

# Compact Circuit Protector (CCP)

UL Class CC, Midget and IEC 10x38 fuses



RoHS

The revolutionary Cooper Bussmann CCP is 1/3 the footprint of a molded case 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 a disconnecting means.

## Product Features and Benefits

- Extremely compact design at 17.5mm wide per pole
- High Short-Circuit Current Ratings up to 200kA (UL) and 120kA (IEC)
- Disconnect rated to provide means for load isolation
- Full voltage rated up to 600Vac or 80Vdc
- Class CC version is UL 98 Listed and horsepower rated, and suitable for branch circuit disconnect and branch circuit protection
- IEC 10x38 version complies with IEC 60947-3 and suitable for branch circuit disconnect and branch circuit protection
- Suitable for global installations, the units comply with UL, cULus, and IEC standards accepting UL Class CC, Midget or IEC aM and gG/gL fuses
- 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.
- IP20 finger-safe with 10AWG (6mm<sup>2</sup>) or larger wire
- Built-in switch interlock capability prohibits removing the fuse under load
- Padlockable handle for lockout/tagout procedures
- Available in 1-, 2- and 3-pole versions
- Spade terminals, rated up to 30A, installed on the line side of the disconnect, make it easy to add NEC® 240.21 compliant taps for loads up to 80% of the spade terminal amp rating for devices that need to remain energized when the disconnect is in the OFF position

\*Circuit must be closed with 90Vac/115Vdc minimum 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 16mm<sup>2</sup>) single or dual rated, solid or stranded – 75°C or higher - Cu only
  - 4 AWG (25mm<sup>2</sup>) single – 75°C or higher - Cu only
- Spade Terminal Connection:
  - Max. 30A with insulated flanged spade terminal wire size #12 - #10 AWG for stud size #8
- Torque:
  - 18-10 AWG 20 Lb-In (1-6mm<sup>2</sup>/3.4N•m)
  - 8-4 AWG 35 Lb-In (10-25mm<sup>2</sup>/5.8N•m)
- Lockout/tagout: 4mm shank lock or standard pin-out devices
- 35mm DIN-Rail mount
- Dimensionally compliant to DIN 43880
- Local indication minimum operating voltage:
  - 90Vac for AC version
  - 12Vdc for DC version

## Agency Information:

### UL Class CC fuse version

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

### UL Midget fuse version

- UL 508 Listed
- cULus Certified 22.2 No. 14-05
- CE Compliant

### 10X38 IEC Class aM and gG/gL fuse version

- IEC 60947-3 AC23A
- IEC 60947-3 DC23A
- CE Compliant

## Shipping Weight:

- 2.84 lbs (1.29kg) per carton

## Carton Quantity:

- 12 Poles

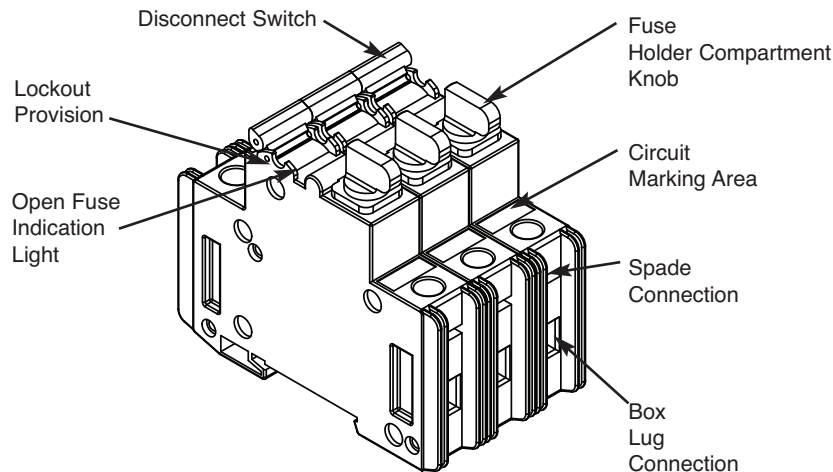
## Environmental Data

- 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 titled Selecting Protective Devices (SPD) reorder #3002.

# 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 Ampacity | SCCR   | Agency Approvals                      | Hp ratings                         |
|----------------|-------|------------|----------------|------------------------|--------------------|--------|---------------------------------------|------------------------------------|
| CCP-1-30CC     | 1     | 30         | 600Vac         | Class CC               | 30A                | 200kA  | UL 98 Listed<br>cULus 22.2 No. 4-04   | 0.5Hp@120V                         |
| CCP-2-30CC     | 2     | 30         | 600Vac         | Class CC               | 30A                | 200kA  | UL 98 Listed<br>cULus 22.2 No. 4-04   | 2.0Hp@240V                         |
| CCP-3-30CC     | 3     | 30         | 600Vac         | Class CC               | 30A                | 200kA  | UL98 Listed<br>cULus 22.2 No. 4-04    | 3Hp@240V<br>5Hp@480V<br>7.5Hp@600V |
| CCP-1-30M      | 1     | 30         | 240Vac* UL     | UL Midget              | 30A                | 10kA*  | UL 508 Listed<br>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<br>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<br>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<br>(DC rated) | 30A                | 20kA*  | UL 98 Listed<br>CSA 22.2 No. 4-04     | —                                  |
| CCP-1-DCM      | 1     | 30         | 80Vdc*         | UL Midget              | 30A                | 10kA*  | UL 508 Listed<br>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    |            |        |
| FNQ-R      | FNQ    |            |        |
|            | BAF    |            |        |

## Recommended IEC Fuse Types

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

# Compact Circuit Protector (CCP)

UL Class CC, Midget and IEC 10x38 fuses

## Motor Sizing Chart

| Voltage           | Motor Size Hp | Motor FLA | Fuse  | Amps |          |             |
|-------------------|---------------|-----------|-------|------|----------|-------------|
|                   |               |           |       | Min  | Code Max | Heavy Start |
| 115 Vac - 1 Phase | 0.167         | 4.4       | LP-CC | 9    | 15       | 15          |
|                   | 0.25          | 5.8       |       | 12   | 20       | 20          |
|                   | 0.33          | 7.2       |       | 15   | 25       | 25          |
|                   | 0.50          | 9.8       |       | 30   | 30       | 30          |
| 230 Vac - 1 Phase | 0.17          | 2.2       | LP-CC | 4.5  | 10       | 10          |
|                   | 0.25          | 2.9       |       | 6    | 10       | 10          |
|                   | 0.33          | 3.6       |       | 7    | 15       | 15          |
|                   | 0.50          | 4.9       |       | 10   | 15       | 15          |
|                   | 0.75          | 6.9       |       | 15   | 25       | 25          |
|                   | 1             | 8         |       | 25   | 25       | 30          |
| 200 Vac - 3 Phase | 0.50          | 2.5       | LP-CC | 5    | 10       | 10          |
|                   | 0.75          | 3.7       |       | 7.5  | 15       | 15          |
|                   | 1             | 4.8       |       | 10   | 15       | 15          |
|                   | 1.5           | 6.9       |       | 15   | 25       | 25          |
|                   | 2             | 7.8       |       | 25   | 25       | 30          |
| 208 Vac - 3 Phase | 0.50          | 2.4       | LP-CC | 5    | 10       | 10          |
|                   | 0.75          | 3.5       |       | 7    | 15       | 15          |
|                   | 1             | 4.6       |       | 10   | 15       | 15          |
|                   | 1.5           | 6.6       |       | 15   | 20       | 25          |
|                   | 2             | 7.5       |       | 15   | 25       | 30          |
| 230 Vac - 3 Phase | 0.50          | 2.2       | LP-CC | 4.5  | 10       | 10          |
|                   | 0.75          | 3.2       |       | 7    | 10       | 12          |
|                   | 1             | 4.2       |       | 9    | 15       | 15          |
|                   | 1.5           | 6         |       | 12   | 20       | 20          |
|                   | 2             | 6.8       |       | 15   | 25       | 25          |
|                   | 3             | 9.6       |       | 30   | 30       | 30          |
| 460 Vac - 3 Phase | 0.50          | 1.1       | LP-CC | 2.25 | 6        | 6           |
|                   | 0.75          | 1.6       |       | 3.2  | 6        | 6.25        |
|                   | 1             | 2.1       |       | 4.5  | 10       | 10          |
|                   | 1.5           | 3         |       | 6    | 10       | 12          |
|                   | 2             | 3.4       |       | 7    | 15       | 15          |
|                   | 3.00          | 4.8       |       | 10   | 15       | 15          |
|                   | 5.00          | 7.6       |       | 25   | 25       | 30          |
| 575 Vac - 3 Phase | 0.50          | 0.9       | LP-CC | 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          |
|                   | 3.00          | 3.9       |       | 8    | 15       | 15          |
|                   | 5.00          | 6.1       |       | 15   | 20       | 20          |
|                   | 7.50          | 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.

# Compact Circuit Protector (CCP)

## CUBEFuse



RoHS

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 Class CF finger-safe time-delay or fast-acting CUBEFuse with Class J electrical 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 for 30A, 60A and 100A versions
- Consult factory for DC ratings
- UL 98 Listed and suitable for branch circuit disconnect and branch circuit protection
- 1-, 2- and 3-pole versions are horsepower rated
- Complies with UL and CSA
- 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
- Additional open fuse indication can be provided by the time-delay CUBEFuse
- IP20 finger-safe construction with 10 AWG (6mm<sup>2</sup>) wire or larger
- Built-in switch interlock capability prohibits removing the fuse under load
- Padlockable handle for lockout/tagout procedures
- Spade terminals, rated up to 30A, installed on the line side of the disconnect, make it easy to add NEC® 240.21 compliant taps for loads up to 80% of the spade terminal amp rating for devices that need to remain energized when the disconnect is in the OFF position

\*See data sheet 9000 for CUBEFuse specifications

\*\*Circuit must be closed with minimum 90Vac/115Vdc for indication light to illuminate

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

### Specifications:

- Box Lug and Spade Terminal suitable for line, load or accessory connection
- Box Lug Connection:
  - 30-60A:
    - 18-6 AWG (1 to 16mm<sup>2</sup>) single or dual rated, solid or stranded – 75°C or higher - Cu only
    - 4 AWG (25mm<sup>2</sup>) single – 75°C or higher - Cu only
  - 100A:
    - 18-1AWG (1-45mm<sup>2</sup>) single or dual rated, solid or stranded – 75°C or higher - Cu only
    - 6AWG (16mm<sup>2</sup>) single – 75°C or higher - Cu only
- Spade Terminal Connection:
  - Max. 30A with insulated flanged spade terminal wire size #12 - #10 AWG for stud size #8
- Torque:
  - 30-60A:
    - 18-10 AWG 20 Lb-In (1-6mm<sup>2</sup>/3.4N•m)
    - 8-4 AWG 35 Lb-In (10-25mm<sup>2</sup>/5.8N•m)
  - 100A:
    - 18-10AWG 25 Lb-In (1-6mm<sup>2</sup>/2.82N•m)
    - 8-1AWG 40 LB-In (10-45mm<sup>2</sup>/4.52N•m)
    - 6AWG 45Lb-In (16mm<sup>2</sup>/5.08N•m)
- Lockout/tagout: 4mm shank lock
- 35mm DIN-Rrail 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:

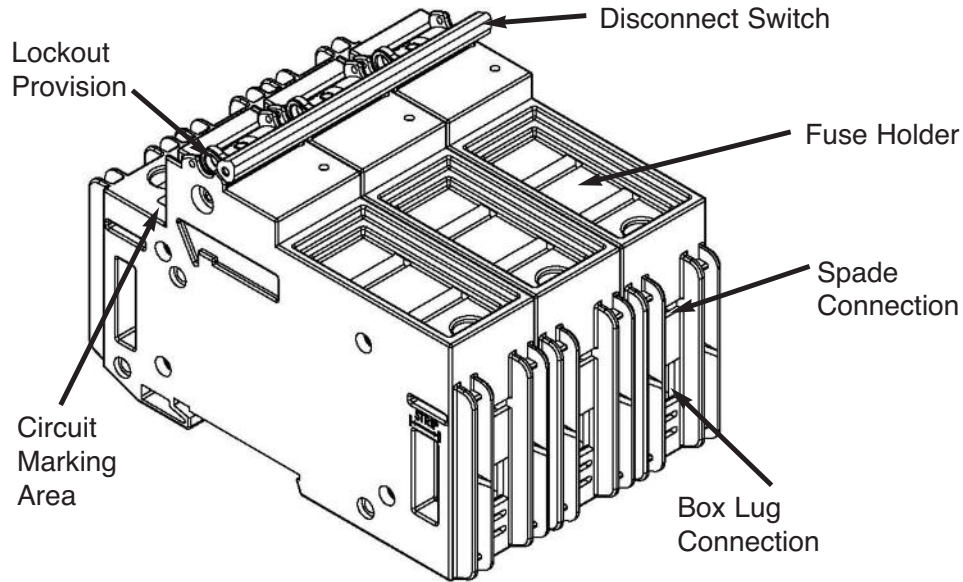
- 6 Poles

### Environmental Data:

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

# Compact Circuit Protector (CCP)

CUBEFuse



## Technical Ratings

| CCP Part Numbers | Poles | Voltage Rating | CUBEFuse™<br>(Class J performance) |                        |                            | Max. Fuse** | SCCR  | Hp Ratings***                        |
|------------------|-------|----------------|------------------------------------|------------------------|----------------------------|-------------|-------|--------------------------------------|
|                  |       |                | Time-Delay Non-Indicating          | Time-Delay Indicating* | Fast-Acting Non-Indicating |             |       |                                      |
| CCP-1-30CF       | 1     | 600Vac         | TCF1RN – TCF30RN                   | TCF6 – TCF30           | FCF1RN – FCF30RN           | 30A         | 200kA | 1.5Hp@120V                           |
| CCP-2-30CF       | 2     |                |                                    |                        |                            |             |       | 3Hp@240V                             |
| CCP-3-30CF       | 3     |                |                                    |                        |                            |             |       | 5Hp@240V<br>15Hp@480V<br>10Hp@600V   |
| CCP-1-60CF       | 1     | 600Vac         | TCF35RN – TCF60RN                  | TCF35 – TCF60          | FCF35RN – FCF60RN          | 60A         | 200kA | 3.0Hp@120V                           |
| CCP-2-60CF       | 2     |                |                                    |                        |                            |             |       | 7.5Hp@240V                           |
| CCP-3-60CF       | 3     |                |                                    |                        |                            |             |       | 7.5Hp@240V<br>20Hp@480V<br>15Hp@600V |
| CCP-1-100CF      | 1     | 600Vac         | TCF70RN – TCF100RN                 | TCF70 – TCF100         | FCF70RN – FCF100RN         | 100A        | 200kA | 5.0Hp@120V                           |
| CCP-2-100CF      | 2     |                |                                    |                        |                            |             |       | 10Hp@240V                            |
| CCP-3-100CF      | 3     |                |                                    |                        |                            |             |       | 20Hp@240V<br>50Hp@480V<br>40Hp@600V  |

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

\*\*Any fuse with an amp rating less than or equal to the max fuse rating may be used. Example: TCF15 maybe used with CCPB-1-20CF.

\*\*\*Do not use UPS/Critical Application fast-acting CF with motors.

# Compact Circuit Protector (CCP)

## CUBEFuse

**CUBEFuse Motor Sizing Table**

| Voltage         | Motor Size (Hp) | Motor* FLA (Amps) | Low-Peak CUBEFuse Time-Delay (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         |
| 5**             | 56              | 90                | 100                                       | 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         |
| 10**            | 50              | 80                | 90  | 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          |
|                 | 20**            | 62.1              | 100                                       | N/A      | N/A         |
| 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          |
| 20**            | 59.4            | 90                | N/A                                       | N/A      |             |

| Voltage         | Motor Size (Hp) | Motor <sup>1</sup> FLA (Amps) | Low-Peak CUBEFuse Time-Delay (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          |
|                 | 20**            | 54                            | 90  | 100      | N/A         |
| 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          |
| 50**            | 65              | 100                           | N/A                                       | N/A      |             |
| 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          |
|                 | 40**            | 41                            | 70  | 80       | 80          |

**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 100 Amp device at specified voltage.

# Compact Circuit Protector (CCP) Accessories

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

## Recommended Lockout Devices

| CCP Version                 | Bradly Pin-Out P/N | Ideal P/N | Generic Brand  |
|-----------------------------|--------------------|-----------|----------------|
| Class CC, Midget, IEC 10x38 | 90844              | 44-779    | N/A            |
| CUBEFuse                    | N/A                | N/A       | 4mm Shank Lock |

## 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 up to 60A        | 1 per CCP     | 5A/240Vac     | –                       | UL 98 Recognized and cURus 22.2 No. 4-04, IEC 60947-5-1 AC15 |
| CCP-PLC-IND*   | Wired Remote Fuse Indication for PLC Applications up to 60A | 1 per CCP     | 24Vdc         | 100Vac                  | UL 98 Recognized and cURus 22.2 No. 4-04                     |
| CCPHM-RXX**    | Rotary Handle Mechanism                                     | 3-Pole CCP    | –             | –                       | UL 98 Recognized   |
| CCPHM-FXX**    | Flex Shaft Handle Mechanism                                 | 3-Pole CCP    | –             | –                       | UL 98 Recognized   |

\*Cannot be used with rotary or flange handle mechanism. (CLPHM-XX)

\*\*Refer to Product Profile #3178.



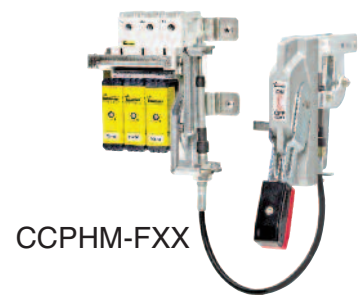
CCP-AUX



CCP-PLC-IND  
(Includes spade terminals)



CCPHM-RXX



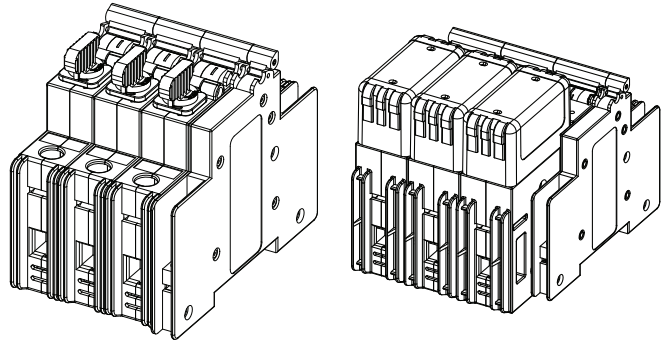
CCPHM-FXX

# Auxiliary Contact

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



RoHS



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 Ampacity: 5A
- Rated Voltage: 240Vac
- NC/NO contacts are closed/open when the CCP switch is in the "ON" position (closed)
- Flammability Rating: UL 94V0
- For use with up to and including 100A CCP

### 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 2.5mm<sup>2</sup>) 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. Cannot be used with rotary or flange handle mechanism.

## IP20 Rating: Yes

## Environmental Data:

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

## Catalog Numbers:

- 1-60A: CCP-AUX
- 70-100A: CCP-AUX-100

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



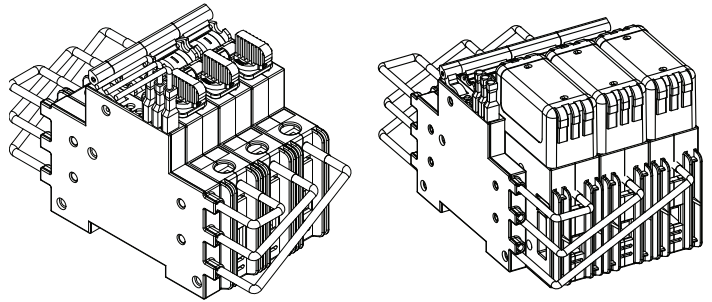
# Remote Fuse Monitoring Accessory

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



RoHS

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



## Description

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

### Specifications:

- **Power Input:** 24Vdc, 8A
- **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). Open fuse LED is resettable upon the replacement of the fuse and the actuation of the reset switch
- **Flammability Rating:** UL 94V0
- For use with up to and including 100A CCP

### Wiring:

- For power, signal and ground connections use 22-24AWG (0.25mm<sup>2</sup>) 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. Cannot be used with rotary or flange handle mechanism.

### 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. 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.

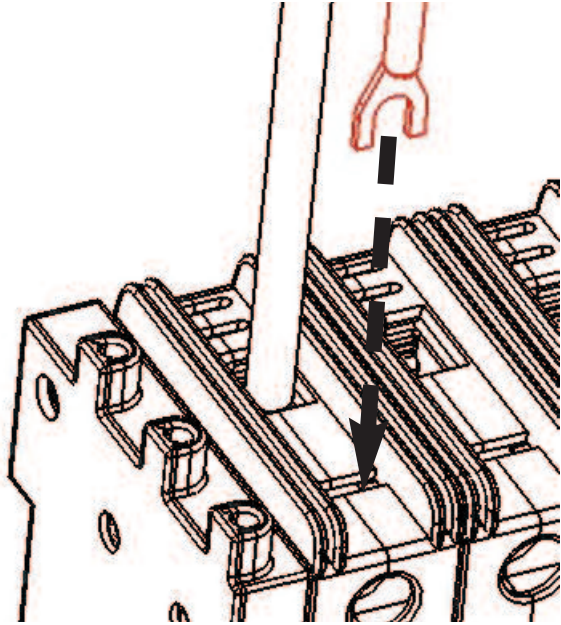
### Catalog Numbers:

- 1-60A: CCP-PLC-IND
- 70-100A: CCP-PLC-100

**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

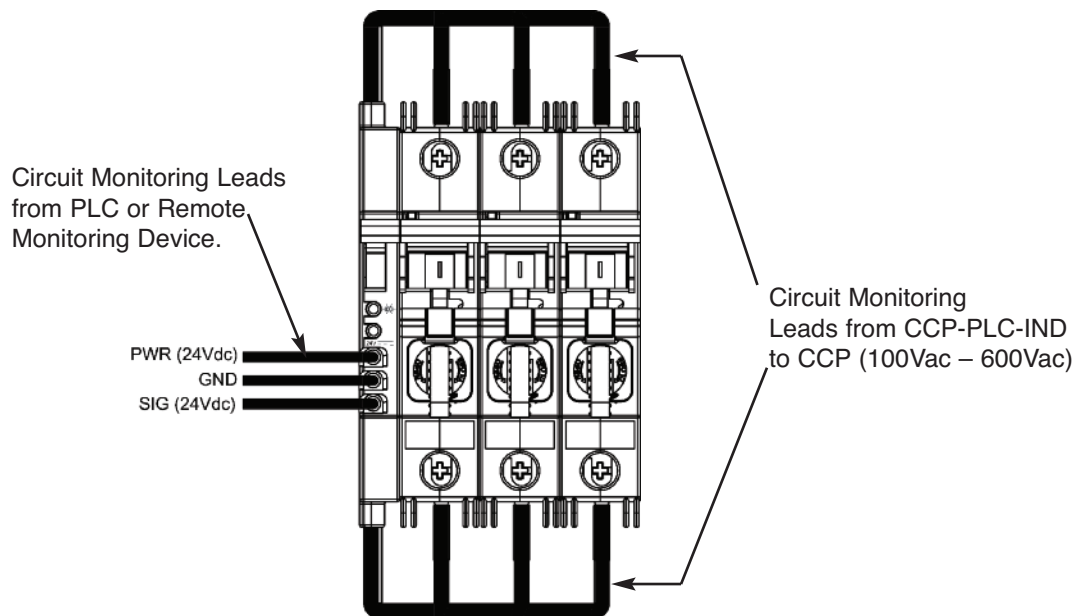
UL Class CC, Midget and IEC 10x38 fuses, and CUBEFuse



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)

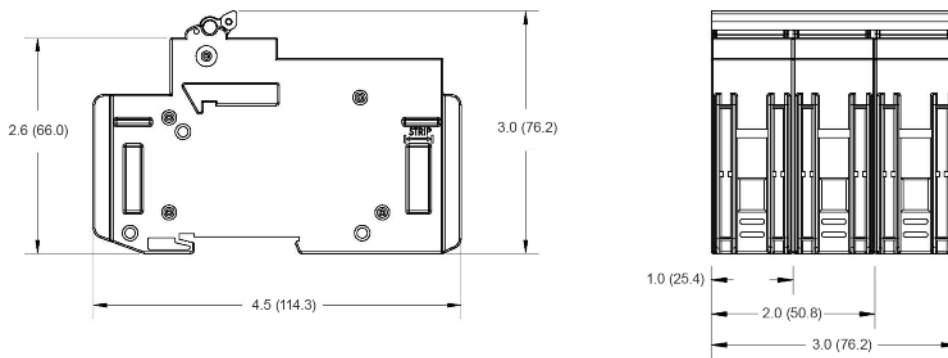
UL Class CC, Midget and IEC 10x38 fuses, and CUBEFuse

## Dimensions - in (mm)

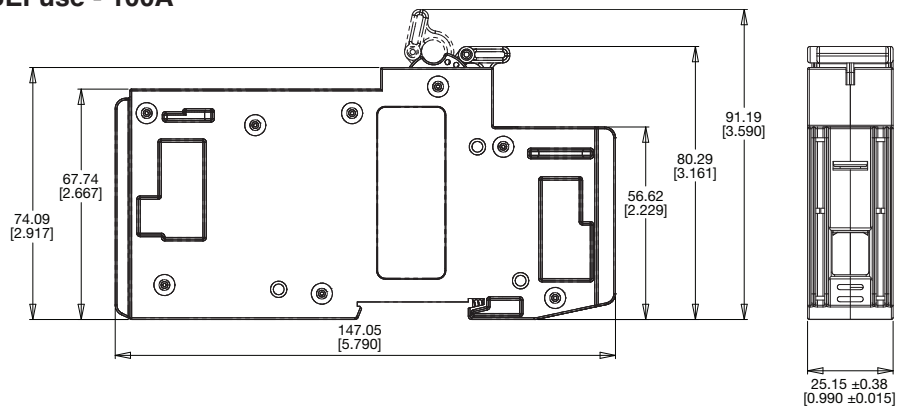
CCP for Class CC, Midget and IEC 10x38



## CCP with CUBEFuse - 30 – 60A



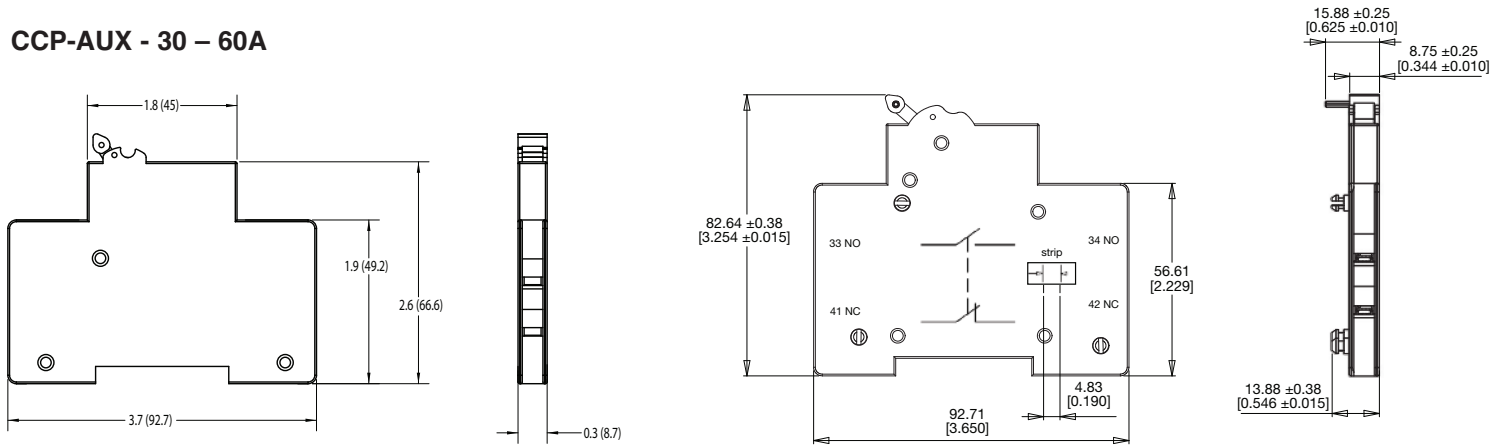
## CCP with CUBEFuse - 100A



# Compact Circuit Protector (CCP)

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

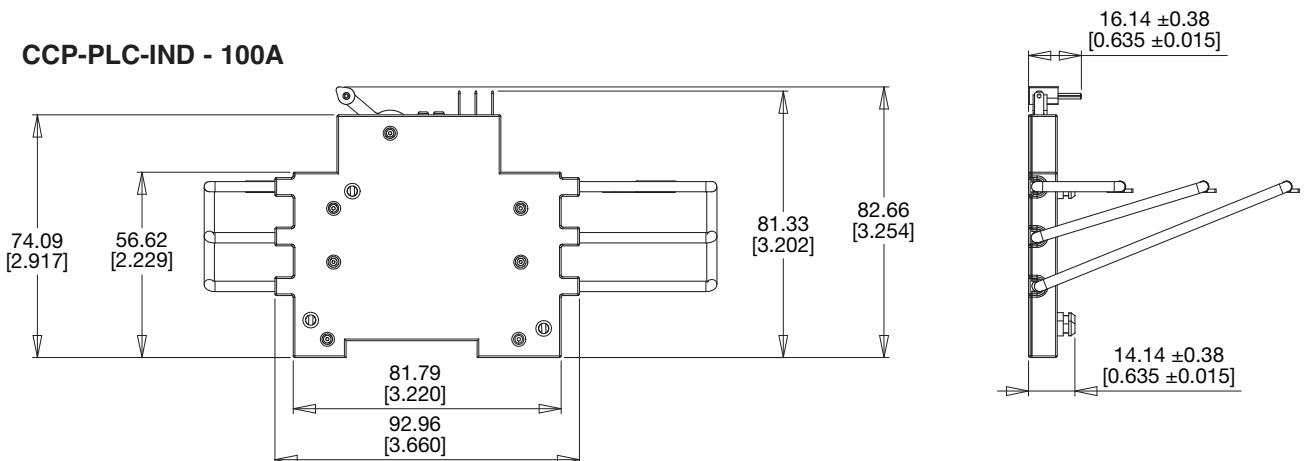
## CCP-AUX - 30 – 60A



## CCP-PLC-IND - 30 – 60A



## CCP-PLC-IND - 100A



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.

