

# Medium Voltage Fuses

2400 - 25,500 VAC ■ Current Limiting



Littelfuse now offers a complete selection of “E” and “R” rated medium voltage fuses for the protection of transformers, potential transformers, feeders, and motor circuits. Single, double, and triple barrel designs are available to cover a wide range of current, voltage, and interrupting ratings. Conventional ferrule type, clip lock, and bolt-in mounting configurations are now available for virtually any application. Hermetically sealed fuses for use in hazardous environments are also offered.

Contact the factory or your local Littelfuse representative for additional fuse ratings or custom mounting configurations.

**24 Hour Emergency Service is available.**  
Call 1-800-227-0029.

## APPLICATIONS

- Power Transformer Protection
- Potential Transformer Protection
- Motor Controller Back-up Protection
- Fused Switches
- Feeder Circuits



Current limiting “E” and “R” rated fuses are equipped with a mechanical indicator or striker pin that protrudes through the fuse cap upon operation of the fuse. This provides visual identification of a blown fuse and can be used as a trigger for external devices.

## GENERAL INFORMATION

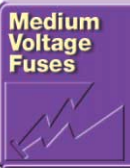
The terms “Medium Voltage” and “high voltage” have been used interchangeably by many people to describe fuses operating above 600 volts. Technically speaking, “medium voltage” fuses are those intended for the voltage range from 2,400 to 38,000 VAC. “High voltage fuses are for circuits carrying voltages greater than 38,000 VAC.

“E” Rated fuses are considered to be general purpose fuses and can be used to protect against low and high values of fault current. “R” rated fuses are designed for back-up protection. They must be used in series with other devices, such as motor overload relays, in order to achieve both overload and short circuit protection.

Medium voltage fuses are not intended to provide overload protection in the same sense as fuses rated 600 volts or less. Medium voltage fuse current ratings do not have the same meanings as the ampere ratings of low voltage fuses.

All medium voltage fuses are limited in their ability to interrupt low value overcurrents, especially those between 100% and 200% of the fuse's continuous current rating. They are designed to carry their rated current without exceeding the temperature rise permitted by NEMA and ANSI standards.

Additional application data can be found in the Fuse Application section of the POWR-GARD Products catalog (PF101).



**Bolt-in Mount Fuses**

# R Rated Medium Voltage Fuses

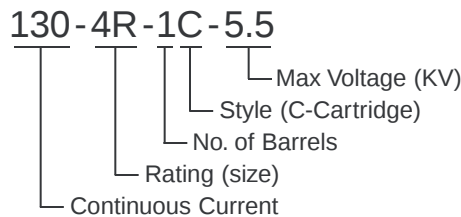
Current Limiting

## FEATURES

"R" rated fuses provide required short-circuit protection for medium voltage motors, motor controllers and associated circuitry. These components have limited ability to absorb the energy of large short circuit currents. Medium voltage motor controllers contain overload relays which provide both overload protection and locked rotor protection to the motor. The controllers are also intended to interrupt low value short circuits within the capability of the motor controller. This protects the medium voltage fuse from sustained overcurrents which are less than their minimum interrupting rating.

NEMA Standards for "R" rated medium voltage power fuses require that they operate within 15-35 seconds when subjected to an rms current 100 times the "R" rating. For example, a fuse with a 2R rating will open within 15 to 35 seconds on an applied current of  $2 \times 100 = 200$  amperes.

## Part Number System



## CHARACTERISTICS

**Voltage Rating:** 2,400 volts – 15,500 volts

**Current Range:** 2R – 36R

## OPTIONS

- Hermitically sealed for use in hazardous locations (add "S" suffix to part number)
- Hookeye attachment (add "W" suffix to part number)
- Bolt-in mounting configurations



**Hookeye Feature\***

\*For hookeye attachment; add "W" suffix to part number

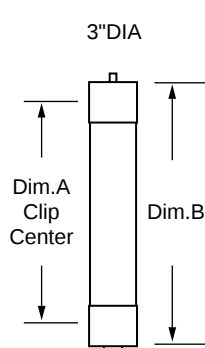


FIGURE 1

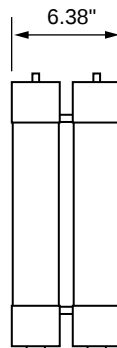


FIGURE 2

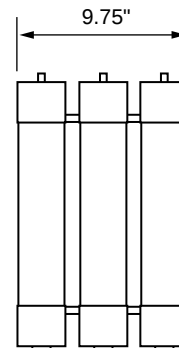


FIGURE 3

| <b>R</b><br>RATED | Catalog Number  | Old Catalog Number | Size | Maximum Continuous Current @ 40 deg C. | Dim. A (inches) | Dim. B (inches) | Minimum Interrupting Rating RMS Amps | Max Interrupting Rating RMS Asym | Figure Number |
|-------------------|-----------------|--------------------|------|----------------------------------------|-----------------|-----------------|--------------------------------------|----------------------------------|---------------|
| <b>2.75 KV</b>    | 70-2R-1C-2.75   | LCK 2R             | 2R   | 70                                     | 7"              | 10.875"         | 170                                  | 80,000                           | 1             |
|                   | 100-3R-1C-2.75  | LCK 3R             | 3R   | 100                                    |                 |                 | 250                                  | 80,000                           | 1             |
|                   | 130-4R-1C-2.75  | LCK 4R             | 4R   | 130                                    |                 |                 | 340                                  | 80,000                           | 1             |
|                   | 150-5R-1C-2.75  | LCK 5R             | 5R   | 150                                    |                 |                 | 390                                  | 80,000                           | 1             |
|                   | 170-6R-1C-2.75  | LCK 6R             | 6R   | 170                                    |                 |                 | 500                                  | 80,000                           | 1             |
|                   | 200-9R-1C-2.75  | LCK 9R             | 9R   | 200                                    |                 |                 | 760                                  | 80,000                           | 1             |
|                   | 230-12R-1C-2.75 | LCK 12R            | 12R  | 230                                    |                 |                 | 1000                                 | 80,000                           | 1             |
|                   | 390-18R-2C-2.75 | LCK 18R            | 18R  | 390                                    | 7"              | 10.875"         | 1500                                 | 80,000                           | 2             |
|                   | 450-24R-2C-2.75 | LCK 24R            | 24R  | 450                                    |                 |                 | 1950                                 | 80,000                           | 2             |

Add "w" suffix to part number for hookeye attachment.

# R Rated Medium Voltage Fuses

Current Limiting

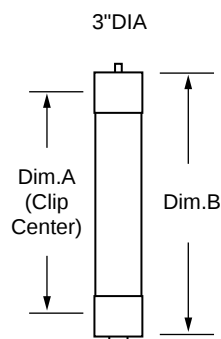


FIGURE 4

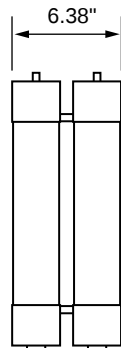


FIGURE 5

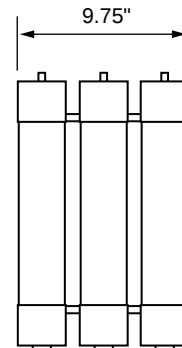
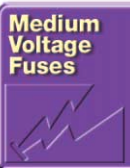


FIGURE 6

| <b>R<br/>RATED</b>                | Catalog Number  | Old Catalog Number | Size | Maximum Continuous Current @ 40 deg C. | Dim. A (inches) | Dim. B (inches) | Minimum Interrupting Rating RMS Amps | Max Interrupting Rating RMS (Asym) | Figure Number |
|-----------------------------------|-----------------|--------------------|------|----------------------------------------|-----------------|-----------------|--------------------------------------|------------------------------------|---------------|
| <b>5.5 KV</b>                     | 70-2R-1C-5.5    | LCL 2R             | 2R   | 70                                     | 12"             | 15.875"         | 170                                  | 80,000                             | 4             |
|                                   | 100-3R-1C-5.5   | LCL 3R             | 3R   | 100                                    |                 |                 | 250                                  | 80,000                             | 4             |
|                                   | 130-4R-1C-5.5   | LCL 4R             | 4R   | 130                                    |                 |                 | 340                                  | 80,000                             | 4             |
|                                   | 150-5R-1C-5.5   | LCL 5R             | 5R   | 150                                    |                 |                 | 390                                  | 80,000                             | 4             |
|                                   | 170-6R-1C-5.5   | LCL 6R             | 6R   | 170                                    |                 |                 | 500                                  | 80,000                             | 4             |
|                                   | 200-9R-1C-5.5   | LCL 9R             | 9R   | 200                                    |                 |                 | 760                                  | 80,000                             | 4             |
|                                   | 230-12R-1C-5.5  | LCL 12R            | 12R  | 230                                    |                 |                 | 1000                                 | 80,000                             | 4             |
|                                   | 390-18R-2C-5.5  | LCL 18R            | 18R  | 390                                    | 12"             | 15.875"         | 1500                                 | 80,000                             | 5             |
|                                   | 450-24R-2C-5.5  | LCL 24R            | 24R  | 450                                    |                 |                 | 1950                                 | 80,000                             | 5             |
|                                   | 480-26R-2C-5.5  | —                  | 26R  | 480                                    |                 |                 | 2100                                 | 80,000                             | 5             |
|                                   | 550-30R-2C-5.5  | —                  | 30R  | 550                                    |                 |                 | 2400                                 | 80,000                             | 5             |
|                                   | 600-32R-2C-5.5  | —                  | 32R  | 600                                    |                 |                 | 2600                                 | 80,000                             | 5             |
|                                   | 650-36R-2C-5.5  | —                  | 36R  | 650                                    |                 |                 | 2900                                 | 80,000                             | 5             |
|                                   | 550-30R-3C-5.5  | —                  | 30R  | 550                                    | 12"             | 15.875"         | 2400                                 | 80,000                             | 6             |
|                                   | 600-32R-3C-5.5  | —                  | 32R  | 600                                    |                 |                 | 2600                                 | 80,000                             | 6             |
|                                   | 650-36R-3C-5.5  | LCL 36R            | 36R  | 650                                    |                 |                 | 2900                                 | 80,000                             | 6             |
| <b>5.5 KV</b><br>14" Clip Centers | 70-2R-1C-5.5X   | —                  | 2R   | 70                                     | 14"             | 17.875"         | 170                                  | 80,000                             | 4             |
|                                   | 100-3R-1C-5.5X  | —                  | 3R   | 100                                    |                 |                 | 250                                  | 80,000                             | 4             |
|                                   | 130-4R-1C-5.5X  | —                  | 4R   | 130                                    |                 |                 | 340                                  | 80,000                             | 4             |
|                                   | 150-5R-1C-5.5X  | —                  | 5R   | 150                                    |                 |                 | 390                                  | 80,000                             | 4             |
|                                   | 170-6R-1C-5.5X  | —                  | 6R   | 170                                    |                 |                 | 500                                  | 80,000                             | 4             |
|                                   | 200-9R-1C-5.5X  | —                  | 9R   | 200                                    |                 |                 | 760                                  | 80,000                             | 4             |
|                                   | 230-12R-1C-5.5X | —                  | 12R  | 230                                    |                 |                 | 1000                                 | 80,000                             | 4             |
|                                   | 390-18R-2C-5.5X | —                  | 18R  | 390                                    | 14"             | 17.875"         | 1500                                 | 80,000                             | 5             |
|                                   | 450-24R-2C-5.5X | —                  | 24R  | 450                                    |                 |                 | 1950                                 | 80,000                             | 5             |

| <b>R<br/>RATED</b> | Catalog Number  | Old Catalog Number | Size | Maximum Continuous Current @ 40 deg C. | Dim. A (inches) | Dim. B (inches) | Minimum Interrupting Rating RMS Amps | Max Interrupting Rating RMS (Asym) | Figure Number |
|--------------------|-----------------|--------------------|------|----------------------------------------|-----------------|-----------------|--------------------------------------|------------------------------------|---------------|
| <b>8.25 KV</b>     | 70-2R-1C-8.25   | —                  | 2R   | 70                                     | 12"             | 15.875"         | 190                                  | 80,000                             | 4             |
|                    | 100-3R-1C-8.25  | —                  | 3R   | 100                                    |                 |                 | 225                                  | 80,000                             | 4             |
|                    | 130-4R-1C-8.25  | —                  | 4R   | 130                                    |                 |                 | 330                                  | 80,000                             | 4             |
|                    | 150-5R-1C-8.25  | —                  | 5R   | 150                                    |                 |                 | 440                                  | 80,000                             | 4             |
|                    | 170-6R-1C-8.25  | —                  | 6R   | 170                                    |                 |                 | 500                                  | 80,000                             | 4             |
|                    | 200-9R-1C-8.25  | —                  | 9R   | 200                                    |                 |                 | 740                                  | 80,000                             | 4             |
|                    | 230-12R-1C-8.25 | —                  | 12R  | 230                                    |                 |                 | 955                                  | 80,000                             | 4             |
|                    | 390-18R-2C-8.25 | —                  | 18R  | 390                                    | 12"             | 15.875"         | 1440                                 | 80,000                             | 5             |
|                    | 450-24R-2C-8.25 | —                  | 24R  | 450                                    |                 |                 | 1910                                 | 80,000                             | 5             |

Add "w" suffix to part number for hookeye attachment.



# R Rated Medium Voltage Fuses

## Current Limiting

Littelfuse's POWR-GARD medium voltage fuses are available in several bolt-in mounting configurations. Contact factory for custom configurations

- "B" Bolt mount
- "BI" Bolt-In mount
- "IB" Inverted-Bolt mount

Refer to illustrations for mounting dimensions.

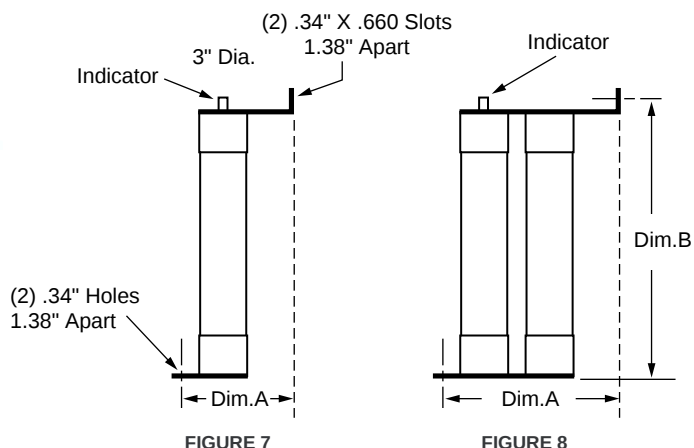


FIGURE 7

FIGURE 8

Bolt Mount "B"

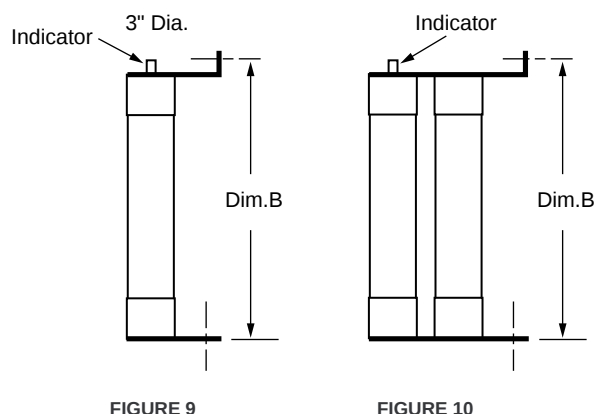


FIGURE 9

FIGURE 10

Inverted Bolt "IB"

| <b>R</b><br>RATED                    | Catalog Number   | Old Catalog Number | Size | Maximum Continuous Current @ 40 deg C. | Dim. A (inches) | Dim. B (inches) | Minimum Interrupting Rating RMS Amps | Max Interrupting Rating RMS (Asym) | Figure Number |
|--------------------------------------|------------------|--------------------|------|----------------------------------------|-----------------|-----------------|--------------------------------------|------------------------------------|---------------|
| <b>2.75 KV</b><br>Bolt Mount "B"     | 70-2R-1B-2.75    | —                  | 2R   | 70                                     | 4.6"            | 13"             | 170                                  | 80,000                             | 7             |
|                                      | 100-3R-1B-2.75   |                    | 3R   | 100                                    |                 |                 | 250                                  | 80,000                             | 7             |
|                                      | 130-4R-1B-2.75   |                    | 4R   | 130                                    |                 |                 | 240                                  | 80,000                             | 7             |
|                                      | 150-5R-1B-2.75   |                    | 5R   | 150                                    |                 |                 | 390                                  | 80,000                             | 7             |
|                                      | 170-6R-1B-2.75   |                    | 6R   | 170                                    |                 |                 | 500                                  | 80,000                             | 7             |
|                                      | 200-9R-1B-2.75   |                    | 9R   | 200                                    |                 |                 | 760                                  | 80,000                             | 7             |
|                                      | 230-12R-1B-2.75  |                    | 12R  | 230                                    |                 |                 | 1000                                 | 80,000                             | 7             |
|                                      | 390-18R-2B-2.75  | —                  | 18R  | 390                                    | 7.4"            | 13"             | 1500                                 | 80,000                             | 8             |
|                                      | 450-24R-2B-2.75  |                    | 24R  | 450                                    |                 |                 | 1950                                 | 80,000                             | 8             |
| <b>2.75 KV</b><br>Inverted Bolt "IB" | 70-2R-1IB-2.75   | —                  | 2R   | 70                                     | —               | 13"             | 170                                  | 80,000                             | 9             |
|                                      | 100-3R-1IB-2.75  |                    | 3R   | 100                                    |                 |                 | 250                                  | 80,000                             | 9             |
|                                      | 130-4R-1IB-2.75  |                    | 4R   | 130                                    |                 |                 | 340                                  | 80,000                             | 9             |
|                                      | 150-5R-1IB-2.75  |                    | 5R   | 150                                    |                 |                 | 390                                  | 80,000                             | 9             |
|                                      | 170-6R-1IB-2.75  |                    | 6R   | 170                                    |                 |                 | 500                                  | 80,000                             | 9             |
|                                      | 200-9R-1IB-2.75  |                    | 9R   | 200                                    |                 |                 | 760                                  | 80,000                             | 9             |
|                                      | 230-12R-1IB-2.75 |                    | 12R  | 230                                    |                 |                 | 1000                                 | 80,000                             | 9             |
|                                      | 390-18R-2IB-2.75 | —                  | 18R  | 390                                    | —               | 13"             | 1500                                 | 80,000                             | 10            |
|                                      | 450-24R-2IB-2.75 |                    | 24R  | 450                                    |                 |                 | 1950                                 | 80,000                             | 10            |

.44" X .91" Slots (1.53" c.t.c.)



Front View

3"Dia.

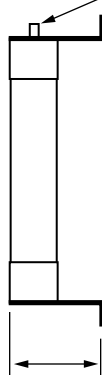


FIGURE 11

Indicator

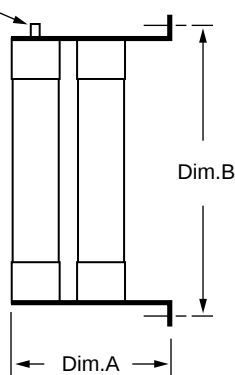


FIGURE 12

Indicator

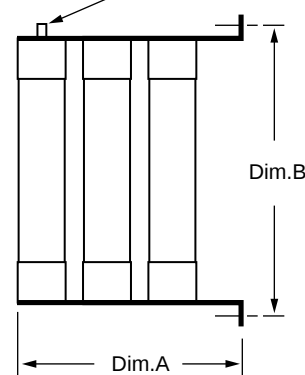
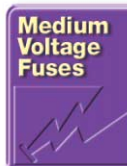


FIGURE 13

### Bolt-In Mount "BI"

| <div><div>R</div><div>RATED</div></div> | Catalog<br>Number            | Old<br>Catalog<br>Number | Size | Maximum<br>Continuous<br>Current<br>@ 40 deg C. | Dim. A<br>(inches) | Dim. B<br>(inches) | Minimum<br>Interrupting<br>Rating<br>RMS Amps | Max<br>Interrupting<br>Rating<br>RMS (Asym) | Figure<br>Number |    |
|-----------------------------------------|------------------------------|--------------------------|------|-------------------------------------------------|--------------------|--------------------|-----------------------------------------------|---------------------------------------------|------------------|----|
| 5.5 KV<br>Bolt In Mount "BI"            | 70-2R-1BI-5.5                | —                        | 2R   | 70                                              | 3.6                | 18"                | 170                                           | 80,000                                      | 11               |    |
|                                         | 100-3R-1BI-5.5               |                          | 3R   | 100                                             |                    |                    | 250                                           | 80,000                                      | 11               |    |
|                                         | 130-4R-1BI-5.5               |                          | 4R   | 130                                             |                    |                    | 340                                           | 80,000                                      | 11               |    |
|                                         | 150-5R-1BI-5.5               |                          | 5R   | 150                                             |                    |                    | 390                                           | 80,000                                      | 11               |    |
|                                         | 170-6R-1BI-5.5               |                          | 6R   | 170                                             |                    |                    | 500                                           | 80,000                                      | 11               |    |
|                                         | 200-9R-1BI-5.5               |                          | 9R   | 200                                             |                    |                    | 760                                           | 80,000                                      | 11               |    |
|                                         | 230-12R-1BI-5.5              |                          | 12R  | 230                                             |                    |                    | 1000                                          | 80,000                                      | 11               |    |
|                                         | 390-18R-2BI-5.5              | —                        | 18R  | 390                                             | 7.6                | 18"                | 1500                                          | 80,000                                      | 12               |    |
|                                         | 450-24R-2BI-5.5              |                          | 24R  | 450                                             |                    |                    | 1950                                          | 80,000                                      | 12               |    |
|                                         | 480-26R-2BI-5.5              |                          | 26R  | 480                                             |                    |                    | 2200                                          | 80,000                                      | 12               |    |
|                                         | 550-30R-2BI-5.5              |                          | 30R  | 550                                             |                    |                    | 2400                                          | 80,000                                      | 12               |    |
|                                         | 600-32R-2BI-5.5              |                          | 32R  | 600                                             |                    |                    | 2650                                          | 80,000                                      | 12               |    |
|                                         | 650-36R-2BI-5.5              | 36R                      | 650  | 2900                                            | 80,000             | 12                 |                                               |                                             |                  |    |
|                                         | 550-30R-3BI-5.5              | —                        | 30R  | 550                                             | 18"                | 18"                |                                               | 80,000                                      | 13               |    |
| 600-32R-3BI-5.5                         | 32R                          |                          | 600  |                                                 |                    |                    | 80,000                                        | 13                                          |                  |    |
| 650-36R-3BI-5.5                         | 36R                          |                          | 650  |                                                 |                    |                    | 80,000                                        | 13                                          |                  |    |
| 700-38R-3BI-5.5                         | 38R                          |                          | 700  |                                                 |                    |                    | 80,000                                        | 13                                          |                  |    |
| 5.5 KV<br>Bolt Mount "B"                | 70-2R-1B-5.5                 | —                        | 2R   | 70                                              | 4.6                | 18"                | 170                                           | 80,000                                      | 7                |    |
|                                         | 100-3R-1B-5.5                |                          | 3R   | 100                                             |                    |                    | 250                                           | 80,000                                      | 7                |    |
|                                         | 130-4R-1B-5.5                |                          | 4R   | 130                                             |                    |                    | 340                                           | 80,000                                      | 7                |    |
|                                         | 150-5R-1B-5.5                |                          | 5R   | 150                                             |                    |                    | 390                                           | 80,000                                      | 7                |    |
|                                         | 170-6R-1B-5.5                |                          | 6R   | 170                                             |                    |                    | 500                                           | 80,000                                      | 7                |    |
|                                         | 200-9R-1B-5.5                |                          | 9R   | 200                                             |                    |                    | 760                                           | 80,000                                      | 7                |    |
|                                         | 230-12R-1B-5.5               |                          | 12R  | 230                                             |                    |                    | 1000                                          | 80,000                                      | 7                |    |
|                                         | 390-18R-2B-5.5               | —                        | 18R  | 390                                             | 7.4                | 18"                | 1500                                          | 80,000                                      | 8                |    |
|                                         | 450-24R-2B-5.5               |                          | 24R  | 450                                             |                    |                    | 1950                                          | 80,000                                      | 8                |    |
|                                         | 550-30R-2B-5.5               |                          | 30R  | 550                                             | 2400               |                    | 80,000                                        | 8                                           |                  |    |
|                                         | 600-32R-2B-5.5               |                          | 32R  | 600                                             | 2650               |                    | 80,000                                        | 8                                           |                  |    |
|                                         | 650-36R-2B-5.5               |                          | 36R  | 650                                             | 2900               |                    | 80,000                                        | 8                                           |                  |    |
|                                         | 5.5 KV<br>Inverted Bolt "IB" | 70-2R-1IB-5.5            | —    | 2R                                              | 70                 | —                  | 18"                                           | 170                                         | 80,000           | 9  |
|                                         |                              | 100-3R-1IB-5.5           |      | 3R                                              | 100                |                    |                                               | 250                                         | 80,000           | 9  |
| 130-4R-1IB-5.5                          |                              | 4R                       |      | 130                                             | 340                |                    |                                               | 80,000                                      | 9                |    |
| 150-5R-1IB-5.5                          |                              | 5R                       |      | 150                                             | 390                |                    |                                               | 80,000                                      | 9                |    |
| 170-6R-1IB-5.5                          |                              | 6R                       |      | 170                                             | 500                |                    |                                               | 80,000                                      | 9                |    |
| 200-9R-1IB-5.5                          |                              | 9R                       |      | 200                                             | 760                |                    |                                               | 80,000                                      | 9                |    |
| 230-12R-1IB-5.5                         |                              | 12R                      |      | 230                                             | 1000               |                    |                                               | 80,000                                      | 9                |    |
| 390-18R-2IB-5.5                         |                              | —                        | 18R  | 390                                             | —                  | 18"                | 1500                                          | 80,000                                      | 10               |    |
| 450-24R-2IB-5.5                         |                              |                          | 24R  | 450                                             |                    |                    | 1950                                          | 80,000                                      | 10               |    |
| 550-30R-2IB-5.5                         |                              |                          | 30R  | 550                                             |                    |                    | 2400                                          | 80,000                                      | 10               |    |
| 600-32R-2IB-5.5                         |                              |                          | 32R  | 600                                             |                    |                    | 2650                                          | 80,000                                      | 10               |    |
| 650-36R-2IB-5.5                         |                              |                          | 36R  | 650                                             |                    |                    | 2900                                          | 80,000                                      | 10               |    |
| 8.25 KV<br>Bolt-In Mount "BI"           |                              | 70-2R-1BI-8.25           | —    | 2R                                              | 70                 | 3.6                | 18"                                           | 190                                         | 80,000           | 11 |
|                                         |                              | 100-3R-1BI-8.25          |      | 3R                                              | 100                |                    |                                               | 225                                         | 80,000           | 11 |
|                                         | 130-4R-1BI-8.25              | 4R                       |      | 130                                             | 330                |                    |                                               | 80,000                                      | 11               |    |
|                                         | 150-5R-1BI-8.25              | 5R                       |      | 150                                             | 400                |                    |                                               | 80,000                                      | 11               |    |
|                                         | 170-6R-1BI-8.25              | 6R                       |      | 170                                             | 500                |                    |                                               | 80,000                                      | 11               |    |
|                                         | 200-9R-1BI-8.25              | 9R                       |      | 200                                             | 740                |                    |                                               | 80,000                                      | 11               |    |
|                                         | 230-12R-1BI-8.25             | 12R                      |      | 230                                             | 955                |                    |                                               | 80,000                                      | 11               |    |
|                                         | 390-18R-2BI-8.25             | —                        | 18R  | 390                                             | 7.6                | 18"                | 1440                                          | 80,000                                      | 12               |    |
|                                         | 450-24R-2BI-8.25             |                          | 24R  | 450                                             |                    |                    | 1910                                          | 80,000                                      | 12               |    |
|                                         |                              |                          |      |                                                 |                    |                    |                                               |                                             |                  |    |
|                                         |                              |                          |      |                                                 |                    |                    |                                               |                                             |                  |    |
|                                         |                              |                          |      |                                                 |                    |                    |                                               |                                             |                  |    |
|                                         |                              |                          |      |                                                 |                    |                    |                                               |                                             |                  |    |
|                                         |                              |                          |      |                                                 |                    |                    |                                               |                                             |                  |    |



# E Rated Medium Voltage Fuses

## Current Limiting

"E" Rated fuses have time current characteristics designed to provide current limiting protection for power transformers, potential transformers, power centers, feeder centers, and unit sub stations. When properly applied, they can protect against high and low value fault currents.

NEMA Standards for "E" rated medium voltage fuses require that fuses rated 100E or less open within 300 seconds (5 minutes) when subjected to an RMS value of 200-240% of the fuse's continuous current rating; and fuses with an "E" rating larger than 100E must open within 600 seconds (10 minutes) when subjected to an rms current of 220-240% of the fuse's continuous current rating. These values establish one point on the time-current curve.

### Application Note:

Since these fuses are used for the protection of general purpose circuits which may contain transformers, motors, and other equipment producing inrush and/or overload currents, fuses should generally be rated at 140% of the normal full load current, and circuits should be analyzed to ensure that system load currents will not exceed the current rating of the fuse.

### CHARACTERISTICS

**Voltage Rating:** 2,400 volts – 38,000 volts

**Current Range:** 10E – 600E

### OPTIONS

- Hermetically Sealed for use in hazardous locations (add "S" suffix to part number)
- Clip-lock (CL) and bolt-in styles available.

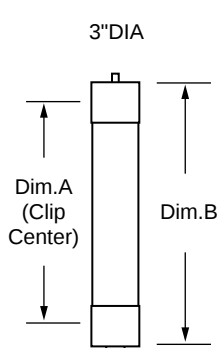
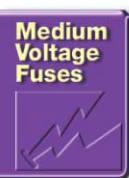


FIGURE 14

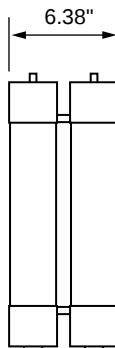


FIGURE 15

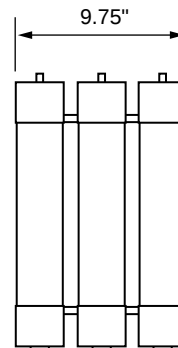


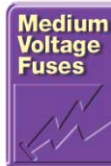
FIGURE 16

| <b>E</b><br>RATED   | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|---------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| <b>2.75 Max. KV</b> | 10E-1C-2.75    | LCX 10E            | 10E  | 7"              | 10.875"         | 80,000                             | 14            |
|                     | 15E-1C-2.75    | —                  | 15E  |                 |                 |                                    | 14            |
|                     | 20E-1C-2.75    | —                  | 20E  |                 |                 |                                    | 14            |
|                     | 25E-1C-2.75    | —                  | 25E  |                 |                 |                                    | 14            |
|                     | 30E-1C-2.75    | LCX 30E            | 30E  |                 |                 |                                    | 14            |
|                     | 40E-1C-2.75    | LCX 40E            | 40E  |                 |                 |                                    | 14            |
|                     | 50E-1C-2.75    | LCX 50E            | 50E  |                 |                 |                                    | 14            |
|                     | 65E-1C-2.75    | LCX 65E            | 65E  |                 |                 |                                    | 14            |
|                     | 80E-1C-2.75    | LCX 80E            | 80E  |                 |                 |                                    | 14            |
|                     | 100E-1C-2.75   | LCX 100E           | 100E |                 |                 |                                    | 14            |
|                     | 125E-1C-2.75   | —                  | 125E |                 |                 |                                    | 14            |
|                     | 150E-1C-2.75   | —                  | 150E |                 |                 |                                    | 14            |
|                     | 200E-1C-2.75   | —                  | 200E |                 |                 |                                    | 14            |
|                     | 125E-2C-2.75   | LCX 125E           | 125E | 7"              | 10.875"         | 80,000                             | 15            |
|                     | 150E-2C-2.75   | LCX 150E           | 150E |                 |                 |                                    | 15            |
|                     | 175E-2C-2.75   | LCX 175E           | 175E |                 |                 |                                    | 15            |
|                     | 200E-2C-2.75   | LCX 200E           | 200E |                 |                 |                                    | 15            |
|                     | 225E-2C-2.75   | —                  | 225E |                 |                 |                                    | 15            |
|                     | 250E-2C-2.75   | LCX 250E           | 250E |                 |                 |                                    | 15            |
|                     | 300E-2C-2.75   | LCX 300E           | 300E |                 |                 |                                    | 15            |
|                     | 350E-2C-2.75   | —                  | 350E |                 |                 |                                    | 15            |
|                     | 400E-2C-2.75   | LCX 400E           | 400E |                 |                 |                                    | 15            |
|                     | 450E-2C-2.75   | —                  | 450E |                 |                 |                                    | 15            |

# E Rated Medium Voltage Fuses

Current Limiting

|  <b>RATED</b> | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Diagram |
|------------------------------------------------------------------------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------|
| <b>5.5 Max. KV</b>                                                                             | 10E-1C-5.5     | —                  | 10E  | 12"             | 15.875"         | 80,000                             | 14      |
|                                                                                                | 15E-1C-5.5     | —                  | 15E  |                 |                 |                                    | 14      |
|                                                                                                | 20E-1C-5.5     | —                  | 20E  |                 |                 |                                    | 14      |
|                                                                                                | 25E-1C-5.5     | —                  | 25E  |                 |                 |                                    | 14      |
|                                                                                                | 30E-1C-5.5     | LCY 30E            | 30E  |                 |                 |                                    | 14      |
|                                                                                                | 40E-1C-5.5     | LCY 40E            | 40E  |                 |                 |                                    | 14      |
|                                                                                                | 50E-1C-5.5     | LCY 50E            | 50E  |                 |                 |                                    | 14      |
|                                                                                                | 65E-1C-5.5     | LCY 60E            | 65E  |                 |                 |                                    | 14      |
|                                                                                                | 80E-1C-5.5     | LCY 80E            | 80E  |                 |                 |                                    | 14      |
|                                                                                                | 100E-1C-5.5    | LCY 100E           | 100E |                 |                 |                                    | 14      |
|                                                                                                | 125E-1C-5.5    | LCY 125E           | 125E |                 |                 |                                    | 14      |
|                                                                                                | 150E-1C-5.5    | LCY 150E           | 150E |                 |                 |                                    | 14      |
|                                                                                                | 175E-1C-5.5    | LCY 175E           | 175E |                 |                 |                                    | 14      |
|                                                                                                | 200E-1C-5.5    | LCY 200E           | 200E |                 |                 |                                    | 14      |
|                                                                                                | 125E-2C-5.5    | —                  | 125E | 12"             | 15.875"         | 80,000                             | 15      |
|                                                                                                | 150E-2C-5.5    | —                  | 150E |                 |                 |                                    | 15      |
|                                                                                                | 175E-2C-5.5    | —                  | 175E |                 |                 |                                    | 15      |
|                                                                                                | 200E-2C-5.5    | —                  | 200E |                 |                 |                                    | 15      |
|                                                                                                | 250E-2C-5.5    | LCY 250E           | 250E |                 |                 |                                    | 15      |
|                                                                                                | 300E-2C-5.5    | LCY 300E           | 300E |                 |                 |                                    | 15      |
|                                                                                                | 350E-2C-5.5    | LCY 350E           | 350E |                 |                 |                                    | 15      |
|                                                                                                | 400E-2C-5.5    | LCY 400E           | 400E | 12"             | 15.875"         | 80,000                             | 15      |
|                                                                                                | 450E-2C-5.5    | LCY 450E           | 450E |                 |                 |                                    | 15      |
|                                                                                                | 500E-3C-5.5    | —                  | 500E |                 |                 |                                    | 16      |
|                                                                                                | 550E-3C-5.5    | —                  | 550E | 12"             | 15.875"         | 80,000                             | 16      |
|                                                                                                | 600E-3C-5.5    | —                  | 660E |                 |                 |                                    | 16      |
| <b>5.5 Max. KV</b>                                                                             | 5NLE-10E       | LCU 30E            | 10E  | 14              | 17-7/8"         | 80,000                             | 14      |
|                                                                                                | 5NLE-15E       |                    | 15E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-20E       |                    | 20E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-25E       |                    | 25E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-30E       |                    | 30E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-40E       |                    | 40E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-50E       |                    | 50E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-65E       |                    | 65E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-80E       |                    | 80E  |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-100E      |                    | 100E |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-125E      |                    | 125E |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-150E      |                    | 150E |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-175E      |                    | 175E |                 |                 |                                    | 14      |
|                                                                                                | 5NLE-200E      |                    | 200E |                 |                 |                                    | 14      |
|                                                                                                | 5NLE2-225E     | LCU 250E           | 225E | 14"             | 17-7/8"         | 80,000                             | 15      |
|                                                                                                | 5NLE2-250E     |                    | 250E |                 |                 |                                    | 15      |
|                                                                                                | 5NLE2-300E     |                    | 300E |                 |                 |                                    | 15      |
|                                                                                                | 5NLE2-350E     |                    | 350E |                 |                 |                                    | 15      |
|                                                                                                | 5NLE2-400E     |                    | 400E |                 |                 |                                    | 15      |
|                                                                                                | 5NLE2-450E     |                    | 450E |                 |                 |                                    | 15      |



# E Rated Medium Voltage Fuses

Current Limiting

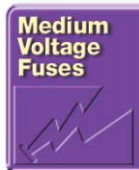
|  RATED | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Diagram |
|-----------------------------------------------------------------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------|
| 8.25 Max. KV                                                                            | 10E-1C-8.25    |                    | 10E  | 12"             | 15-7/8"         | 80,000                             | 14      |
|                                                                                         | 15E-1C-8.25    |                    | 15E  |                 |                 |                                    | 14      |
|                                                                                         | 20E-1C-8.25    |                    | 20E  |                 |                 |                                    | 14      |
|                                                                                         | 25E-1C-8.25    |                    | 25E  |                 |                 |                                    | 14      |
|                                                                                         | 30E-1C-8.25    | LDZ 30E            | 30E  |                 |                 |                                    | 14      |
|                                                                                         | 40E-1C-8.25    | LDZ 40E            | 40E  |                 |                 |                                    | 14      |
|                                                                                         | 50E-1C-8.25    | LDZ 50E            | 50E  |                 |                 |                                    | 14      |
|                                                                                         | 65E-1C-8.25    | LDZ 65E            | 65E  |                 |                 |                                    | 14      |
|                                                                                         | 80E-1C-8.25    | LDZ 80E            | 80E  |                 |                 |                                    | 14      |
|                                                                                         | 100E-1C-8.25   | LDZ 100E           | 100E |                 |                 |                                    | 14      |
|                                                                                         | 125E-1C-8.25   | LDZ 125E           | 125E |                 |                 |                                    | 14      |
|                                                                                         | 150E-1C-8.25   | LDZ 150E           | 150E |                 |                 |                                    | 14      |
|                                                                                         | 125E-2C-8.25   | LDZ 125E           | 125E | 12"             | 15-7/8"         | 80,000                             | 15      |
|                                                                                         | 150E-2C-8.25   | LDZ 150E           | 150E |                 |                 |                                    | 15      |
|                                                                                         | 200E-2C-8.25   | LDZ 200E           | 200E |                 |                 |                                    | 15      |
|                                                                                         | 250E-2C-8.25   | LDZ 250E           | 250E |                 |                 |                                    | 15      |
|                                                                                         | 300E-2C-8.25   | LDZ 300E           | 300E |                 |                 |                                    | 15      |
|                                                                                         | 350E-3C-8.25   | LDZ 350Z           | 350E | 12"             | 15-7/8"         | 80,000                             | 16      |
|                                                                                         | 400E-3C-8.25   |                    | 400E |                 |                 |                                    | 16      |
| 8.25 Max. KV                                                                            | 8NLE-10E       |                    | 10E  | 14"             | 17-7/8"         | 80,000                             | 14      |
|                                                                                         | 8NLE-15E       |                    | 15E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-20E       |                    | 20E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-25E       |                    | 25E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-30E       | LCZ 30E            | 30E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-40E       | LCZ 40E            | 40E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-50E       | LCZ 50E            | 50E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-65E       | LCZ 65E            | 65E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-80E       | LCZ 80E            | 80E  |                 |                 |                                    | 14      |
|                                                                                         | 8NLE-100E      | LCZ 100E           | 100E |                 |                 |                                    | 14      |
|                                                                                         | 8NLE2-100E     | LCZ 100E           | 100E | 14"             | 17-7/8"         | 80,000                             | 15      |
|                                                                                         | 8NLE2-125E     | LCZ 125E           | 125E |                 |                 |                                    | 15      |
|                                                                                         | 8NLE2-150E     | LCZ 150E           | 150E |                 |                 |                                    | 15      |
|                                                                                         | 8NLE2-200E     | LCZ 200E           | 200E |                 |                 |                                    | 15      |
|                                                                                         | 8NLE2-250E     |                    | 250E |                 |                 |                                    | 15      |

|  RATED | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|-------------------------------------------------------------------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| 15.5 Max. KV                                                                              | 10E-1C-15.5    | LDN 10E            | 10E  | 15"             | 18.875"         | 60,000                             | 14            |
|                                                                                           | 15E-1C-15.5    | LDN 15E            | 15E  |                 |                 |                                    | 14            |
|                                                                                           | 20E-1C-15.5    | LDN 20E            | 20E  |                 |                 |                                    | 14            |
|                                                                                           | 25E-1C-15.5    | LDN 25E            | 25E  |                 |                 |                                    | 14            |
|                                                                                           | 30E-1C-15.5    | LDN 30E            | 30E  |                 |                 |                                    | 14            |
|                                                                                           | 40E-1C-15.5    | LDN 40E            | 40E  |                 |                 |                                    | 14            |
|                                                                                           | 50E-1C-15.5    | LDN 50E            | 50E  |                 |                 |                                    | 14            |
|                                                                                           | 65E-1C-15.5    | LDN 65E            | 65E  |                 |                 |                                    | 14            |
|                                                                                           | 80E-1C-15.5    | LDN 80E            | 80E  |                 |                 |                                    | 14            |
|                                                                                           | 100E-1C-15.5   | LDN 100E           | 100E |                 |                 |                                    | 14            |
|                                                                                           | 65E-2C-15.5    |                    | 65E  | 15"             | 18.875"         | 60,000                             | 15            |
|                                                                                           | 80E-2C-15.5    |                    | 80E  |                 |                 |                                    | 15            |
|                                                                                           | 100E-2C-15.5   |                    | 100E |                 |                 |                                    | 15            |
|                                                                                           | 125E-2C-15.5   |                    | 125E |                 |                 |                                    | 15            |
|                                                                                           | 150E-2C-15.5   | LDN 150E           | 150E |                 |                 |                                    | 15            |
|                                                                                           | 175E-2C-15.5   | LDN 175E           | 175E |                 |                 |                                    | 15            |
|                                                                                           | 200E-2C-15.5   |                    | 200E |                 |                 |                                    | 15            |
|                                                                                           | 200E-3C-15.5   |                    | 200E | 15"             | 18.875"         | 60,000                             | 16            |
|                                                                                           | 250E-3C-15.5   |                    | 250E |                 |                 |                                    | 16            |
|                                                                                           | 300E-3C-15.5   |                    | 300E |                 |                 |                                    | 16            |

# E Rated Medium Voltage Fuses

Current Limiting

|  RATED | Catalog Number | Old Catalog Number                                                | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|-----------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------|------|-----------------|-----------------|------------------------------------|---------------|
| 15.5 Max. KV                                                                            | 15GSE-65E      | —                                                                 | 65E  | 18"             | 21-7/8"         | 60,000                             | 14            |
|                                                                                         | 15GSE-80E      |                                                                   | 80E  |                 |                 |                                    | 14            |
|                                                                                         | 15GSE-100E     |                                                                   | 100E |                 |                 |                                    | 14            |
|                                                                                         | 15GSE2-125E    | —                                                                 | 125E | 18"             | 21-7/8"         | 60,000                             | 15            |
|                                                                                         | 15GSE2-150E    |                                                                   | 150E |                 |                 |                                    | 15            |
|                                                                                         | 15GSE2-175E    |                                                                   | 175E |                 |                 |                                    | 15            |
|                                                                                         | 15GSE2-200E    |                                                                   | 200E |                 |                 |                                    | 15            |
| 15.5 Max. KV                                                                            | 15NLE-10E      | LCN 30E<br>LCN 40E<br>LCN 50E<br>LCN 65E<br>LCN 80ES<br>LCN 100ES | 10E  | 20"             | 23-7/8"         | 60,000                             | 14            |
|                                                                                         | 15NLE-15E      |                                                                   | 15E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-20E      |                                                                   | 20E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-25E      |                                                                   | 25E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-30E      |                                                                   | 30E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-40E      |                                                                   | 40E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-50E      |                                                                   | 50E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-65E      |                                                                   | 65E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-80E      |                                                                   | 80E  |                 |                 |                                    | 14            |
|                                                                                         | 15NLE-100E     |                                                                   | 100E |                 |                 |                                    | 14            |
|                                                                                         | 15NLE2-80E     | LCN 80E<br>LCN 100E<br>LCN 125X<br>LCN 150E                       | 80E  | 20"             | 23-7/8"         | 60,000                             | 15            |
|                                                                                         | 15NLE2-100E    |                                                                   | 100E |                 |                 |                                    | 15            |
|                                                                                         | 15NLE2-125E    |                                                                   | 125E |                 |                 |                                    | 15            |
|                                                                                         | 15NLE2-150E    |                                                                   | 150E |                 |                 |                                    | 15            |
|                                                                                         | 15NLE2-175E    |                                                                   | 175E |                 |                 |                                    | 15            |
|                                                                                         | 15NLE2-200E    | LCN 200ED                                                         | 200E |                 |                 |                                    | 15            |
|                                                                                         | 15NLE3-150E    | —                                                                 | 150E | 20"             | 23-7/8"         | 60,000                             | 16            |
|                                                                                         | 15NLE3-175E    |                                                                   | 175E |                 |                 |                                    | 16            |
|                                                                                         | 15NLE3-250E    |                                                                   | 250E |                 |                 |                                    | 16            |
|                                                                                         | 15NLE3-300E    |                                                                   | 300E |                 |                 |                                    | 16            |



|  RATED | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|-------------------------------------------------------------------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| 25.8 Max. KV                                                                              | 15E-1C-25.8    | —                  | 15E  | 21"             | 24-5/8"         | 40,000                             | 14            |
|                                                                                           | 20E-1C-25.8    |                    | 20E  |                 |                 |                                    | 14            |
|                                                                                           | 25E-1C-25.8    |                    | 25E  |                 |                 |                                    | 14            |
|                                                                                           | 30E-1C-25.8    |                    | 30E  |                 |                 |                                    | 14            |
|                                                                                           | 40E-1C-25.8    |                    | 40E  |                 |                 |                                    | 14            |
|                                                                                           | 50E-1C-25.8    |                    | 50E  |                 |                 |                                    | 14            |
|                                                                                           | 65E-2C-25.8    | —                  | 65E  | 21"             | 24-5/8"         | 40,000                             | 15            |
|                                                                                           | 80E-2C-25.8    |                    | 80E  |                 |                 |                                    | 15            |
|                                                                                           | 100E-2C-25.8   |                    | 100E |                 |                 |                                    | 15            |

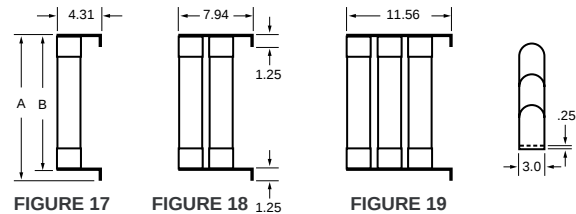
|  RATED | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|-------------------------------------------------------------------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| 38 Max. KV                                                                                | 3E-1C-38.0     | —                  | 3E   | 27"             | 30-5/8"         | 20,000                             | 14            |
|                                                                                           | 7E-1C-38.0     |                    | 7E   |                 |                 |                                    | 14            |
|                                                                                           | 10E-1C-38.0    |                    | 10E  |                 |                 |                                    | 14            |
|                                                                                           | 15E-1C-38.0    |                    | 15E  |                 |                 |                                    | 14            |
|                                                                                           | 20E-1C-38.0    |                    | 20E  |                 |                 |                                    | 14            |
|                                                                                           | 25E-1C-38.0    |                    | 25E  |                 |                 |                                    | 14            |
|                                                                                           | 30E-1C-38.0    |                    | 30E  |                 |                 |                                    | 14            |
|                                                                                           | 40E-1C-38.0    |                    | 40E  |                 |                 |                                    | 14            |
|                                                                                           | 50E-2C-38.0    | —                  | 50E  | 27"             | 30-5/8"         | 20,000                             | 15            |
|                                                                                           | 65E-2C-38.0    |                    | 65E  |                 |                 |                                    | 15            |
|                                                                                           | 80E-2C-38.0    |                    | 80E  |                 |                 |                                    | 15            |

# E Rated Medium Voltage Fuses

## Current Limiting

### Clip Lock Design

The clip lock type designs ensures a positive contact between the fuse and the connection cam. The fuse's clip lock tab slides in between the clip casting and the cam to prevent the fuse from slipping or blowing out of the holder. This positive contact improves heat dissipation and allows fuses to run cooler.



| <b>E</b><br>RATED               | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|---------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| <b>5.5 Max. KV</b><br>Clip Lock | 10E-1CL-5.5    | —                  | 10E  | 16.38"          | 15.13"          | 80,000                             | 17            |
|                                 | 15E-1CL-5.5    |                    | 15E  |                 |                 |                                    | 17            |
|                                 | 20E-1C-5.5     |                    | 20E  |                 |                 |                                    | 17            |
|                                 | 25E-1CL-5.5    |                    | 25E  |                 |                 |                                    | 17            |
|                                 | 30E-1CL-5.5    |                    | 30E  |                 |                 |                                    | 17            |
|                                 | 40E-1CL-5.5    |                    | 40E  |                 |                 |                                    | 17            |
|                                 | 50E-1CL-5.5    |                    | 50E  |                 |                 |                                    | 17            |
|                                 | 65E-1CL-5.5    |                    | 65E  |                 |                 |                                    | 17            |
|                                 | 80E-1CL-5.5    |                    | 80E  |                 |                 |                                    | 17            |
|                                 | 100E-1CL-5.5   |                    | 100E |                 |                 |                                    | 17            |
|                                 | 125E-1CL-5.5   |                    | 125E |                 |                 |                                    | 17            |
|                                 | 150E-1CL-5.5   |                    | 150E |                 |                 |                                    | 17            |
|                                 | 225E-2CL-5.5   | —                  | 225E | 17.38"          | 16.13"          | 80,000                             | 18            |
|                                 | 250E-2CL-5.5   |                    | 250E |                 |                 |                                    | 18            |
|                                 | 300E-2CL-5.5   |                    | 300E |                 |                 |                                    | 18            |
|                                 | 350E-2CL-5.5   |                    | 350E |                 |                 |                                    | 18            |
|                                 | 400E-2CL-5.5   |                    | 400E |                 |                 |                                    | 18            |
|                                 | 450E-2CL-5.5   |                    | 450E |                 |                 |                                    | 18            |
|                                 | 500E-3CL-5.5   | —                  | 500E | 17.38"          | 16.13"          | 80,000                             | 19            |
|                                 | 550E-3CL-5.5   |                    | 550E |                 |                 |                                    | 19            |
|                                 | 600E-3CL-5.5   |                    | 600E |                 |                 |                                    | 19            |

| <b>E</b><br>RATED                | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|----------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| <b>8.25 Max. KV</b><br>Clip Lock | 10E-1CL-8.25   | —                  | 10E  | 17.38"          | 16.13"          | 80,000                             | 17            |
|                                  | 15E-1CL-8.25   |                    | 15E  |                 |                 |                                    | 17            |
|                                  | 20E-1C-8.25    |                    | 20E  |                 |                 |                                    | 17            |
|                                  | 25E-1CL-8.25   |                    | 25E  |                 |                 |                                    | 17            |
|                                  | 30E-1CL-8.25   |                    | 30E  |                 |                 |                                    | 17            |
|                                  | 40E-1CL-8.25   |                    | 40E  |                 |                 |                                    | 17            |
|                                  | 50E-1CL-8.25   |                    | 50E  |                 |                 |                                    | 17            |
|                                  | 65E-1CL-8.25   |                    | 65E  |                 |                 |                                    | 17            |
|                                  | 80E-1CL-8.25   |                    | 80E  |                 |                 |                                    | 17            |
|                                  | 100E-1CL-8.25  |                    | 100E |                 |                 |                                    | 17            |
|                                  | 125E-2CL-8.25  | —                  | 125E | 17.38"          | 16.13"          | 80,000                             | 18            |
|                                  | 150E-2CL-8.25  |                    | 150E |                 |                 |                                    | 18            |
|                                  | 175E-2CL-8.25  |                    | 175E |                 |                 |                                    | 18            |
|                                  | 200E-2CL-8.25  |                    | 200E |                 |                 |                                    | 18            |
|                                  | 225E-2CL-8.25  |                    | 225E |                 |                 |                                    | 18            |
|                                  | 250E-2CL-8.25  |                    | 250E |                 |                 |                                    | 18            |
|                                  | 300E-2CL-8.25  |                    | 300E |                 |                 |                                    | 18            |
|                                  | 350E-3CL-8.25  | —                  | 350E | 17.38"          | 16.13"          | 80,000                             | 19            |

| <b>E</b><br>RATED                | Catalog Number | Old Catalog Number | Size | Dim. A (inches) | Dim. B (inches) | Max Interrupting Rating RMS (Asym) | Figure Number |
|----------------------------------|----------------|--------------------|------|-----------------|-----------------|------------------------------------|---------------|
| <b>15.5 Max. KV</b><br>Clip Lock | 10E-1CL-15.5   | —                  | 10E  | 19.8"           | 18.1"           | 60,000                             | 17            |
|                                  | 15E-1CL-15.5   |                    | 15E  |                 |                 |                                    | 17            |
|                                  | 20E-1CL-15.5   |                    | 20E  |                 |                 |                                    | 17            |
|                                  | 25E-1CL-15.5   |                    | 25E  |                 |                 |                                    | 17            |
|                                  | 30E-1CL-15.5   |                    | 30E  |                 |                 |                                    | 17            |
|                                  | 40E-1CL-15.5   |                    | 40E  |                 |                 |                                    | 17            |
|                                  | 50E-1CL-15.5   |                    | 50E  |                 |                 |                                    | 17            |
|                                  | 65E-1CL-15.5   | —                  | 65E  | 22.81"          | 21.13"          | 60,000                             | 17            |
|                                  | 80E-1CL-15.5   |                    | 80E  |                 |                 |                                    | 17            |
|                                  | 100E-1CL-15.5  |                    | 100E |                 |                 |                                    | 17            |
|                                  | 125E-2CL-15.5  | —                  | 125  | 22.81"          | 19.1"           | 60,000                             | 18            |
|                                  | 150E-3CL-15.5  | —                  | 150E | 22.81"          | 19.1"           | 60,000                             | 19            |
|                                  | 175E-3CL-15.5  |                    | 175E |                 |                 |                                    | 19            |
|                                  | 200E-3CL-15.5  |                    | 200E |                 |                 |                                    | 19            |
|                                  | 225E-3CL-15.5  |                    | 225E |                 |                 |                                    | 19            |
|                                  | 250E-3CL-15.5  |                    | 250E |                 |                 |                                    | 19            |
|                                  | 300E-3CL-15.5  |                    | 300E |                 |                 |                                    | 19            |

# E Rated Potential Transformer Fuses

## Current Limiting

Potential Transformer (PT) fuses are current limiting fuses with high interrupting ratings designed for the protection of potential transformers.

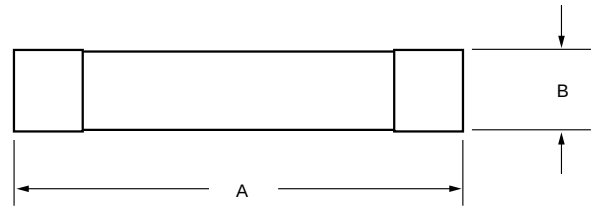
### Application Note:

When applying fuses for the protection of transformers, the magnetizing current inrush must be considered. The characteristics of the inrush, which can be matched with a fuse's time-current curve, should be available from the transformer manufacturer.

### CHARACTERISTICS

**Voltage Rating:** 600VAC – 25,500 VAC

**Current Range:** 1/2E – 10E



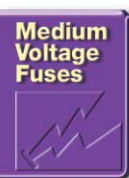
| PT           | Catalog Number | Old Catalog Number | Size | Length Dim. A (inches) | Diameter Dim. B (inches) | Max Interrupting Rating RMS (Asym) |
|--------------|----------------|--------------------|------|------------------------|--------------------------|------------------------------------|
| 600 Volt     | 3E-4PT-6       |                    | 3E   | 4.625                  | 0.8125                   | 62,500                             |
|              | 5E-4PT-6       |                    | 5E   | 4.625                  | 0.8125                   | 62,500                             |
|              | 7E-4PT-6       |                    | 7E   | 4.625                  | 0.8125                   | 62,500                             |
|              | 10E-4PT-6      |                    | 10E  | 4.625                  | 0.8125                   | 62,500                             |
|              |                |                    |      |                        |                          |                                    |
| 2.4 Max. KV  | 1E-4PT-2.4     | LCD 1E-4           | 1E   | 4.625                  | 0.8125                   | 40,000                             |
|              | 2E-4PT-2.4     | LCD 2E-4           | 2E   | 4.625                  | 0.8125                   | 40,000                             |
| 2.75 Max. KV | 1E-6PT-2.75    |                    | 1E   | 7.375                  | 1.625                    | 37,500                             |
|              | 2E-6PT-2.75    |                    | 2E   | 7.375                  | 1.625                    | 37,500                             |
|              | 3E-6PT-2.75    |                    | 3E   | 7.375                  | 1.625                    | 37,500                             |
|              | 1E-8PT-2.75    |                    | 1E   | 9.5                    | 1.625                    | 50,000                             |
|              | 2E-8PT-2.75    |                    | 2E   | 9.5                    | 1.625                    | 50,000                             |
| 4.8 Max. KV  | 1E-5PT-4.8     | LCE 1E-4           | 1E   | 5.5                    | 0.8125                   | 50,000                             |
|              | 2E-5PT-4.8     | LCE 2E-4           | 2E   | 5.5                    | 0.8125                   | 50,000                             |
| 5.5 Max. KV  | 1/2E-6PT-5.5   |                    | 1/2E | 7.375                  | 1.625                    | 37,500                             |
|              | 1E-6PT-5.5     |                    | 1E   | 7.375                  | 1.625                    | 37,500                             |
|              | 2E-6PT-5.5     |                    | 2E   | 7.375                  | 1.625                    | 37,500                             |
|              | 3E-6PT-5.5     |                    | 3E   | 7.375                  | 1.625                    | 37,500                             |
|              | 5E-6PT-5.5     |                    | 5E   | 7.375                  | 1.625                    | 37,500                             |
|              | 1/2E-8PT-5.5   | LCQ .5E            | 1/2E | 9.5                    | 1.625                    | 37,500                             |
|              | 1E-8PT-5.5     | LCQ 1E             | 1E   | 9.5                    | 1.625                    | 37,500                             |
|              | 2E-8PT-5.5     | LCQ 2E             | 2E   | 9.5                    | 1.625                    | 37,500                             |
|              | 3E-8PT-5.5     | LCQ 3E             | 3E   | 9.5                    | 1.625                    | 37,500                             |
|              | 5E-8PT-5.5     | LCQ 5E             | 5E   | 9.5                    | 1.625                    | 37,500                             |
| 8.25 Max. KV | 1/2E-8PT-8.25  |                    | 1/2E | 9.5                    | 1.625                    | 50,000                             |
|              | 1E-8PT-8.25    |                    | 1E   | 9.5                    | 1.625                    | 50,000                             |
|              | 2E-8PT-8.25    |                    | 2E   | 9.5                    | 1.625                    | 50,000                             |
|              | 3E-8PT-8.25    |                    | 3E   | 9.5                    | 1.625                    | 50,000                             |
|              |                |                    |      |                        |                          |                                    |
| 15.5 Max. KV | 1/2E-11PT-15.5 | LCT .5E            | 1/2E | 12.875                 | 1.625                    | 80,000                             |
|              | 1E-11PT-15.5   | LCT 1E             | 1E   | 12.875                 | 1.625                    | 80,000                             |
|              | 2E-11PT-15.5   | LCT 2E             | 2E   | 12.875                 | 1.625                    | 80,000                             |
|              | 3E-11PT-15.5   | LCT 3E             | 3E   | 12.875                 | 1.625                    | 80,000                             |
|              |                |                    |      |                        |                          |                                    |
| 25.5 Max. KV | 3E-16PT-15.5   |                    | 3E   | 17.5                   | 1.625                    | 80,000                             |
|              | 5E-16PT-15.5   |                    | 5E   | 17.5                   | 1.625                    | 80,000                             |
| 25.5 Max. KV | 1/2E-16PT-25.5 | LCJ 1E-4           | 1/2E | 17.5                   | 1.625                    | 43,500                             |
|              | 1E-16PT-25.5   | LCJ 2E-4           | 1E   | 17.5                   | 1.625                    | 43,500                             |

Medium Voltage Fuses



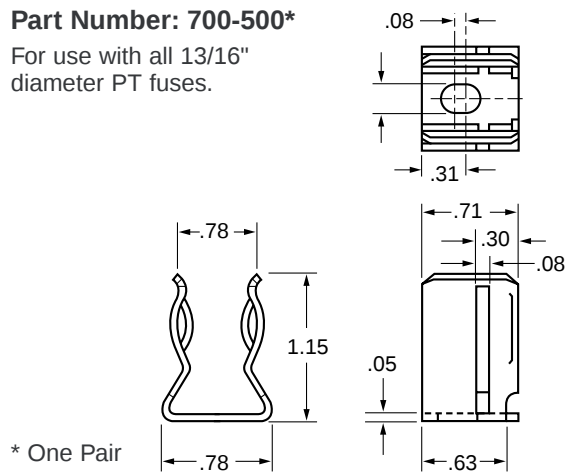
Live parts are available for mounting "E", "R", and "PT" single, double, and triple barrel fuses. Mounting clips are available for ferrule type and clip lock style fuses. All clips are sold in pairs.

Contact factory for additional live parts.



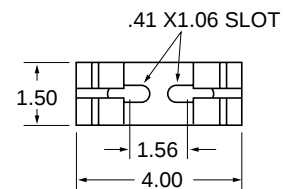
## Part Number: 700-500\*

For use with all 13/16" diameter PT fuses.



\* One Pair

## Part Number: 700-530\*



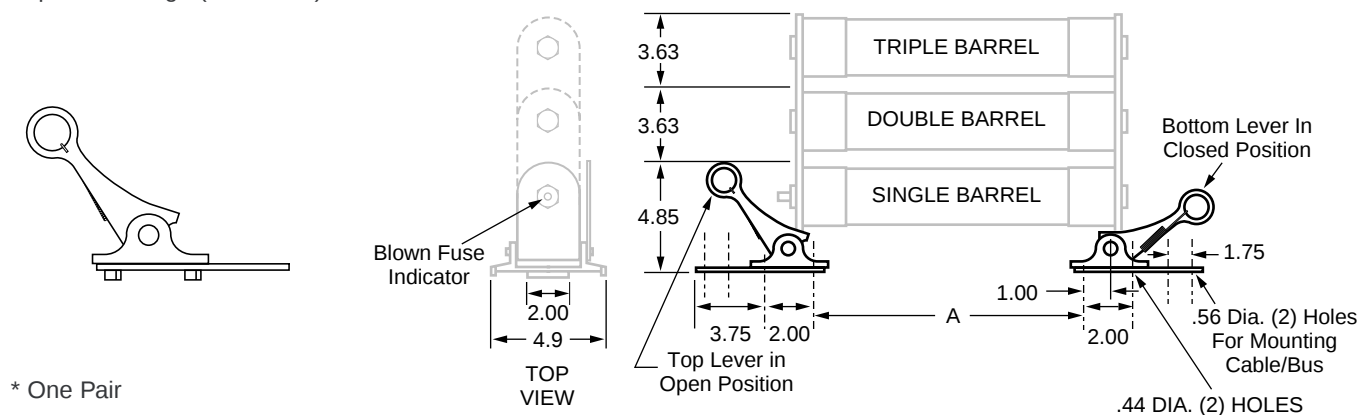
For use with all 3" diameter fuses.

\* One Pair

## Part Number: 700-520-CL\*

Clip Lock Design (For CL-14)

Mounting Details for Clip Lock



\* One Pair