

## 8.3kV E-Rated medium voltage fuses for feeder circuit, switchgear and transformer protection



### Description:

- Bussmann™ series E-Rated, current-limiting, medium voltage fuses 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.
- Optional remote contact signaling microswitch available.
- 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:

- 8CLE\_E-D (10-25A)
- 8CLE\_E (10-350A)
- 8HLE\_E (10-350A)

### Ratings\*:

- Volts — 8.3kV
- Amps — 10 to 350A
- Interrupting ratings — 50kA RMS Sym

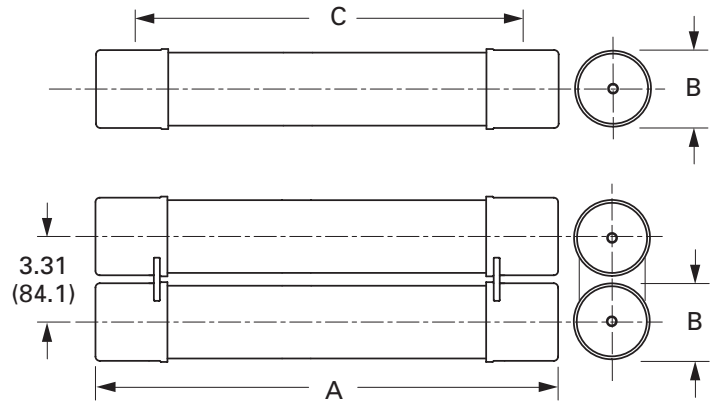
\* See catalog number tables for voltages, ampacities and interrupting ratings by catalog number.

### Agency information:

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

### Recommended fuse holders:

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



|                                          |                     |                  |                                  |               |            | Catalog number                                  |                           |                                     |                                |
|------------------------------------------|---------------------|------------------|----------------------------------|---------------|------------|-------------------------------------------------|---------------------------|-------------------------------------|--------------------------------|
| Amp rating                               | Fuse mounting type* | Voltage BIL (kV) | Approximate dimensions - in (mm) |               |            | Mounting (including live parts, end fittings)** |                           | Live parts (including end fittings) | End fittings (disconnect only) |
|                                          |                     |                  | Diameter A                       | Clip center B | Length C   | Porcelain insulator                             | Glass-polyester insulator |                                     |                                |
| CLE                                      |                     |                  |                                  |               |            |                                                 |                           |                                     |                                |
| 10E-D-25E-D<br>30E-175E<br>Single barrel | Non-disconnect      | 75               | 3.0 (76)                         | 14 (356)      | 17.9 (455) | 8CLE-PNM-D                                      | 8CLE-GNM-D                | CLE-NL-D                            | —                              |
|                                          | Disconnect†         | 75               |                                  |               |            | 8CLE-PDM-D                                      | 8CLE-GDM-D                | CLE-DL-D                            | CLE-DF-D                       |
| 15E-25E<br>Single Barrel                 | Non-disconnect      | 75               | 2.0 (51)                         | 14 (356)      | 15.5 (394) | 8CLE-PNM-C                                      | 8CLE-GNM-C                | CLE-NL-C                            | —                              |
|                                          | Disconnect†         | 75               |                                  |               |            | 8CLE-PDM-C                                      | 8CLE-GDM-C                | CLE-DL-C                            | CLE-DF-C                       |
| 200E-350E<br>Double barrel               | Non-disconnect      | 75               | 3.0 (76)                         | 14 (356)      | 17.9 (455) | 8CLE-PNM-E                                      | 8CLE-GNM-E                | CLE-NL-E                            | —                              |
|                                          | Disconnect          | 75               |                                  |               |            | 8CLE-PDM-E                                      | 8CLE-GDM-E                | CLE-DL-E                            | CLE-DF-E                       |
| HLE                                      |                     |                  |                                  |               |            |                                                 |                           |                                     |                                |
| 10E-175E<br>Single barrel                | Non-disconnect      | 75               | 3.0 (76)                         | 12 (305)      | 15.9 (404) | 8HLE-PNM-D                                      | 8HLE-GNM-D                | CLE-NL-D                            | —                              |
|                                          | Disconnect†         | 75               |                                  |               |            | 8HLE-PDM-D                                      | 8HLE-GDM-D                | CLE-DL-D                            | CLE-DF-D                       |
| 200E-350E<br>Double barrel               | Non-disconnect      | 75               | 3.0 (76)                         | 12 (305)      | 15.9 (404) | 8HLE-PNM-E                                      | 8HLE-GNM-E                | CLE-NL-E                            | —                              |
|                                          | Disconnect†         | 75               |                                  |               |            | 8HLE-PDM-E                                      | 8HLE-GDM-E                | CLE-DL-E                            | CLE-DF-E                       |

\* See page 4 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.

### Recommended fuseclips:

| Description                 | Fuse diameter - in (mm) | Figure | Clip dimensions - in (mm) |           |           |           |            |           |          | Catalog 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 fuseclip | 3 (76)                  | 3      | See dimensions drawing    |           |           |           |            |           |          | 9078A67G04     |

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

Figure 1

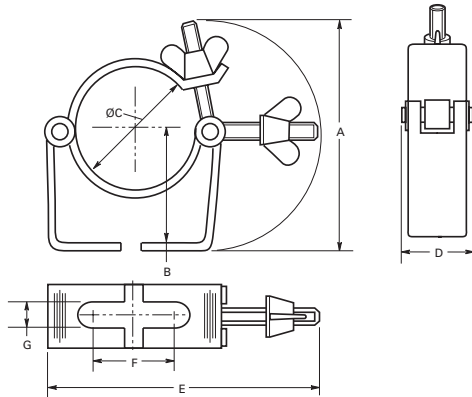


Figure 2

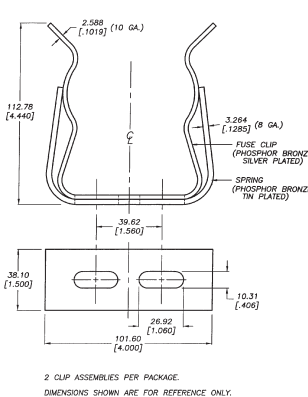
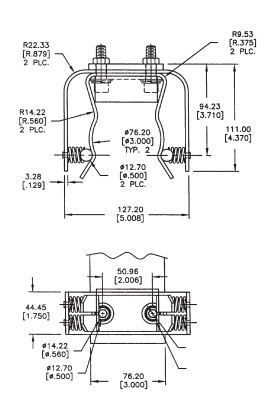


Figure 3



**CLE and HLE Type fuses**

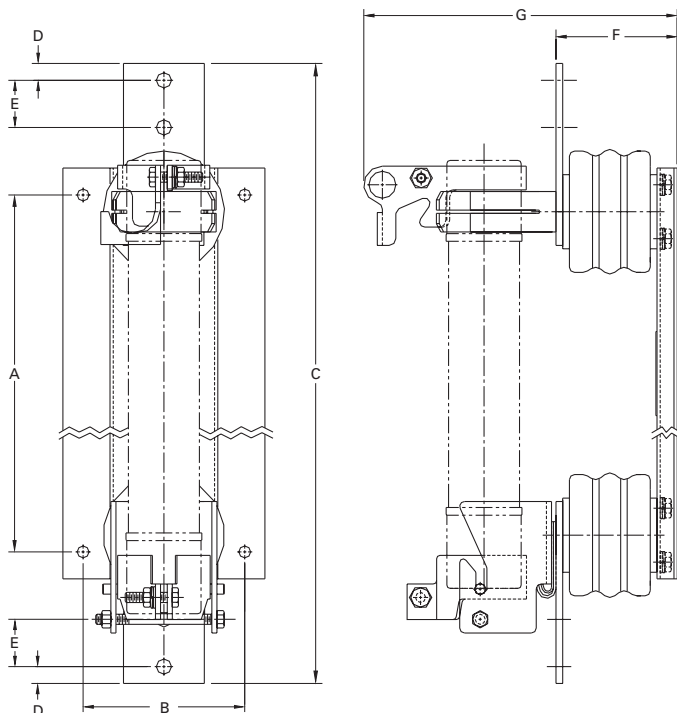
| Dimensions — in (mm)                 |            |            |                | IR RMS Sym. (kA) | No. of barrels | Installation location | Catalog no. |
|--------------------------------------|------------|------------|----------------|------------------|----------------|-----------------------|-------------|
| Amps                                 | Length A   | Diameter B | Clip centers C |                  |                |                       |             |
| CLE Long construction (Westinghouse) |            |            |                |                  |                |                       |             |
| 10                                   | 17.9 (455) | 3 (76)     | 14 (356)       | 50               | 1              | Indoor/outdoor        | 8CLE-10E-D  |
| 15                                   | 15.5 (394) | 2 (51)     |                |                  |                | Indoor                | 8CLE-15E*   |
| 15                                   | 17.9 (455) | 3 (76)     |                |                  |                | Indoor/outdoor        | 8CLE-15E-D  |
| 20                                   | 15.5 (394) | 2 (51)     |                |                  |                | Indoor                | 8CLE-20E*   |
| 20                                   | 17.9 (455) | 3 (76)     |                |                  |                | Indoor/outdoor        | 8CLE-20E-D  |
| 25                                   | 15.5 (394) | 2 (51)     |                |                  |                | Indoor                | 8CLE-25E*   |
| 25                                   | 17.9 (455) | 3 (76)     |                |                  |                | Indoor/outdoor        | 8CLE-25E-D  |
| 30                                   |            |            |                |                  |                |                       | 8CLE-30E    |
| 40                                   |            |            |                |                  |                |                       | 8CLE-40E    |
| 50                                   |            |            |                |                  |                |                       | 8CLE-50E    |
| 65                                   |            |            |                |                  |                |                       | 8CLE-65E    |
| 80                                   |            |            |                |                  |                |                       | 8CLE-80E    |
| 100                                  |            |            |                |                  |                |                       | 8CLE-100E   |
| 125                                  |            |            |                |                  |                |                       | 8CLE-125E   |
| 150                                  |            |            |                |                  |                |                       | 8CLE-150E   |
| 175                                  |            |            |                |                  |                |                       | 8CLE-175E   |
| 200                                  | 8CLE-200E  |            |                |                  |                |                       |             |
| 250                                  | 2          | 8CLE-250E  |                |                  |                |                       |             |
| 300                                  |            | 8CLE-300E  |                |                  |                |                       |             |
| 350                                  |            | 8CLE-350E  |                |                  |                |                       |             |
| HLE Short construction               |            |            |                |                  |                |                       |             |
| 10                                   | 15.9 (404) | 3 (76)     | 12 (305)       | 50               | 1              | 8HLE-10E              |             |
| 15                                   |            |            |                |                  |                | 8HLE-15E              |             |
| 20                                   |            |            |                |                  |                | 8HLE-20E              |             |
| 25                                   |            |            |                |                  |                | 8HLE-25E              |             |
| 30                                   |            |            |                |                  |                | 8HLE-30E              |             |
| 40                                   |            |            |                |                  |                | 8HLE-40E              |             |
| 50                                   |            |            |                |                  |                | 8HLE-50E              |             |
| 65                                   |            |            |                |                  |                | 8HLE-65E              |             |
| 80                                   |            |            |                |                  |                | Indoor/outdoor        | 8HLE-80E    |
| 100                                  |            |            |                |                  |                | 8HLE-100E             |             |
| 125                                  |            |            |                |                  |                | 8HLE-125E             |             |
| 150                                  |            |            |                |                  |                | 8HLE-150E             |             |
| 175                                  |            |            |                |                  |                | 8HLE-175E             |             |
| 200                                  |            |            |                |                  |                | 8HLE-200E             |             |
| 250                                  |            |            |                |                  | 2              | 8HLE-250E             |             |
| 300                                  |            |            |                |                  |                | 8HLE-300E             |             |
| 350                                  |            |            |                |                  |                | 8HLE-350E             |             |

\* Fuses conform to dimensional standards established by Westinghouse.

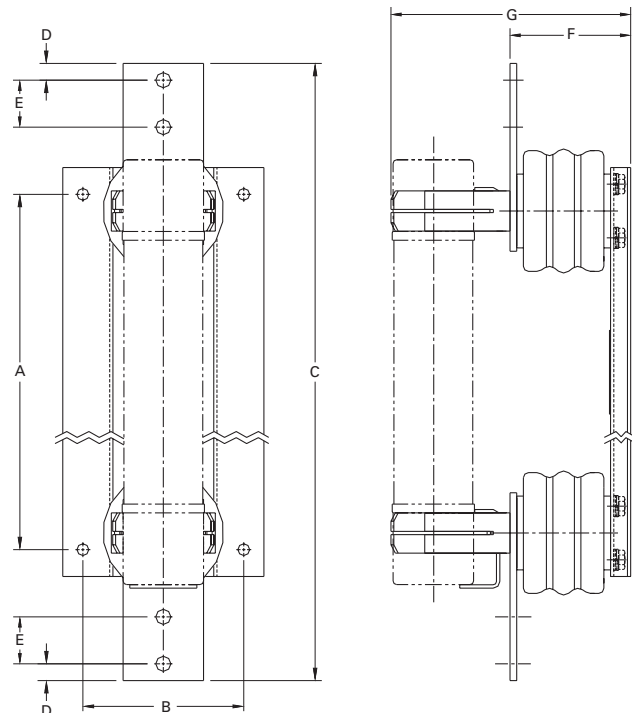
**CLE and HLE Type mountings - in (mm)**

| Catalog<br>number            | Hole centers  |           | Overall<br>length | Hole Inset  | Hole centers | Contact<br>height | Overall<br>height | BIL<br>kV |
|------------------------------|---------------|-----------|-------------------|-------------|--------------|-------------------|-------------------|-----------|
|                              | A             | B         | C                 | D           | E            | F                 | G                 |           |
| Disconnect single barrel†    |               |           |                   |             |              |                   |                   |           |
| 8CLE-GDM-C                   | 15.24 (387.1) | 6 (152.4) | 28 (711.2)        | 0.75 (19)   | 1.75 (44.4)  | 7 (177.8)         | 12.25 (311.1)     | 75        |
| 8CLE-GDM-D                   | 15.24 (387.1) | 6 (152.4) | 25 (647.7)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.22 (361.2)     | 75        |
| 8CLE-PDM-C                   | 15.24 (387.1) | 6 (152.4) | 28 (711.2)        | 0.75 (19)   | 1.75 (44.4)  | 7 (177.8)         | 12.25 (311.1)     | 75        |
| 8CLE-PDM-C                   | 15.24 (387.1) | 6 (152.4) | 25 (647.7)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.22 (361.2)     | 75        |
| 8HLE-GDM-D                   | 16.25 (412.8) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 11.72 (297.7)     | 75        |
| 8HLE-PDM-D                   | 16.25 (412.8) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 11.72 (297.7)     | 75        |
| Disconnect double barrel†    |               |           |                   |             |              |                   |                   |           |
| 8CLE-GDM-E                   | 15.24 (387.1) | 6 (152.4) | 25 (647.7)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 17.78 (451.6)     | 75        |
| 8CLE-PDM-E                   | 15.24 (387.1) | 6 (152.4) | 25 (647.7)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 17.78 (451.6)     | 75        |
| 8HLE-GDM-E                   | 16.25 (412.8) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 17.78 (451.6)     | 75        |
| 8HLE-PDM-E                   | 16.25 (412.8) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 17.78 (451.6)     | 75        |
| Non-disconnect single barrel |               |           |                   |             |              |                   |                   |           |
| 8CLE-GNM-C                   | 15.25 (387.3) | 6 (152.4) | 24.5 (622.3)      | 0.75 (19)   | 1.75 (44.4)  | 7 (177.8)         | 9.75 (247.6)      | 75        |
| 8CLE-PNM-C                   | 15.25 (387.3) | 6 (152.4) | 24.5 (622.3)      | 0.75 (19)   | 1.75 (44.4)  | 7 (177.8)         | 9.75 (247.6)      | 75        |
| 8CLE-GNM-D                   | 15.25 (387.3) | 6 (152.4) | 25 (635)          | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 11.29 (286.7)     | 75        |
| 8CLE-PNM-D                   | 15.25 (387.3) | 6 (152.4) | 25 (635)          | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 11.29 (286.7)     | 75        |
| 8HLE-GNM-D                   | 16.25 (412.7) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 8.79 (223.3)      | 75        |
| 8HLE-PNM-D                   | 16.25 (412.7) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 8.79 (223.3)      | 75        |
| Non-disconnect double barrel |               |           |                   |             |              |                   |                   |           |
| 8CLE-GNM-E                   | 15.24 (387.1) | 6 (152.4) | 25 (635)          | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.98 (380.5)     | 75        |
| 8CLE-PNM-E                   | 15.24 (387.1) | 6 (152.4) | 25 (635)          | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.98 (380.5)     | 75        |
| 8HLE-GNM-E                   | 16.25 (412.7) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.98 (380.5)     | 75        |
| 8HLE-PNM-E                   | 16.25 (412.7) | 6 (152.4) | 23 (584.2)        | 0.62 (15.7) | 1.75 (44.4)  | 7 (177.8)         | 14.98 (380.5)     | 75        |

**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:

- 8AHLE\_E (special dimension fuses for use with 7.2kV rated, 800 amp AMPGARD motor starting assemblies)
- 8BHLE\_E (bolt-on version)
- 8HCL\_E (clip-lock version)

### Ratings\*:

- Volts — 8.3kV
- Amps — 10 to 350A
- Interrupting ratings — 50kA RMS Sym

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

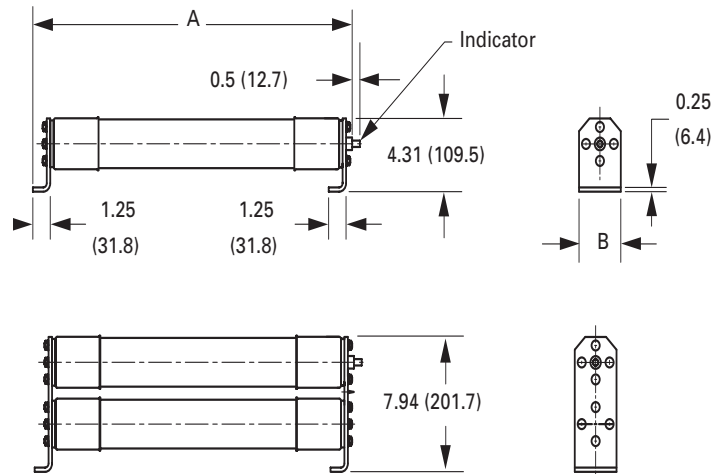
### Agency information:

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

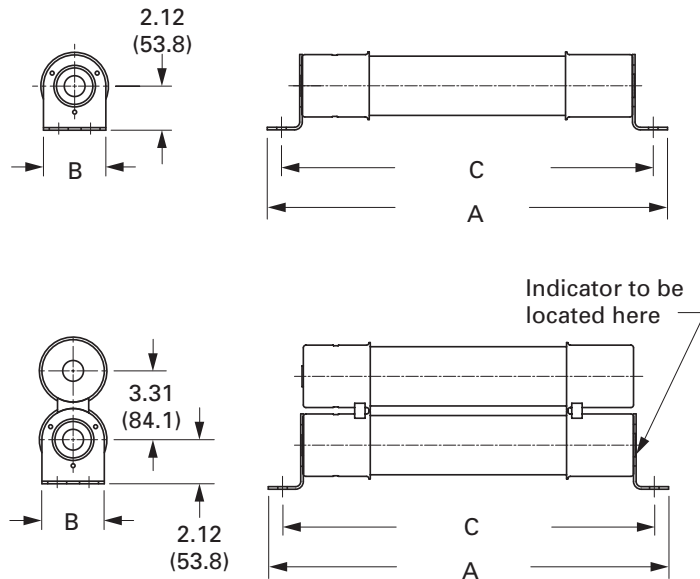
### Recommended live parts for clip-lock fuses

- Catalog number HCL-NL-1

### Dimensions for HCL - in (mm)



### Dimensions for BHLE - in (mm)



### AHLE Type fuses

Special dimension fuses for use with 7.2 kV rated, 800 amp AMPGARD motor starting assemblies.

| Amps | IR RMS Sym. (kA) | No. of barrels | Catalog no. |
|------|------------------|----------------|-------------|
| 10   | 50               | 1              | 8AHLE-10E   |
| 15   |                  |                | 8AHLE-15E   |
| 20   |                  |                | 8AHLE-20E   |
| 25   |                  |                | 8AHLE-25E   |
| 30   |                  |                | 8AHLE-30E   |
| 40   |                  |                | 8AHLE-40E   |
| 50   |                  |                | 8AHLE-50E   |
| 65   |                  |                | 8AHLE-65E   |
| 80   |                  |                | 8AHLE-80E   |
| 100  |                  |                | 8AHLE-100E  |
| 125  |                  |                | 8AHLE-125E  |
| 150  |                  |                | 8AHLE-150E  |
| 175  |                  |                | 8AHLE-175E  |
| 200  |                  | 2              | 8AHLE-200E  |
| 250  |                  |                | 8AHLE-250E  |
| 300  |                  |                | 8AHLE-300E  |
| 350  |                  |                | 8AHLE-350E  |

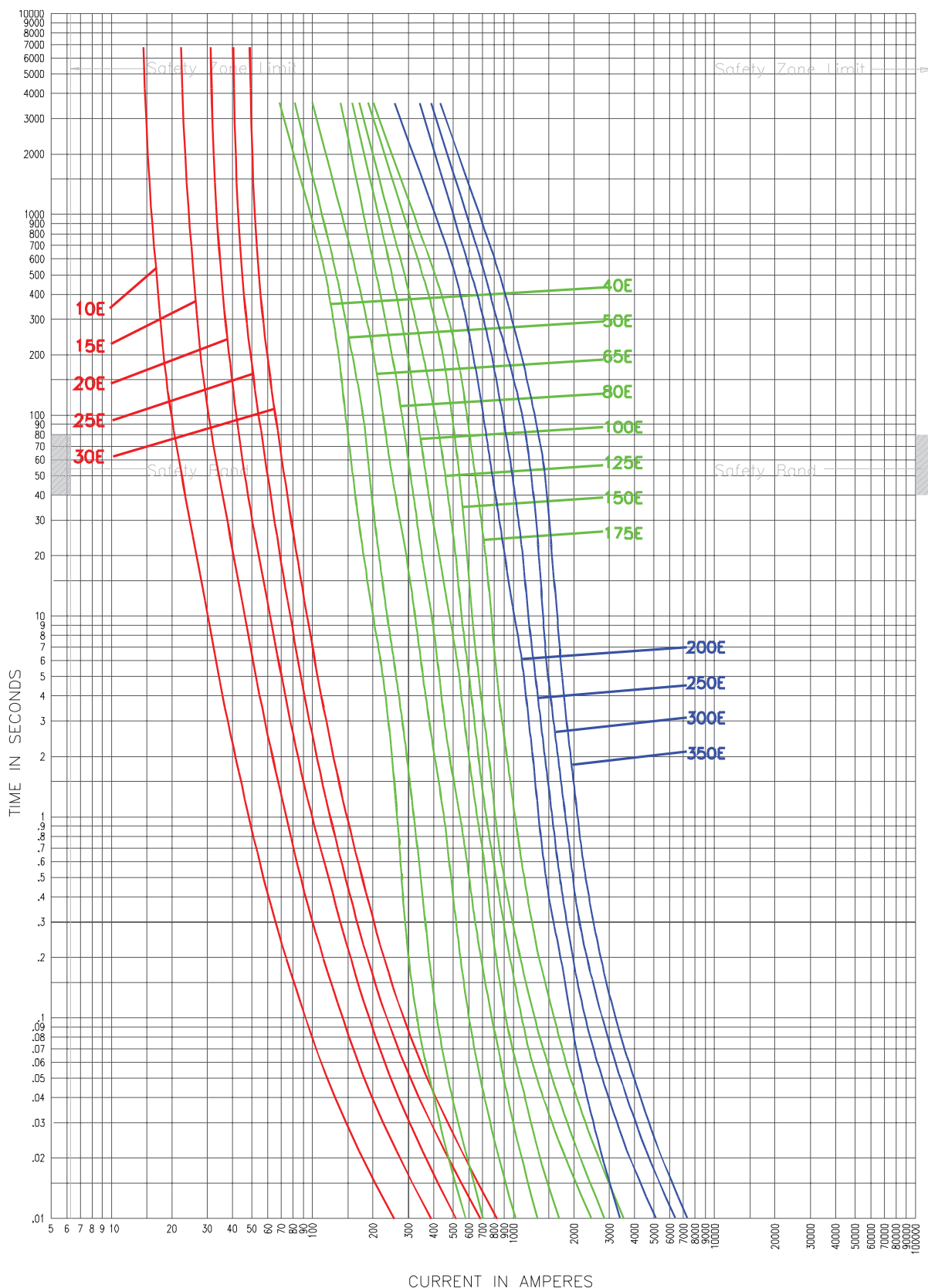
### BHLE bolt-on versions

| Amps | Dimensions — in (mm) |          |               | IR RMS Sym.<br>(kA) | No. of barrels | Installation<br>location | Catalog no. |
|------|----------------------|----------|---------------|---------------------|----------------|--------------------------|-------------|
|      | Overall length       | Diameter | Hole centers  |                     |                |                          |             |
| 10   | 19.25 (488.9)        | 3 (76.2) | 17.88 (454.2) | 50                  | 1              | Indoor                   | 8BHLE-10E   |
| 15   |                      |          |               |                     |                |                          | 8BHLE-15E   |
| 20   |                      |          |               |                     |                |                          | 8BHLE-20E   |
| 25   |                      |          |               |                     |                |                          | 8BHLE-25E   |
| 30   |                      |          |               |                     |                |                          | 8BHLE-30E   |
| 40   |                      |          |               |                     |                |                          | 8BHLE-40E   |
| 50   |                      |          |               |                     |                |                          | 8BHLE-50E   |
| 65   |                      |          |               |                     |                |                          | 8BHLE-65E   |
| 80   |                      |          |               |                     |                |                          | 8BHLE-80E   |
| 100  |                      |          |               |                     |                |                          | 8BHLE-100E  |
| 125  |                      |          |               |                     |                |                          | 8BHLE-125E  |
| 150  |                      |          |               |                     |                |                          | 8BHLE-150E  |
| 175  |                      |          |               |                     |                |                          | 8BHLE-175E  |
| 200  |                      |          |               |                     | 8BHLE-200E     |                          |             |
| 250  |                      |          |               |                     | 2              |                          | 8BHLE-250E  |
| 300  |                      |          |               |                     |                |                          | 8BHLE-300E  |
| 350  |                      |          |               |                     |                |                          | 8BHLE-350E  |

### HCL Clip lock versions

|      | Dimensions — in (mm) |          |              | IR RMS Sym. (kA) | No. of barrels | Installation location | Catalog no. |  |
|------|----------------------|----------|--------------|------------------|----------------|-----------------------|-------------|--|
| Amps | Overall length       | Diameter | Hole centers |                  |                |                       |             |  |
| 65   | 22.5 (571.5)         | 3 (76.2) | N/A          | 50               | 1              | Indoor/outdoor        | 8HCL-65E    |  |
| 80   |                      |          |              |                  |                |                       | 8HCL-80E    |  |
| 100  |                      |          |              |                  |                |                       | 8HCL-100E   |  |
| 125  |                      |          |              |                  |                |                       | 8HCL-125E   |  |
| 150  |                      |          |              |                  |                |                       | 8HCL-150E   |  |
| 175  |                      |          |              |                  | 2              |                       | 8HCL-175E   |  |
| 200  |                      |          |              |                  |                |                       | 8HCL-200E   |  |
| 250  |                      |          |              |                  |                |                       | 8HCL-250E   |  |
| 300  |                      |          |              |                  |                |                       | 8HCL-300E   |  |
| 350  |                      |          |              |                  |                |                       | 8HCL-350E   |  |

8.3kV Time-current curves — minimum melt for 8CLE- \_E and 8CLE- \_D



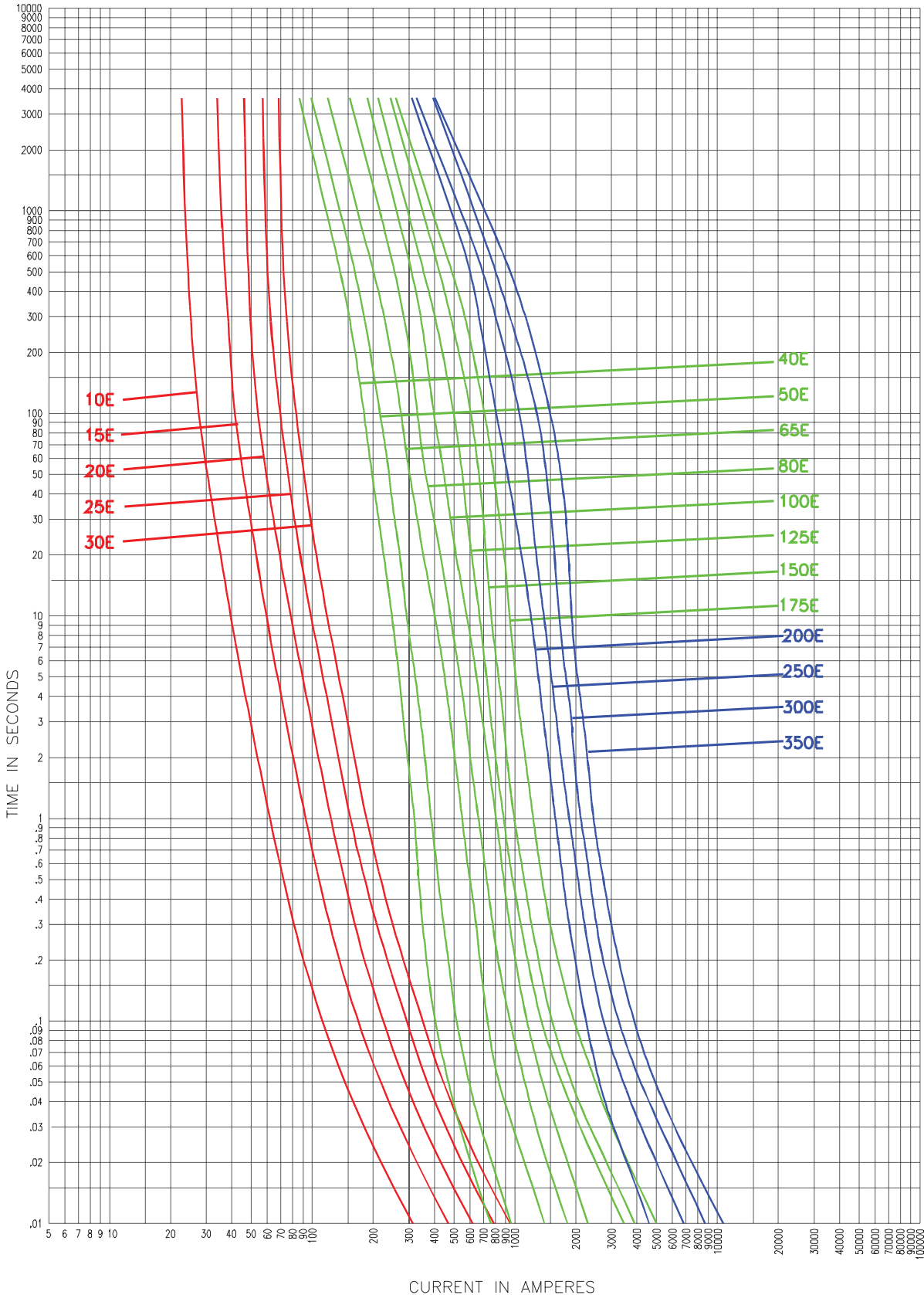
8CLE- \_

Curve 70548501  
April 16, 1999  
Reference # 563532

Curve 70546201  
April 1999  
Reference # 705462

Curve 70546401  
April 1999  
Reference # 705464

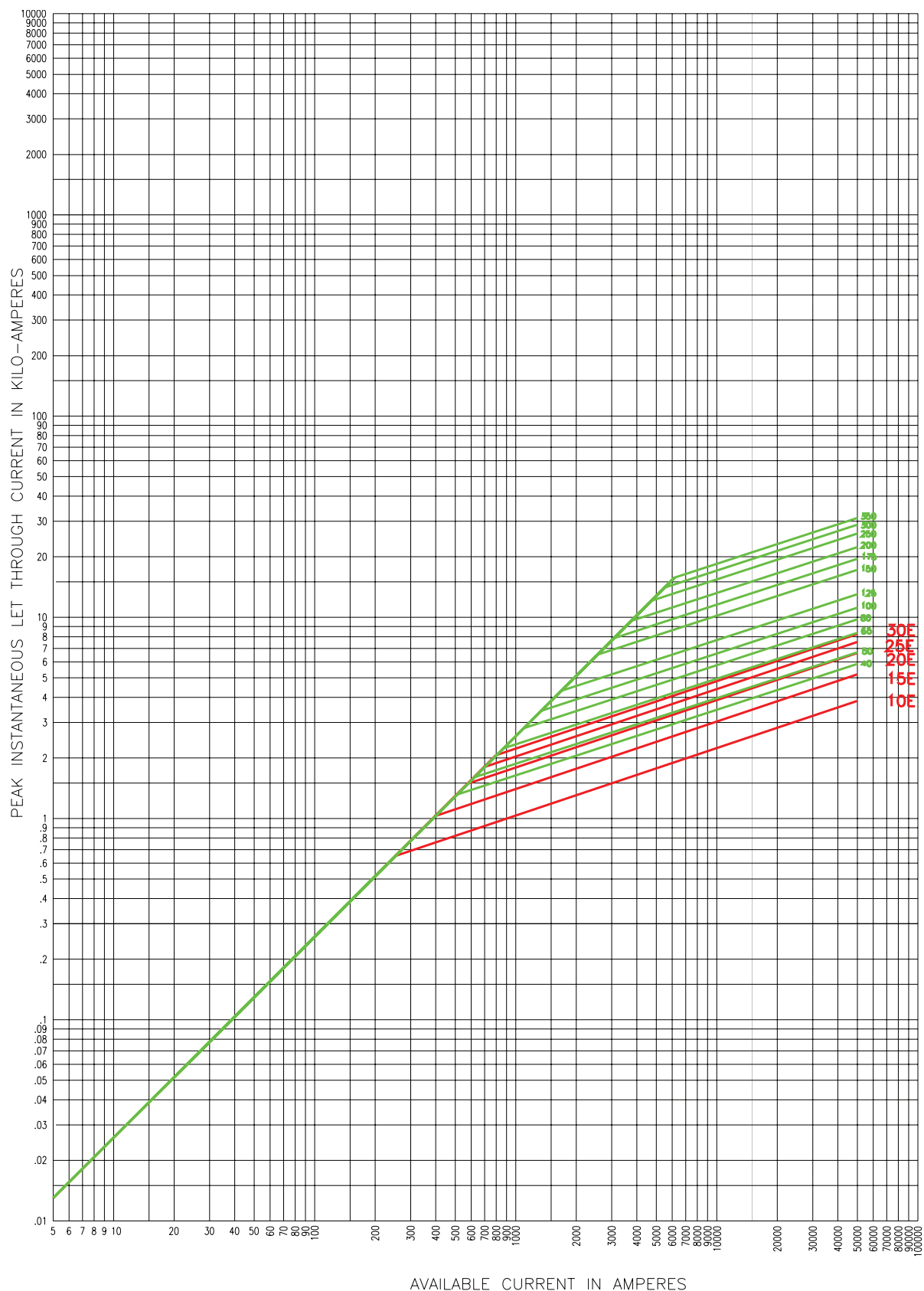
8.3kV Time-current curves — total clear for 8CLE-<sub>E</sub> and 8CLE-<sub>-D</sub>



8CLE-<sub>-</sub>

|                    |                    |                    |
|--------------------|--------------------|--------------------|
| Curve 70548601     | Curve 70546301     | Curve 70546501     |
| April 16, 1999     | April 1999         | April 1999         |
| Reference # 563533 | Reference # 705463 | Reference # 705465 |

8.3kV Peak let-through for 8CLE-<sub>E</sub> and 8CLE-<sub>-D</sub>

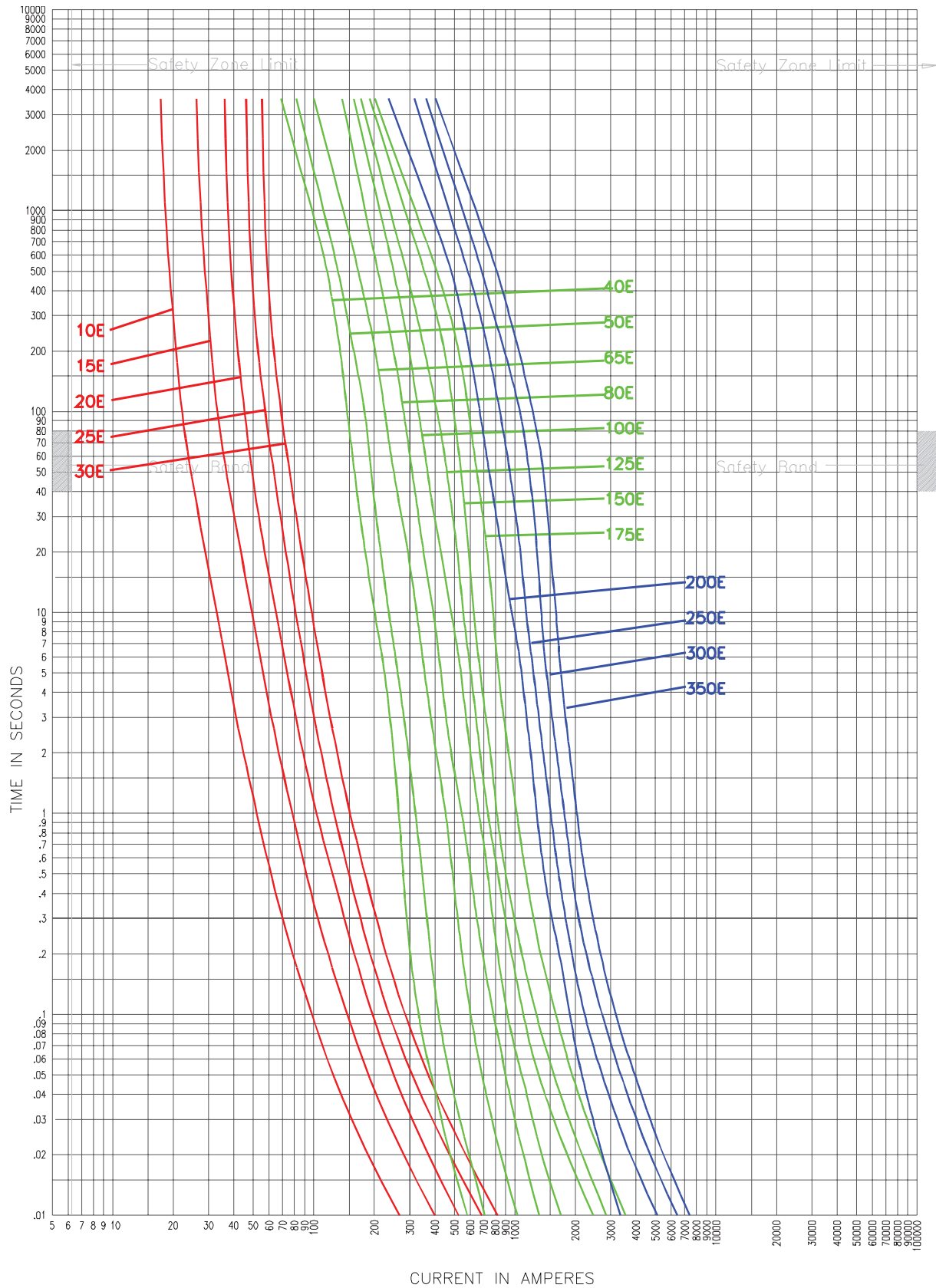


8CLE-<sub>E</sub>

Curve 70548801  
September 1999  
Reference # 705488

Curve 70547301  
April 1999  
Reference # 705473

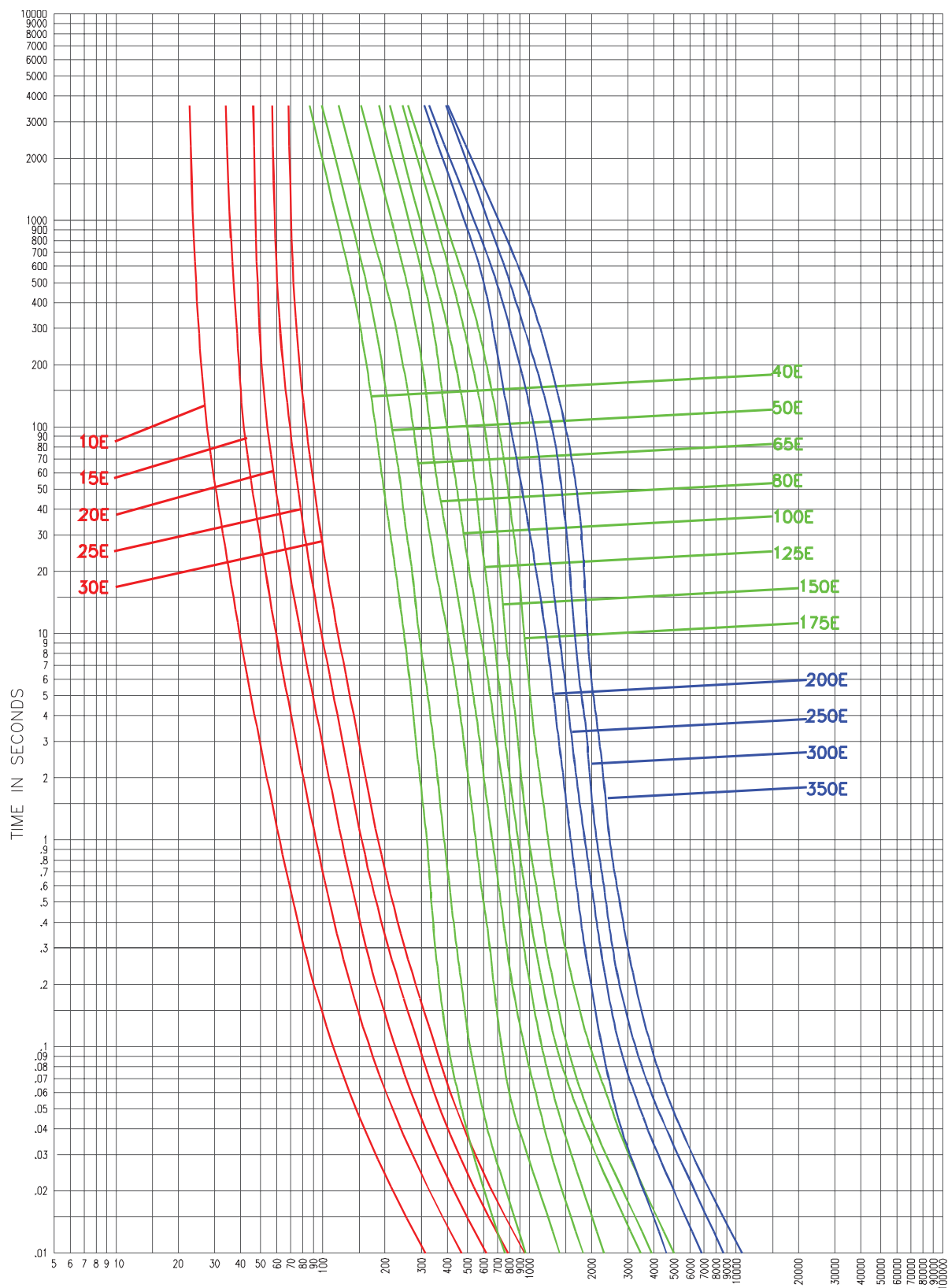
8.3kV Time-current curves — minimum melt for 8HLE- \_E, 8AHLE- \_E and 8BHLE- \_E



|                    |                    |                    |
|--------------------|--------------------|--------------------|
| Curve 70548507     | Curve 70546203     | Curve 70546403     |
| April 16, 1999     | April 1999         | April 1999         |
| Reference # 563532 | Reference # 705462 | Reference # 705464 |

8HLE-\_, 8BHLE-\_, 8AHLE- \_

8.3kV Time-current curves — total clear for 8HLE- \_E, 8AHLE- \_E and 8BHLE- \_E



CURRENT IN AMPERES

Curve 70548607

April 16, 1999

Reference # 563533

Curve 70546303

April 1999

Reference # 705463

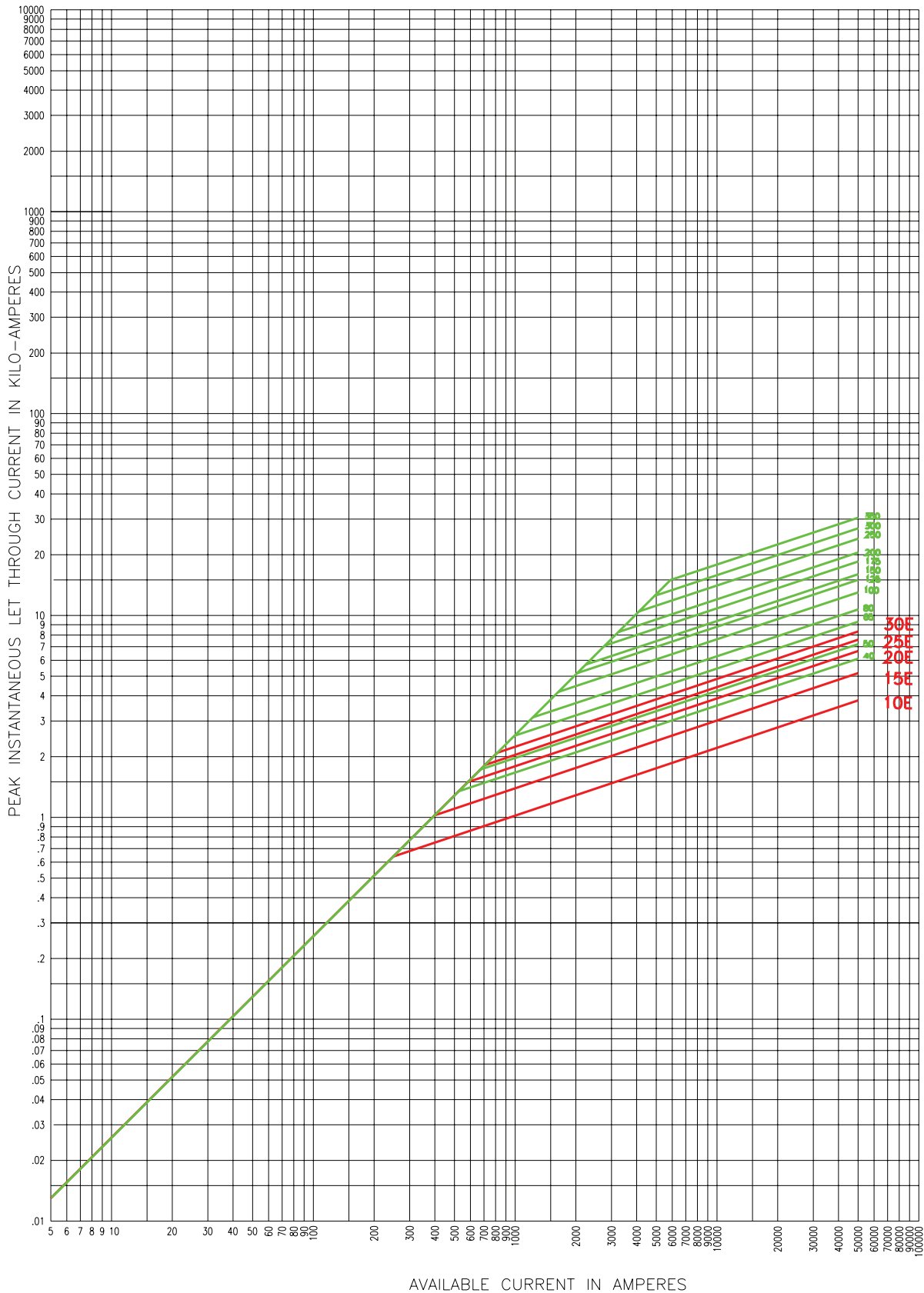
Curve 70546503

April 1999

Reference # 705465

8HLE-\_, 8BHLE-\_, 8AHLE- \_

8.3kV Peak let-through for 8HLE- \_E, 8AHLE- \_E and 8BHLE- \_E



8HLE-\_, 8BHLE-\_, 8AHLE- \_

Curve 70548804      Curve 70547201  
September 1999      April 1999  
Reference # 705488      Reference # 705472

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