

# 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\*:

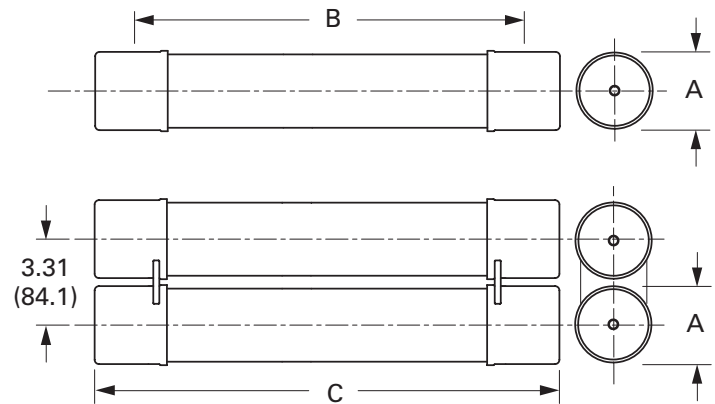
- Volts — 15.5kV
- Amps — 10 to 300A
- Interrupting ratings — 31.5 to 63kA RMS Sym.

\* 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:

|                                          |                           |                     |                                  |             |             | Catalog number                                     |                              |                                           |                                      |
|------------------------------------------|---------------------------|---------------------|----------------------------------|-------------|-------------|----------------------------------------------------|------------------------------|-------------------------------------------|--------------------------------------|
|                                          |                           |                     |                                  |             |             | Mounting<br>(including live parts, end fittings)** |                              | Live parts<br>(including<br>end fittings) | End fittings<br>(disconnect<br>only) |
| Amp rating                               | Fuse<br>mounting<br>type* | Voltage<br>BIL (kV) | Approximate dimensions - in (mm) |             |             | Porcelain insulator                                | Glass-polyester<br>insulator |                                           |                                      |
|                                          |                           |                     | Diameter                         | Clip center | Length      |                                                    |                              |                                           |                                      |
| CLE                                      |                           |                     |                                  |             |             |                                                    |                              |                                           |                                      |
| 15E-25E<br>Single barrel                 | Non-<br>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-<br>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-<br>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                             |
| HLE                                      |                           |                     |                                  |             |             |                                                    |                              |                                           |                                      |
| 10E-125E<br>Single barrel                | Non-<br>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-<br>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                             |
| LHLE                                     |                           |                     |                                  |             |             |                                                    |                              |                                           |                                      |
| 65E-150E<br>Single barrel                | Non-<br>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-<br>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<br>rating kA<br>(RMS Sym.) | Number of<br>barrels | Installation<br>location | Catalog<br>number |
|------------------------|----------------------|---------------|-------------------|-----------------------------------------|----------------------|--------------------------|-------------------|
|                        | Length<br>A          | Diameter<br>B | Clip centers<br>C |                                         |                      |                          |                   |
| CLE Long construction  |                      |               |                   |                                         |                      |                          |                   |
| 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†       |
| HLE Short construction |                      |               |                   |                                         |                      |                          |                   |
| 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†       |
| LHLE                   |                      |               |                   |                                         |                      |                          |                   |
| 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.

MV155F\_ full range

| Amp rating | Dimensions - in (mm) |            |                | Interrupting<br>rating kA<br>(RMS Sym.) | Number of<br>barrels | Installation<br>location | Catalog number |
|------------|----------------------|------------|----------------|-----------------------------------------|----------------------|--------------------------|----------------|
|            | Length A             | Diameter B | Clip centers C |                                         |                      |                          |                |
| 5          | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX5E   |
| 7          | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX7E   |
| 10         | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX10E  |
| 10         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX10E  |
| 15         | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX15E  |
| 15         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX15E  |
| 20         | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX20E  |
| 20         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX20E  |
| 25         | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX25E  |
| 25         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX25E  |
| 30         | 18.7 (475)           | 2 (51)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1CBX30E  |
| 30         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX30E  |
| 40         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX40E  |
| 50         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX50E  |
| 65         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX65E  |
| 65         | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 1                    | Indoor                   | MV155F1DCX65E  |
| 80         | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX80E  |
| 80         | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 1                    | Indoor                   | MV155F1DCX80E  |
| 100        | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 1                    | Indoor                   | MV155F1DBX100E |
| 100        | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 1                    | Indoor                   | MV155F1DCX100E |
| 125        | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 2                    | Indoor                   | MV155F2DBX125E |
| 125        | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 2                    | Indoor                   | MV155F2DCX125E |
| 150        | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 2                    | Indoor                   | MV155F2DBX150E |
| 150        | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 2                    | Indoor                   | MV155F2DCX150E |
| 175        | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 2                    | Indoor                   | MV155F2DBX175E |
| 175        | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 2                    | Indoor                   | MV155F2DCX175E |
| 200        | 18.7 (475)           | 3 (76)     | 15 (381)       | 50                                      | 2                    | Indoor                   | MV155F2DBX200E |
| 200        | 21.7 (551)           | 3 (76)     | 18 (457)       | 50                                      | 2                    | Indoor                   | MV155F2DCX200E |

Recommended MV155 fuseclips:

| Description                  | Fuse<br>diameter -<br>in (mm) | Figure | Clip dimensions - in (mm) |           |           |           |            |           |          | Catalog<br>number |
|------------------------------|-------------------------------|--------|---------------------------|-----------|-----------|-----------|------------|-----------|----------|-------------------|
|                              |                               |        | A                         | B         | C         | D         | E          | F         | G        |                   |
| Enclosed fuseclip            | 2 (51)                        | 1      | 3.75 (95)                 | 1.98 (50) | 2.01 (51) | 1.19 (30) | 4.54 (115) | 1.51 (38) | 0.4 (10) | A3354710*         |
| Enclosed fuseclip            | 3 (76)                        | 1      | 4.14 (105)                | 2.45 (62) | 3.01 (76) | 1.19 (30) | 5.64 (143) | 1.51 (38) | 0.4 (10) | A3354730*         |
| Open fuseclip                | 3 (76)                        | 2      | See dimensions drawing    |           |           |           |            |           |          | 1A0065            |
| Spring loaded open fuse-clip | 3 (76)                        | 3      | See dimensions drawing    |           |           |           |            |           |          | 9078A67G04        |

\*For single barrel applications only. Not sold in pairs.

Figure 1

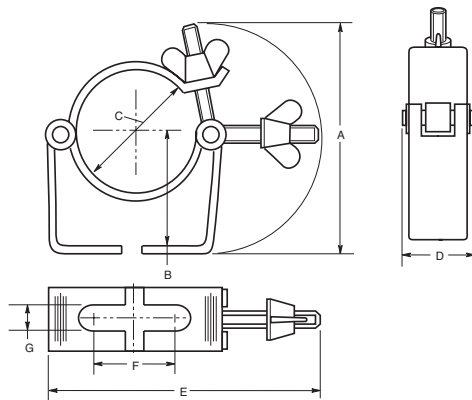


Figure 2

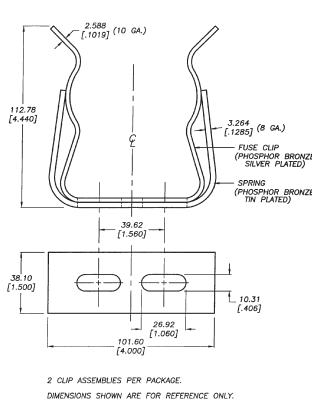
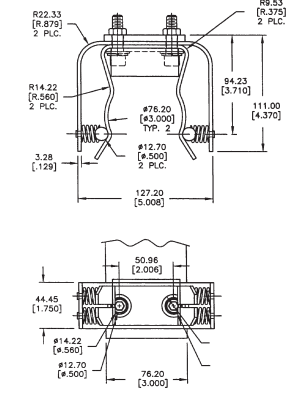
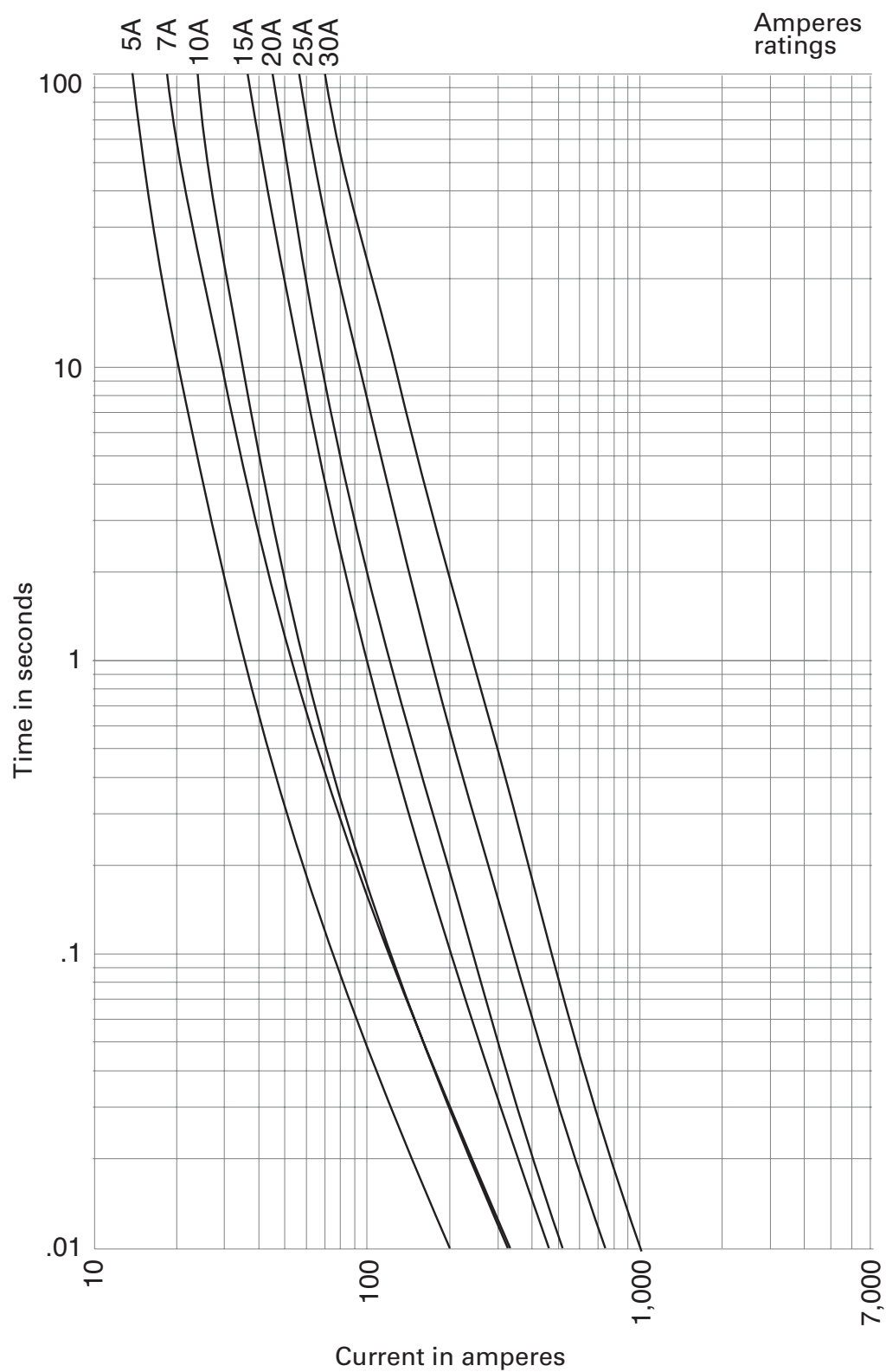


Figure 3

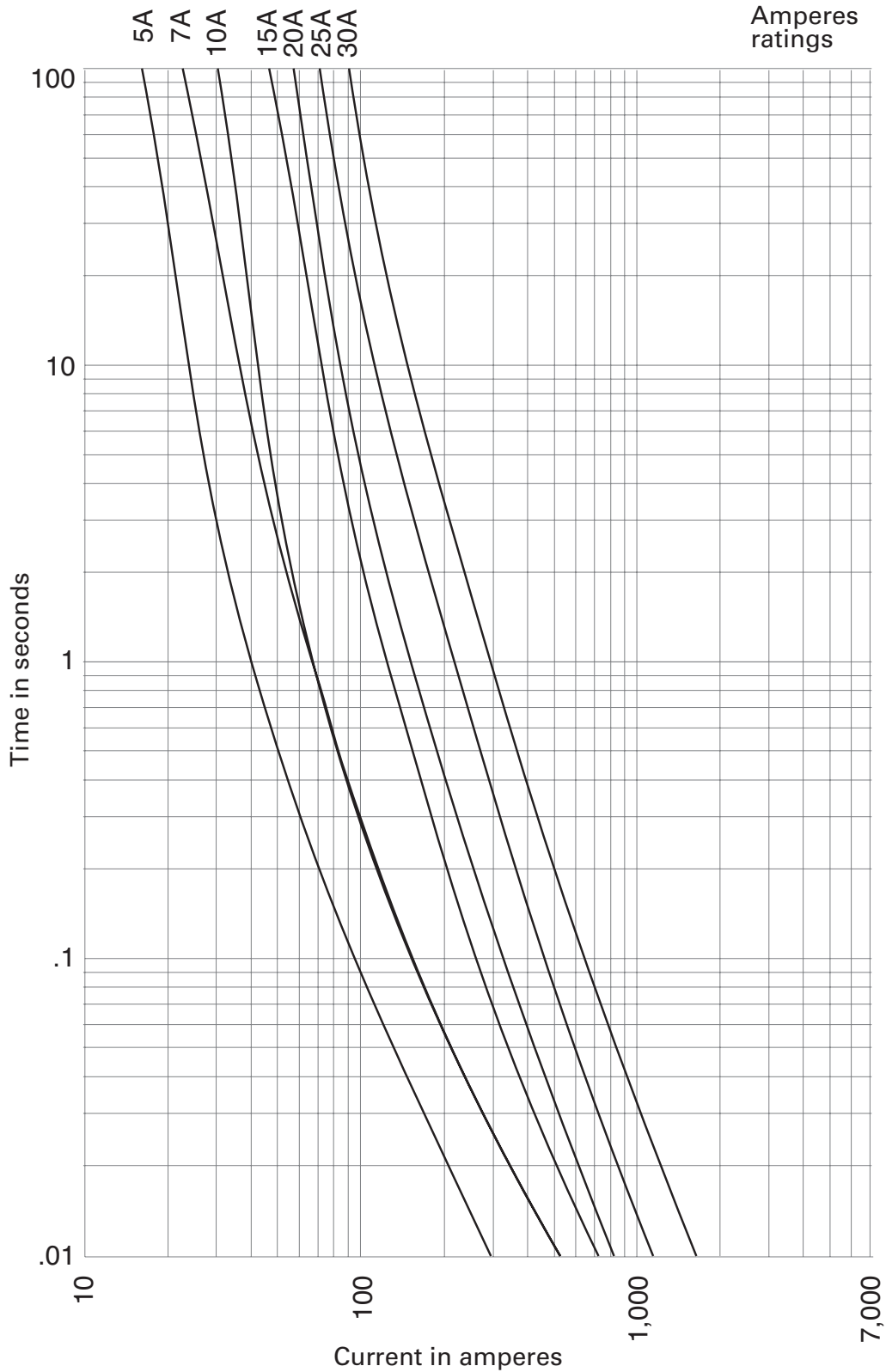


15.5kV Time-current curves — minimum melt for MV155 2 inch diameter fuses



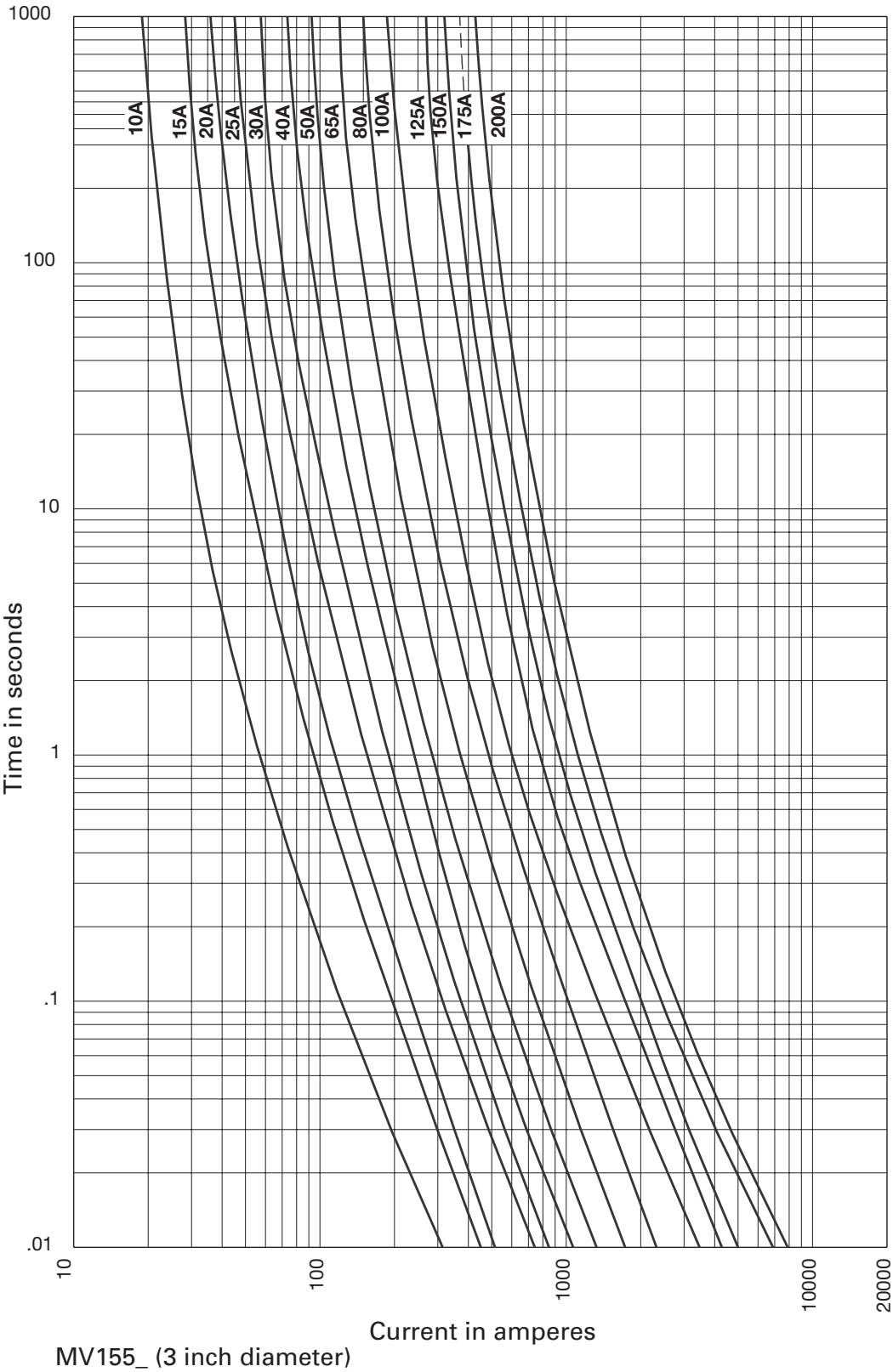
MV155\_ (2 inch diameter)

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

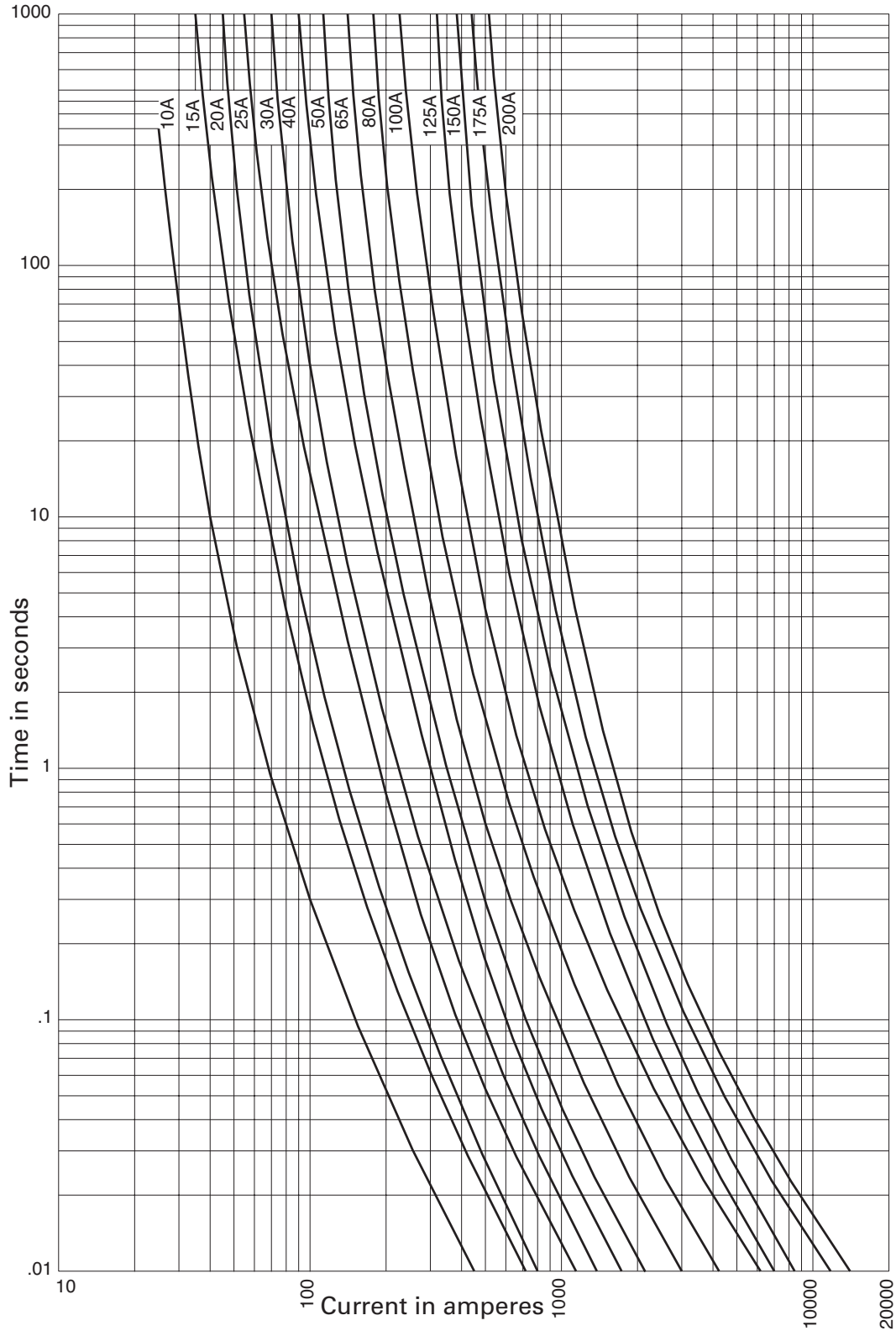


MV155\_ (2 inch diameter)

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

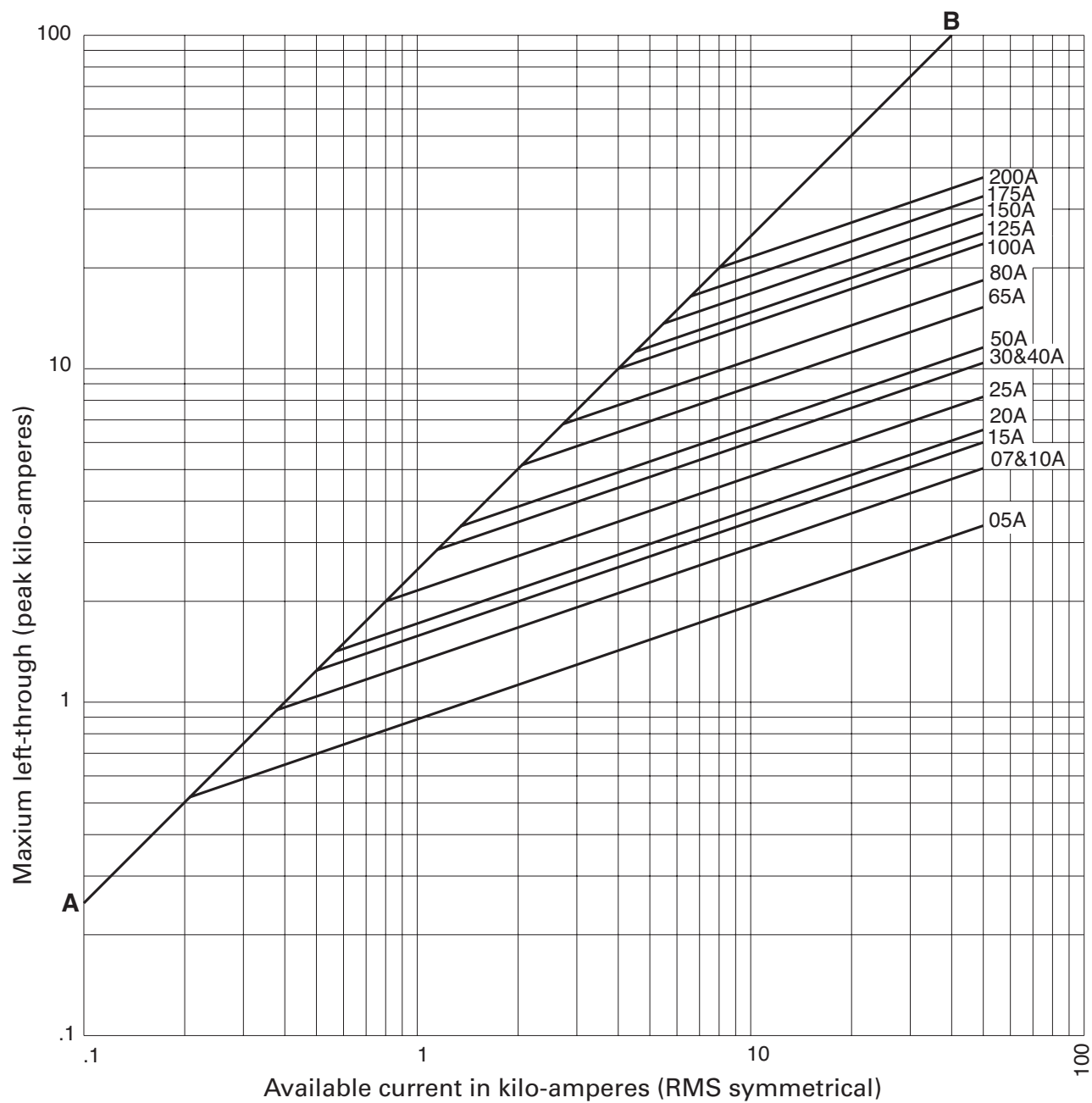


15.5kV time-current curves — total clear for MV155\_ 3 inch diameter fuses



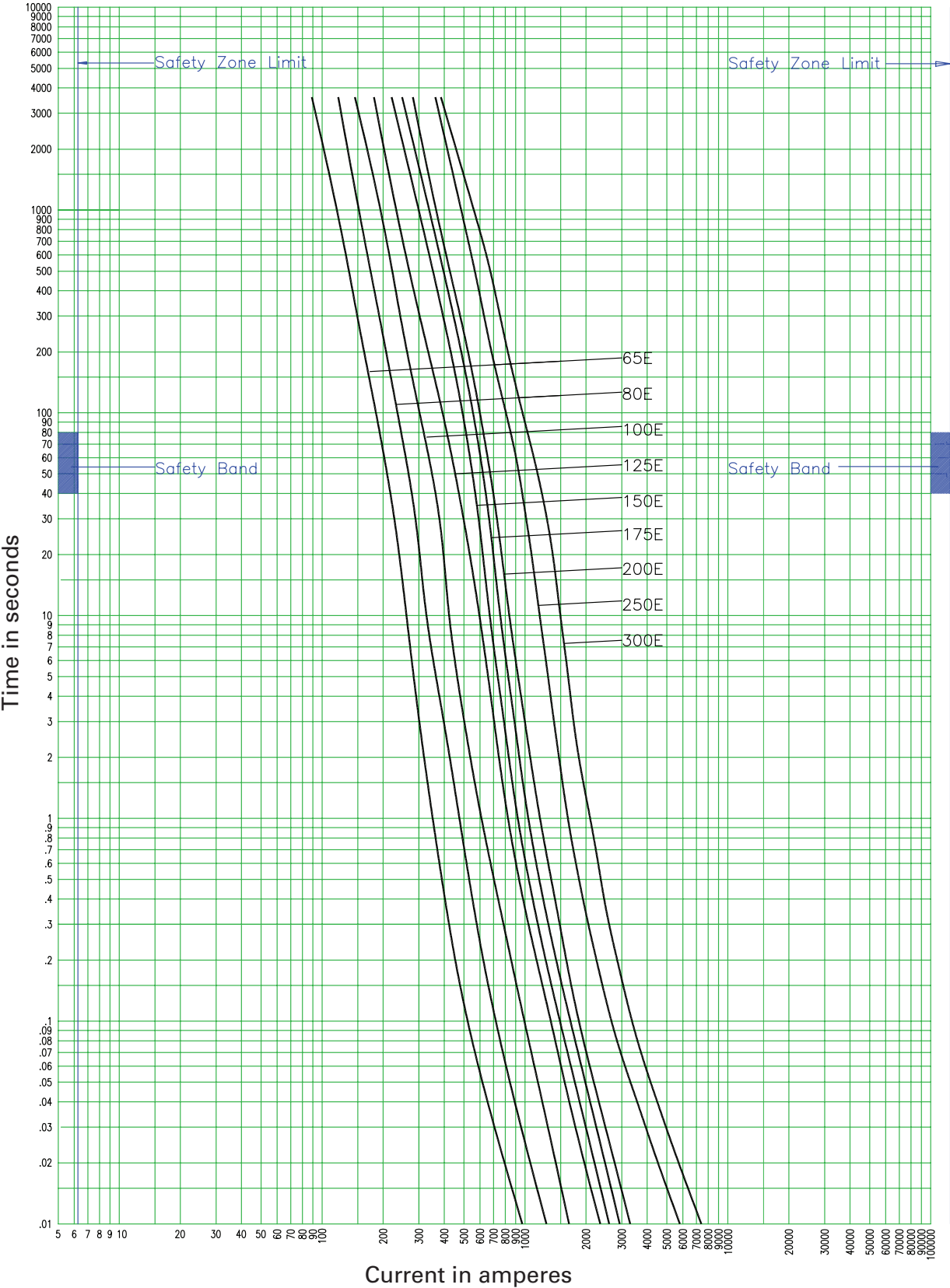
MV155\_ (3 inch diameter)

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



MV155\_ (2 and 3 inch diameter)

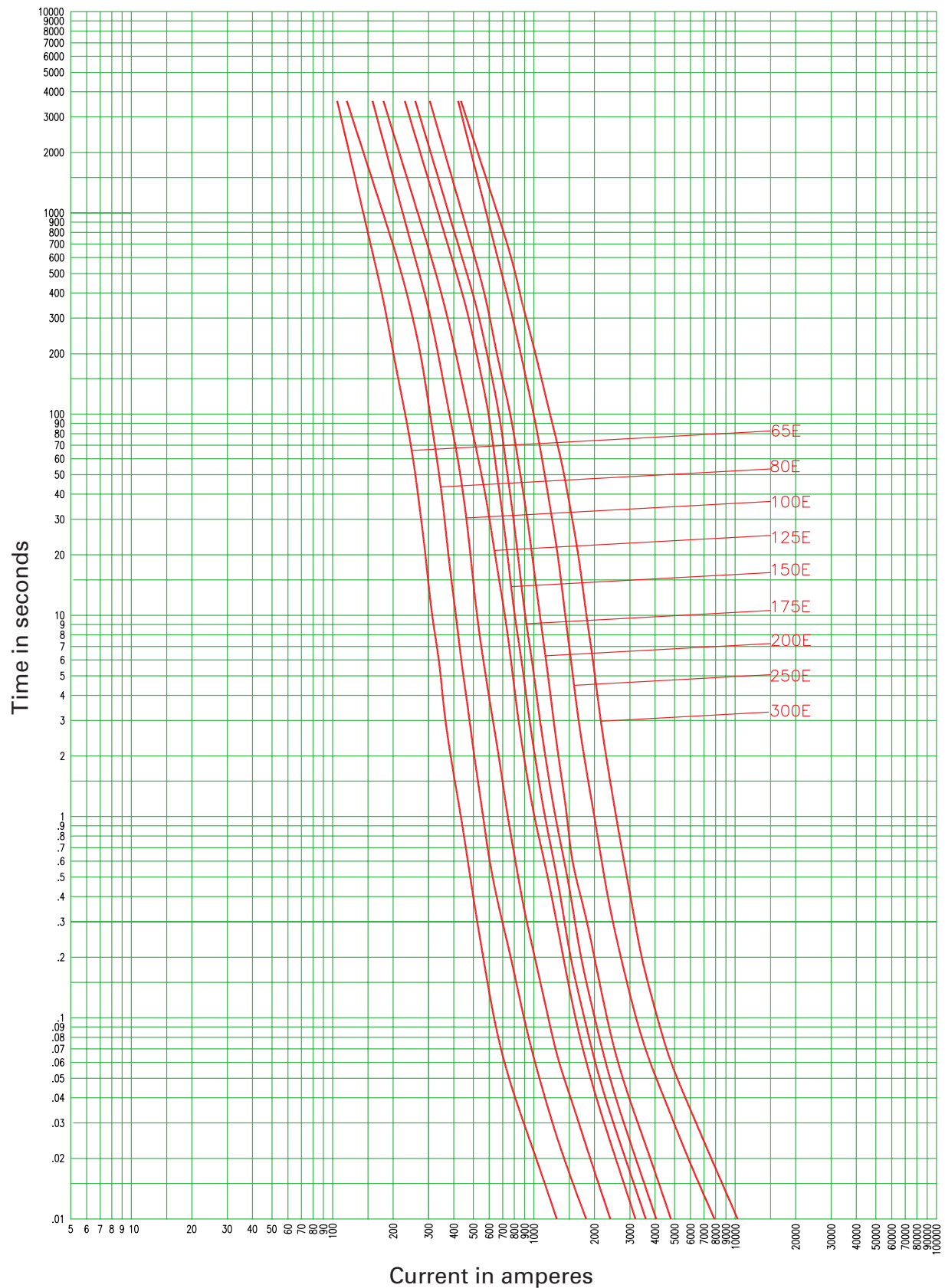
15.5kV time-current curves — minimum melt for 15LHLE\_ 3 inch diameter fuses



15LHLE\_ (3 inch diameter)

Curve TC66703203  
April 2011

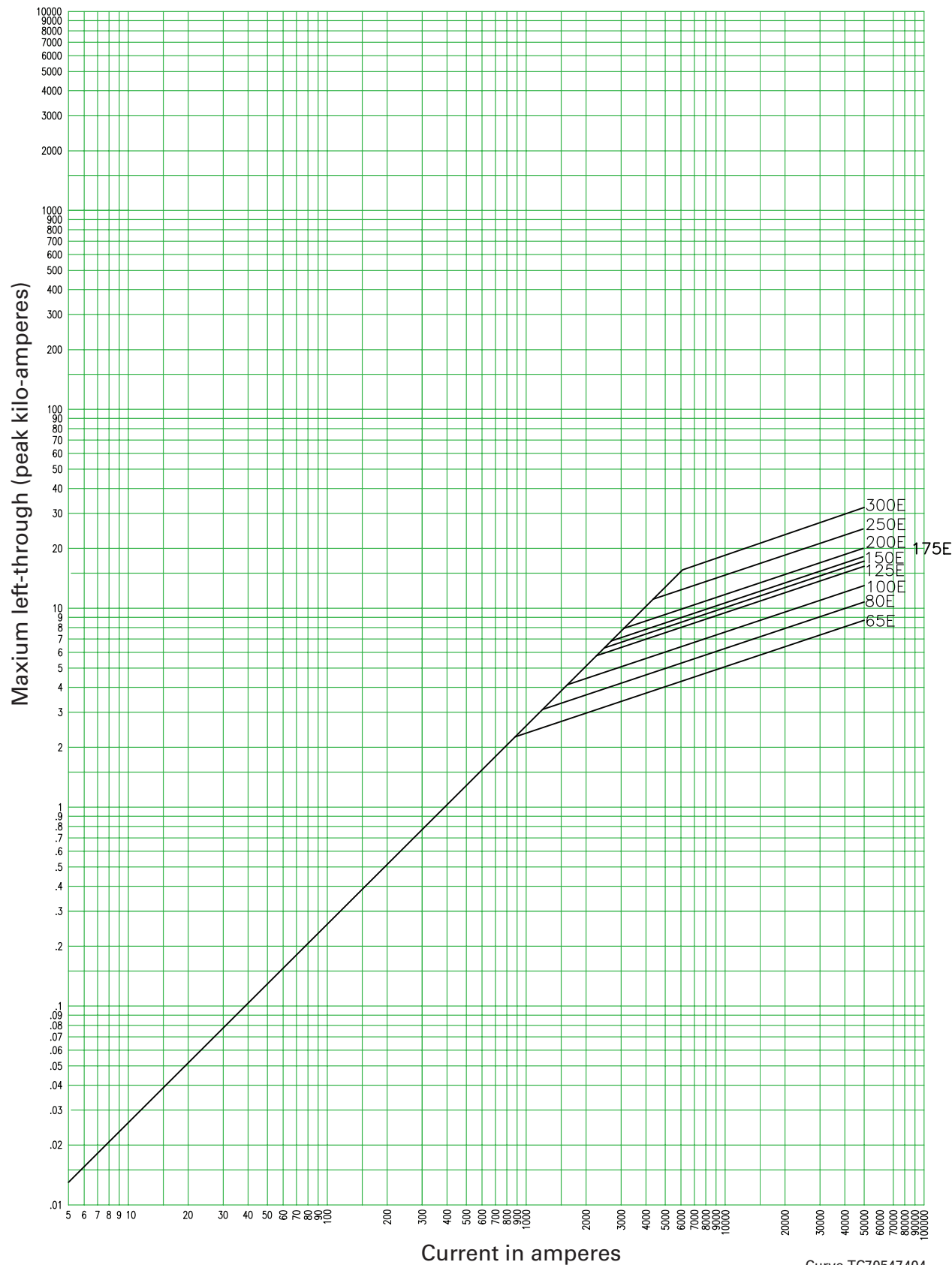
15.5kV time-current curves — total clear for 15LHLE\_ 3 inch diameter fuses



15LHLE\_ (3 inch diameter)

Curve TC66703303  
April 2011

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



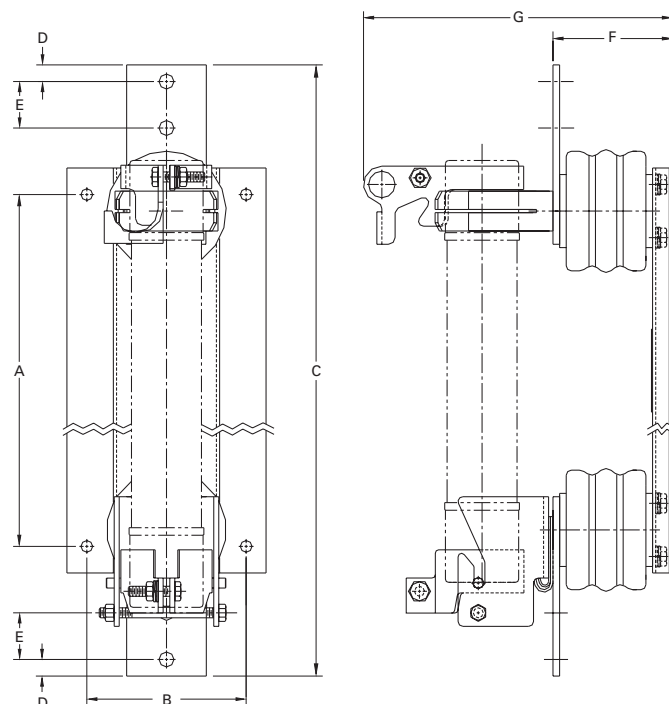
15LHLE\_ (3 inch diameter)

Curve TC70547404  
April 2011

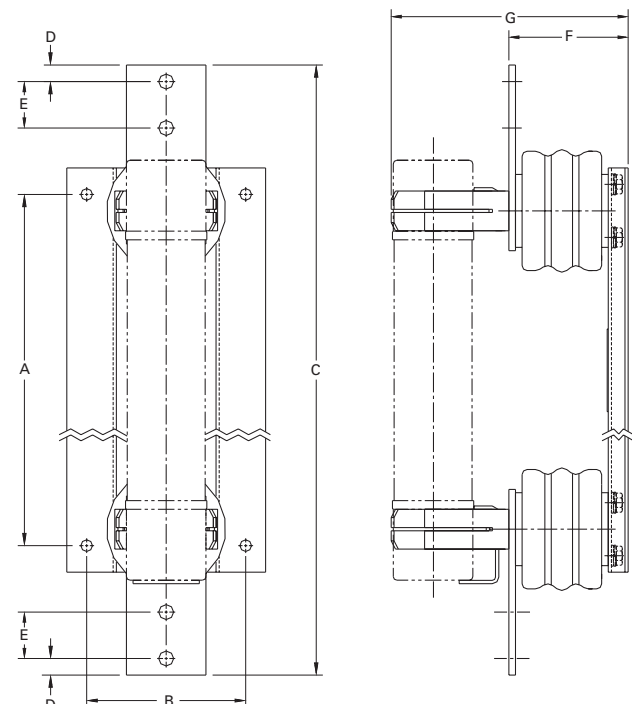
**CLE and HLE type mountings - in (mm)**

| Catalog number               | Hole centers  |           | Overall length | Hole Inset  | Hole centers | Contact height | Overall height | BIL kV |
|------------------------------|---------------|-----------|----------------|-------------|--------------|----------------|----------------|--------|
|                              | A             | B         |                |             |              |                |                |        |
| Disconnect single barrel†    |               |           |                |             |              |                |                |        |
| 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     |
| Disconnect double barrel†    |               |           |                |             |              |                |                |        |
| 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     |
| Non-disconnect single barrel |               |           |                |             |              |                |                |        |
| 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     |
| Non-disconnect double barrel |               |           |                |             |              |                |                |        |
| 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.

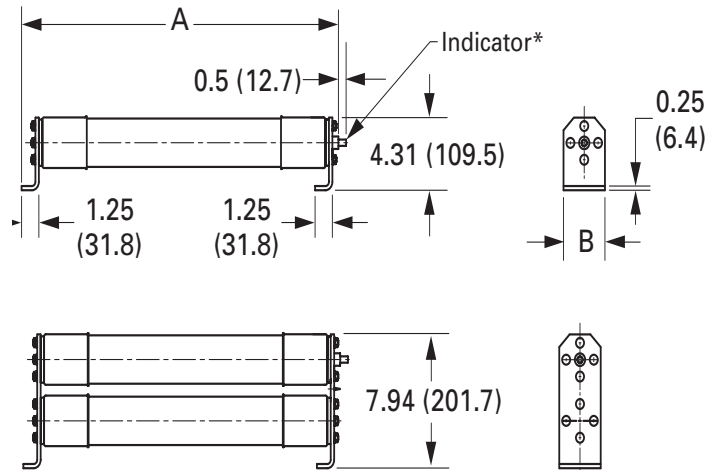
### Agency information:

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

### Recommended live parts for clip-lock fuses

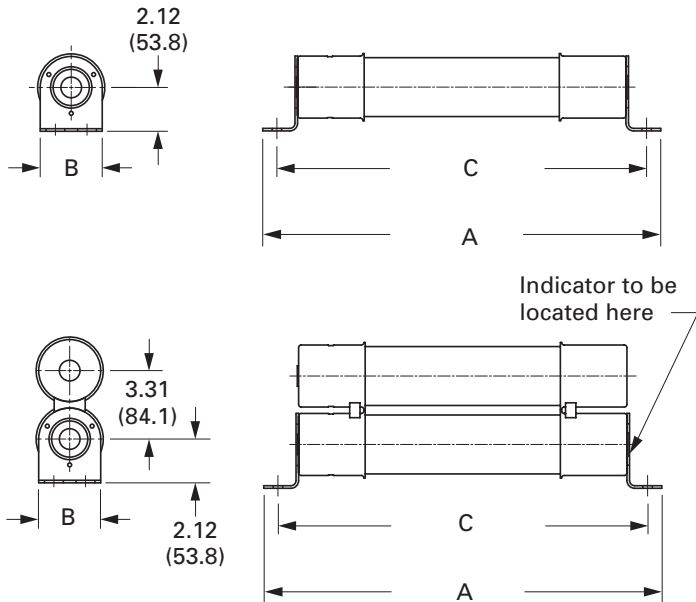
- Catalog number HCL-NL-1

HCL



## Dimensions - in (mm)

BHLE

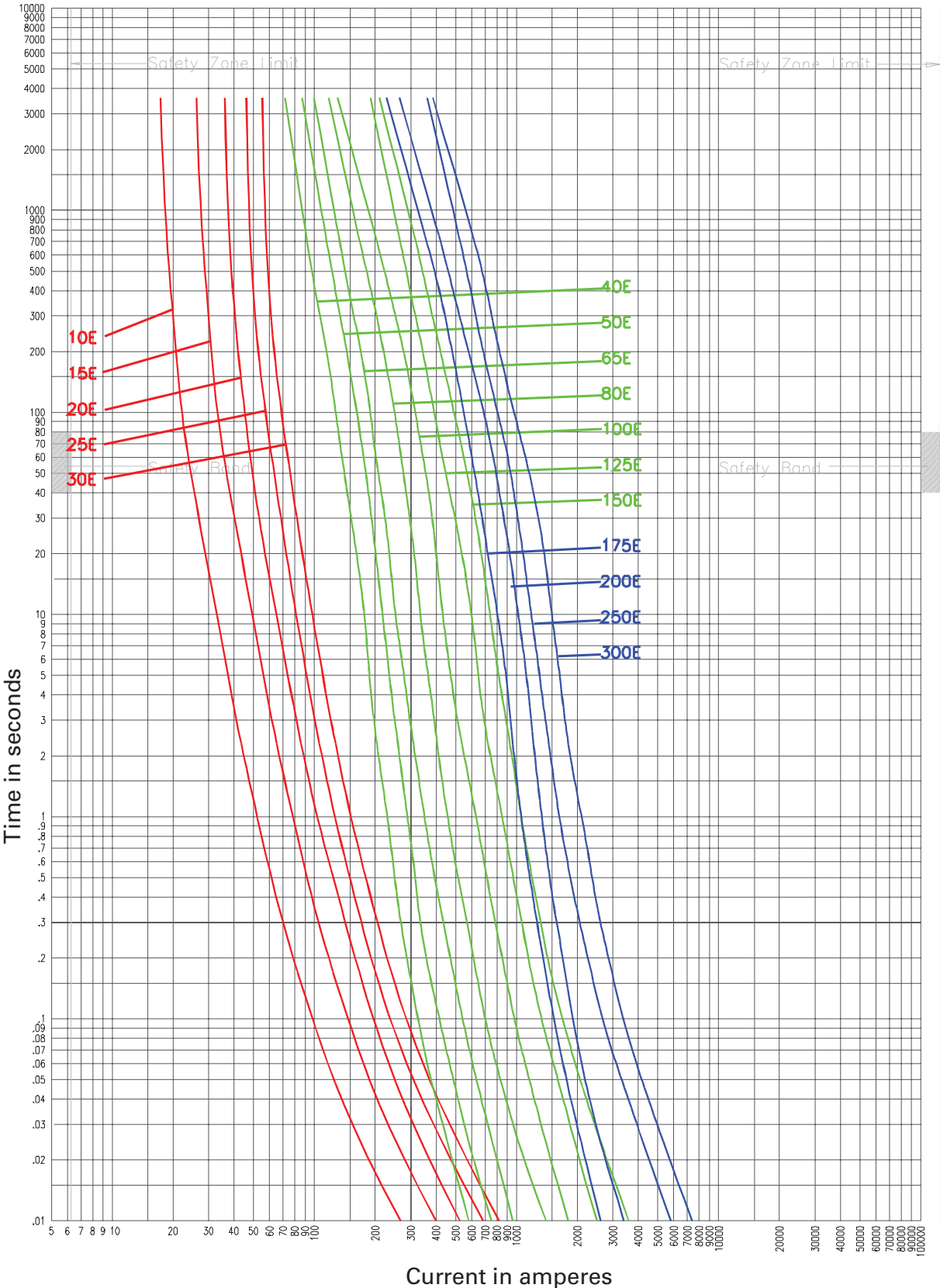


**BHCL, BHLE and HCL Type fuses**

| Dimensions - in (mm)  |            |            |                | Interrupting<br>rating kA<br>(RMS Sym.) | Number of<br>barrels | Installation<br>location | Catalog number |
|-----------------------|------------|------------|----------------|-----------------------------------------|----------------------|--------------------------|----------------|
| Amp rating            | Length A   | Diameter B | Hole centers C |                                         |                      |                          |                |
| BHCL and BHLE bolt-on |            |            |                |                                         |                      |                          |                |
| 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    |
| HCL clip-lock         |            |            |                |                                         |                      |                          |                |
| 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.

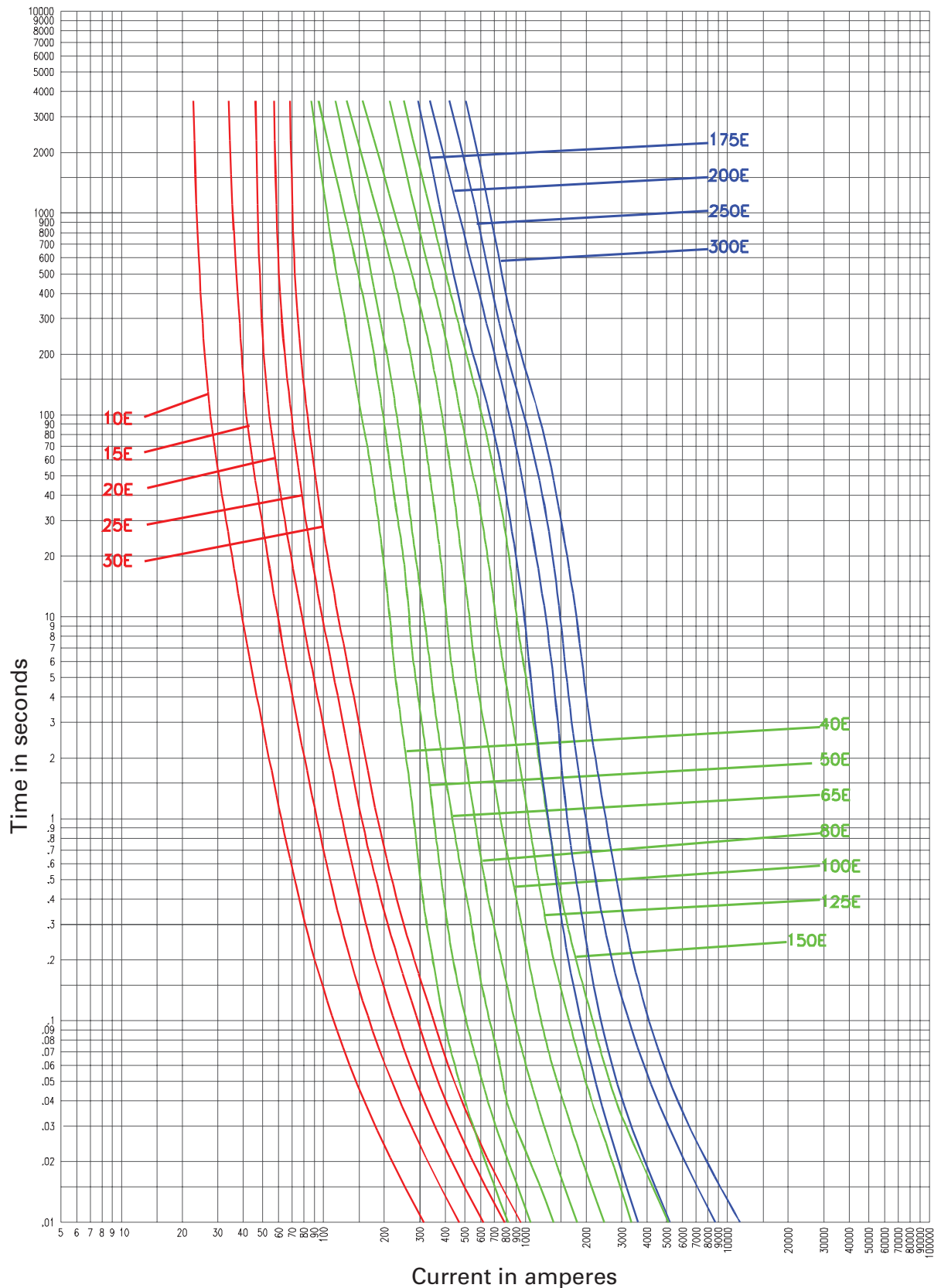
15.5kV time-current curves — minimum melt for 15CLE- \_E and 15CLE- \_D



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-\_\_

Curve 70548601

April 16, 1999

Reference # 563533

Curve 70546901

April 1999

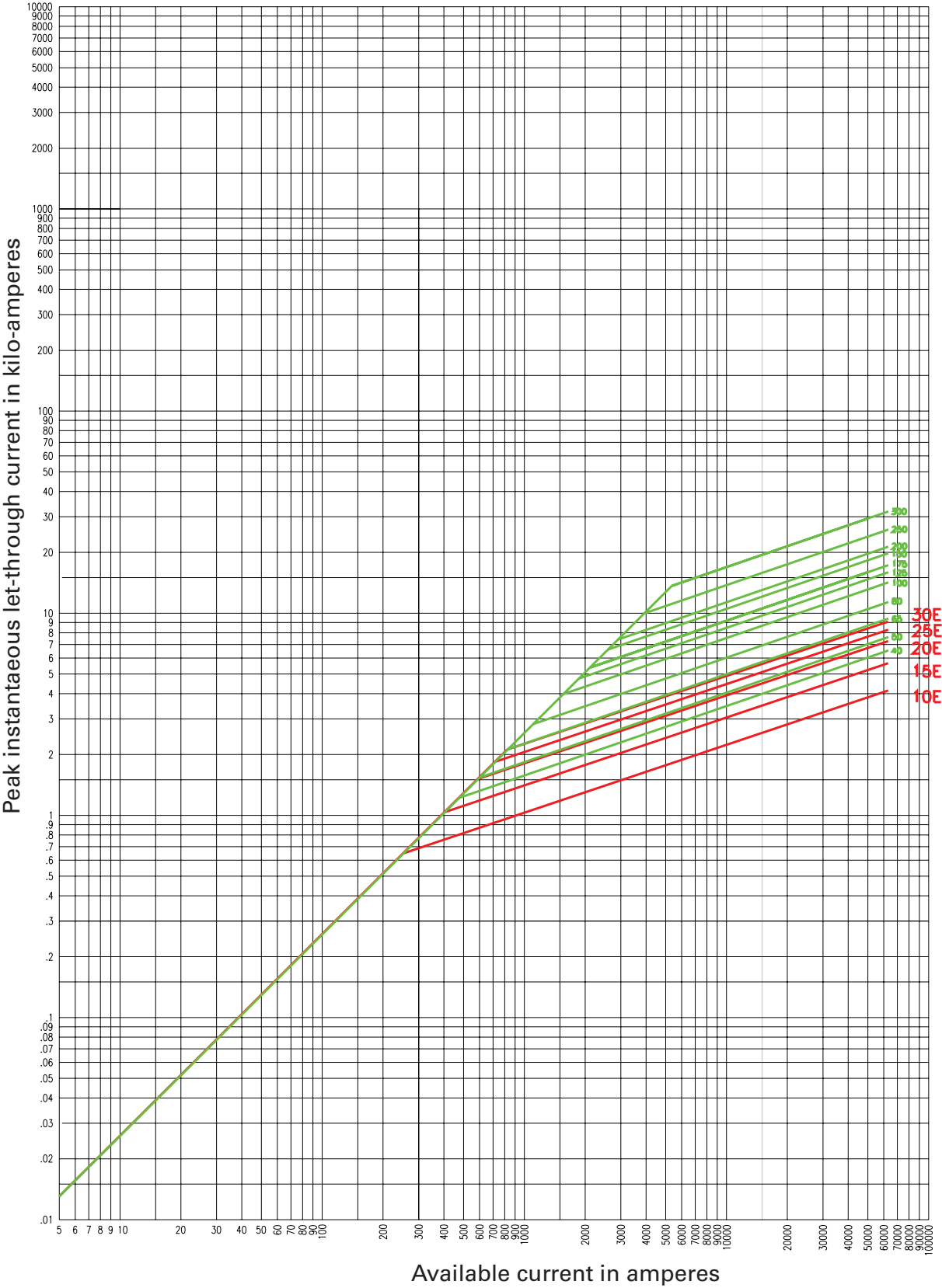
Reference # 705469

Curve 70547101

April 1999

Reference # 705471

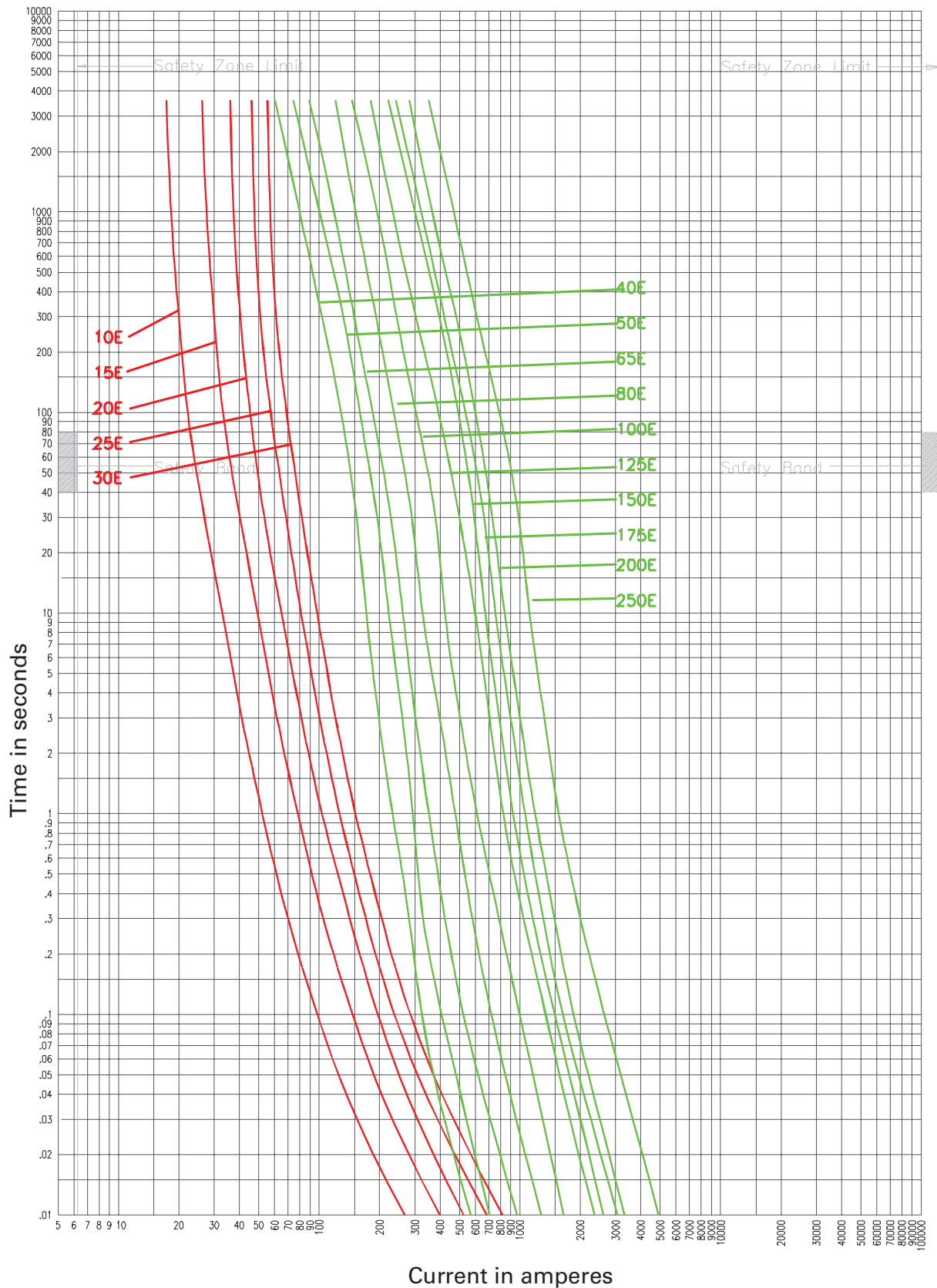
15.5kV peak let-through for 15CLE- \_E and 15CLE- \_D



15CLE- \_

Curve 70548802      Curve 70547501  
September 1999      September 1999  
Reference # 705488      Reference # 705475

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



15HLE-\_, 15BHLE-\_

Curve 70548507

April 16, 1999

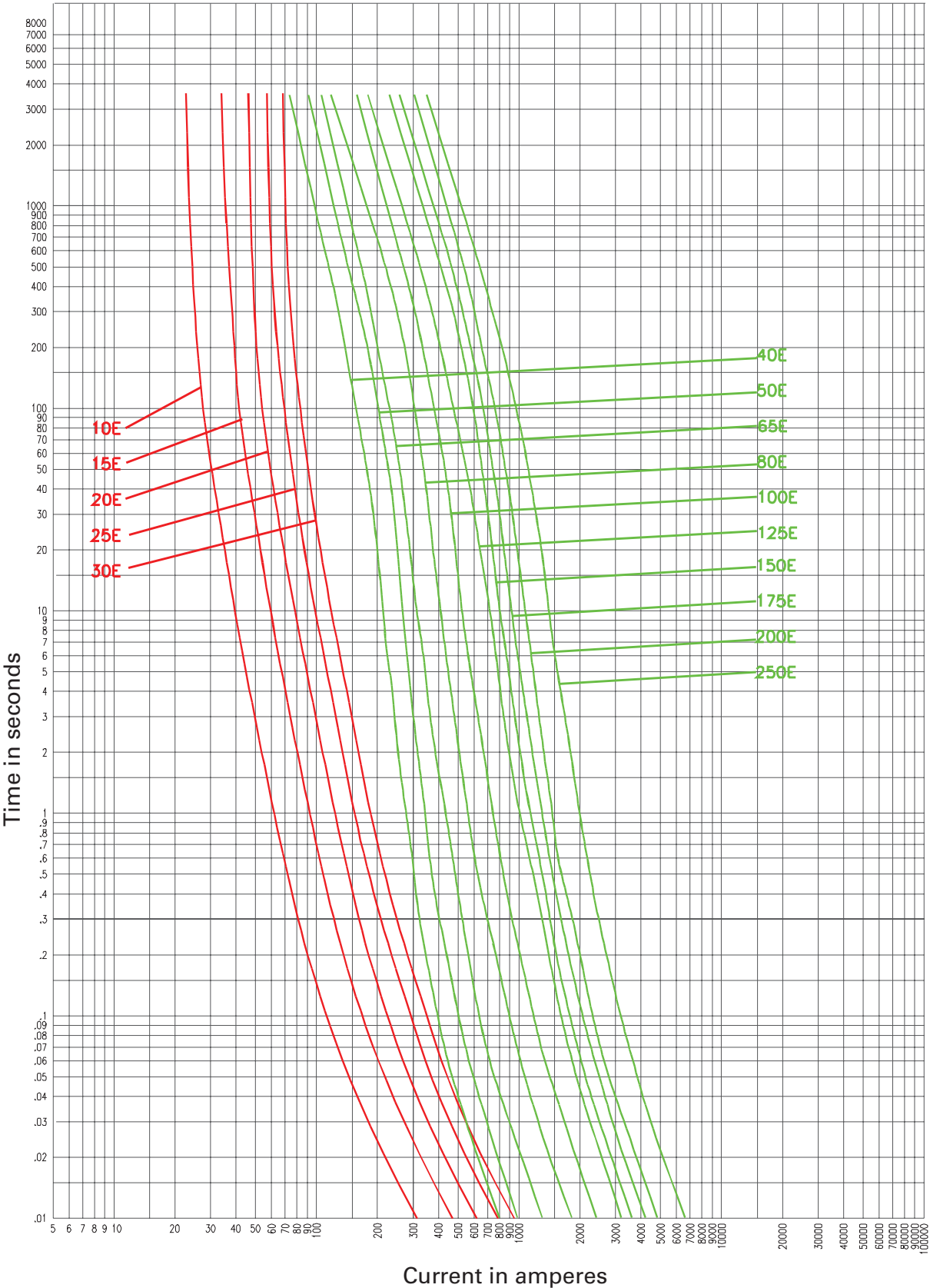
Reference # 563532

Curve 70546601

April 1999

Reference # 705466

15.5kV time-current curves — total clear for 15HLE- \_E and 15BHLE- \_E



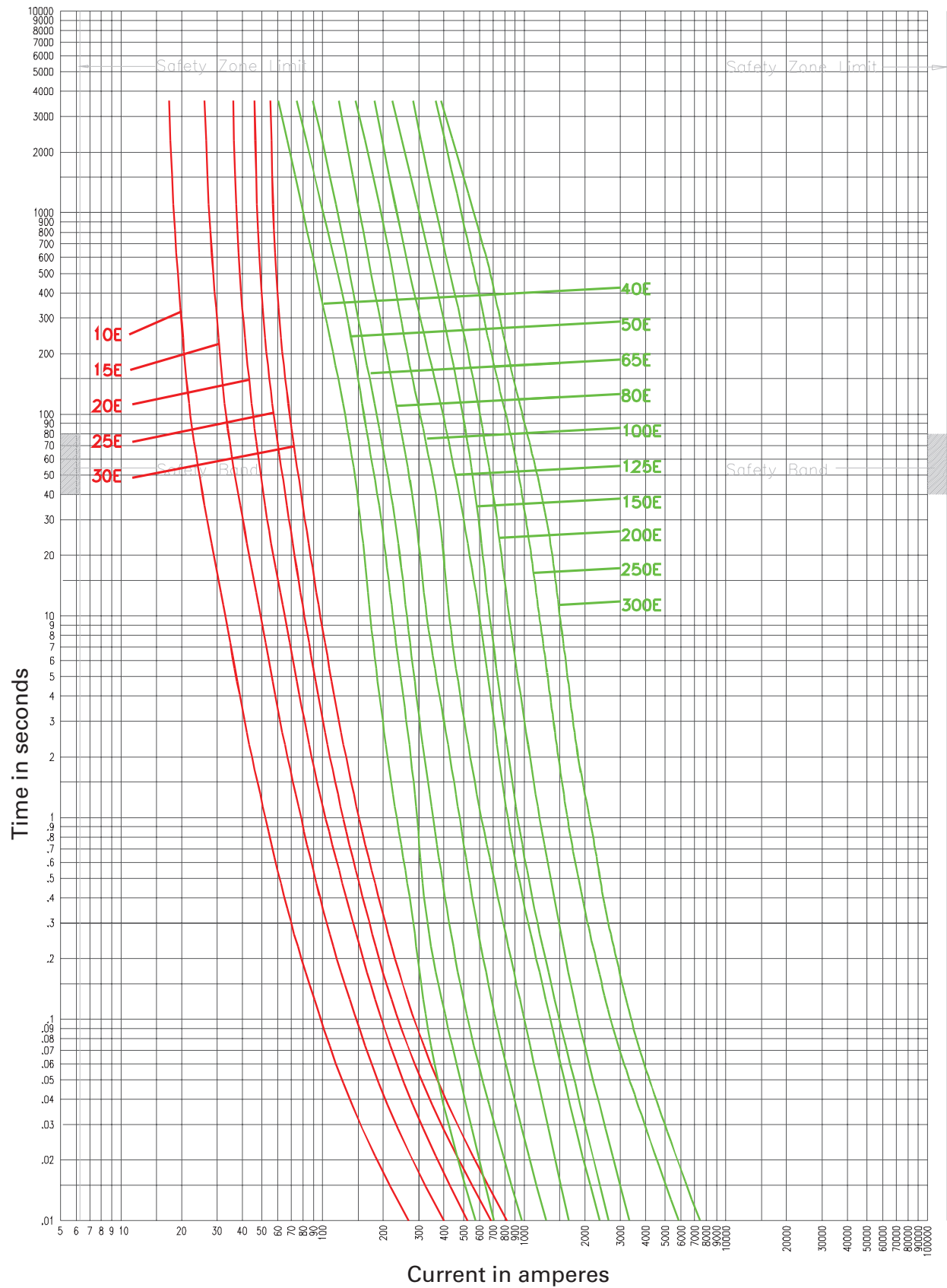
15HLE- \_, 15BHLE- \_

Curve 70548607      Curve 70546701  
April 16, 1999      April 1999  
Reference # 563533      Reference # 705467

The graph illustrates the relationship between available current and peak instantaneous let-through current for different fuse ratings. The x-axis represents available current in amperes on a logarithmic scale from 5 to 100,000. The y-axis represents peak instantaneous let-through current in kilo-amperes on a logarithmic scale from 0.01 to 10,000. The curves are color-coded: red for 10E, 15E, 20E, 25E, and 30E; green for 40, 50, 60, 80, 100, 125, 160, 200, 250, and 300. All curves start at a peak let-through current of approximately 0.15 kA for 5 amperes of available current. As available current increases, the peak let-through current also increases, with higher fuse ratings resulting in higher peak let-through currents for the same available current.

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

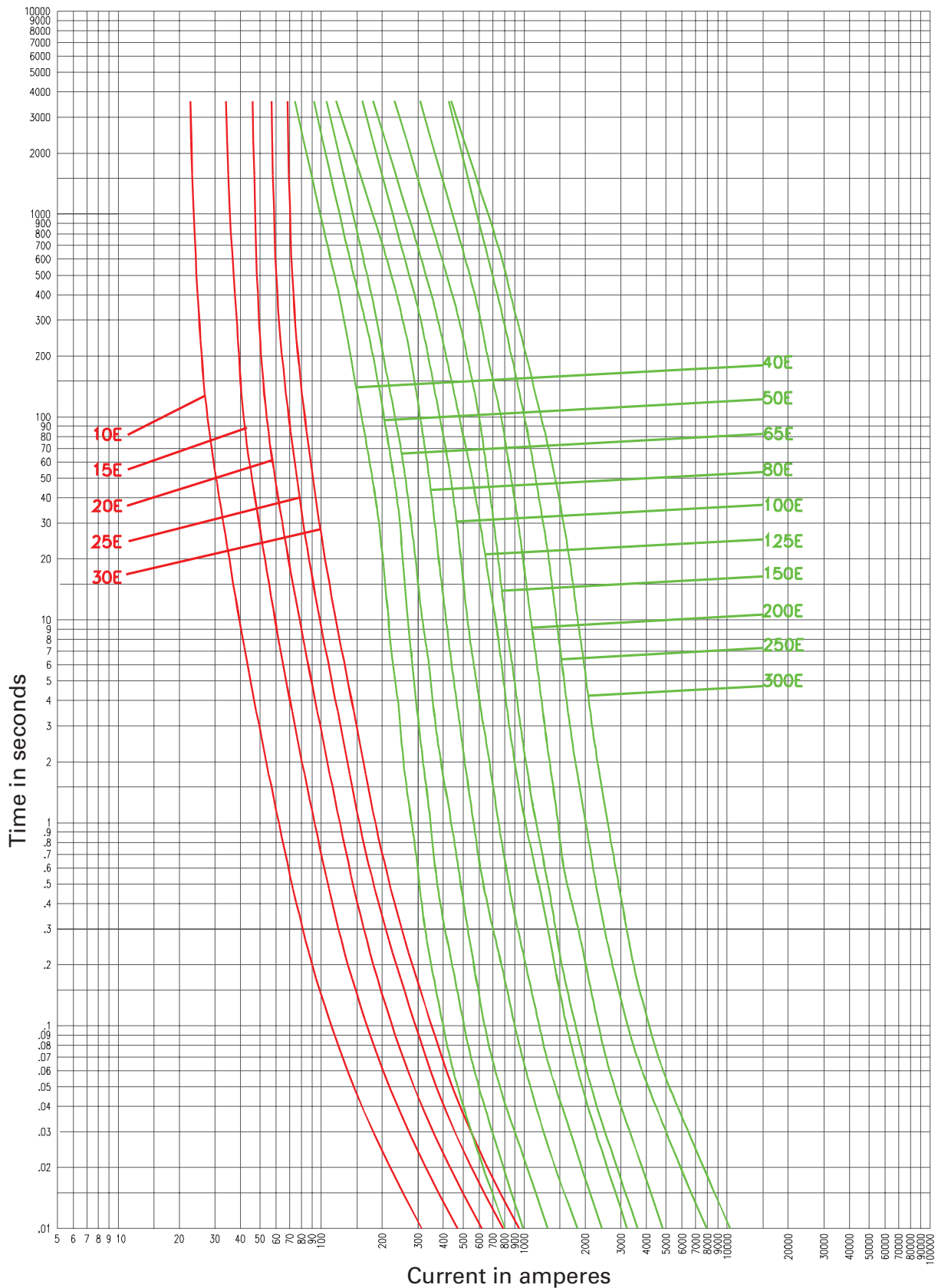
15.5kV time-current curves — minimum melt for 15HCL\_E



15HCL\_

Curve 70548503    Curve 66703201  
Janaury 2001      Janaury 2001

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

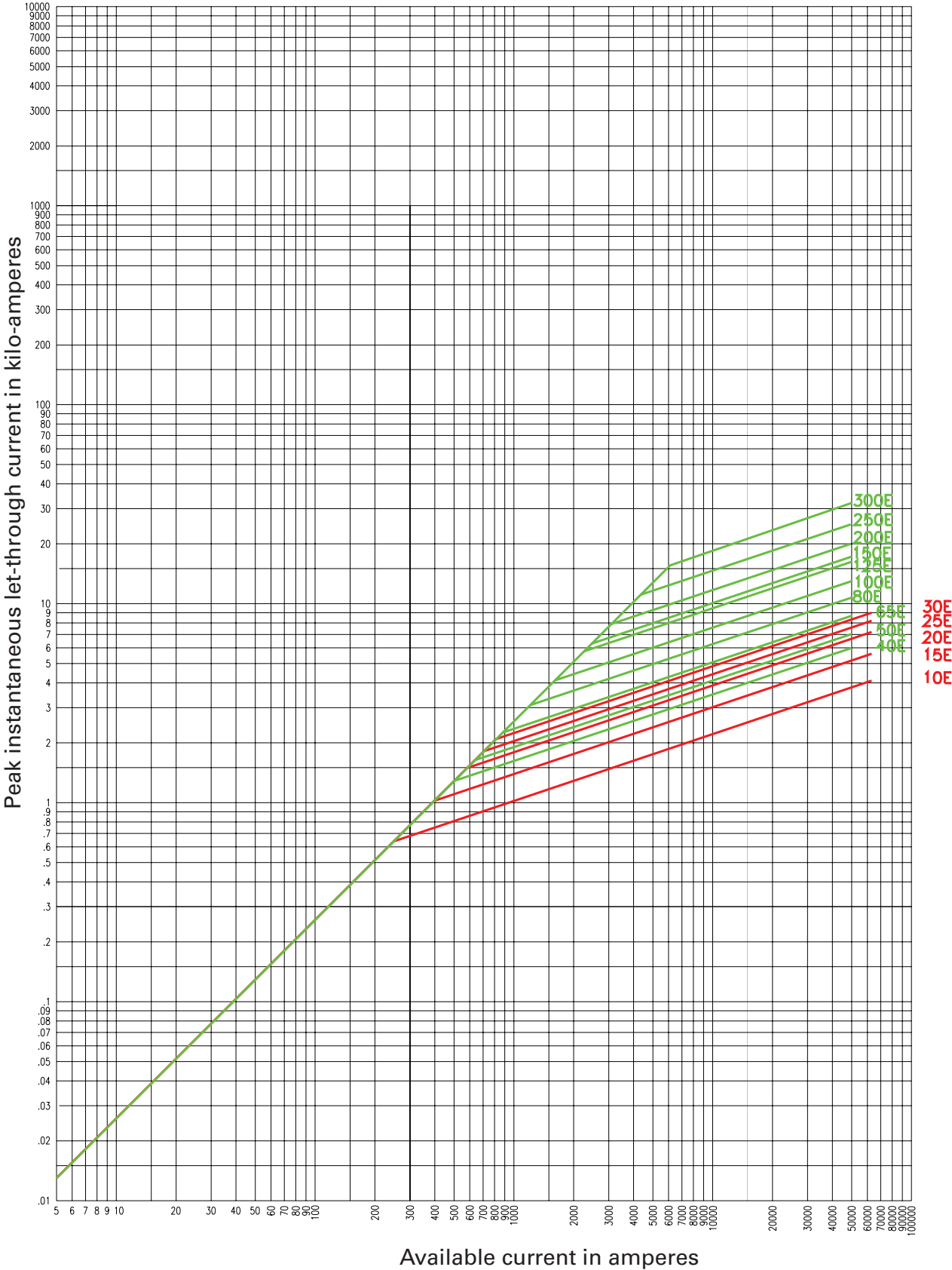


15HCL-\_

Curve 70548603  
January 2001

Curve 66703301  
January 2001

15.5kV peak let-through for 15HCL\_E



15HCL-\_\_

Curve 70548803    Curve 70547402  
Janaury 2001      Janaury 2001

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