

# 15.5kV E-Rated

Medium voltage fuses for feeder circuit, switchgear and transformer protection



## Description:

- The Bussmann® series of E-Rated, current-limiting, medium voltage fuses are for feeder circuit, switchgear and transformer protection.

## Features and benefits:

- Current-limiting E-Rated medium voltage fuses are defined by their melting time-current characteristic that permit their electrical interchangeability with other fuses of the same E Rating.
- E-Rated fuses must have a defined current response time specified by ANSI C37.46. E-Rated fuse of 100 amps and below must melt in 300 seconds at an RMS current within the range of 200% to 240% of the fuse's nameplate current rating. E-Rated fuses greater than 100 amps must melt in 600 seconds at an RMS current within the range of 220% to 264% of the fuse's nameplate current rating.
- E-Rated fuses are physically dimensioned for easy installation in existing hardware.
- Current-limiting fuses provide positive interruption even on low fault currents. The fuse limits the magnitude of electromechanical stresses in the protected apparatus.
- Constructions available in ferrule, bolt-on and clip-lock, and specialty mount fuses for AMPGARD™ motor starters
- Outdoor rating available on select catalog numbers (requires installation in a suitable enclosure).
- Open fuse indicator easily integrates into automation schemes and speeds troubleshooting by providing a positive visual indication of fuse operation.
- 50/60Hz operating frequency for worldwide application.
- Mountings are available in disconnect and non-disconnect versions with porcelain or glass polyester insulators.
- Live parts and end fittings available.

## Typical applications:

- Medium voltage transformer primary protection
- Medium voltage feeder circuit protection
- Medium voltage switches
- Medium voltage metal-enclosed switchgear



Powering Business Worldwide

### E-Rated medium voltage ferrule fuses

**Catalog symbols:**

- General purpose
  - 15CLE-\_E-D (long construction, 10-25A)
  - 15CLE-\_E (long construction, 15-300A)
  - 15HLE-\_E (short construction, 10-250A)
  - 15LHLE-\_E (intermediate construction, 65-300A)
- Full range (per ANSI C37.40)
  - MV155F\_

**Ratings\*:**

- Volts — 15.5kV
  - Amps — 10 to 300A
  - Interrupting ratings — 31.5 to 63kA RMS Sym.
- \* See catalog number tables for voltages, ampacities and interrupting ratings by catalog number.

**Agency information:**

- E-Rated fuses meet the performance characteristics of ANSI C37.46
- UL® Listed, Guide JEEG, File E240398. See catalog numbers.

**Dimensions (see catalog number tables for values)**



**Recommended fuseclips and holders:**

| Amp rating                               | Fuse mounting type* | Voltage BIL (kV) | Approximate dimensions - in (mm) |             |             | Catalog number                                  |                           | Live parts (including end fittings) | End fittings (disconnect only) |
|--|---------------------|------------------|----------------------------------|-------------|-------------|---|---------------------------|-------------------------------------|--------------------------------|
|  |                     |                  | Diameter                         | Clip center | Length      | Mounting (including live parts, end fittings)** | Glass-polyester insulator |                                     |                                |
| CLE                                      |                     |                  | A                                | B           | C           | Porcelain insulator                             |                           |                                     |                                |
| 15E-25E<br>Single barrel                 | Non-disconnect      | 95               | 2 (51)                           | 20 (508)    | 21.5 (546)  | 15CLE-PNM-C                                     | 15CLE-GNM-C               | CLE-NL-C                            | —                              |
|  |                     | 110              |                                  |             |             | 15CLE-HPNM-C                                    | —                         | CLE-NL-C                            | —                              |
|  | Disconnect†         | 95               |                                  |             |             | 15CLE-PDM-C                                     | 15CLE-GDM-C               | CLE-DL-C                            | CLE-DF-C                       |
|  |                     | 110              |                                  |             |             | 15CLE-HPDM-C                                    | —                         | CLE-DL-C                            | CLE-DF-C                       |
| 10E-D-25E-D<br>30E-150E<br>Single barrel | Non-disconnect      | 95               | 3 (76)                           | 20 (508)    | 23.9 (607)  | 15CLE-PNM-D                                     | 15CLE-GNM-D               | CLE-NL-D                            | —                              |
|  |                     | 110              |                                  |             |             | 15CLE-HPM-D                                     | —                         | CLE-NL-D                            | —                              |
|  | Disconnect†         | 95               |                                  |             |             | 15CLE-PDM-D                                     | 15CLE-GNM-D               | CLE-DL-D                            | CLE-DF-D                       |
|  |                     | 110              |                                  |             |             | 15CLE-HPDM-D                                    | —                         | CLE-DL-D                            | CLE-DF-D                       |
| 175E-300E<br>Double barrel               | Non-disconnect      | 110              | 3 (76)                           | 20 (508)    | 23.9 (607)  | 15CLE-PNM-E                                     | —                         | CLE-NL-E                            | —                              |
|  | Disconnect†         | 110              |                                  |             |             | 15CLE-PDM-E                                     | —                         | CLE-DL-E                            | CLE-DF-E                       |
| <b>HLE</b>                               |                     |                  |                                  |             |             |   |                           |                                     |                                |
| 10E-125E<br>Single barrel                | Non-disconnect      | 95               | 3 (76)                           | 15 (381)    | 18.9 (480)  | 15HLE-PNM-D                                     | 15HLE-GNM-D               | CLE-NL-D                            | —                              |
|  | Disconnect†         | 95               |                                  |             |             | 15HLE-PDM-D                                     | 15HLE-GDM-D               | CLE-DL-D                            | CLE-DF-D                       |
| 150E-250E<br>Double barrel               | Non-disconnect      | 95               | 3 (76)                           | 15 (381)    | 18.9 (480)  | 15HLE-PNM-E                                     | —                         | CLE-NL-E                            | —                              |
|  | Disconnect†         | 95               |                                  |             |             | 15HLE-PDM-E                                     | —                         | CLE-DL-E                            | CLE-DF-E                       |
| <b>LHLE</b>                              |                     |                  |                                  |             |             |   |                           |                                     |                                |
| 65E-150E<br>Single barrel                | Non-disconnect      | —                | 3 (76)                           | 18 (457)    | 20.53 (521) | Not available                                   | Not available             | CLE-NL-D                            | —                              |
|  | Disconnect†         | —                |                                  |             |             | Not available                                   | Not available             | CLE-DL-D                            | CLE-DF-D                       |
| 175E-300E<br>Double barrel               | Non-disconnect      | —                | 3 (76)                           | 18 (457)    | 20.53 (521) | Not available                                   | Not available             | CLE-NL-E                            | —                              |
|  | Disconnect†         | —                |                                  |             |             | Not available                                   | Not available             | CLE-DL-E                            | CLE-DF-E                       |

\* See page 10 for illustrations and dimensions

\*\* End fittings supplied only when required.

† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

**CLE, HLE and LHLE type general purpose fuses**

| Amp rating                    | Dimensions - in (mm) |            |                | Interrupting rating kA (RMS Sym.) | Number of barrels | Installation location | Catalog number |
|-------------------------------|----------------------|------------|----------------|-----------------------------------|-------------------|-----------------------|----------------|
|                               | Length A             | Diameter B | Clip centers C |                                   |                   |                       |                |
| <b>CLE Long construction</b>  |                      |            |                |                                   |                   |                       |                |
| 10                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-10E-D    |
| 15                            | 21.5 (546)           | 2 (51)     | 20 (508)       | 31.5                              | 1                 | Indoor                | 15CLE-15E*     |
| 15                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-15E-D    |
| 20                            | 21.5 (546)           | 2 (51)     | 20 (508)       | 31.5                              | 1                 | Indoor                | 15CLE-20E*     |
| 20                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-20E-D    |
| 25                            | 21.5 (546)           | 2 (51)     | 20 (508)       | 31.5                              | 1                 | Indoor                | 15CLE-25E*     |
| 25                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-25E-D    |
| 30                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-30E      |
| 40                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-40E†     |
| 50                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-50E†     |
| 65                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-65E†     |
| 80                            | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-80E†     |
| 100                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-100E†    |
| 125                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-125E†    |
| 150                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 1                 | Indoor/outdoor        | 15CLE-150E†    |
| 175                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 2                 | Indoor/outdoor        | 15CLE-175E†    |
| 200                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 2                 | Indoor/outdoor        | 15CLE-200E†    |
| 250                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 2                 | Indoor/outdoor        | 15CLE-250E†    |
| 300                           | 23.9 (607)           | 3 (76)     | 20 (508)       | 63                                | 2                 | Indoor/outdoor        | 15CLE-300E†    |
| <b>HLE Short construction</b> |                      |            |                |                                   |                   |                       |                |
| 10                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-10E      |
| 15                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-15E      |
| 20                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-20E      |
| 25                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-25E      |
| 30                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-30E      |
| 40                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-40E†     |
| 50                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-50E†     |
| 65                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-65E†     |
| 80                            | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-80E†     |
| 100                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-100E†    |
| 125                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 1                 | Indoor/outdoor        | 15HLE-125E†    |
| 150                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 2                 | Indoor/outdoor        | 15HLE-150E†    |
| 175                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 2                 | Indoor/outdoor        | 15HLE-175E†    |
| 200                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 2                 | Indoor/outdoor        | 15HLE-200E†    |
| 250                           | 18.9 (480)           | 3 (76)     | 15 (381)       | 63                                | 2                 | Indoor/outdoor        | 15HLE-250E†    |
| <b>LHLE</b>                   |                      |            |                |                                   |                   |                       |                |
| 65                            | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 1                 | Indoor/outdoor        | 15LHLE-65E     |
| 80                            | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 1                 | Indoor/outdoor        | 15LHLE-80E     |
| 100                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 1                 | Indoor/outdoor        | 15LHLE-100E    |
| 125                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 1                 | Indoor/outdoor        | 15LHLE-125E    |
| 150                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 1                 | Indoor/outdoor        | 15LHLE-150E    |
| 175                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 2                 | Indoor/outdoor        | 15LHLE-175E    |
| 200                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 2                 | Indoor/outdoor        | 15LHLE-200E    |
| 250                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 2                 | Indoor/outdoor        | 15LHLE-250E    |
| 300                           | 20.5 (521)           | 3 (76)     | 18 (457)       | 50                                | 2                 | Indoor/outdoor        | 15LHLE-300E    |

\* Fuses conform to dimensional standards established by Westinghouse.

† UL Listed, Guide JEEG, File E240398.



15.5kV Time-current curves – minimum melt for MV155 2 inch diameter fuses



MV155\_ (2 inch diameter)

15.5kV time-current curves — total clear for MV155\_ 2 inch diameter fuses



MV155\_ (2 inch diameter)

15.5kV time-current curves – minimum melt for MV155\_ 3 inch diameter fuses



15.5kV time-current curves — total clear for MV155\_ 3 inch diameter fuses



MV155\_ (3 inch diameter)

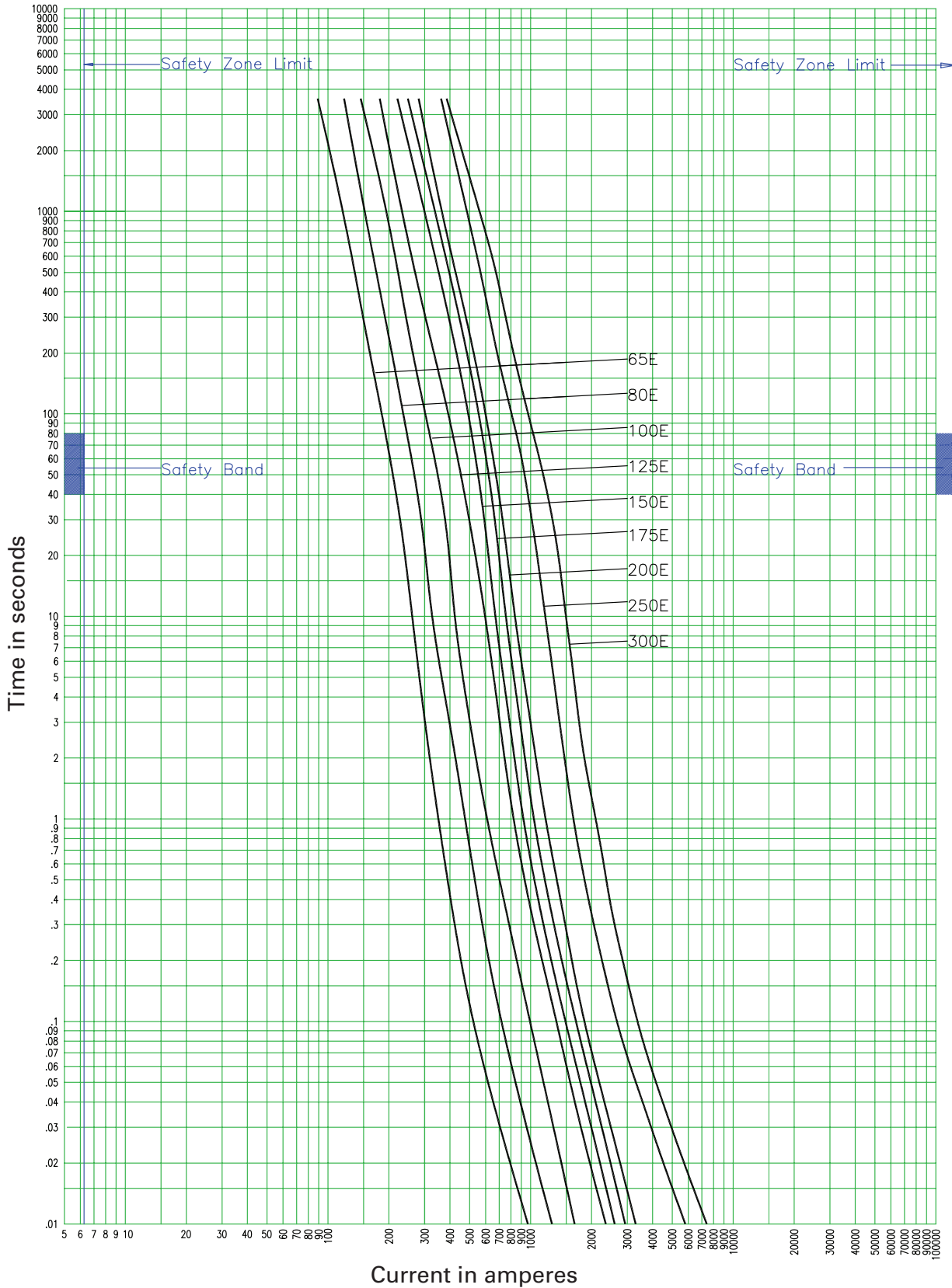


15.5kV peak let-through for MV155\_ 2 and 3 inch diameter fuses



MV155\_ (2 and 3 inch diameter)

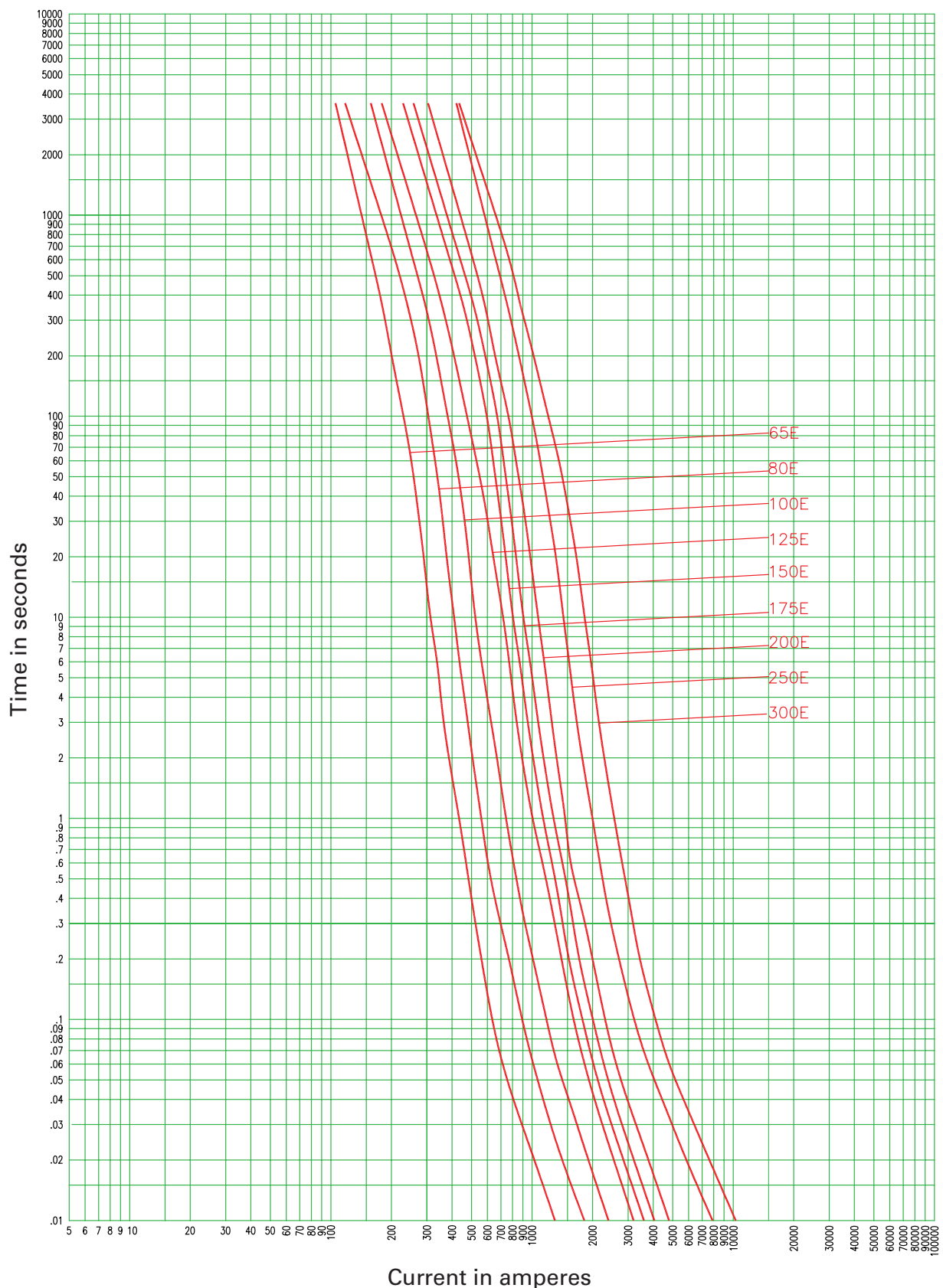
15.5kV time-current curves — minimum melt for 15LHLE\_ 3 inch diameter fuses



15LHLE\_ (3 inch diameter)

Curve TC66703203  
April 2011

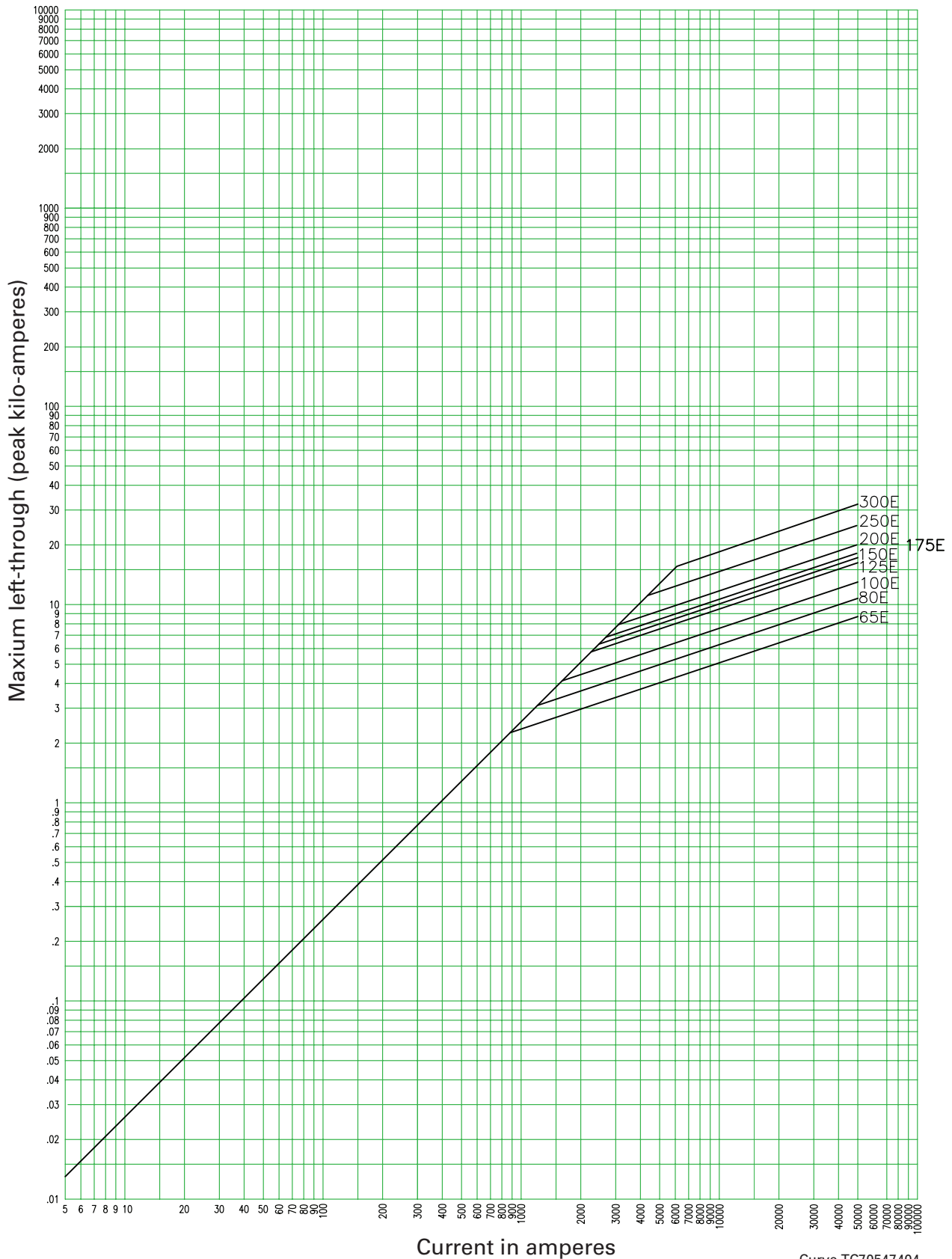
15.5kV time-current curves — total clear for 15LHLE\_ 3 inch diameter fuses



15LHLE\_ (3 inch diameter)

Curve TC66703303  
April 2011

15.5kV peak let-through for 15LHLE\_ 3 inch diameter fuses



15LHLE\_ (3 inch diameter)

Curve TC70547404  
April 2011

**CLE and HLE type mountings - in (mm)**

| Catalog number                      | Hole centers  |           | Overall length<br>C | Hole Inset<br>D | Hole centers<br>E | Contact height<br>F | Overall height<br>G | BIL<br>kV |
|-------------------------------------|---------------|-----------|---------------------|-----------------|-------------------|---------------------|---------------------|-----------|
|                                     | A             | B         |                     |                 |                   |                     |                     |           |
| <b>Disconnect single barrel†</b>    |               |           |                     |                 |                   |                     |                     |           |
| 15CLE-GDM-C                         | 21.24 (539.5) | 6 (152.4) | 34 (863.6)          | 0.75 (19.0)     | 1.75 (44.4)       | 7 (177.8)           | 12.25 (311.1)       | 95        |
| 15CLE-GDM-D                         | 21.15 (537.2) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.22 (361.2)       | 95        |
| 15CLE-PDM-C                         | 21.24 (539.5) | 6 (152.4) | 34 (863.6)          | 0.75 (19.0)     | 1.75 (44.4)       | 7 (177.8)           | 12.25 (311.1)       | 95        |
| 15CLE-PDM-D                         | 21.15 (537.2) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.22 (361.2)       | 95        |
| 15CLE-HPDM-C                        | 21.24 (539.5) | 6 (152.4) | 34 (863.6)          | 0.75 (19.0)     | 1.75 (44.4)       | 8.5 (215.9)         | 13.75 (349.2)       | 110       |
| 15CLE-HPDM-D                        | 21.15 (537.2) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 8.5 (215.9)         | 15.72 (399.3)       | 110       |
| 15HLE-GDM-D                         | 16.25 (412.8) | 6 (152.4) | 25 (647.7)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.22 (361.2)       | 95        |
| 15HLE-PDM-D                         | 16.25 (412.8) | 6 (152.4) | 25 (647.7)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.22 (361.2)       | 95        |
| <b>Disconnect double barrel†</b>    |               |           |                     |                 |                   |                     |                     |           |
| 15CLE-PDM-E                         | 21.15 (537.2) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 8.5 (215.9)         | 19.28 (489.7)       | 95        |
| 15HLE-GDM-E                         | 16.25 (412.8) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 17.78 (451.6)       | 95        |
| 15HLE-PDM-E                         | 16.25 (412.8) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 17.78 (451.6)       | 95        |
| <b>Non-disconnect single barrel</b> |               |           |                     |                 |                   |                     |                     |           |
| 15CLE-GNM-C                         | 21.25 (539.7) | 6 (152.4) | 30.5 (774.7)        | 0.75 (19.0)     | 1.75 (44.4)       | 7 (177.8)           | 9.75 (247.6)        | 95        |
| 15CLE-PNM-C                         | 21.25 (539.7) | 6 (152.4) | 30.5 (774.7)        | 0.75 (19.0)     | 1.75 (44.4)       | 7 (177.8)           | 9.75 (247.6)        | 95        |
| 15CLE-HPNM-C                        | 21.25 (539.7) | 6 (152.4) | 30.5 (774.7)        | 0.75 (19.0)     | 1.75 (44.4)       | 8.5 (215.9)         | 11.25 (285.7)       | 110       |
| 15CLE-GNM-D                         | 21.15 (539.7) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 11.29 (286.7)       | 95        |
| 15CLE-PNM-D                         | 21.15 (539.7) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 11.29 (286.7)       | 95        |
| 15CLE-HPNM-D                        | 21.15 (539.7) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 8.5 (215.9)         | 12.79 (286.7)       | 110       |
| 15HLE-GNM-D                         | 16.25 (412.7) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 11.29 (286.7)       | 95        |
| 15HLE-PNM-D                         | 16.25 (412.7) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 11.29 (286.7)       | 95        |
| <b>Non-disconnect double barrel</b> |               |           |                     |                 |                   |                     |                     |           |
| 15CLE-PNM-E                         | 21.15 (539.7) | 6 (152.4) | 31 (787.4)          | 0.62 (15.7)     | 1.75 (44.4)       | 8.5 (215.9)         | 14.98 (380.5)       | 95        |
| 15HLE-GNM-E                         | 16.25 (412.7) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.98 (380.5)       | 95        |
| 15HLE-PNM-E                         | 16.25 (412.7) | 6 (152.4) | 25 (635)            | 0.62 (15.7)     | 1.75 (44.4)       | 7 (177.8)           | 14.98 (380.5)       | 95        |

**CLE and HLE type disconnect mounting†**



**CLE and HLE type non-disconnect mounting**



† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

**E-Rated medium voltage specialty mount fuses**

**Catalog symbols:**

- 15BHLE\_E (bolt-on version)
- 15HCL\_E (clip-lock version)

**Ratings\*:**

- Volts
  - 15.5kV
- Amps
  - 10 to 300A
- Interrupting ratings
  - 50 to 63kA RMS Sym

\* See catalog number tables for voltages, ampacities and interrupting ratings by catalog number.

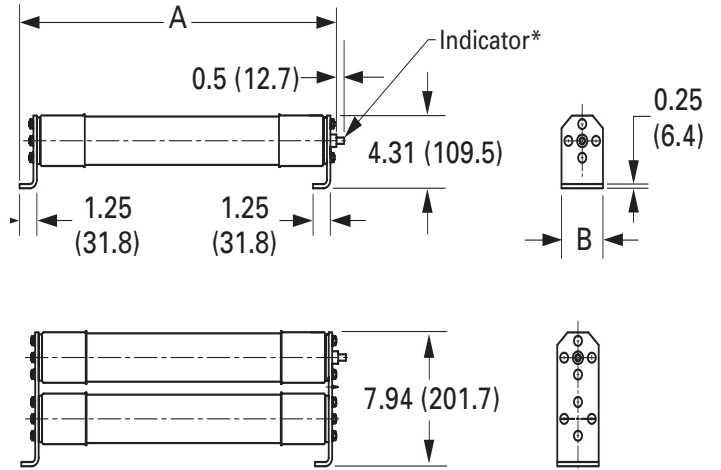
**Agency information:**

- E-Rated fuses meet the performance characteristics of ANSI C37.46

**Recommended live parts for clip-lock fuses**

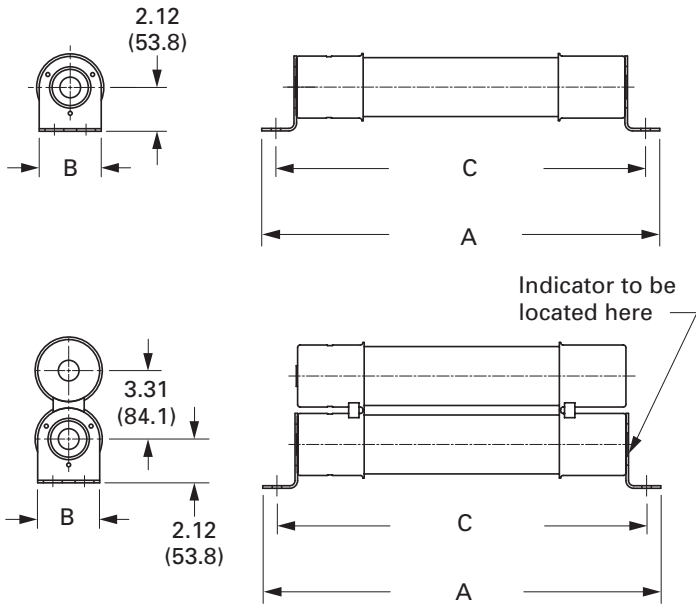
- Catalog number HCL-NL-1

**HCL**



**Dimensions - in (mm)**

**BHLE**



**BHCL, BHLE and HCL Type fuses**

| Amp rating                   | Dimensions - in (mm) |            |                | Interrupting rating kA (RMS Sym.) | Number of barrels | Installation location | Catalog number |
|------------------------------|----------------------|------------|----------------|-----------------------------------|-------------------|-----------------------|----------------|
|                              | Length A             | Diameter B | Hole centers C |                                   |                   |                       |                |
| <b>BHCL and BHLE bolt-on</b> |                      |            |                |                                   |                   |                       |                |
| 10                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-10E     |
| 15                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-15E     |
| 20                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-20E     |
| 25                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-25E     |
| 30                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-30E     |
| 40                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-40E†    |
| 50                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-50E†    |
| 65                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-65E†    |
| 80                           | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-80E†    |
| 100                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-100E†   |
| 125                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 1                 | Indoor/outdoor        | 15BHLE-125E†   |
| 150                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 2                 | Indoor/outdoor        | 15BHLE-150E†   |
| 175                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 2                 | Indoor/outdoor        | 15BHLE-175E†   |
| 200                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 2                 | Indoor/outdoor        | 15BHLE-200E†   |
| 250                          | 22.2 (563)           | 3 (76)     | 20.9 (531)     | 63                                | 2                 | Indoor/outdoor        | 15BHLE-250E†   |
| 300                          | 25.1 (637)           | 3 (76)     | 23.7 (602)     | 50                                | 2                 | Indoor                | 15BHCL-300E    |
| 400                          | 25.1 (637)           | 3 (76)     | 23.7 (602)     | 50                                | 3                 | Indoor                | 15BHCL-400E    |
| <b>HCL clip-lock</b>         |                      |            |                |                                   |                   |                       |                |
| 10                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-10E      |
| 15                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-15E      |
| 20                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-20E      |
| 25                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-25E      |
| 30                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-30E      |
| 40                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-40E†     |
| 50                           | 22.8 (579)           | 3 (76)     | N/A            | 63                                | 1                 | Indoor                | 15HCL-50E†     |
| 65                           | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 1                 | Indoor                | 15HCL-65E†     |
| 80                           | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 1                 | Indoor                | 15HCL-80E†     |
| 100                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 1                 | Indoor                | 15HCL-100E†    |
| 125                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 1                 | Indoor                | 15HCL-125E†    |
| 150                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 2                 | Indoor                | 15HCL-150E†    |
| 200                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 2                 | Indoor                | 15HCL-200E†    |
| 250                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 2                 | Indoor                | 15HCL-250E†    |
| 300                          | 22.8 (579)           | 3 (76)     | N/A            | 50                                | 2                 | Indoor                | 15HCL-300E†    |

† UL Listed, Guide JEEG, File E240398.

15.5kV time-current curves — minimum melt for 15CLE-\_E and 15CLE\_-\_D



15CLE-\_

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| Curve 70548501     | Curve 70546801     | Curve 70547001     |
| April 16, 1999     | April 1999         | April 1999         |
| Reference # 563532 | Reference # 705468 | Reference # 705470 |



15.5kV time-current curves — total clear for 15CLE-\_E and 15CLE\_-\_D



15CLE-\_

Current in amperes

Curve 70548601

April 16, 1999

Reference # 563533

Curve 70546901

April 1999

Reference # 705469

Curve 70547101

April 1999

Reference # 705471

15.5kV peak let-through for 15CLE-\_E and 15CLE-\_D



15CLE-\_

Curve 70548802  
 September 1999  
 Reference # 705488

Curve 70547501  
 September 1999  
 Reference # 705475

15.5kV time-current curves – minimum melt for 15HLE-\_E and 15BHLE-\_E



15HLE-\_, 15BHLE-\_

Curve 70548507  
April 16, 1999  
Reference # 563532

Curve 70546601  
April 1999  
Reference # 705466



15.5kV peak let-through for 15HLE-\_E and 15BHLE-\_E



15HLE-\_, 15BHLE-\_

Curve 70548805      Curve 70547401  
September 1999      September 1999  
Reference # 705488      Reference # 705474

15.5kV time-current curves – minimum melt for 15HCL\_E



15HCL\_

Curve 70548503 January 2001    Curve 66703201 January 2001

15.5kV time-current curves — total clear for 15HCL-\_E



15HCL-\_

Curve 70548603    Curve 66703301  
January 2001        January 2001

15.5kV peak let-through for 15HCL\_E



15HCL\_

Curve 70548803 January 2001  
 Curve 70547402 January 2001



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