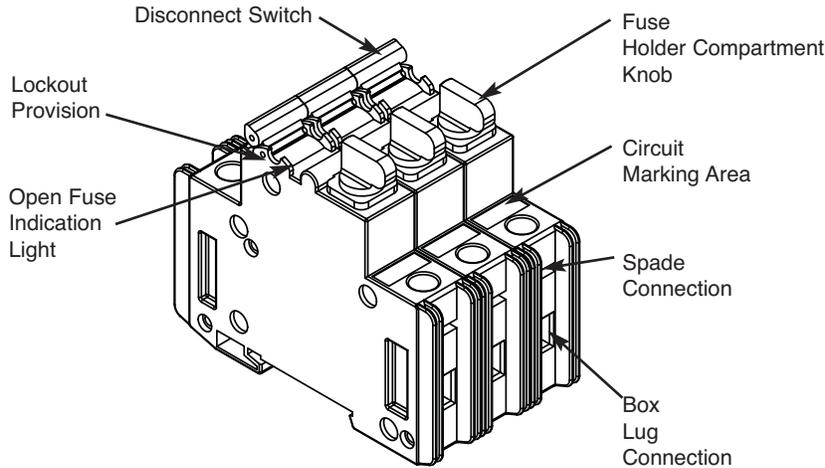


Compact Circuit Protector (CCP)

UL Class CC, Midget and IEC 10x38 fuses



Technical Ratings

Catalog Number	Poles	Amp Rating	Voltage Rating	Fuse Type	Max. Fuse Amp Rating	SCCR	Agency Approvals	Hp ratings
CCP-1-30CC	1	30	600Vac	Class CC	30A	200kA	UL 98 Listed cULus 22.2 No. 4-04	0.5Hp@120V
CCP-2-30CC	2	30	600Vac	Class CC	30A	200kA	UL 98 Listed cULus 22.2 No. 4-04	2.0Hp@240V
CCP-3-30CC	3	30	600Vac	Class CC	30A	200kA	UL98 Listed cULus 22.2 No. 4-04	3Hp@240V 5Hp@480V 7.5Hp@600V
CCP-1-30M	1	30	240Vac* UL	UL Midget	30A	10kA*	UL 508 Listed cULus 22.2 No. 14-05	—
			400Vac* IEC	10x38 IEC	32A aM, 25A gG	120kA*	IEC 60947-3 AC23A	
CCP-2-30M	2	30	240Vac* UL	UL Midget	30A	10kA*	UL 508 Listed cULus 22.2 No. 14-05	—
			400Vac* IEC	10x38 IEC	32A aM, 25A gG	120kA*	IEC 60947-3 AC23A	
CCP-3-30M	3	30	240Vac* UL	UL Midget	30A	10kA*	UL 508 Listed cULus 22.2 No. 14-05	—
			400Vac* IEC	10x38 IEC	32A aM, 25A gG	120kA*	IEC 60947-3 AC23A	
CCP-1-DCC	1	30	80Vdc*	Class CC (DC rated)	30A	20kA*	UL 98 Listed CSA 22.2 No. 4-04	—
CCP-1-DCM	1	30	80Vdc*	UL Midget	30A	10kA*	UL 508 Listed cULus 22.2 No. 14-05	—
				10x38 IEC	32A aM, 25A gG		IEC 60947-3 DC23A	

*Rating may be lower depending on installed fuse. Refer to fuse data sheet.

Recommended UL Fuse Types

AC Voltage		DC Voltage	
Class CC	Midget	Class CC	Midget
LP-CC	KTK	LP-CC	KLM
KTK-R	FNM		DCM
FNQ-R	FNQ		
	BAN		
	BAF		

Recommended IEC Fuse Types

10x38 IEC	
Part Number Family	IEC Class
C10G	gG/gL
C10M	aM

Compact Circuit Protector (CCP)

UL Class CC, Midget and IEC 10x38 fuses

Class CC Fuse Motor Sizing Table

Voltage	Motor Size (Hp)	Motor* FLA (Amps)	Low-Peak® LP-CC (Amp Rating)		
			Optimal Protection	Code Max	Heavy Start
115Vac, 1-Phase	0.167	4.4	9	15	15
	0.25	5.8	12	20	20
	0.33	7.2	15	25	25
	0.5	9.8	30	30	30
230Vac, 1-Phase	0.17	2.2	4.5	10	10
	0.25	2.9	6	10	10
	0.33	3.6	7	15	15
	0.5	4.9	10	15	15
	0.75	6.9	15	25	25
	1	8	25	25	30
200Vac, 3-Phase	1.5	10	30	30	30
	0.5	2.5	5	10	10
	0.75	3.7	7.5	15	15
	1	4.8	10	15	15
	1.5	6.9	15	25	25
208Vac, 3-Phase	2	7.8	25	25	30
	0.5	2.4	5	10	10
	0.75	3.5	7	15	15
	1	4.6	10	15	15
230Vac, 3-Phase	1.5	6.6	15	20	25
	2	7.5	15	25	30
	0.5	2.2	4.5	10	10
	0.75	3.2	7	10	12
	1	4.2	9	15	15
460Vac, 3-Phase	1.5	6	12	20	20
	2	6.8	15	25	25
	3	9.6	30	30	30
	0.5	1.1	2.25	6	6
	0.75	1.6	3.2	6	6.25
	1	2.1	4.5	10	10
575Vac, 3-Phase	1.5	3	6	10	12
	2	3.4	7	15	15
	3	4.8	10	15	15
	5	7.6	25	25	30
	0.5	0.9	1.8	3	3.5
	0.75	1.3	2.8	6	6
	1	1.7	3.5	6	6.25
	1.5	2.4	5	10	10
2	2.7	5.6	10	10	
3	3.9	8	15	15	
5	6.1	15	20	20	
7.5	9	30	30	30	

Note: NEMA motors only (no IEC or Design B Energy Efficient). Minimum size if no more than 1 start/hour. Code max if low to moderate reverse/jog/plug applications. Heavy start permitted only if Code Max does not allow motor start-up. For high reverse/jog/plug applications or larger horsepower motors, Class J fuses are recommended. See CCP with CUBEFuse®.

*Based on motor FLA from NEC® Tables 430.248 and 430.250



Compact Circuit Protector (CCP)

CUBEFuse®



RoHS
2002/95/EC

The revolutionary Cooper Bussmann® CCP is 1/3 the footprint of a circuit breaker. The level of protection provided by the CCP is up to three times the Short-Circuit Current Rating (SCCR) at full voltage than a molded case circuit breaker while providing disconnecting means.

Product Features and Benefits

- Uses finger-safe IP20 Low-Peak® CUBEFuse® with Class J performance
- Extremely compact design at 25.4mm (1 inch) wide per pole
- High Short-Circuit Current Ratings at 200kA
- Disconnect rated to provide means for load isolation
- Full voltage rated at 600Vac
- UL 98 Listed, horsepower rated, and suitable for branch circuit disconnect and branch circuit protection
- 1-, 2- and 3-pole versions are horsepower rated
- Complies with UL and cULus
- Open Fuse Indication:
 - Local fuse indication lights* are standard
 - Optional wired remote open fuse indication can be utilized to signal a PLC and open a contactor to de-energize all phases, if required
 - Cooper InVision™ Downtime Reduction System wireless indication is also available (not available in Europe)
- Additional open fuse indication can be provided by the CUBEFuse®
- IP20 finger-safe construction with 10 AWG (6mm²) wire or larger
- Built-in switch interlock capability prohibits removing the fuse under load
- Padlockable handle for lockout/tagout procedures

*Circuit must be closed for indication light to illuminate

Specifications:

- Box Lug and Spade Terminal suitable for line, load or accessory connection
- Box Lug Connection:
 - 18-6 AWG (1 to 16mm²) single or dual rated, solid or stranded – 75°C or higher - Cu only
 - 4 AWG (25mm²) single – 75°C or higher - Cu only
- Spade Terminal Connection: Max. 30A suitable for use with #8-32 UNC (M4) screw
- Torque:
 - 18-10 AWG 20 Lb-In (1-6mm²/3.4N·m)
 - 8-4 AWG 35 Lb-In (10-25mm²/5.8N·m)
- Lockout/tagout: 4mm shank lock or standard pin-out devices
- 35mm DIN rail mount
- Local indication minimum operating voltage:
 - 90Vac/115Vdc

Agency Information:

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

Shipping Weight:

- 2.03 lbs (0.92kg) per carton

Carton Quantity:

- 6 poles

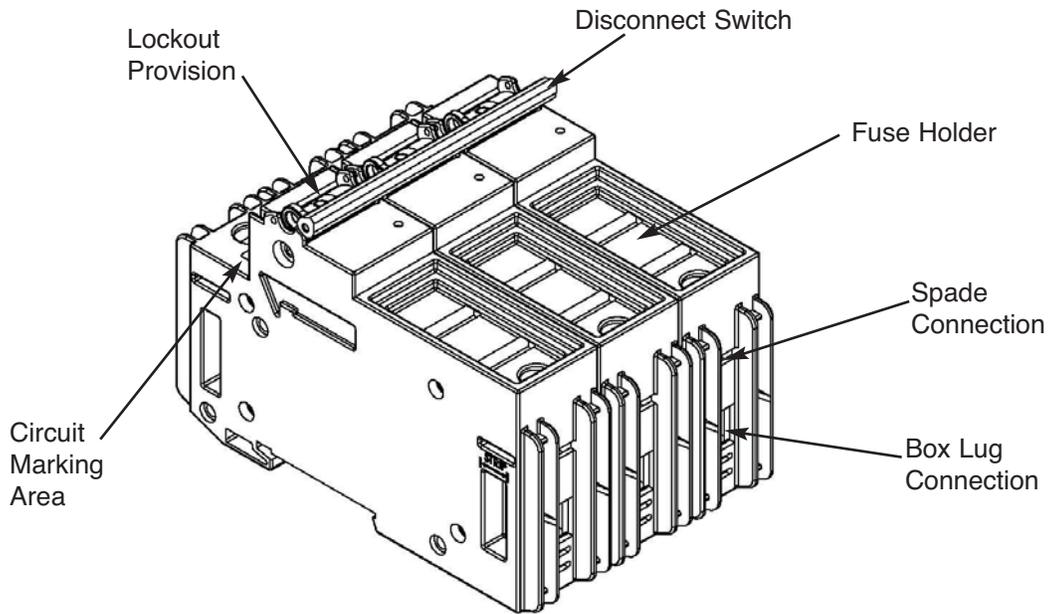
Environmental Data:

- Storage and operating temperature: -20°C to 75°C**
- Flammability rating: UL 94V0

**For fuse performance under or above 25°C, consult fuse performance derating charts in the Cooper Bussmann publication "Selecting Protective Devices" (SPD) reorder #3002.

Compact Circuit Protector (CCP)

CUBEFuse®



Technical Ratings

Catalog Number	Poles	Amp Rating	Voltage Rating	Fuse Type	Max. Fuse Amp Rating	SCCR	Agency Approvals	Hp Ratings
CCP-1-30CF	1	30	600Vac	CUBEFuse*	30A	200kA	UL 98 Listed cULus 22.2 No. 4-04	1.5Hp@120V
CCP-2-30CF	2	30	600Vac	CUBEFuse*	30A	200kA	UL 98 Listed cULus 22.2 No. 4-04	3.0Hp@240V
CCP-3-30CF	3	30	600Vac	CUBEFuse*	30A	200kA	UL 98 Listed cULus 22.2 No. 4-04	5Hp@240V 15Hp@480V 10Hp@600V
CCP-1-60CF	1	60	600Vac	CUBEFuse*	60A	200kA	UL 98 Listed cULus 22.2 No. 4-04	3.0Hp@120V
CCP-2-60CF	2	60	600Vac	CUBEFuse*	60A	200kA	UL 98 Listed cULus 22.2 No. 4-04	7.5Hp@240V
CCP-3-60CF	3	60	600Vac	CUBEFuse*	60A	200kA	UL 98 Listed cULus 22.2 No. 4-04	7.5Hp@240V 20Hp@480V 10Hp@600V

*Class J electrical performance

Compact Circuit Protector (CCP)

CUBEFuse®

CUBEFuse® Motor Sizing Table

Voltage	Motor Size (Hp)	Motor* FLA (Amps)	Low-Peak® CUBEFuse® (Amp Rating)		
			Optimal Protection	Code Max	Heavy Start
115Vac, 1-Phase	0.167	4.4	10	10	10
	0.25	5.8	10	15	15
	0.333	7.2	15	15	15
	0.5	9.8	15	20	20
	0.75	13.8	25	25	30
	1	16	25	30	35
	1.5	20	30	35	45
	2	24	40	45	50
	3**	34	50	60	N/A
230Vac, 1-Phase	0.167	2.2	6	6	6
	0.25	2.9	6	6	6
	0.333	3.6	6	10	10
	0.5	4.9	10	10	10
	0.75	6.9	15	15	15
	1	8	15	15	17.5
	1.5	10	15	20	20
	2	12	20	25	25
	3	17	25	30	35
	5	28	45	50	60
7.5**	40	60	N/A	N/A	
200Vac, 3-Phase	0.5	2.5	6	6	6
	0.75	3.7	6	10	10
	1	4.8	10	10	10
	1.5	6.9	15	15	15
	2	7.8	15	15	17.5
	3	11	17.5	20	20
	5	17.5	30	35	35
	7.5**	25.3	40	45	50
208Vac, 3-Phase	0.5	2.4	6	6	6
	0.75	3.5	6	10	10
	1	4.6	10	10	10
	1.5	6.6	10	15	15
	2	7.5	15	15	15
	3	10.6	17.5	20	20
	5	16.7	25	30	35
7.5**	24.2	40	45	50	

Voltage	Motor Size (Hp)	Motor* FLA (Amps)	Low-Peak® CUBEFuse® (Amp Rating)		
			Optimal Protection	Code Max	Heavy Start
230Vac, 3-Phase	0.5	2.2	6	6	6
	0.75	3.2	6	6	6
	1	4.2	10	10	10
	1.5	6	10	15	15
	2	6.8	15	15	15
	3	9.6	15	20	20
	5	15.2	25	30	30
	7.5**	22	35	40	45
460Vac, 3-Phase	0.5	1.1	3	3	3
	0.75	1.6	3	3	3
	1	2.1	6	6	6
	1.5	3	6	6	6
	2	3.4	6	6	6
	3	4.8	10	10	10
	5	7.6	15	15	15
	7.5	11	17.5	20	20
	10	14	25	25	30
	15	21	35	40	45
20**	27	40	50	60	
575Vac, 3-Phase	0.5	0.9	3	3	3
	0.75	1.3	3	3	3
	1	1.7	3	3	3
	1.5	2.4	6	6	6
	2	2.7	6	6	6
	3	3.9	6	10	10
	5	6.1	10	15	15
	7.5	9	15	20	20
	10**	11	17.5	20	20

Note: Use Code Max column for low to moderate reverse/jog/plug applications. Heavy Start permitted only if Code Max does not allow motor start-up.

*Based on motor FLA from NEC® Tables 430.248 and 430.250

**Max. Hp rating for the CCPB 60 Amp device at specified voltage

Compact Circuit Protector (CCP) Accessories

UL Class CC, Midget, IEC 10x38 fuses, and CUBEFuse®

Recommended Lockout Devices

CCP Version	Bradly Pin-Out P/N	Ideal P/N	Padlock
Class CC, Midget, IEC 10x38	90844	44-779	4mm shank
CUBEFuse®	90850	44-784	4mm shank

Accessories for use with Class CC, Midget, IEC 10x38 and CUBEFuse® CCP

Catalog Number	Description	Configuration	Signal Output	Minimum Circuit Voltage	Agency Approvals
CCP-AUX	Auxiliary Contacts NO+NC for Switch Status	1 per CCP	5A/240Vac	–	UL 98 Recognized cURus 22.2 No. 4-04, IEC 60947-5-1 AC15
CCP-PLC-IND	Wired Remote Fuse Indication for PLC Applications	1 per CCP	24Vdc	100Vac	UL 98 Recognized cURus 22.2 No. 4-04
ICM-DIN*	Intelligent Circuit Monitor for Cooper InVision™ Downtime Reduction System	1 per pole	RF Signal	100Vac	UL 508 Listed CSA Certified

*Refer to Data Sheet 1068, InVision Downtime Reduction System (not available in Europe)



CCP-AUX



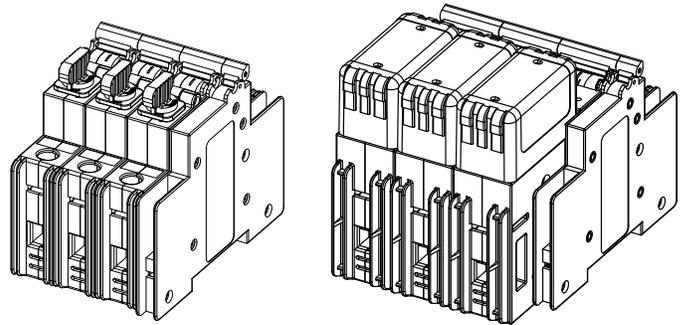
CCP-PLC-IND
(Includes spade terminals)



ICM-DIN

Auxiliary Contact – CCP-AUX

UL Class CC, Midget, IEC 10x38 fuses, and CUBEFuse®



CCP-AUX installed on a CCP-3-xx

Description

NO+NC contact output to indicate the status of the switching mechanism on the CCP

Specifications:

- Rated Current: 5A
- Rated Voltage: 240Vac
- NC/NO contacts are closed/open when the CCP switch is in the "ON" position (closed)
- Flammability Rating: UL94V0

Agency Information:

- UL 98 File E155130, Guide WHTY2
- cULus to CSA Standard 22.2 No. 4-04
- IEC 60947-5-1

Wiring:

- 20-16 AWG (1 to 2.5mm²) wire
- Torque 5 Lb-In (0.68N•m)
- For use with only 75°C Cu wire

Packaging:

- The CCP-AUX is packaged individually
- A single unit is capable of mounting to a 1-, 2-, or 3-pole CCP

Installation Technique:

- Mounts on the right side of the CCP, and mechanically interlocks with the CCP switch handle with hardware provided

IP20 Rating: Yes

Environmental Data:

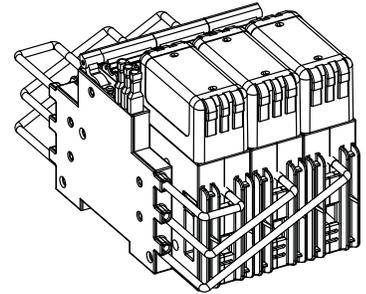
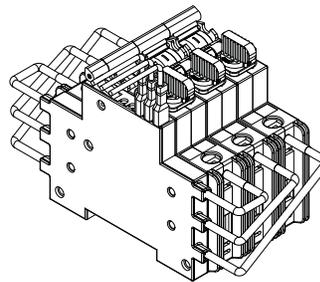
- Storage and Operating Temperature: -20°C to 75°C

De-energize all circuits before installing or removing any CCP-AUX devices and follow all prescribed safety procedures.

Remote Fuse Monitoring Accessory – CCP-PLC-IND

UL Class CC, Midget, IEC 10x38 fuses, and CUBEFuse®

CCP-PLC-IND installed on a CCP-3-xx



Description

A resetable three-phase remote fuse monitor that integrates with a Programmable Logic Controller (PLC) or other monitoring and control equipment

Specifications:

- **Power Input:** 24Vdc / 5mA
- **Output Signals:** Digital 0Vdc (Low), 24Vdc (High)
 - 0Vdc Low – Fuse is good
 - 24Vdc High – Fuse has opened

When the fuse opens, the output signal is sent high and will remain high until the unit is reset
- **Rated Impulse Voltage:** 8kV
- **Local Indication:** Two distinct LEDs indicate unit power (green) and open fuse (red). Upon the replacement of the fuse, the actuation of the reset switch will reset the open fuse LED
- **Flammability Rating:** UL 94V0

Wiring:

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

Emissions and Immunity Testing:

- Electrostatic Discharge IEC 61000-4-2
- Electrical Fast Transient/Burst IEC 6100-4-4
- Surge Immunity IEC61000-4-5

Packaging:

- The CCP-PLC-IND is packaged individually
- A single unit monitors up to three phases
- Package includes 0.110" (2.8mm) quick connects for power, signal and ground connections

Minimum Circuit Voltage:

- Minimum circuit voltage required across the CCP is 100Vac for the remote indication device to operate

Installation Technique:

- Mounts on the left side of the CCP and mechanically interlocks with the CCP switch handle with hardware provided

IP20 Rating: Yes

Environmental Data:

- Storage and Operating Temperature: -20°C to 75°C

Agency Information:

- UL 98 File E155130, Guide WHTY2
- cULus to CSA Standard 22.2 No. 4-04

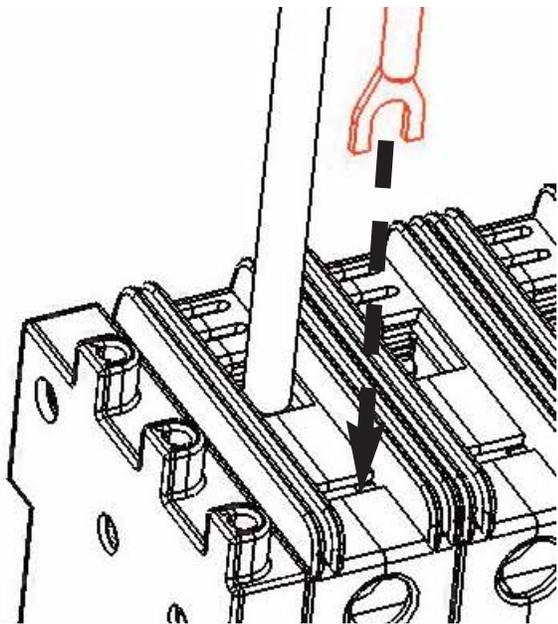
PLC Programming:

- The CCP-PLC-IND signal line is designed to provide a digital input to a PLC I/O card
- 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

De-energize all circuits before installing or removing any CCP-PLC-IND devices and follow all prescribed safety procedures.

Remote Fuse Monitoring Accessory – CCP-PLC-IND

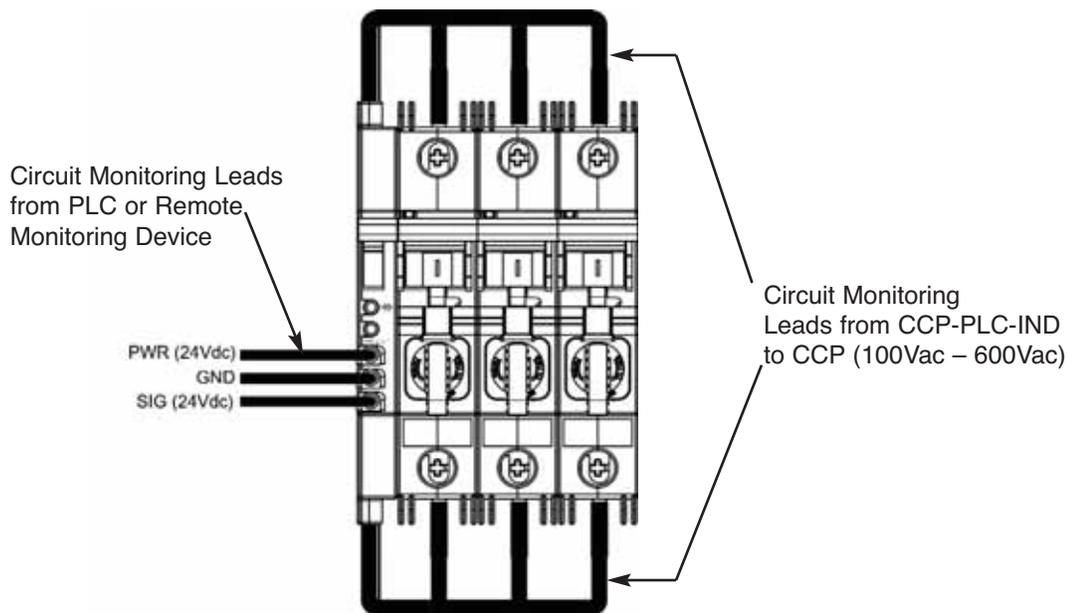
UL Class CC, Midget and IEC 10x38 fuses, and CUBEFuse®



Connect leads from CCP-PLC-IND to the terminals as shown. There is a dedicated terminal on the CCP to accept the spade connectors from the CCP-PLC-IND.

NOTE: When monitoring a 1-pole or 2-pole CCP, trim unused leads

Connection from CCP-PLC-IND to CCP



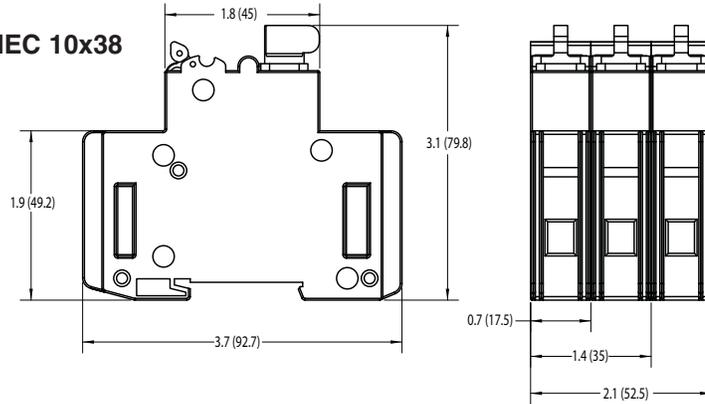
Connections for CCP-PLC-IND from a CCP-3 to a remote monitoring device

Compact Circuit Protector (CCP)

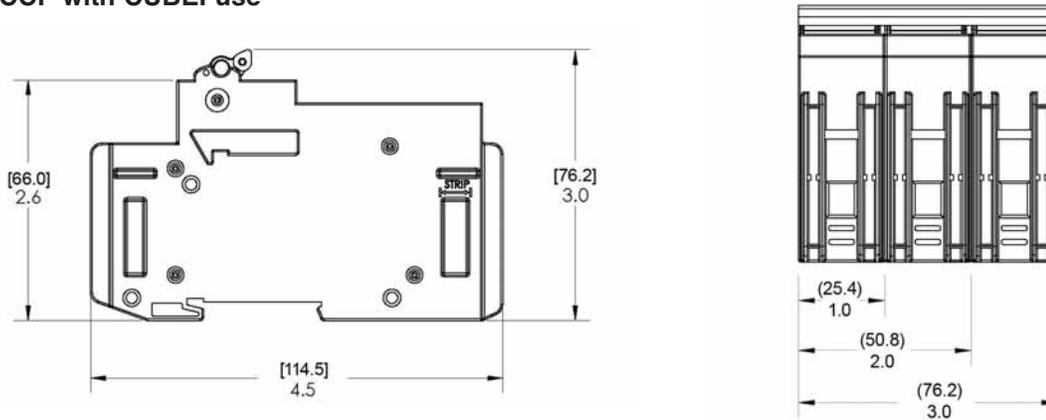
UL Class CC, Midget, IEC 10x38 fuses, and CUBEFuse®

Dimensions - in (mm)

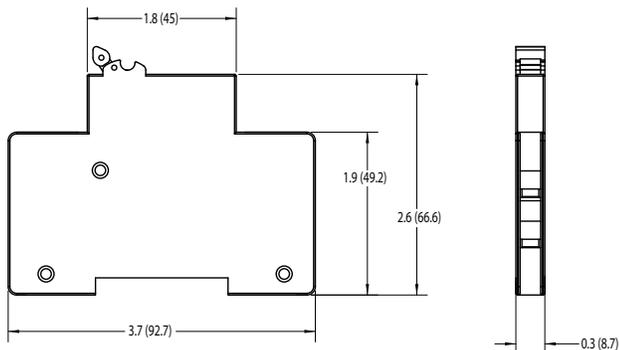
CCP for Class CC, Midget and IEC 10x38



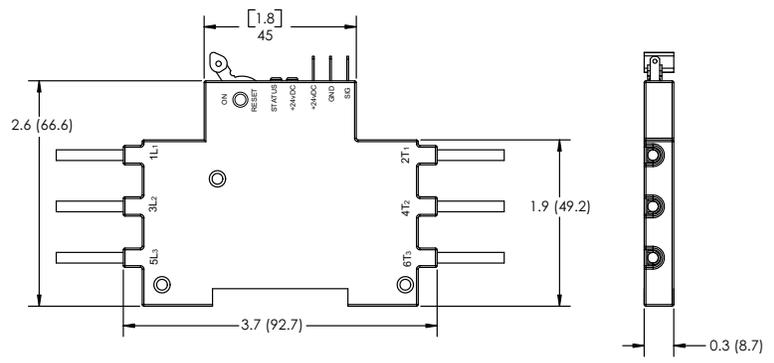
CCP with CUBEFuse®



CCP-AUX



CCP-PLC-IND



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