

# Type C LOADBREAK Cutout with Arc Chute type interrupter

• 15 kv • 15/27 kv • 20/34.5 kv

## Application

The Type C Loadbreak Cutout is available for application on 15, 25 and 35 kV distribution systems. The addition of the arc chute expands the flexibility of the Chance protective devices family by providing loadbreak capability for cutouts and disconnect solid blade units. The loadbreak cutout provides short circuit protection to utility lines with the added feature of a loadbreaking function.

The loadbreak cutout is applicable for transformer and capacitor bank switching or line sectionalizing. Loadbreak cutouts provide protection from overloads that just melt the fuselink through the maximum interrupt capacity of the fuseholder. They also provide loadbreak capability through 300 amperes.

## Design

All design features and most components of the loadbreak unit are identical to those incorporated in the Type C standard cutout. The loadbreak portion of the Type C Loadbreak cutout is a heavy duty, reliable load interrupter that provides a positive visible loadbreak. A common loadbreak mounting assembly will accept the Chance Type C 100 amp and 200 amp loadbreak fuseholders or a 300 amp loadbreak disconnect blade. The Type C LOADBREAK fuseholder is not designed to be interchangeable with any other manufacturer's cutout.

## Ratings/Specifications

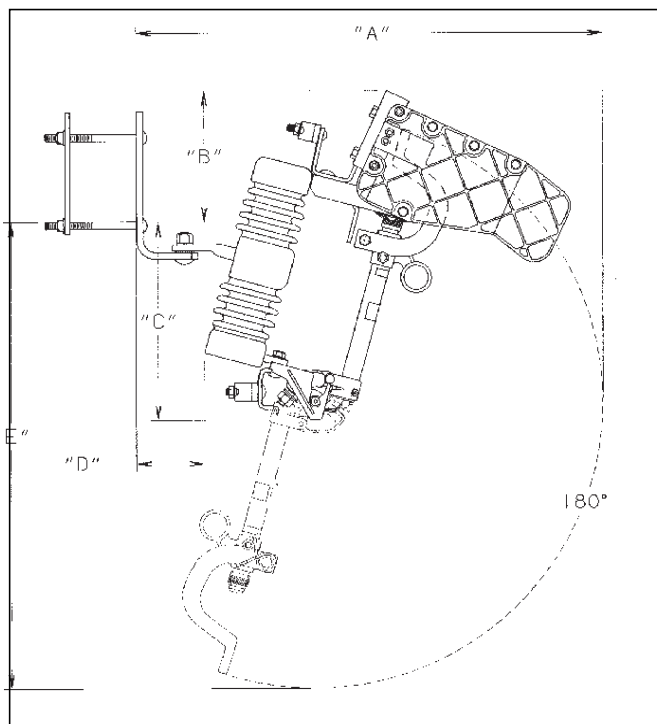
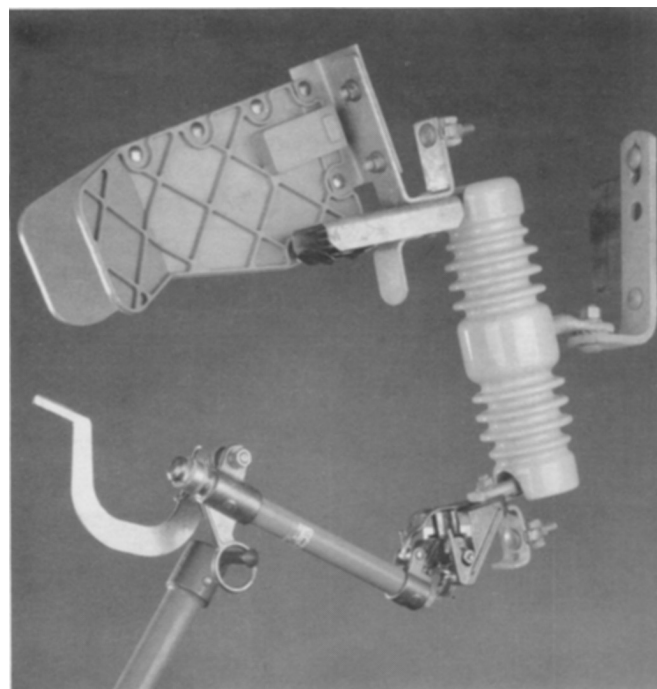
The 15kV Type C loadbreak cutout has a maximum design voltage rating of 15kV. There are no voltage restrictions on application to grounded wye, ungrounded wye, or delta systems having maximum operating voltages (line to line) equal to or less than the cutout maximum design voltage rating.

The 15/27 and 20/34.5 kV Type C loadbreak cutouts have maximum design slant voltage ratings. These cutouts are to be used on systems which have phase-to-ground voltages no greater than the value listed to the left of the slant (/) and which have phase-to-phase voltages no greater than the value listed to the right of the slant.

Fuseholders and mounting assemblies from other manufacturers' loadbreak cutouts are not interchangeable with Chance loadbreak cutouts. Likewise, Chance fuseholders and mountings are not interchangeable with other manufacturers' loadbreak cutouts.

## Operation

The self-contained loadbreak device enables the lineman to interrupt load current by means of a simple hookstick operation. To break the current, the lineman inserts a hookstick into the operating ring and rapidly opens the device. Upon opening, a spring-loaded stainless steel blade mechanism snaps out through a gray arc chute and elongates, cools and extinguishes the confined arc. The loadbreaking operation is independent of the operating speed of the lineman. The fuse remains undamaged. No special or portable tools are required to operate the unit. In the open position, the fuseholder or blade hangs in an approximate vertical position for the visible-break.



## Dimensions

| kV LIW (BIL) | A  | B   | C  | D  | E  |
|--------------|--|---|--|--|--|
| 110          | 25 <sup>1</sup> / <sub>4</sub> "<br>642 mm | 6 <sup>7</sup> / <sub>8</sub> "<br>175 mm | 10 <sup>3</sup> / <sub>4</sub> "<br>273 mm | 3 <sup>1</sup> / <sub>2</sub> "<br>89 mm | 25 <sup>5</sup> / <sub>8</sub> "<br>651 mm |
| 125          | 28 <sup>1</sup> / <sub>4</sub> "<br>719 mm | 8 <sup>5</sup> / <sub>8</sub> "<br>219 mm | 12 <sup>1</sup> / <sub>2</sub> "<br>318 mm | 3 <sup>1</sup> / <sub>8</sub> "<br>79 mm | 30 <sup>7</sup> / <sub>8</sub> "<br>784 mm |
| 150          | 28 <sup>1</sup> / <sub>4</sub> "<br>719 mm | 8 <sup>5</sup> / <sub>8</sub> "<br>219 mm | 12 <sup>1</sup> / <sub>2</sub> "<br>318 mm | 3 <sup>1</sup> / <sub>8</sub> "<br>79 mm | 30 <sup>7</sup> / <sub>8</sub> "<br>784 mm |

# Type C LOADBREAK Cutout with Arc Chute Interrrupter

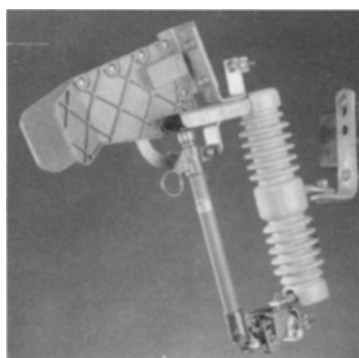
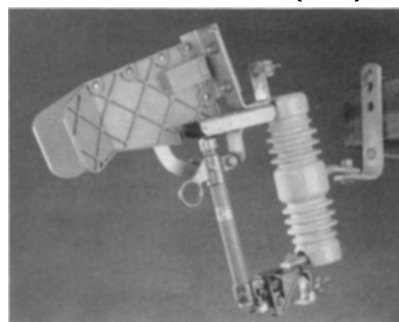
## Specifications and Ordering Information

15 kV - 110 kV LIW (BIL) — RUS Listed

See page 10A-14 for Arrester Cutout Combinations  
See page 10A-15 for Accessories.  
See page 10A-16 for Complete Catalog Numbering

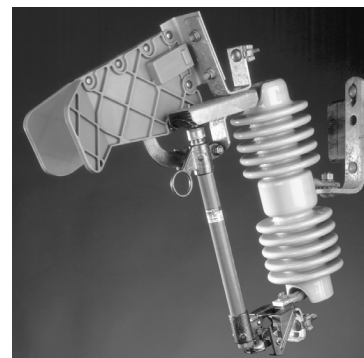
| *Base Catalog No. | *Option suffixes below | Maximum Design Voltage | Nominal System Voltage | Continuous & Loadbreak Current (Amps) | Number of Operations | Interrupt Capacity (Asym Amps) | Leakage to Ground Metal to Metal (minimum) | *Weight (lb./kg.) | Replacement Fusetube Cap/ Cap Assembly | Arc Short-ening Rod |
|-------------------|------------------------|------------------------|------------------------|---------------------------------------|----------------------|--------------------------------|--|-------------------|--|---------------------|
| C730112           | 1 2 3                  | 15 kV                  | Thru 14.4 kV           | 100                                   | 200                  | 10,000                         | 8.7" 220 mm                                | 19.33/8.77        | P7001535P                              | No                  |
| C730114           | 1 2 3                  | 15 kV                  | Thru 14.4 kV           | 100                                   | 200                  | 16,000                         | 8.7" 220 mm                                | 19.53/8.86        | E7001767P                              | Yes <sup>‡</sup>    |
| C730143           | 1 2 3                  | 15 kV                  | Thru 14.4 kV           | 200                                   | 200                  | 12,000                         | 8.7" 220 mm                                | 20.13/9.13        | E7002146P                              | Yes <sup>‡</sup>    |
| C730133           | 1 2 3                  | 15 kV                  | Thru 14.4 kV           | 300                                   | 50                   | 12,000**                       | 8.7" 220 mm                                | 19.63/8.90        | P7001535P                              | N/A                 |

### 15 kV, 110 kV LIW (BIL)



### 15/27 kV, 125 kV LIW (BIL)

### 20/34.5 kV, 150 kV LIW (BIL)



### 15/27 kV -125 kV LIW (BIL) — RUS Listed

|         |       |          |  |     |     |         |              |              |            |     |
|---------|-------|----------|--|-----|-----|---------|--------------|--------------|------------|-----|
| C730211 | 1 2 3 | 15/27 kV | No Restrictions thru 14.4 kV; †20.8 thru 24.9 kV | 100 | 200 | 8,000   | 12.6" 320 mm | 21.93 / 9.95 | P7001535P  | No  |
| C730213 | 1 2 3 | 15/27 kV |  | 100 | 200 | 12,000  | 12.6" 320 mm | 22.13/10.04  | E7001768P  | Yes |
| C730242 | 1 2 3 | 15/27 kV |  | 200 | 200 | 10,000  | 12.6" 320 mm | 22.83/10.36  | E7002479P  | Yes |
| C730243 | 1 2 3 | 15/27 kV |  | 200 | 200 | 12,000  | 12.6" 320 mm | 22.83/10.36  | PSE7002706 | Yes |
| C730233 | 1 2 3 | 15/27 kV |  | 300 | 50  | 12,000* | 12.6" 320 mm | 22.33/10.13  | P7001535P  | N/A |

### 20/34.5 kV -150 kV LIW (BIL) — RUS Listed

|         |       |            |  |     |     |         |              |             |           |     |
|---------|-------|------------|--|-----|-----|---------|--------------|-------------|-----------|-----|
| C730311 | 1 2 3 | 20/34.5 kV | No Restrictions thru 14.4 kV; †20.8 thru 34.5 kV | 100 | 100 | 8,000   | 17.3" 440 mm | 27.73/12.58 | P7001535P | No  |
| C730313 | 1 2 3 | 20/34.5 kV |  | 100 | 100 | 12,000* | 17.3" 440 mm | 27.93/12.67 | E7001768P | Yes |

\*\*Momentary rating — Solid blade

†Must use removable buttonhead fuse links. \*Adjust total weight when selecting Options below.

‡For application on single-phase to neutral circuits with phase-to-ground voltages not exceeding the value to the left of the slant; and for application on three-phase solidly-grounded-wye systems with solidly-grounded loads with line-to-line voltages not exceeding the value to the right of the slant.

#### \*Option Suffix 1 Terminal Variations

| Suffix 1 | Description                | *Weight (lb./kg.) |
|----------|----------------------------|-------------------|
| P        | Parallel-groove clamps     | 0.33/0.15         |
| E        | Small eyebolts             | 0.16 / 0.07       |
| L        | Large eyebolts             | 0.31/0.14         |
| R        | Lower PG Clamp Rotated 90° | 0.33/0.15         |

Must specify one selection for Option 1.

#### \*Option Suffix 2 Bracket Variations

| Suffix 2 | Description   | *Weight (lb./kg.) |
|----------|---|-------------------|
| B        | NEMA Heavy Duty "B" bracket for crossarm (1½" bolt)                                       | 2.84/1.29         |
| X        | Extended type bracket for crossarm (Horizontal section is 2⅝" longer than Type B bracket) | 3.75/1.70         |
| D        | D-shape bracket (pole)  | 7.67/3.48         |
| Z        | No bracket (must be used with M in Option 3)  | —                 |
| Blank    | No bracket (cannot use with M in Option 3)  | —                 |
| V        | Easy-On bracket (Height: 4⅞" to 5⅜", Width: 2¼" to 4")                                    | 2.9/1.32          |

#### \*Option Suffix 3 Mechanical Assist Fuseholder

| Suffix 3 | Description  |
|----------|--|
| Blank    | No option (may <u>not</u> be used with Z in Option 2)                        |
| M        | Mechanical Assist Fuseholder (may <u>not</u> be used with Blank in Option 2) |
| F        | Fargo cutout cover (may <u>not</u> be used with Blank in Option 2)           |
| S        | Anti-corrosion stainless steel/copper alloy cutout                           |



# Type C

## LOADBREAK Cutout

### Fuseholders and Mounting Assemblies

#### 15 kV - 110 kV LIW (BIL)

| Cutout Base Catalog Number | Fuseholder/ Blade Catalog Number | Fuse Holder/ Blade Weight |         | Mounting Assembly Base Catalog Number | Mounting Assembly Weight |         |
|----------------------------|----------------------------------|---------------------------|---------|---------------------------------------|--------------------------|---------|
| C730112                    | T730112T                         | 3.3 lb.                   | 1.5 kg. | T7301MM                               | 18.6 lb.                 | 8.4 kg. |
| C730114                    | T730114T                         | 3.5 lb.                   | 1.6 kg. |                                       |                          |         |
| C730143                    | T730143T                         | 4.1 lb.                   | 1.9 kg. |                                       |                          |         |
| C730133                    | T730133T                         | 3.6 lb.                   | 1.6 kg. |                                       |                          |         |

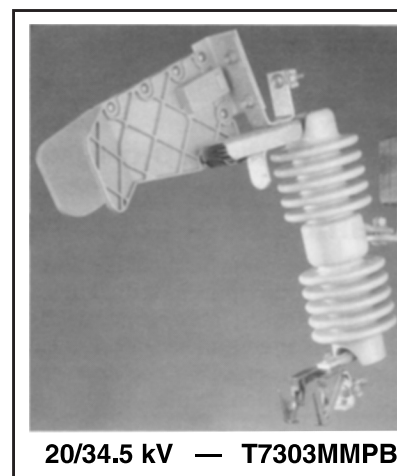
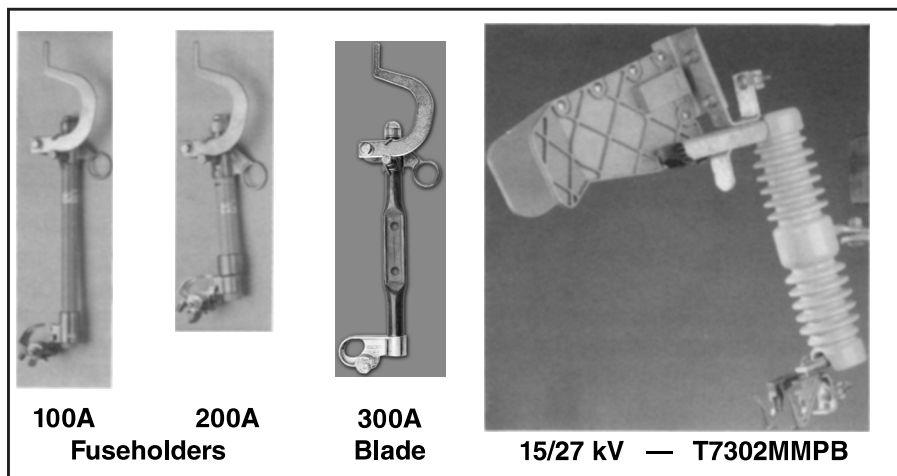
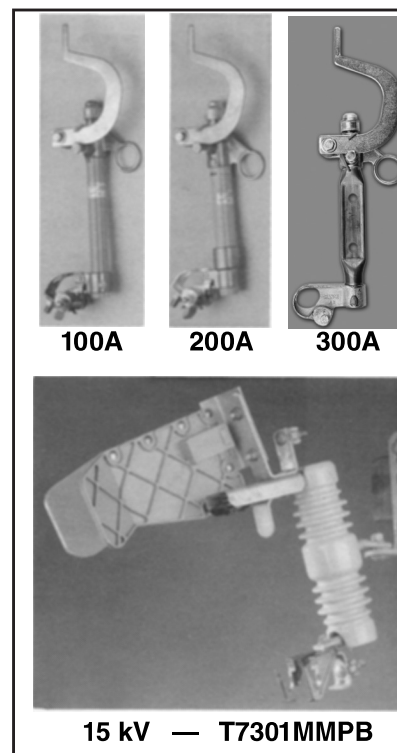
#### 15/27 kV - 125 kV LIW (BIL)

|         |          |         |         |         |         |        |
|---------|----------|---------|---------|---------|---------|--------|
| C730211 | T730211T | 3.6 lb. | 1.6 kg. | T7302MM | 20.8 lb | 9.4 kg |
| C730213 | T730213T | 3.8 lb. | 1.7 kg. |         |         |        |
| C730242 | T730242T | 4.4 lb. | 2.0 kg. |         |         |        |
| C730243 | T730243T | 4.4 lb. | 2.0 kg. |         |         |        |
| C730233 | T730342T | 4.0 lb. | 1.8 kg. |         |         |        |

#### 20/34.5 kV - 150 kV LIW (BIL)

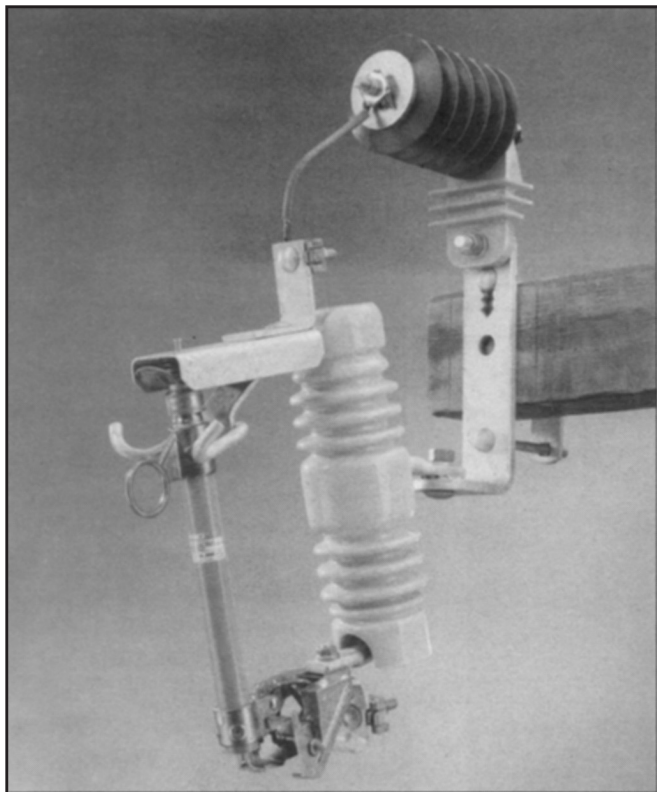
|         |          |         |         |         |         |         |
|---------|----------|---------|---------|---------|---------|---------|
| C730311 | T730311T | 3.6 lb. | 1.6 kg. | T7303MM | 26.6 lb | 12.1 kg |
| C730313 | T730313T | 3.8 lb. | 1.7 kg. |         |         |         |

Replacement Arc Chute Interrupter: Catalog No. T7300080 (1.2 lb. / 0.54 kg.)

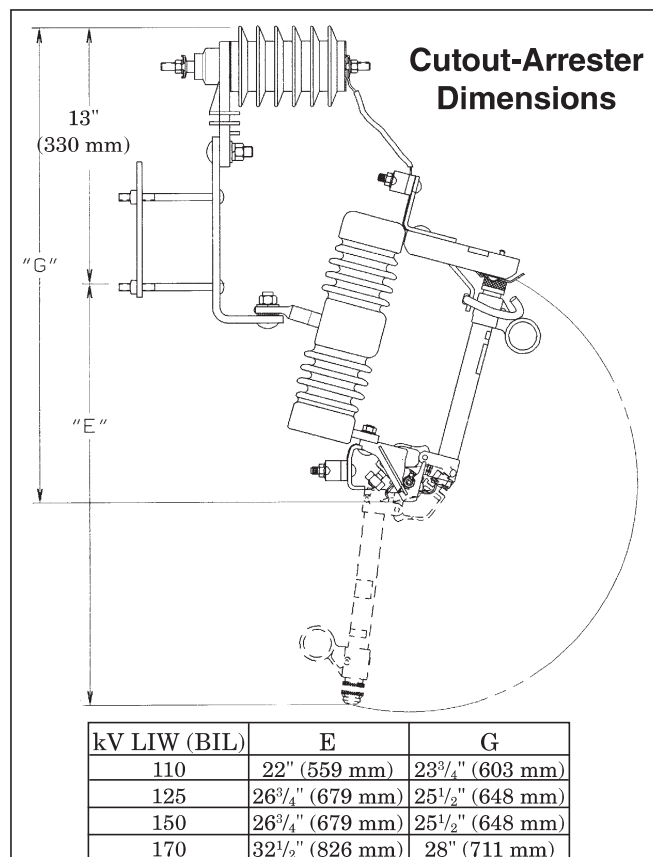


# Type C Cutout-Arrester Combinations

## Over-the-Arm Type only



15 kV cutout with direct-connected Ohio Brass large-block, MOV, polymer 9 kV lightning arrester



## Advantages of combination

Chance cutout-arrester combinations cost less than the total cost of separately purchased components. The combination units install faster, more economically and take up less space in storage, transit and service. Each combined unit takes up a minimum of space on the crossarm and has a favorable weight distribution for minimal off-center loading. The field-proven quality of both cutout and arrester assure consistent

high performance for the combinations.

These units include Chance cutouts fitted with **only** Ohio Brass<sup>®</sup> MOV arresters, superseding previous silicon-carbide units. For easy conversion to the new arrester designation system, refer to the Cutout Cross-Reference Guide, Bulletin 10-0203.

| — Arrester Manufacturer |                                    | — MCOV Duty Cycle<br>kV Rating |    | Metal Oxide Varistor (MOV) |    |           |    | — Operating Design        |  |
|-------------------------|------------------------------------|--------------------------------|----|----------------------------|----|-----------|----|---------------------------|--|
|                         |                                    | — Arrester Connection Method   |    | Polymer                    |    |           |    | — Housing                 |  |
|                         |                                    |                                |    | 110                        |    | 125 & 150 |    | — kV LIW (BIL) for Cutout |  |
|                         |                                    |                                |    | 9                          | 10 | 18        | 27 | — kV Rating               |  |
| Ohio Brass              | Small Block<br>Normal Duty<br>5 kA | Direct                         | DL | DM                         | DN | DP        |    |                           |  |
|                         | Large Block<br>Heavy Duty<br>10 kA | Direct                         | EL | EM                         | EN | EP        |    |                           |  |
|                         | Riser Pole                         | Direct                         | FL | FM                         | FN | FP        |    |                           |  |

## Ordering Information

To specify a Cutout-Arrester Combination:

1. Select a two-letter designation for the appropriate arrester from the shaded section of the Table at left.
2. Substitute the two letters for the "0" in the Base Catalog No. for the appropriate Cutout listed on page 6, 10 or 12.





## Accessories

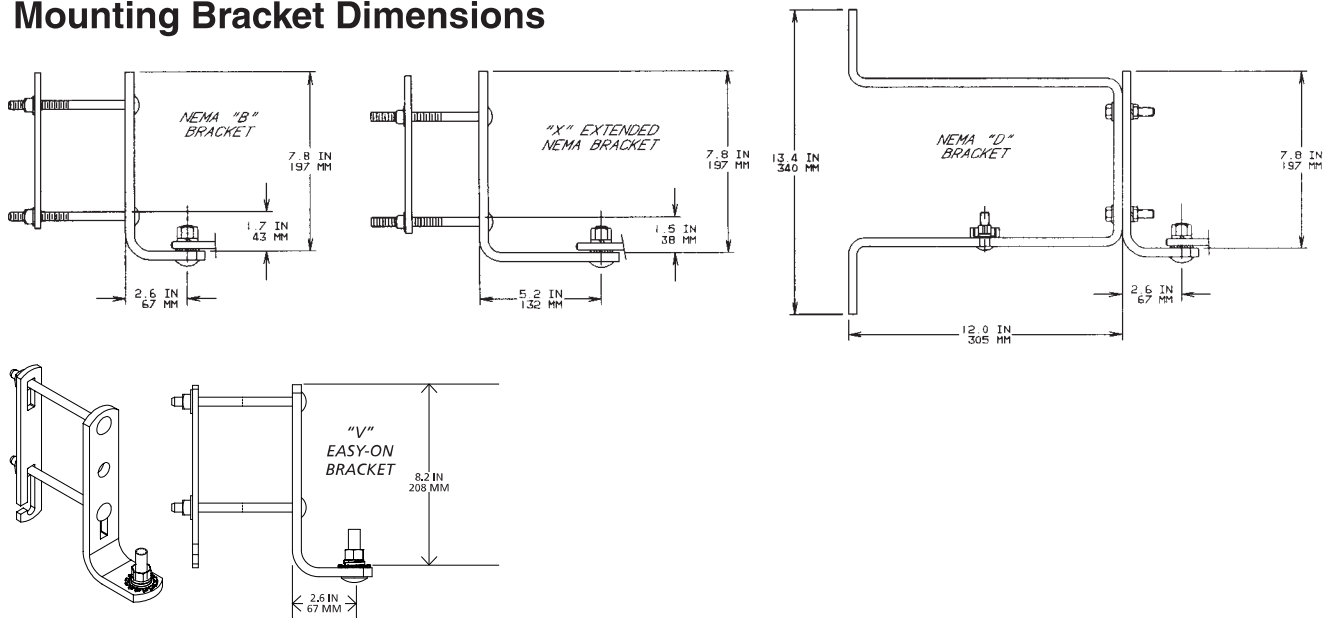
### Terminal Connectors

| Cat. No. | Description   | Wt. (lb./kg.) | Min. Order Qty. |
|----------|---|---------------|-----------------|
| T7001325 | Parallel-Groove Clamp, tin-plated bronze for No. 6 sol. thru 4/0 ACSR or 250 kcmil stranded | 0.33 / 0.15   | 10              |
| T7001326 | Small Eyebolt for No. 8 solid thru 2/0 stranded   | 0.16 / 0.07   | 10              |
| T7001327 | Large Eyebolt for No. 6 solid thru 4/0 ACSR or 250 kcmil stranded                           | 0.40 / 0.14   | 10              |

### Mounting Brackets

|            |  |             |   |
|------------|--|-------------|---|
| C2060283   | NEMA Heavy Duty "B" Bracket with 1½" captive bolt for crossarm mounting            | 2.84 / 1.29 | — |
| C2060280   | Extended Crossarm Bracket (Horizontal section is 2⅝" longer than NEMA "B" bracket) | 3.75 / 1.70 | — |
| C2060299   | "D" Pole Mounting Bracket  | 7.67 / 3.48 | — |
| C2060632   | Cutout/Arrester Bracket complete with carriage bolts and backstrap                 | 4.00 / 1.81 | — |
| PSC2060887 | "V" Easy-On bracket (Height: 4⅞" to 5⅝", Width: 2¾" to 4")                         | 2.9 / 1.32  | — |

## Mounting Bracket Dimensions



### Fargo Cutout Cover ONE PIECE WILDLIFE PROTECTOR

#### Fastener installation locations (2 fasteners per assembly)

Available as an Option on Standard and Linkbreak Type C-Porcelain Cutouts (see pages 10A-6 and 10A-10), Cover also may be ordered as a separate line item as **Catalog No. CC101**. **Material:** Proprietary low track vinyl that is UV stabilized for long-term performance. Gray color.

- Designed to provide protection for cutouts from accidental contact by squirrels, birds or other wildlife.
- Universal one-piece design for easy installation or retrofit. Fits Chance 15 kV Standard and Linkbreak Cutouts, both Polymer and Porcelain types.



### Universal Cutout Tool

Ideal for Standard and Linkbreak 100 amp fuse holders (ABB, Chance, S&C) to easily lift out, place, \*open and close. Inverted, secure method also fits Chance Electronic Sectionalizers.

Cat. No. **PSC4033484** (Wt. 4 oz.) See Tools Catalog Section 2100.

*\*When opening a cutout, follow all work rules and OSHA regulations. Not for use with Loadbreak cutouts.*



# Type C Cutouts Catalog Numbering System

| Position 6 - Type C Cutout - kV Rating |        |          |      |      |           |           |       |       |
|--|--------|----------|------|------|-----------|-----------|-------|-------|
| No.                                    | Bil kV | Standard |      |      | Linkbreak | Loadbreak |       |       |
|  |        | 100A     | 200A | 300A | 100A      | 100A      | 200A  | 300A  |
| 1                                      | 110    | 15       | 15   | 15   | 15        | 15        | 15    | 15    |
| 2                                      | 125    | 27       | 27   | 27   | 15/27     | 15/27     | 15/27 | 15/27 |
| 3                                      | 150    | 27       | 27   | 27   | 22/36.4   | 20/24.5   |       |       |
| 6                                      | 170    | 36       | 36   | 36   | 22/36.4   |           |       |       |
| 7                                      | 170    | 36       | 36   | 36   |           |           |       |       |

1 represents 220 mm Creep Insulator Assembly  
2 represents 320 mm Creep Insulator Assembly  
3 represents 440 mm Creep Insulator Assembly  
6 represents 660 mm Creep Insulator Assembly  
7 represents 720 mm Creep Insulator Assembly

| Position 3 - Kind |           |
|-------------------|-----------|
| 1                 | Standard  |
| 2                 | Linkbreak |
| 3                 | Loadbreak |

| Position 11, 12, 13 |   |
|---------------------|---|
| Blank               | = No option (may not be used with Z in position 10)                         |
| M                   | = Mechanical Assist Fuseholder (may not be used with Blank in position 10)* |
| S                   | = Stainless Option*   |
| F                   | = Add Cutout Cover  |

\*We recommend ordering option M and S together

| Position 10 - Bracket Variations |  |
|----------------------------------|--|
| B                                | = NEMA Heavy Duty "B" bracket for crossarm (1-1/2" bolt)                                       |
| X                                | = Extended type bracket for crossarm (Horizontal section is 2-5/8" longer than type B bracket) |
| D                                | = D-shape bracket (pole)   |
| V                                | = Easy on bracket  |
| Z                                | = No Bracket (must be used with M in position 11)  |
| Blank                            | = No bracket (cannot use with M in position 11)  |

|   |   |   |   |   |   |   |   |   |   |    |    |    |    |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|
| ▶ | C | 7 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|

| Position 4,5 |  |
|--------------|--|
| 0            | - No Arrester  |
|              | For cutout arrester combinations, see below for two letter arrester codes. |

| Position 7 - Continuous Current |  |
|---------------------------------|--|
| 1                               | = 100 Amps (Accepts 1 - 100 Amp links) |
| 3                               | = 300 Amps solid blade                 |
| 4                               | = 200 Amps (Accepts 140-200 Amp links) |
| M                               | = Mounting assembly only               |

| Position 8 - Interrupting or Momentary Current (Amps) |  |
|---|--|
| 1   | = 8,000  |
| 2   | = 10,000                                       |
| 3   | = 12,000 (Must use removable buttonhead links) |
| 4   | = 16,000 (Must use removable buttonhead links) |
| M   | = Mounting assembly only                       |

| Position 9 - Terminal Variations (Tin Plated) |   |
|---|---|
| P   | = Parallel-groove clamps  |
| E   | = Small eyebolts  |
| L   | = Large eyebolts  |
| R   | = 90 deg.   |
| T   | = Fuseholder only (enter T in position 1 and leave blank positions 10 & 11) |

| Arrester Manufacturer | MCOV Duty Cycle kV Rating    | Arrester Connection Method | Metal Oxide Varistor (MOV) |    |           |    | Operating Design        |
|-----------------------|------------------------------|----------------------------|----------------------------|----|-----------|----|-------------------------|
|                       |                              |                            | Polymer                    |    |           |    | Housing                 |
|                       |                              |                            | 110                        |    | 125 & 150 |    | kV LIW (BIL) for Cutout |
|                       |                              |                            | 9                          | 10 | 18        | 27 | kV Rating               |
| Ohio Brass            | Small Block Normal Duty 5 kA | Direct                     | DL                         | DM | DN        | DP |                         |
|                       | Large Block Heavy Duty 10 kA | Direct                     | EL                         | EM | EN        | EP |                         |
|                       | Riser Pole                   | Direct                     | FL                         | FM | FN        | FP |                         |

