m) Mounting dep	th (X) — ir	n (mm)				Catalog no
			5.9 (150)	3.50~7.60 (89~	~193)					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 pist			()				0 !
		2	Length — in (m			(mm)				Catalog no. SH3-200 (2
			7.9 (200)	3.30~7.40 (84~						
		k Sand	12.6 (320) 15.7 (400)	3.30~9.30 (84 3.30~14.7 (84						SH3-320 (2 SH3-400 (2
		_		r selector handles	~3/3					3H3-400 (2
			Shart guide for	Selector Harraies						Catalog no.
		100	Required for 12	.6" (320mm) long sh	afts, optio	nal for othe	r lengths			SH-GUIDE
		1		pistol handles						
				•						Catalog no
			Required for 15	.7î (400mm) long sh	afts, optio	nal for othe	r lengths			SH-GUIDE:
							AND			
		6	Auxiliary conta	icts						
	Aux. contacts	2 1	Contact type	No. of con	tacts	Continuo rati		Voltage (Vac)	Max number of units per switch	Catalog no.
	nta	F 100				Tall	rig		2 (1 per side/4 contacts	
	Ö	品。1	NO + NC	1 of each	ch		•	240	total)	BAC01
	Ľ.	2.	NO	2		10	J		2 (1 per side/4 contacts	BAC02
	⋖ .		110						total)	DACUZ
							AND			
			Terminal shrou	ıds - includes term	ınal shrou	id for both	lineside	and loadside		
es	<u>s</u>		Curitolo		3			Location	on switch	Catalog no.
solles	spno		Switch	Poles	,					
easoules -	hrouds		amps)				TSH3-1TB
Accessonies	Shrouds	c c c		1 (for switched)		Lineside a	nd loadside	TSH3-1TB TSH3-3TB
Vecessories	Shrouds		amps All switch-	1 (for switched			AND	Lineside a	nd loadside	
Accessories	Shrouds		amps All switch- es	1 (for switched	d 4th pole)			Lineside a	nd loadside	
Accessories			amps All switch- es Switched 4th	1 (for switched 3	d 4th pole)			Lineside a	nd loadside	TSH3-3TB
Accessones			amps All switches es Switched 4th Switch amps	1 (for switched 3	d 4th pole)			Lineside a	nd loadside	TSH3-3TB Catalog no
Accessories			amps All switch- es Switched 4th	1 (for switched 3	d 4th pole)			Lineside a	nd loadside	TSH3-3TB Catalog no POLE98-30
Accessories	Sw. 4th pole Shrouds		amps All switches es Switched 4th Switch amps	1 (for switched 3	d 4th pole)			Lineside a	nd loadside	



Possible 4th pole configurations





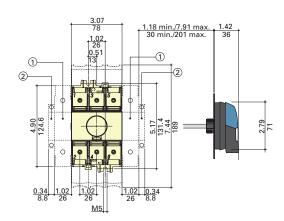




Dimensions - in (mm)

Direct handle operation

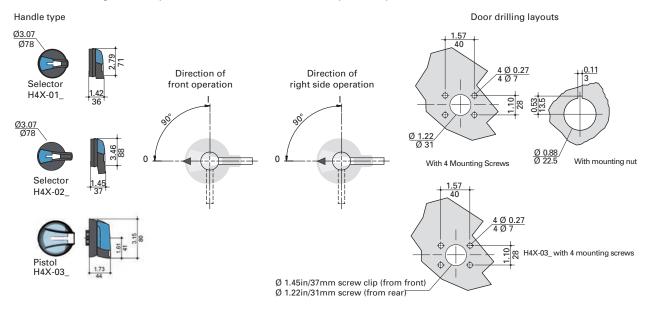
External right side operation



- 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

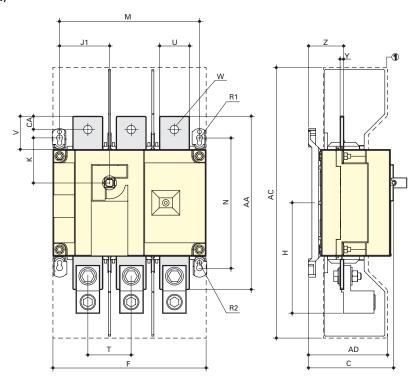


UL 98 non-fused rotary disconnect switches—100, 200 and compact 400 A

For a complete assembly, select:

			Switch							
							Max hor	sepower rating		
					_	1-phase		3-phase		
		<u> </u>	Amps	Poles	SCCR (kA)	220/240	220/240	440/480	600	Catalog no.
			100	2		10	30	75	100	RD100-3-SCCR
			200	- 3	_	10	75	150	200	RD200-3
		A LONG TO THE PARTY OF THE PART	200	4	200	10	75	150	200	RD200-4
			400	3		-	125	250	350	RD400-3
				4		-	125	250	350	RD400-4
	ء	+	Terminal Iu	ıg kit						
	Switch		Switch amps	Poles	Lugs p	er kit	Con	ductor AWG siz	ze/type	Catalog no.
	S			2	2			0.0001 "		LUG1-2
			100-200	3	3			6-300 kcmil 75°C Cu/ Al		LUG1-3
		99 50		4	4			73 C Cu/ Ai		LUG1-4
		0.0		2	2		4 600 k	cmil or Dual 1/0	250 komil	LUG2-2
				3	3		4-000 K	75°C Cu/ Al		LUG2-3
		SU 51	400	4	4					LUG2-4
_				2	2			(2) 6-350 kcm	nil	LUG3-2
.o.				3	3			75°C Cu/ Al		LUG3-3
cat				4	4					LUG3-4
ild			Division				PLUS			
Select for standard application		9	Direct mou	int handle	- mounts dir	ectly to sv		latt required		
ard		 	For switch of	cat. no.	Cold	or	Test function	Padlo	ckable	Catalog no.
pu			All switches	2	Blad	·k	N		Y	DIR-03
sta			All SWITCHES	,	Diac	·N	OR		1	DIT-05
ō			Evternal fro	ont operat	ed pistol han	dles - shat				
ct f							Test			
ele			NEMA type	!	Cold	or	function	Padlockable	Defeatable	Catalog no.
S			4 00 40		Blac	:k				H12-03B
		I W	1, 3R, 12		Red/ye	llow	N	Υ	Υ	H12-03R
		Or	1, 3R, 4, 4X	′ 12	Blac	:k	IN	ī	ī	H4X-06B
		OI 1			Red/ye					H4X-06R
	<u>e</u>		Metallic has	sp (heavy c	luty) external f	ront operat		indles - shaft re	quired	
	Handle	· ·	NEMA type	:	Cold	or	Test	Padlockable	Defeatable	Catalog no.
	Ξ̈́				Blad	de.	function			H4X-06BHD
			1, 3R, 4, 4X	ζ, 12	Red/ye		N	Υ	Υ	H4X-06RHD
		_	Shafts for I	nistol han		11044				11477 00111111
			Length — ir		Mounting de	nth (X) - in	(mm)			Catalog no.
			7.9 (200)	(******)			(*******)			SH5-200
					5.31~10.43 (
			12.6 (320)		5.31~10.43 (5.31~15.16 (SH5-320
			12.6 (320) 15.7 (400)			135~385)				SH5-320 SH5-400
		+		e	5.31~15.16 (135~385)				
		+	15.7 (400)	e	5.31~15.16 (135~385)				
		•	15.7 (400)	e	5.31~15.16 (135~385)				SH5-400
			15.7 (400) Shaft Guid		5.31~15.16 (5.31~18.31 (135~385) 135~465)	al for other I	engths		SH5-400
			15.7 (400) Shaft Guid		5.31~15.16 (135~385) 135~465)	al for other I	engths		SH5-400 Catalog no.
			15.7 (400) Shaft Guid		5.31~15.16 (5.31~18.31 (135~385) 135~465)		engths		SH5-400 Catalog no.
			15.7 (400) Shaft Guid	r 15.7î (400	5.31~15.16 (5.31~18.31 (135~385) 135~465)	al for other l	engths		SH5-400 Catalog no.
	, si		15.7 (400) Shaft Guid Required fo	r 15.7î (400	5.31~15.16 (5.31~18.31 (135~385) 135~465)			ber of aux	SH5-400 Catalog no. SH-GUIDE2
	acts		15.7 (400) Shaft Guid Required fo	r 15.7î (400 ontacts	5.31~15.16 (5.31~18.31 (135~385) 135~465)	AND	Max num	ber of aux per switch	Catalog no. SH-GUIDE2 Catalog no.
	ontacts		15.7 (400) Shaft Guid Required fo Auxiliary Contact type NO + NC	or 15.7î (400 ontacts No. of	5.31~15.16 (5.31~18.31 (5.31~18.31 (5.31~18.31 (135~385) 135~465) ifts, optional	AND Voltage Vac	Max num		Catalog no. SH-GUIDE2 Catalog no. BAC03*
	c. contacts		Required fo Auxiliary co Contact type NO + NC NO + NC	ontacts No. of contacts	5.31~15.16 (5.31~18.31 (135~385) 135~465) ifts, optional	AND Voltage	Max num contacts	per switch	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04*
	Aux. contacts		Required fo Auxiliary contact type NO + NC NO + NC NO + NC	or 15.7î (400 ontacts No. of	5.31~15.16 (5.31~18.31 (5.31~18.31 (5.31~18.31 (135~385) 135~465) ifts, optional	Voltage Vac 125-250	Max num contacts		Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11*
S	Aux. contacts		Auxiliary contact type NO + NC	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (0mm) long sha Continuous a 10.	135~385) 135~465) ifts, optional	Voltage Vac 125-250	Max num contacts	oer switch	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12*
ories	Aux. contacts		Auxiliary contact type NO + NC	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (0mm) long sha Continuous a 10.	135~385) 135~465) ifts, optional	Voltage Vac 125-250 125 auxiliary contact	Max num contacts	oer switch	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12*
ssories	Aux. contacts		Auxiliary contact type NO + NC	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (5.31~	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contace	Max num contacts	oer switch	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12*
cessories	Aux. contacts		Auxiliary contact type NO + NC NO + NC NO + NC NO + NC Terminal sl	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (5.31~	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND	Max num contacts ts, install BAC03 + B.	oer switch 2 ACO4, or BAC11 + B	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12.
Accessories	Aux. contacts		Auxiliary of Contact type NO + NC NO + NC NO + NC Terminal si Switch	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (5.31~	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND	Max num contacts	oer switch 2 ACO4, or BAC11 + B	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12*
Accessories			Auxiliary contact type NO + NC NO + NC NO + NC NO + NC Terminal sl	ontacts No. of contacts - 1 of each	Continuous a Continuous a 10. 1 tall either BAC03 or Poles	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND	Max num contacts ts, install BAC03 + B. de or loadside Location on sw	oer switch 2 ACO4, or BAC11 + B	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12.
Accessories			Auxiliary of Contact type NO + NC NO + NC NO + NC Terminal si Switch	ontacts No. of contacts - 1 of each	5.31~15.16 (5.31~18.31 (5.31~	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND	Max num contacts ts, install BAC03 + B.	oer switch 2 ACO4, or BAC11 + B	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12.
Accessories			Auxiliary contact type NO + NC NO + NC NO + NC Terminal st Switch amps	ontacts No. of contacts - 1 of each	Continuous a Continuous a 10. 1 tall either BAC03 or Poles	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND I for Linesic	Max num contacts ts, install BAC03 + B, de or loadside Location on sw Lineside	per switch 2 ACO4, or BAC11 + E	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12. Catalog no. TSH4-3T
Accessories	Shrouds Aux. contacts		Auxiliary contact type NO + NC NO + NC NO + NC Terminal st Switch amps	ontacts No. of contacts - 1 of each	Continuous a Continuous a 10. 1 tall either BAC03 or Poles 3 4	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND I for Linesic	Max num contacts ts, install BAC03 + B. de or loadside Location on sw Lineside Loadside	per switch 2 ACO4, or BAC11 + E	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12. Catalog no. TSH4-3T TSH4-3B
Accessories			Auxiliary contact type NO + NC NO + NC NO + NC Terminal st Switch amps	ontacts No. of contacts - 1 of each	Continuous a Continuous a 10. 1 reludes termi Poles 3	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND I for Linesic	Max num contacts ts, install BAC03 + B. de or loadside Location on sw Lineside Loadside Loadside Loadside or load	per switch 2 ACO4, or BAC11 + E	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* 3AC12. Catalog no. TSH4-3T TSH4-3B TSH4-4TB
Accessories			Auxiliary contact type NO + NC NO + NC NO + NC Terminal st Switch amps	ontacts No. of contacts - 1 of each	Continuous a Continuous a 10. 1 tall either BAC03 or Poles 3 4	135~385) 135~465) Ifts, options amp rating	Voltage Vac 125-250 125 auxiliary contac AND I for Linesia	Max num contacts ts, install BAC03 + B. de or loadside Location on sw Lineside Loadside Loadside or load Lineside or load	per switch 2 AC04, or BAC11 + E	Catalog no. SH-GUIDE2 Catalog no. BAC03* BAC04* BAC11* BAC12* BAC12. Catalog no. TSH4-3T TSH4-3B TSH4-4TB TSH5-3T

Dimensions — in (mm)



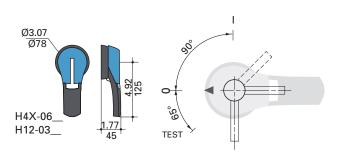
Switch	Overall	Termin	al shrouds			Switc	h body				Switch	n moun	ting					Conne	ction			
amps	dim. C	AC	AD	F 3p.	F 4p.	H	J1 3p.	J1 4p.	K	M 3p.	M 4p.	N	R1	R2	T	U	V	W	Υ	Z	A A	AC
100	2.72 (05)	10.1	2.05 (70)	7.09	9.06	4.22	2.17	4.13	1.8	6.3	8.27	5.31	0.35	0.27	1.97	0.98	1.18	0.43	0.14	1.35	6.3	0.6
100	3.72 (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	0.70 (OE)	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
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

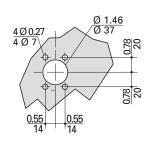
External front handle

Handle type

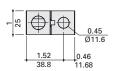


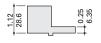
Direction of front operation

Door drilling layout

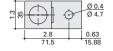


Terminal lugs



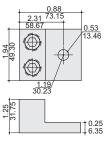


LUG1-_ 100 to 200 A





LUG2-_ 400 A



LUG3-_ 400 A



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

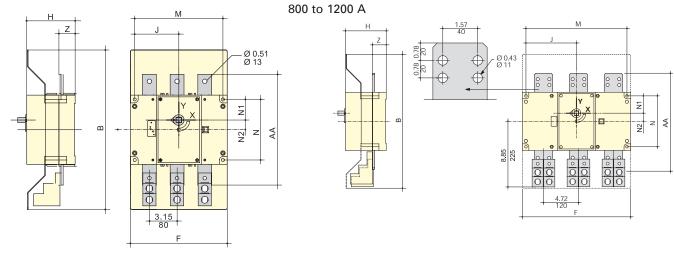
For a complete assembly, select:

			Switch								
			OWITCH				Max horse	power rating			
					SCCR		3-phase	povior rating	DC*		-
			Amps	Poles	(kA)	220/240	440/480	600		250	- Catalog no.
		Diffe to		3		240	400	350	20	50	RD600-3
		The same of the sa	600 -	4	- 200	240	400	350	20	50	RD600-4
				3	-	200	500	500	-	-	RD800-3
			800 -	4	-	200	500	500	_	-	RD800-4
				3	-	200	500	500	_	-	RD1000-3
	ڃ	THE PARTY OF THE P	1000 -	4	- 100	200	500	500	_	-	RD1000-4
	Switch			3	-	200	500	500	_	-	RD1200-3
	Š		1200 —	4	-	200	500	500	-	-	RD1200-4
			* DC ratings use	two poles in serie	S.						
		+	Terminal lug l	kit							
			Curital anama	Poles		Luna mar kit	Lucia escuire		Conductor	AWG	Catalog no.
		100	Switch amps		-	Lugs per kit	Lugs require	ea per poie	size/type		
		0	600 -	3		3	- 1		(2) 2-600 k		LUG5-3
		0 40		4		4	'		75°C Cu/ A	AI .	LUG5-4
			800-1200 —	3		6	- 2		(4) 2-600 k	cmil	LUG6-6
_			000-1200 —	4		8			75°C Cu/ A	AI .	LUG6-8
i							PLUS				
Select for standard application		like.	Direct mount h	nandle - mounts	directly to	o switch, no sha	aft required				
ם		10	For switch	ch cat. no.		Color	Test function	Pa	dlockable		Catalog no.
ap		VIII									
ard		a di	All sw	vitches		Black	N		Υ		DIR-04
bu		III.	7 011			Bidon					5
sta							OR				
or s	i	4 🔵	External front	operated pist	ol bandla	s shaft roquir					
# #		1 2	NEMA type	operated pist	oi manule	Color	Test function	Padlockable	Defeata	hle	Catalog no.
<u>e</u>			INLIVIA type			Black	lest fulletion	1 adiockable	Deleata	IDIC	H4X-07B (1)
Š		שו				ed/yellow	_				H4X-07R (1)
			1, 3R, 4, 4X, 12	2	- 110	Black	- N	Υ	Υ		H4X-08B (2)
					Re	ed/yellow	-				H4X-08R (2)
		Or 4	Metallic hasp	(heavy duty) e			nistal handles	- shaft requ	ired		11477 0017 (2)
	es	3 6 4	NEMA type	(Houry duty) c	Acomai n	Color	Test function			hle	Catalog no.
	Handles					Black					H4X-07BHD (3)
	Ha				Re	ed/yellow	-				H4X-07RHD (3)
		37	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)	Mountin	ng depth (X) — i	in (mm)				Catalog no.
			7.9 (200)		8.70~13	3.50 (221~343)					SH6-200
			12.6 (320)		8.70~18	3.23 (221~463)					SH6-320
			15.7 (400)		8.70~21	.38 (221~543)					SH6-400
		+	Shaft guide								
											Catalog no.
			Poguinad for 45	= 7" (400~~·\	na cheft	ontional feet of	harlaneth-				CH CHIDEO
			nequirea for 15	5.7" (400mm) lo	ng snaπs,	, optional for oth	ner lengths				SH-GUIDE2
		IIII									
							AND				
			Auxiliary cont	acts							
	ts		Contact type	No. of contacts	Continu	ous amp rating	Voltage (Vac)		er of aux cor	ntacts	Catalog no.
	tac	7			- Continu	Tao a.mp rading		pe	er switch		
	Aux. contacts		NO + NC	1 of each	_	10.1	125-250				BAC03*
	S	1 1 3 1 1 A	NO + NC	1 of each					2		BAC04*
10	\UX		NO + NC	1 of each	_	1	125		-		BAC11*
Ë.	1		NO + NC	1 of each							BAC12*
Accessories			* For one auxiliar	y contact, install e	ither BAC0	3 or BAC11. For tw	vo auxiliary contac	ts, install BAC	03 + BAC04, or	r BAC1	+ BAC12.
ces							AND				
Ac		·/		ds* — includes	terminal	shroud for lines					0
	u)		Switch amps	Poles			Location	on switch			Catalog no.
			600	3		_					TSH6-3TB
	pn		600 -								
	roud			4		_	Lineside o	or loadside			TSH6-4TB
	Shrouds			3		- -	Lineside	or loadside			TSH7-3TB
	Shroud		800-1200 —			-	Lineside	or loadside			



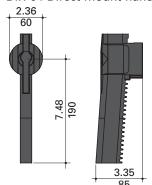
Dimensions — in (mm)





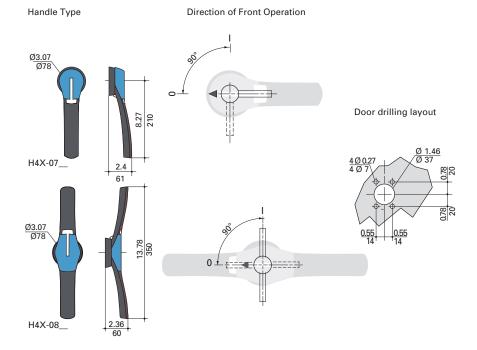
Switch	Terminal		S	witch body				Swite	h mounting	3		Conne	ection
amps	shrouds B	F 3p.	F 4p.	Н	J 3p.	J 4p.	M 3p.	M 4p.	N	N1	N2	A A	Z
600	18.12 (460)	11 (280)	14.17 (360)	5.5 (140)	5 (128)	6.59 (168)	10.03 (255)	13.19 (335)	6.88 (175)	2.34 (60)	1.1 (28)	12.6 (320)	1.85 (47)
800	18.12 (460)	14.64 (372)	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

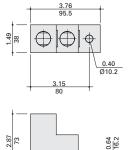


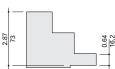
Terminal lugs

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	je 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	չ 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 (N•m)	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



						The state of the s
	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
NA III d	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	THEM TOO TELLING (7)	Integral	Integral	Integral	Integral	Integral
Wire type		75°C Cu	75°C Cu	75°C Cu	75°C Cu	75°C Cu
vine type	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 targue. Ih 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)
Wire range and torque - lb-in (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)
(14-111)	Stranded dual					
Mechanical characteristics	Straniueu uuai	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)
		10.000	10.000	10.000	10.000	10.000
Endurances/cycles		10,000	10,000	10,000	10,000	10,000
Physical characteristics						
Dimensions			drawings on produ			
Weight- lb (kg)		0.5 (0.2)	0.5 (0.2)	0.5 (0.2)	0.7 (0.32)	0.7 (0.32)
Environmental						
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						
	Direct	DIR-01	DIR-01	DIR-01	DIR-01	DIR-01
	Short selector/NEMA 1, 3R, 4,	H4X-01B	H4X-01B	H4X-01B	H4X-01B	H4X-01B
	4X, 12	H4X-01R	H4X-01R	H4X-01R	H4X-01R	H4X-01R
	Long selector/NEMA 1, 3R, 4,	H4X-02B	H4X-02B	H4X-02B	H4X-02B	H4X-02B
Handles	4X, 12	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
The contract of the contract o	15.75"/400mm	SH3-400	SH3-400	SH3-400	SH3-400	SH3-400
Selector handle shaft guide	16.767166111111	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
DOG: HIOGHERIE	1-Pole	TSH1-1TB	TSH1-1TB	TSH1-1TB		
	3-Pole (loadside and lineside)	TSH1-3TB	TSH1-3TB	TSH1-3TB	TSH2-3TB	TSH2-3TB
					13112-310	13112-310
Shrouds/switch amps	Switched 4th pole/switch amps	POLE-16	POLE-25	POLE-40	-	_
omoddojoviton 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
6-/8-pole conversion kit gangs tw	o switches of same rating, 16-80 A	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE	KIT-6POLE
switch amps						
Net eveileble						

[—]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	3-Phase		
				SCCR @600V	J fuse					Conductor AWG size/	
	45.0	Amps	Poles	(kA)	amps	208		440/480	600	type	Catalog no.
	0 0 0 0	16		65	30 -	3	5	10	10	- 14-10 Sol, Dual 12	RD16-3-508
<u>ج</u>		25				7.5	7.5	15	20	- Sol, 14-4 Str, Dual	RD25-3-508
Switch	10	40		10	60	7.5	7.5	20	25	14-12 Str, 75°C Cu	RD40-3-508
S	-	40	3	65	30	7.0	7.5	20		14 12 011, 70 0 00	HD40-3-300
	01010	63	3	50	100	15	20	40	40	14.10 Cal. Dual 10	RD63-3-508
				65	60	10	20	40	40	14-10 Sol, Dual 12 - Sol, 14-1 Str, Dual	11003-3-300
		80		50	100	15	20	40	40	10-6 Str, 75°C Cu	RD80-3-508
				65	60	10	20	40	40	10 0 011, 70 0 00	11000-3-300
							PLUS				
				mounts directl	<u> </u>	, no shaf					
		For switch ca	at. no.		Color		Test for	unction		Padlockable	Catalog no.
		All switches			Black		- 1	N	Y	- On Switch	DIR-01
							OR				
	1 2	External from	nt or right	side operated	selector ha	ndles - sl					
		NEMA type		Color	Handle I	ength	Test for	unction		Padlockable	Catalog no.
				Black	Sho	rt					H4X-01B (1)
_		1, 3R, 4, 4X,	12	Red/yellow			- 1	N		Υ	H4X-01R (1)
. <mark>.</mark>		.,, ., .,	-	Black	Lon	ıa		•			H4X-02B (2)
cat	_			Red/yellow							H4X-02R (2)
<u>a</u>	Or		nt operate	ed pistol handle			T		5 " 1 11	5.6.11	0
ab		NEMA type		Color	Handle I	ength	lest fu	unction	Padlockable	Defeatable	Catalog no.
P_		1, 3R, 4, 4X,	12	Black	_		1	N	Υ	Υ	H4X-03B
عق		Matallia baar	/ / la a a , n , a l ,	Red/yellow	+	intel band	dlaa abaftu	a au ira al			H4X-03R
tal		NEMA type	(neavy du	Color	Handle I			unction	Padlockable	Defeatable	Catalog no.
S T		INLIVIA type		Black	i iai iule i	engui					H4X-03BHD
Ŧ.		1, 3R, 4, 4X,	12	Red/yellow	_		I	N	Υ	Υ	H4X-03RHD
Select for standard application es	+	Shafts for se	elector ha								
Se	•	Length — in		Mounting dept	h (X) - in (mr	m)					Catalog no.
Se Handles	1	5.9 (150)	, ,	3.50~7.60 (89~		,					SH4-150 (1)
Ŧ		7.9 (200)		3.50~9.50 (89~	~241)						SH4-200 (1)
	William .	12.6 (320)		3.50~14.9 (89~	-378)						SH4-320 (1)
		Shafts for pi	istol hand	les							
	0	Length — in	(mm)	Mounting dept	h (X) - in (mr	ന)					Catalog no.
	2	7.9 (200)		3.30~7.40 (84~							SH3-200 (2)
	All .	12.6 (320)		3.30~9.30 (84~							SH3-320 (2)
	•	15.7 (400)		3.30~14.7 (84~							SH3-400 (2)
	+		s for selec	tor and pistol h	andles						Catala
		Handle type		Required for 12	C" /220mama	\ a = a = a a	efte entire	l for other	la martha		Catalog no.
	100	Selector		nequired for 12	2.6 (32011111)) long sna	aits, optiona	ii ior otner	iengins		SH-GUIDE1
	3	D:		D : 16 45	711 /400		6				011 01110 50
		Pistol		Required for 15	5.7° (400mm) long sna	atts, optiona	il for other	iengths		SH-GUIDE2
	I SSE	_									
	+	Door mount		also at also a tale of	6 41 1					official and a supplication of the	- ft. + i
				i the right side of switch and selec				enciosure	uoor using sv	witch side operation sha	ait location. Kit
		Switch	art. Order	STATION AND SELEC	roi nanule s	Charately					Catalog no.
		OVVICEIT									Catalog 110.
	W										
		All switches -	- kit include	es shaft							DOOR-508
							AND				



	S	6	Auxiliary contacts					
	Aux.Contacts	60 t	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.	函。	NO	2	10	240	2 (1 per side/4 contacts total)	BAC02
						AND		
			Terminal shrouds - in	cludes terminal	shroud for both line	eside and loadside		
	g	-2.17	Switch amps		Poles		Location on switch	Catalog no.
	Shrouds		16-40	1 (fc	or switched 4th pole)			TSH1-1TB
	S	6 6 6	16-40	. (Lineside and loadside	TSH1-3TB
			63-80		3			TSH2-3TB
	-					AND		
			Switched 4th pole - c	onverts 3-pole s	witch to 4-pole swit	tch		Catalan na
(n	4 th pole		Switch amps 16					Catalog no. POLE-16
rie	₹. 7	, P. 1						
880	7		25					POLE-25
Accessories			40					POLE-40
A						AND		
	S			Vlodules - provid	les unswitched grou		onforms to IEC 60947-3	0.11
) 0 1		Switch amps			Module Type		Catalog no.
	i.		16-40	_		Ground		GND-16-40
	nen		63-80					GND-63-80
	Gnd./neut. mods	4	16-40					NTRL-16-40
	-		63-80	_		Neutral		NTRL-63-80
					,	AND		
			6-pole conversion kit -	creates a 6-pole s	switch by ganging two		ual rating	
		0 0 0 0 0 0	Switch amps					Catalog no.
	pole kit		All switches		11 0 1 1		1 1 6 6 11 111 500 D 1 D	KIT-6POLE*
	e	2 (1)	* Kit ships with a direc Switches.	t handle. If exter	nal handle is needed o	order a selector handle	and shaft for the UL 508 Rotary Di	sconnect
	9			le switch from 1	6 to 40 amp switches	use two 3-pole switch	nes of equal ratings plus two switch	ned 4th poles
			(part # POLE).	S VVIIOIT II OIII II	c to to dilip oviitorios	, 200 1110 0 0010 3111101	5. 54ddi ratingo pido two switch	.ca 401 poloo
		Order switches separately						



Auxiliary contact configurations











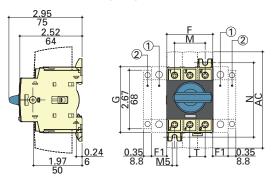


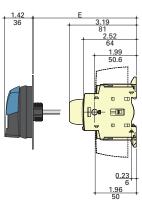


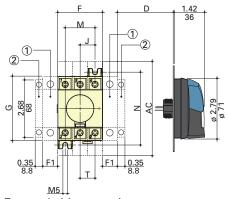


Ground and neutral module, and switched 4^{th} pole configurations.

Dimensions — in (mm)







Direct handle operation

External front operation

External side operation

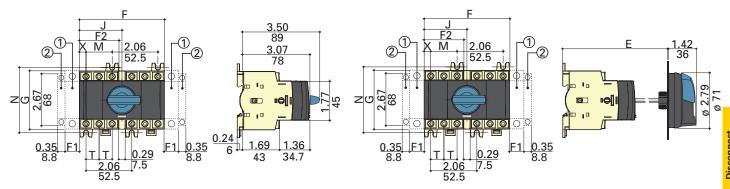
- 1. Position for 1 switched 4^{th} pole (1 per device max.), or ground or neutral module (2 per device max.) or 1 auxiliary contact. 2. Position for 1 auxiliary contact only.

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	mounting	
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)

BUSSMANN



Direct front operation for 6/8-pole disconnects

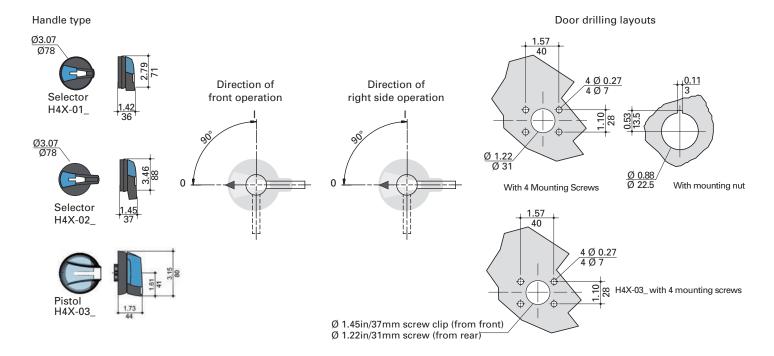
External front operation for 6/8-pole disconnects

- 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 i	mounting	Conne	ection
amps	E min	E max	F	F1	F2	G	J	M	N	T	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



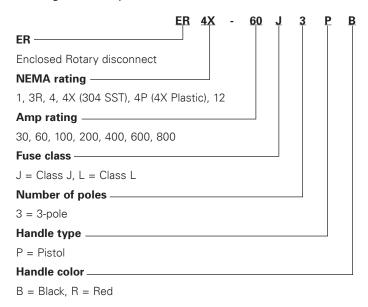
NEMA 4X polycarbonate or fiberglass



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	NEMA enclosure type 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					500



UL 98 enclosed fused disconnects — 30 to 800 A

Enclosure weights and dimensions

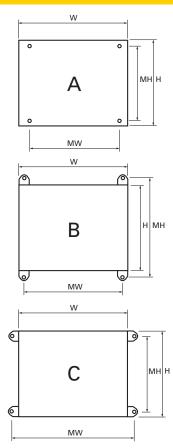
Catalog no.		Fuse	NEMA			Mounting ce	nters h x w	(in)
family	Amps	class	enclosure	H x W x D (in)	Α	В	С	Weight (lbs)
			1, 3R, 4, 12	- 10×10×6	8.3x8.3	_	_	- 15
ER30J	30		4X-SST	100 1000	_	10.7x8.3	8.3x10.7	- 15
			4X-plastic ¹	_		12x5.6	7.6×10	8
		='	1, 3R, 4, 12	12x10x6	10.3x8.3	_	_	- 19
ER60J	60		4X-SST	_	_	12.7x8.3	8.3x10.7	- 19
		_	4X-plastic ¹	13x13x6	_	14×7.6	9.6x12	11
		=	1, 3R, 4, 12	- 14x12x6	12.3x10.3	_	_	- 21
ER100J 100	100)	4X-SST	- 14X1ZX0		14.7×10.3	12.3x12.7	۷۱
			4X-plastic ¹	13x13x6	_	14×7.6	9.6x12	12
		- J	1, 3R, 4, 12	0.40.00	22.3x18.3	_	_	
ER200J	200		4X-SST	- 24×20×8		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
	800L 800 L		1, 3R, 4, 12	- 48x36x12	46.3x34.3			- 216
ER800L		L	4X-SST	- 48X36X12		48.7x34.3	46.3x36.7	- 210
			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	ı			8 (400 to 800 A)	BAC06



Terminal shrouds

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



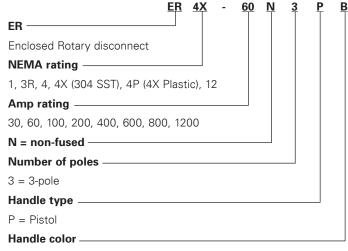
Switch amps	Poles	Catalog no.
200		TSH8-3TB
400	3	TSH9-3TB
600-800		TSH10-3TB



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

3-pole UL 98 600 Vac

Catalog number system:



B = Black, R = Red

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

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

			NEMA enclosure ty	pe 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*	UU
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

Catalog		NEMA		Mountii			
no. family	Amps	enclosure	H x W x D (in)	Α	В	С	Weight (lbs)
		1, 3R, 4, 12	- 10x8x6	8.3x6.3	_	_	11
ER30	30	4X-SST	10x8x6	_	10.7×6.3	8.3x8.7	11
		4X-plastic (1)	9x9x6	_	10x3.6	5.6x8	5
		1, 3R, 4, 12	- 10x8x6	8.3x6.3	_	_	12
ER60	60	4X-SST	ΙΟΧΟΧΌ	_	10.7x6.3	8.3x8.7	12
		4X-plastic (1)	9x9x6	_	10x3.6	5.6x8	5
		1, 3R, 4, 12	- 12×10×6	10.3x8.3	_	_	12
ER100	100	4X-SST	12x10x6	_	12.7x8.3	8.3×10.7	12
	_	4X-plastic (1)	13x13x6	_	14×7.6	9.6x12	8
	200 _	1, 3R, 4, 12	20-10-0	18.3x14.3	_	_	39
ER200		4X-SST	20x16x8	_	20.7x14.3	18.3×16.7	39
		4X-plastic (1)	20x17x12	_	21.5×10.1		31
		1, 3R, 4, 12	- 36x30x8	34.3x28.3	_	_	122
ER400	400	4X-SST	30X30X8	_	36.7x28.3	34.3x30.7	122
		4X-plastic (1)	37x32x14	_	38x28.9	_	103
		1, 3R, 4, 12	402010	46.3x34.3	_	_	209
ER600	600	4X-SST	48x36x12	_	48.7x34.3	46.3x36.7	209
		4X-plastic (1)	51x37x 14	_	50x28.5	_	187
		1, 3R, 4, 12	40,26,10	46.3x34.3	_	_	211
ER800	800	4X-SST	48x36x12	_	48.7x34.3	46.3x36.7	211
		4X-plastic (1)	51x37x 14	_	50x28.5	_	189
FD 1000	1000	1, 3R, 4, 12	60x36x16	58.3x34.3	_	_	268
ER1200	1200	4X-SST	60x36x16	_	60.7x34.3	58.3x36.7	268

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	4	BAC01*
30-100	NO	2	. 10			BAC02*
	NO + NC	1 of each	10.1	105.050		BAC03**
200 1200	NO + NC	1 of each	10.1	125-250	0	BAC04**
200-1200	NO + NC	1 of each	1	105	- 2	BAC11**
	NO + NC	1 of each	· I	125		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
200		Loadside	TSH4-3B
400	3	Lineside	TSH5-3T
400	-	Loadside	TSH5-3B
600		Lineside or loadside	TSH6-3TB
800-1200	_	Lineside of loadside	TSH7-3TB

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

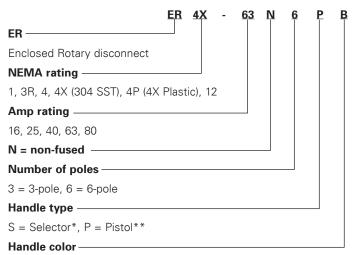
^{**}For one auxiliary contact, install either BAC03 or BAC11. For two auxiliary contacts, install BAC03 + BAC04, or BAC11 + BAC12.



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

3-/6-pole UL 508 600 Vac

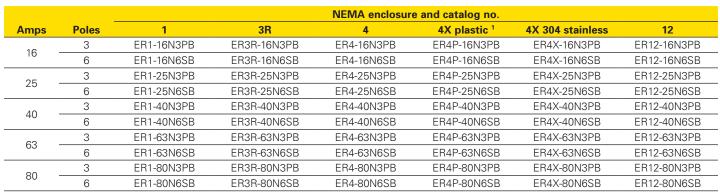
Catalog number system:



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		65 KA /30 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		1	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	3		8x6x6	6.3x4.3	_	_	8
	6	16-80	10x8x6	8.3x6.3	_	_	11
4V 204 CCT	3	10-00	8x6x6	_	8.7x4.3	6.3x6.7	8
4X-304 SST	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	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

