

# CUBEFuse Compact Circuit Protector Base (CCPB)

For Quik-Spec™ Coordination Panelboards



**RoHS**

The revolutionary Cooper Bussmann CCPB with CUBEFuse is designed as a fused branch circuit disconnect with fuse holder for the Cooper Bussmann Quik-Spec™ Coordination Panelboard. The CCPB with CUBEFuse simplifies selective coordination and allows for isolation of individual branch circuit loads for safe work practices.

## Product Features and Benefits

- Uses finger-safe Class CF Low-Peak CUBEFuse with current-limiting, time-delay or fast-acting Class J performance\*
- High Short-Circuit Current Ratings at 200kA
- Disconnect rated to provide means for load isolation
- Full voltage rated at 600Vac
- 125Vdc rated for 80A and below
- UL 98 Listed and suitable for branch circuit disconnect and branch circuit protection
- 1-, 2- and 3-pole versions are horsepower rated
- Patented rejection feature helps prevent overfusing
- Complies with UL and cULus
- Open fuse indication light per pole
- Additional open fuse indication can be provided by using the time-delay indicating CUBEFuse version
- Built-in switch/fuse interlock prohibits removing the fuse while energized
- Permanent lockout/tagout provisions
- Lock-On provision

\*See data sheet 9000 for CUBEFuse specifications.

\*\*For fuse performance under or above 25°C, consult fuse performance derating charts.

## Specifications:

- CCPB Ampacity rejection breaks: 15A, 20A, 30A, 40A, 50A, 60A, 70A, 90A and 100A.
- 1-, 2- and 3-Pole versions
- For systems 600Vac (or less)
- Box lug loadside terminal:

15 - 60A:

- 18-6AWG (1-16mm<sup>2</sup>) single & dual rated, solid or stranded – 75°C, Cu only
- 4AWG (21.1mm<sup>2</sup>) single – 75°C, 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

- Box lug loadside terminal torque:

15-60A:

- 18-10AWG 20 Lb-In (1-6mm<sup>2</sup>/2.2N•m)
- 8-4AWG 35 Lb-In (10-21.1mm<sup>2</sup>/3.9N•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)

- Spade terminal load connection:  
Max. 30A suitable for use with #8-32UNC screw
- Bolt-on style bus connector, #10-32-UNC Hex flange Phillips screw, torque to 25 Lb-In (2.8N•m)
- Lockout/tagout: 4mm shank lock
- Bolt-mounted design into Quik-Spec Coordination Panelboard bus
- Local indication: illumination requires closed circuit and minimum 90Vac operating voltage
- RoHS compliant

## Agency Information:

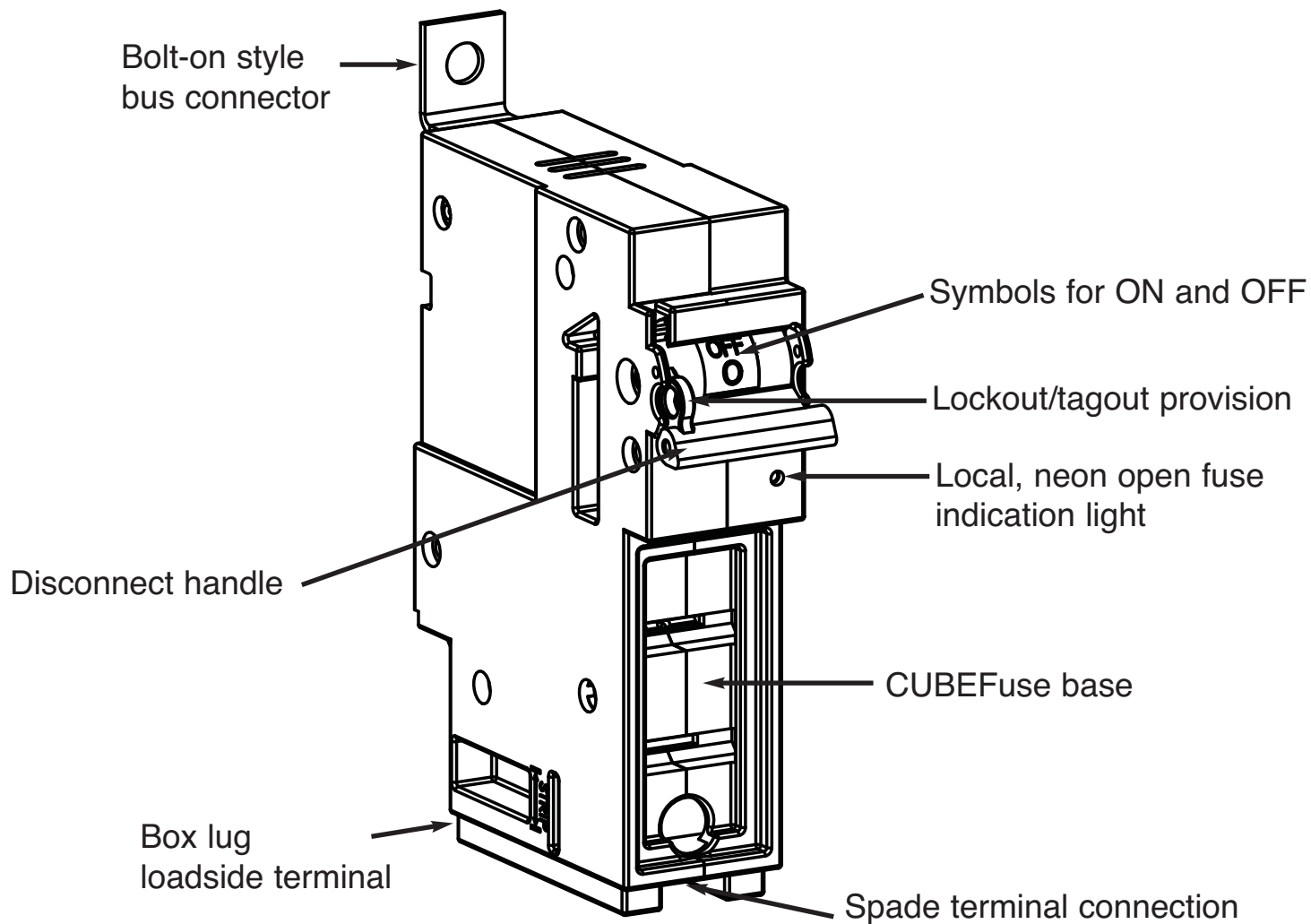
UL 98 Listed, File E302370, Guide WHTY  
cULus to CSA Standard 22.2 No. 4, File E302370,  
Guide WHTY7  
CE Compliant

**Shipping Weight:** 2.03 lbs per carton

**Carton quantity:** 6 poles

## Environmental Data

Storage and operating temperature: -20°C to 75°C\*\*



## Technical Ratings

| CCPB Part Numbers | Poles | Voltage Rating | CUBEFuse<br>(Class J performance)           |                           |                                             | Max. Fuse**<br>Ampacity | SCCR  | Hp Ratings***                        |
|-------------------|-------|----------------|---------------------------------------------|---------------------------|---------------------------------------------|-------------------------|-------|--------------------------------------|
|                   |       |                | Time-Delay<br>Non-Indicating                | Time-Delay<br>Indicating* | Fast-Acting<br>Non-Indicating               |                         |       |                                      |
| CCPB-1-15CF       | 1     | 600Vac         | TCF1RN, TCF3RN, TCF6RN,<br>TCF10RN, TCF15RN | TCF6, TCF10,<br>TCF15     | FCF1RN, FCF3RN, FCF6RN,<br>FCF10RN, FCF15RN | 15A                     | 200kA | 0.5Hp@120V                           |
| CCPB-2-15CF       | 2     |                |                                             |                           |                                             |                         |       | 1.5Hp@240V                           |
| CCPB-3-15CF       | 3     |                |                                             |                           |                                             |                         |       | 3Hp@240V<br>5Hp@480V<br>7.5Hp@600V   |
| CCPB-1-20CF       | 1     | 600Vac         | TCF17-1/2RN, TCF20RN                        | TCF17-1/2, TCF20          | FCF20RN                                     | 20A                     | 200kA | 0.75Hp@120V                          |
| CCPB-2-20CF       | 2     |                |                                             |                           |                                             |                         |       | 2Hp@240V                             |
| CCPB-3-20CF       | 3     |                |                                             |                           |                                             |                         |       | 3Hp@240V<br>7.5Hp@480V<br>10Hp@600V  |
| CCPB-1-30CF       | 1     | 600Vac         | TCF25RN, TCF30RN                            | TCF25, TCF30              | FCF25RN, FCF30RN                            | 30A                     | 200kA | 1.5Hp@120V                           |
| CCPB-2-30CF       | 2     |                |                                             |                           |                                             |                         |       | 3Hp@240V                             |
| CCPB-3-30CF       | 3     |                |                                             |                           |                                             |                         |       | 5Hp@240V<br>15Hp@480V<br>10Hp@600V   |
| CCPB-1-40CF       | 1     | 600Vac         | TCF35RN, TCF40RN                            | TCF35, TCF40              | FCF35RN, FCF40RN                            | 40A                     | 200kA | 2.0Hp@120V                           |
| CCPB-2-40CF       | 2     |                |                                             |                           |                                             |                         |       | 3Hp@240V                             |
| CCPB-3-40CF       | 3     |                |                                             |                           |                                             |                         |       | 7.5Hp@240V<br>20Hp@480V<br>10Hp@600V |
| CCPB-1-50CF       | 1     | 600Vac         | TCF45RN, TCF50RN                            | TCF45, TCF50              | FCF45RN, FCF50RN                            | 50A                     | 200kA | 3.0Hp@120V                           |
| CCPB-2-50CF       | 2     |                |                                             |                           |                                             |                         |       | 5Hp@240V                             |
| CCPB-3-50CF       | 3     |                |                                             |                           |                                             |                         |       | 7.5Hp@240V<br>20Hp@480V<br>10Hp@600V |
| CCPB-1-60CF       | 1     | 600Vac         | TCF60RN                                     | TCF60                     | FCF60RN                                     | 60A                     | 200kA | 3.0Hp@120V                           |
| CCPB-2-60CF       | 2     |                |                                             |                           |                                             |                         |       | 7.5Hp@240V                           |
| CCPB-3-60CF       | 3     |                |                                             |                           |                                             |                         |       | 7.5Hp@240V<br>20Hp@480V<br>10Hp@600V |
| CCPB-1-70CF       | 1     | 600Vac         | TCF70RN                                     | TCF70                     | FCF70RN                                     | 70A                     | 200kA | 3.0Hp@120V                           |
| CCPB-2-70CF       | 2     |                |                                             |                           |                                             |                         |       | 7.5Hp@240V                           |
| CCPB-3-70CF       | 3     |                |                                             |                           |                                             |                         |       | 15Hp@240V<br>30Hp@480V               |
| CCPB-1-90CF       | 1     | 600Vac         | TCF90RN                                     | TCF90                     | FCF80RN, FCF90RN                            | 90A                     | 200kA | 5.0Hp@120V                           |
| CCPB-2-90CF       | 2     |                |                                             |                           |                                             |                         |       | 10Hp@240V                            |
| CCPB-3-90CF       | 3     |                |                                             |                           |                                             |                         |       | 20Hp@240V<br>40Hp@480V               |
| CCPB-1-100CF      | 1     | 600Vac         | TCF100RN                                    | TCF100                    | FCF100RN                                    | 100A                    | 200kA | 5.0Hp@120V                           |
| CCPB-2-100CF      | 2     |                |                                             |                           |                                             |                         |       | 10Hp@240V                            |
| CCPB-3-100CF      | 3     |                |                                             |                           |                                             |                         |       | 20Hp@240V<br>50Hp@480V               |

\*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 may be used with CCPB-1-20CF.

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

## 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         |
|                 | 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         |
|                 | 20**            | 62.1              | 100                            | 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          |
|                 | 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         |

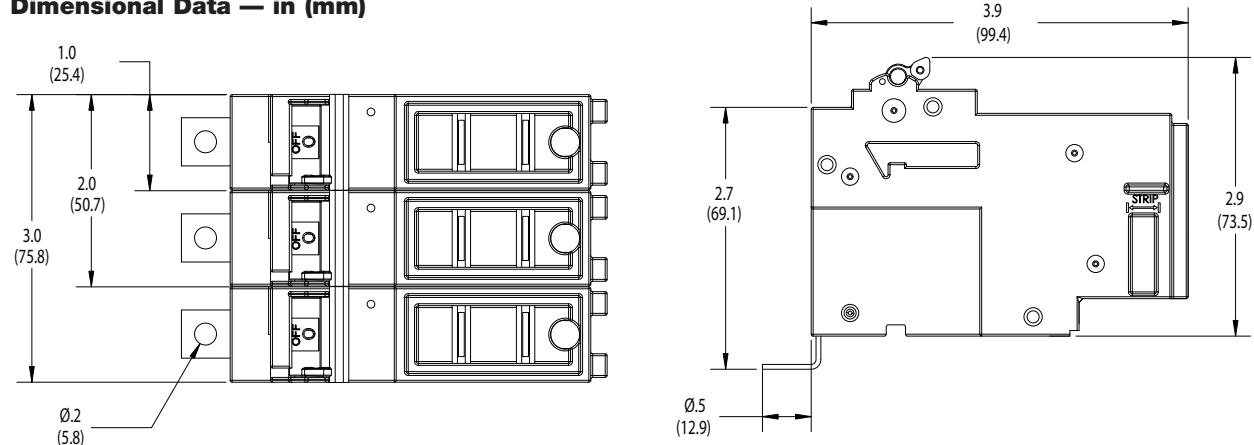
| Voltage         | Motor Size (Hp) | Motor* FLA (Amps) | Low-Peak CUBEFuse (Amp Rating) |          |             |
|-----------------|-----------------|-------------------|--------------------------------|----------|-------------|
|                 |                 |                   | Optimal Protection             | 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          |
|                 | 20**            | 54                | 90                             | 100      | N/A         |
|                 | 50**            | 65                | 100                            | N/A      | 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         |
|                 | 100**           | 130               | 200                            | 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          |
|                 | 50**            | 52                | 80                             | 100      | N/A         |

**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.

### Dimensional Data — in (mm)



For details on the CCPB and its use in the Quik-Spec™ Coordination Panelboard, see data sheet 1160.

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