

# PT Medium voltage fuses for potential and small power transformers



## Description:

Bussmann™ series indicating and non-indicating E-Rated, current-limiting, medium voltage fuses for potential, small power and control transformers.

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## Features and benefits

- Low amp, current-limiting E-Rated PT medium voltage fuses are general purpose fuses defined by their melting time-current characteristic that permit their electrical interchangeability with other fuses of the same E Rating.
- E-Rated general purpose fuses must have a current responsive element that will melt in 300 seconds at an RMS current within the range of 200% to 240% of the fuse's nameplate current rating, fuse refill, or link per ANSI C37.46 for fuses rated 100E or less.
- PT fuses are physically dimensioned for easy installation in existing hardware.
- Space saving size eases design considerations for new installations.
- Current-limiting fuses provide positive interruption even on low fault currents. The fuse limits the magnitude of electromechanical stresses in the protected apparatus.
- These fuses are in a self-contained, non-venting package for installation indoors or outdoors in an enclosure.
- Available in indicating and non-indicating versions.
- Open fuse indicator speeds troubleshooting by providing a positive visual indication of fuse operation.

## Typical applications

- Primary protection of:
  - Medium voltage potential transformers
  - Small medium voltage service transformers
  - Small medium voltage control transformers.

## E-Rated PT medium voltage fuses

### Catalog symbols (by maximum voltage rating):

- 2.475 kV
  - 2NCLPT\_
- 3.6 kV
  - 3.6ABCNA\_
  - 3.6ABWNA\_
  - 3.6CAV\_
- 5.5 kV
  - JCW\_
  - 5CLPT\_E
  - 5NCLPT\_E
  - 5NCLPT\_E-A
  - 5.5ABWNA\_E
  - 5.5AMWNA\_E
  - 5.5CAV\_E
  - 5.5CAVH\_E
- 7.2 kV
  - 7.2ABWNA\_
  - 7.2ABCNA\_
  - 7.2AMWNA\_E
  - 7.2CAV\_
- 8.3 kV
  - 8CLPT\_E-A
  - 8CLPT\_E-B
  - 8NCLPT\_E
  - 8NCLPT\_E-A
  - 8NCLPT\_E-B
- 12kV
  - 12ABCNA\_
  - 12CAV\_
- 15.5 kV
  - 15CLPT\_E
  - 15NCLPT\_E-A
  - 15.5CAV\_E
  - 15.5CAVH\_E
- 17.5 kV
  - 17.5ABGNA\_
  - 17.5CAV\_
- 24 kV
  - 24ABGNA\_
  - 24CAV\_

- 25.5 kV
  - 25CLPT\_E
- 36 kV
  - 36ABGNA\_
  - 36CAV\_
- 38 kV
  - 38CAV\_E
  - 38CAVH\_E
  - 38CLPT\_E

### Ratings\*:

- Volts
  - 2.4 kV to 38 kV
- Amps
  - 0.25 to 15 A
- Interrupting ratings
  - 25 to 80 kA RMS Sym

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

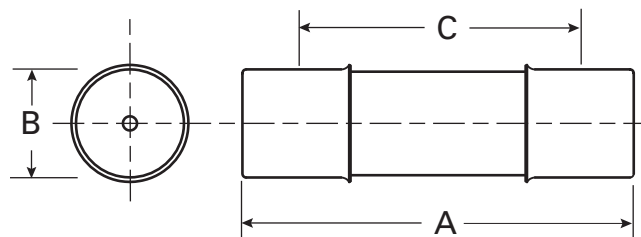
### Agency information:

- Those PT fuses conforming to the requirements for E-Rating meet the performance characteristics of IEEE/ANSI C37.46

## 2.475 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                 | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|-----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating  |                      |
| 0.25       | 4.5 (114)            | 0.8 (20)   | 3.9 (99)       | —                                      | 2NCLPT-25E (63) | 1A1837               |
| 0.5        |                      |            |                | —                                      | 2NCLPT-5E (63)  |                      |
| 1          |                      |            |                | —                                      | 2NCLPT-1E (40)  |                      |
| 2          |                      |            |                | —                                      | 2NCLPT-2E (40)  |                      |
| 5          |                      |            |                | —                                      | 2NCLPT-5E (25)  |                      |

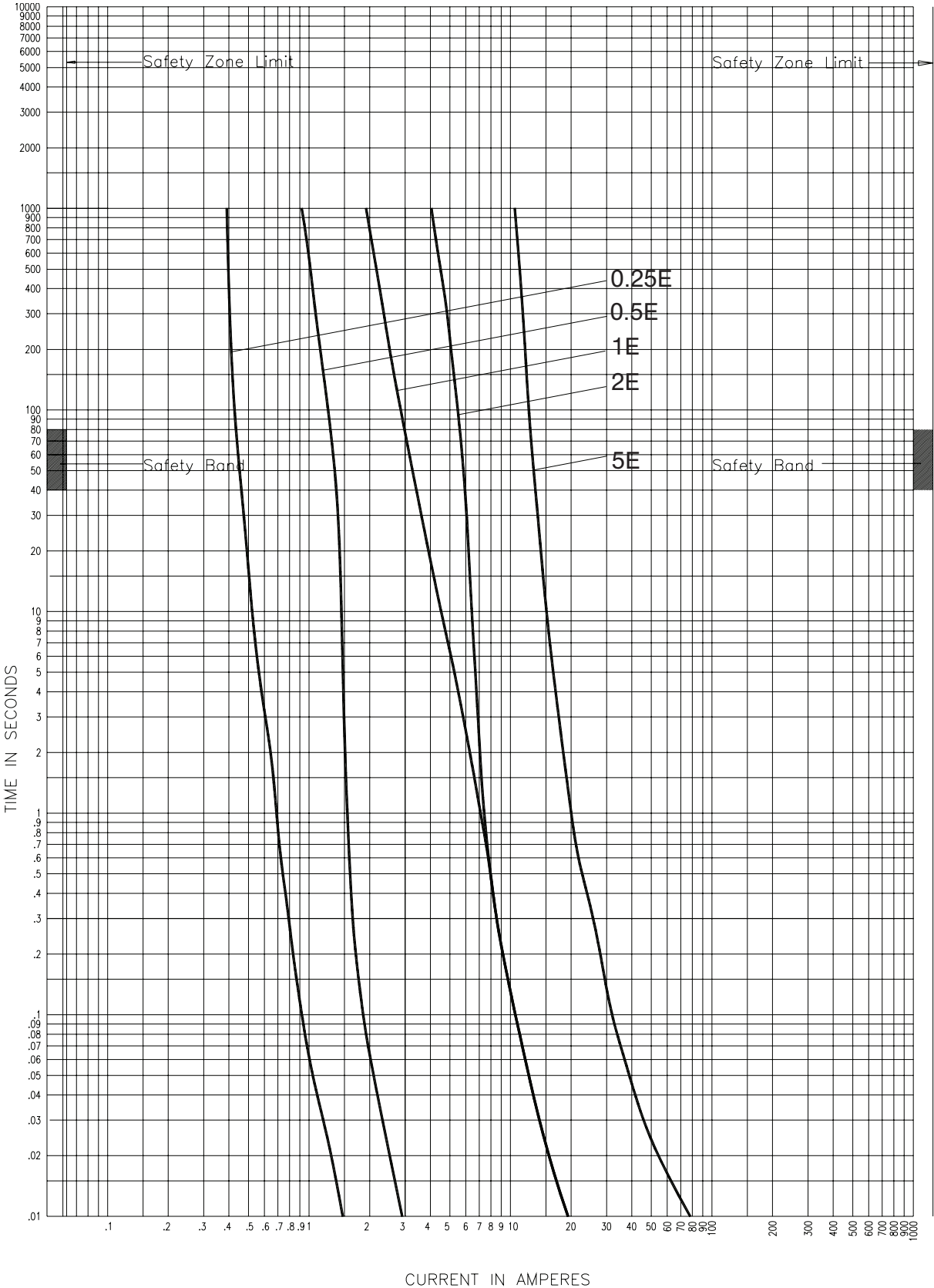
### Dimensions (see catalog number tables for values)



### Recommended fuseclip and fuse block:

| Description                                                                                                         | Cat. No.      |
|---------------------------------------------------------------------------------------------------------------------|---------------|
| Open fuseclip for 0.8 (20mm) dia. fuses                                                                             | 1A1837        |
| Single-pole open fuse block with #10-32 phil-slot screw terminals rated 2500V, 5A maximum and 63kA withstand rating | PTFB-2500-JCD |

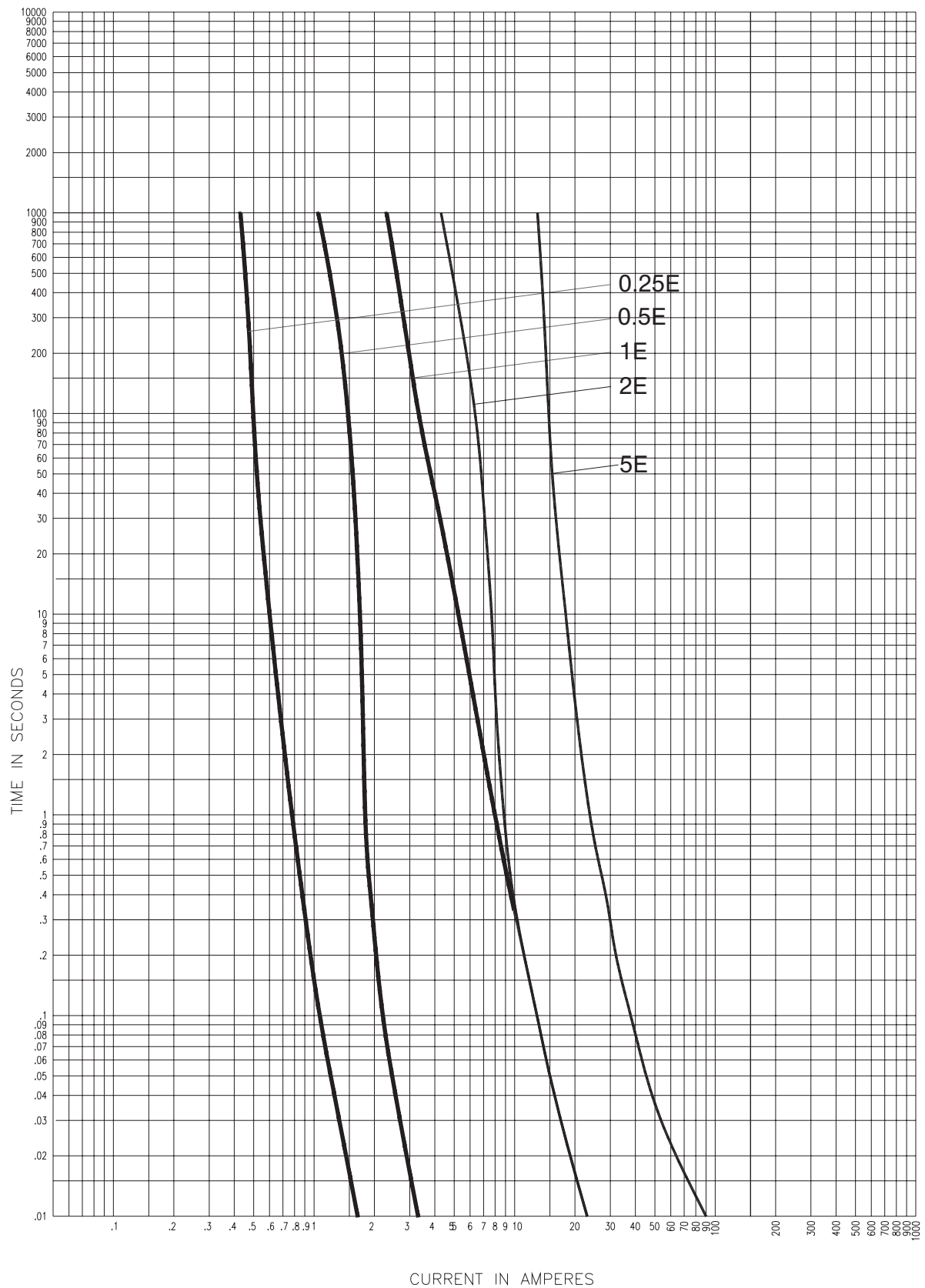
2.47 kV time-current curves — minimum melting for 2NCLPT-E



2NCLPT-E

Curve TC56357202  
December 2008

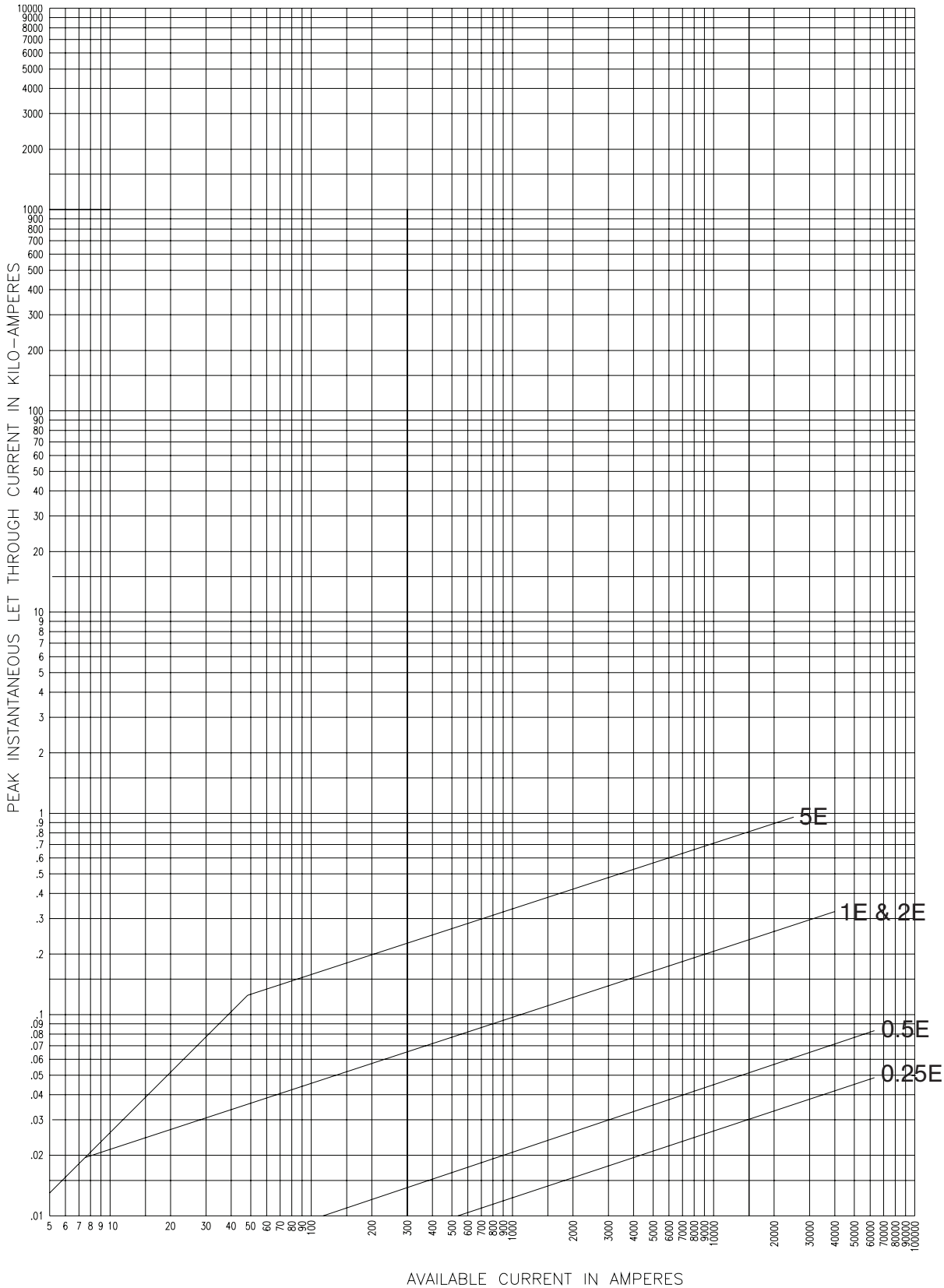
2.47 kV time-current curves — total clearing for 2NCLPT\_E



2NCLPT\_E

Curve TC59883702  
October 2010

2.47 kV peak let-through curves for 2NCLPT\_E



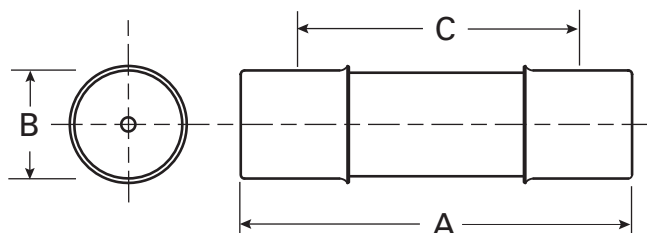
2NCLPT\_E

Curve TC63933702  
December 2008

### 3.6 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                   |                      |
|------------|----------------------|------------|----------------|----------------------------------------|-------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating    | Recommended fuseclip |
| 2          | 8.7 (221)            | 1.6 (41)   | 7.6 (193)      | —                                      | 3.6CAV2 (50)      | 1A1837               |
| 3.15       | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 3.6ABWNA3.15 (50) | A3354705             |
| 3.15       | 7.7 (195)            | 1 (25)     | 6.5 (165)      | —                                      | 3.6ABCNA3.15 (50) |                      |
| 6.3        | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 3.6ABWNA6.3 (50)  |                      |
| 6.3        | 7.7 (195)            | 1 (25)     | 6.5 (165)      | —                                      | 3.6ABCNA6.3 (50)  |                      |
| 10         |                      |            |                | —                                      | 3.6ABCNA10 (50)   |                      |

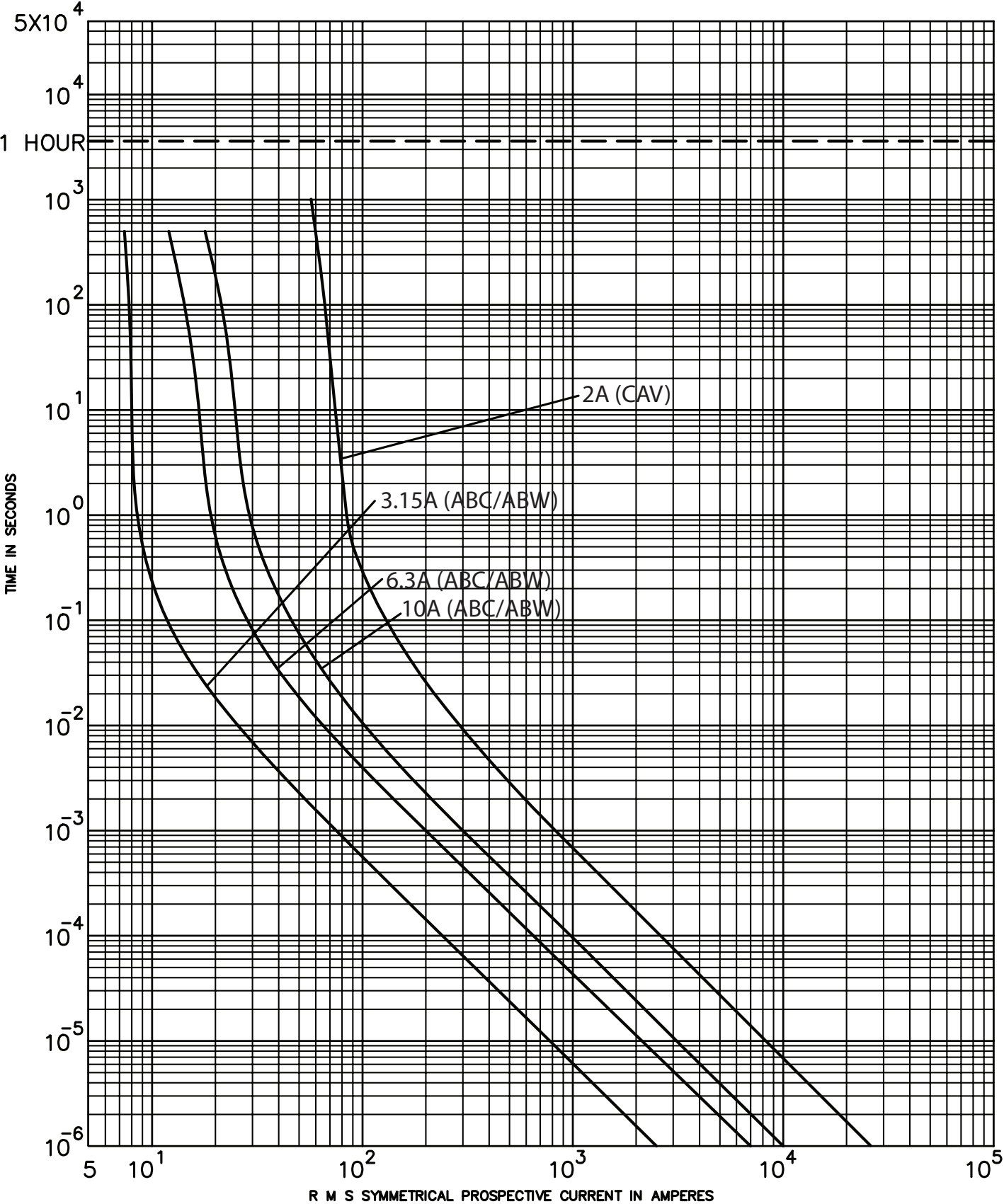
### Dimensions (see catalog number tables for values)



### Recommended fuseclips:

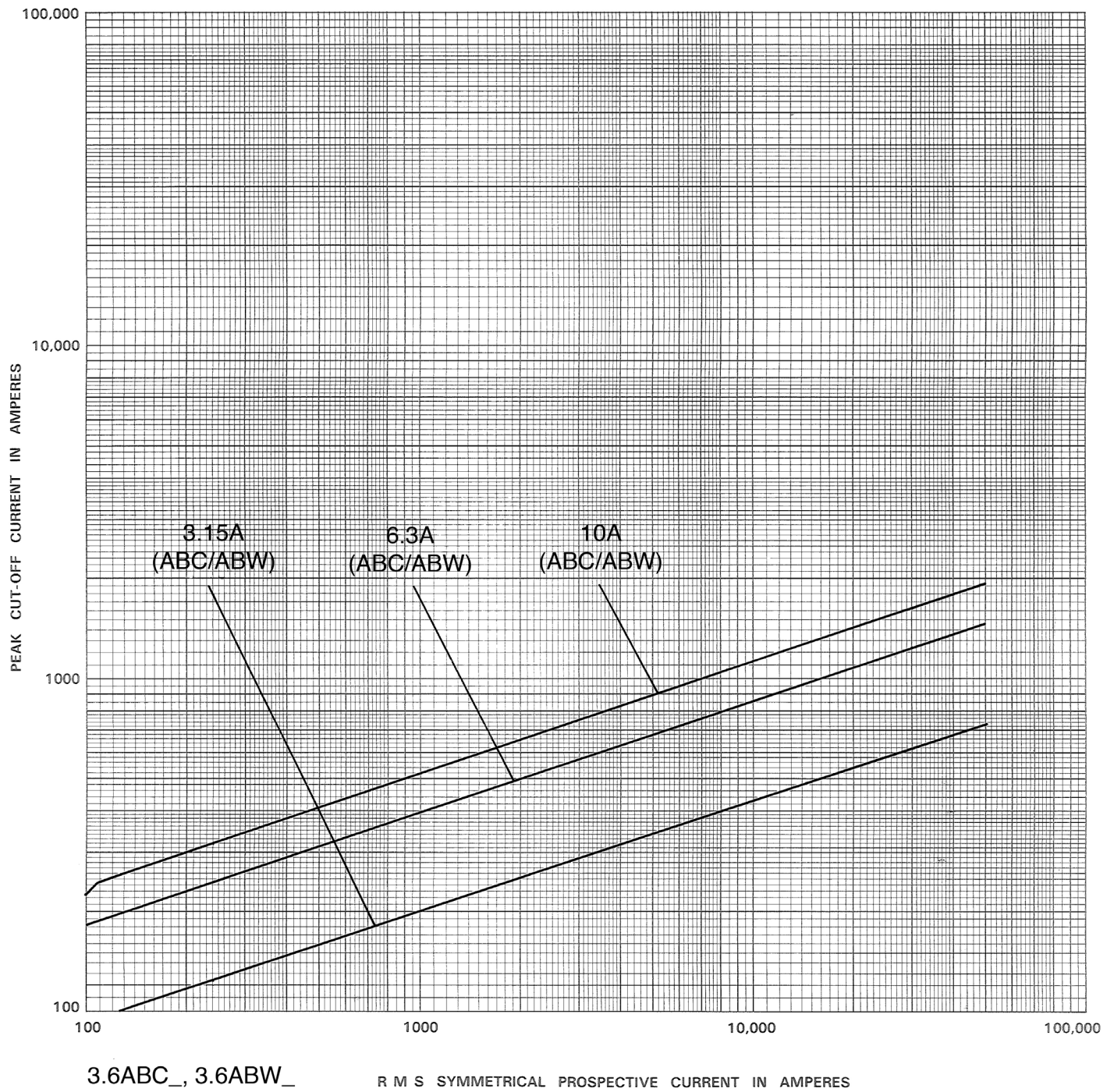
| Description                                               | Cat. No. |
|-----------------------------------------------------------|----------|
| Open fuseclip for 1.0 (25.4mm) dia. fuses                 | A3354705 |
| Open fuseclip for 1.56 (39.7mm) / 1.6 (40.6mm) dia. fuses | 1A0835   |

3.6 kVTime-current curves — minimum melting for 3.6CAV\_, 3.6ABC\_ and 3.6ABW\_



3.6ABC\_, 3.6ABW\_, 3.6CAV\_

3.6 kV Peak let-through curves for 3.6ABC\_ and 3.6ABW\_



### 5.5 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                   |                      |
|------------|----------------------|------------|----------------|----------------------------------------|-------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating    | Recommended fuseclip |
| 0.5        | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA.5E (63)  | 1A1837               |
| 0.5        | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 5.5ABWNA0.5E (50) | A3354705             |
| 0.5        | 7.4 (188)            | 1.6 (41)   | 6.2 (157)      | 5.5CAVH0.5E (50)                       | JCW-1/2E (40)     | 1A0835               |
| 0.5        | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-5 (80) <sup>†</sup>              | 5NCLPT-5E-A (63)  |                      |
| 1          | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 5.5ABWNA1E (50)   | A3354705             |
| 1          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA1E (63)   | 1A1837               |
| 1          | 7.4 (188)            | 1.6 (41)   | 6.2 (157)      | 5.5CAVH1E (50)                         | JCW-1E (40)       | 1A0835               |
| 1          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-1 (80) <sup>†</sup>              | 5NCLPT-1E-A (63)  |                      |
| 1.5        | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-1.5 (80) <sup>†</sup>            | —                 | 1A0835               |
| 2          | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 5.5ABWNA2E (50)   | A3354705             |
| 2          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA2E (63)   | 1A1837               |
| 2          | 7.4 (188)            | 1.6 (41)   | 6.2 (157)      | 5.5CAVH2E (50)                         | JCW-2E (40)       | 1A0835               |
| 2          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | —                                      | 5NCLPT-2E (63)    | 1A1837               |
| 3          | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 5.5ABWNA3E (50)   | A3354705             |
| 3          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA3E (63)   | 1A1837               |
| 3          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-3E (80)                          | 5NCLPT-3E (63)    | 1A0835               |
| 3          | 7.4 (188)            | 1.6 (41)   | 6.2 (157)      | —                                      | JCW-3E (40)       | 1A0835               |
| 4          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA4E (63)   | 1A1837               |
| 5          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-5E (80)                          | 5NCLPT-5E-A (63)  | 1A0835               |
| 5          | 5.6 (142)            | 1 (25)     | 4.4 (112)      | —                                      | 5.5ABWNA5E (50)   | A3354705             |
| 5          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 5.5AMWNA5E (63)   | 1A1837               |
| 5          | 7.3 (185)            | 1.6 (41)   | 5.9 (150)      | —                                      | JCW-5E (40)       | 1A0835               |
| 10         | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 5CLPT-10E (80)                         | 5NCLPT-10E-A (63) | 1A0835               |
| 15         | 7.4 (188)            | 1.6 (41)   | 6.2 (157)      | —                                      | 5.5CAV15E (50)    |                      |

<sup>†</sup> Due to manufacturing variances, this fuse does not comply with ANSI C37.46 for “E” rating. See time-current curves for performance characteristics.

### CLPT Type mountings and hardware 5.5 kV maximum (4.8kV nominal)\*

| Amp rating                       | Fuse mounting type**    | BIL (kV) | Catalog number                                   |                           |                                        |                                |
|----------------------------------|-------------------------|----------|--------------------------------------------------|---------------------------|----------------------------------------|--------------------------------|
|                                  |                         |          | Mounting (including live parts, end fittings)*** |                           | Live parts (including end fittings)*** | End fittings (disconnect only) |
|                                  |                         |          | Porcelain insulator                              | Glass-polyester insulator |                                        |                                |
| <b>CLPT and NCLPT-A Mounting</b> |                         |          |                                                  |                           |                                        |                                |
| 0.5–10                           | Non-disconnect          | 60       | 5CLPT-PNM-A                                      | 5CLPT-GNM-A               | CLPT-NL                                | —                              |
|                                  | Disconnect <sup>†</sup> | 60       | 5CLPT-PDM-A                                      | 5CLPT-GDM-A               | CLPT-DL                                | CLPT-DF                        |

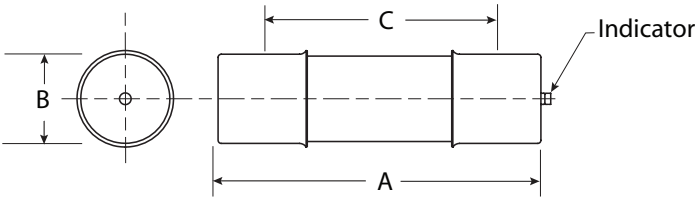
\* Refers to 5CLPT and 5NCLPT fuses only.

\*\* See page 70 for dimensions and diagrams of typical mounting.

\*\*\* End fittings supplied only when required.

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

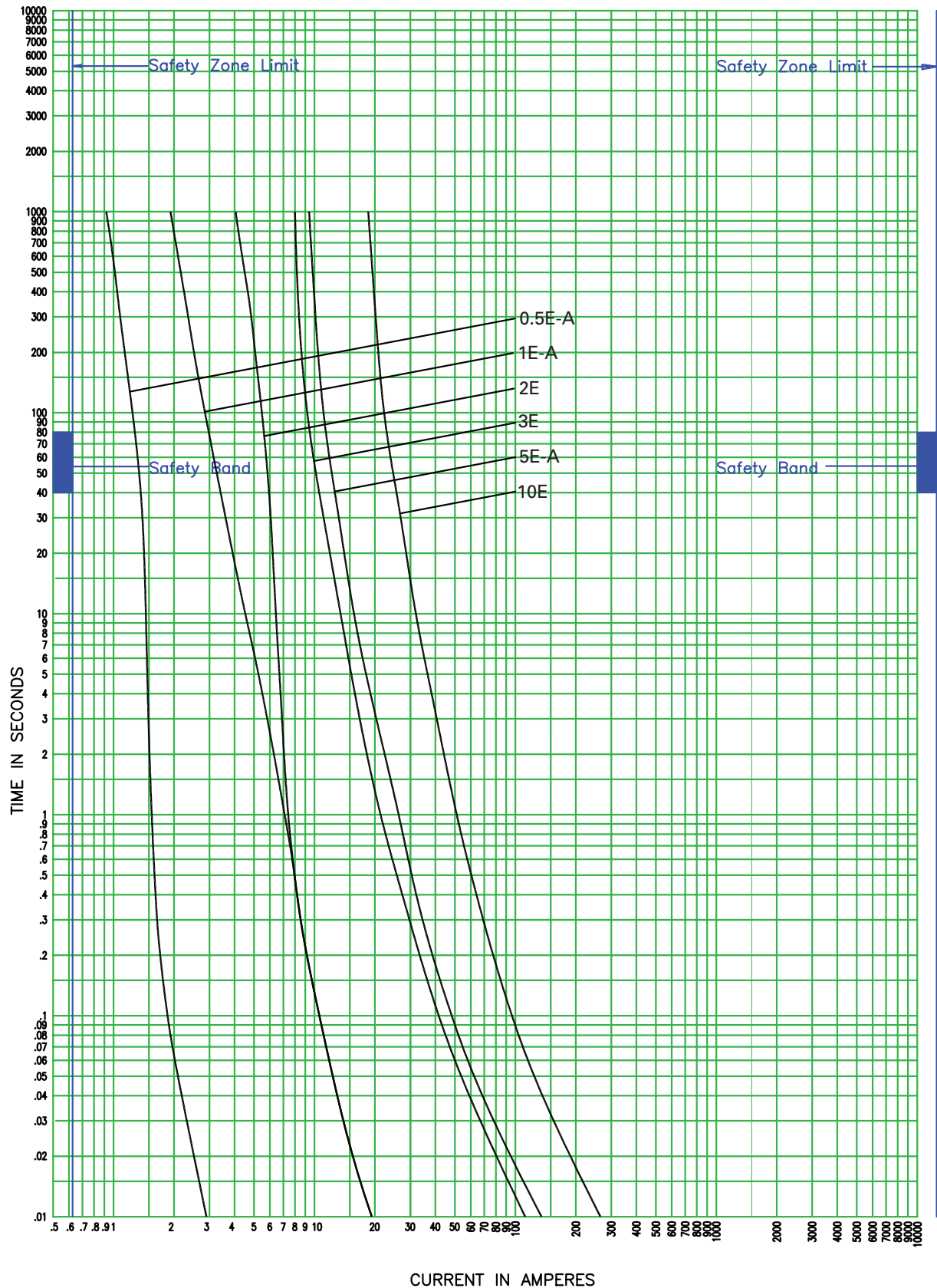
Dimensions (see catalog number tables for values)



Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 0.8 (20 mm) dia. fuses                    | 1A1837   |
| Open fuseclip for 1.0 (25.4 mm) dia. fuses                  | A3354705 |
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

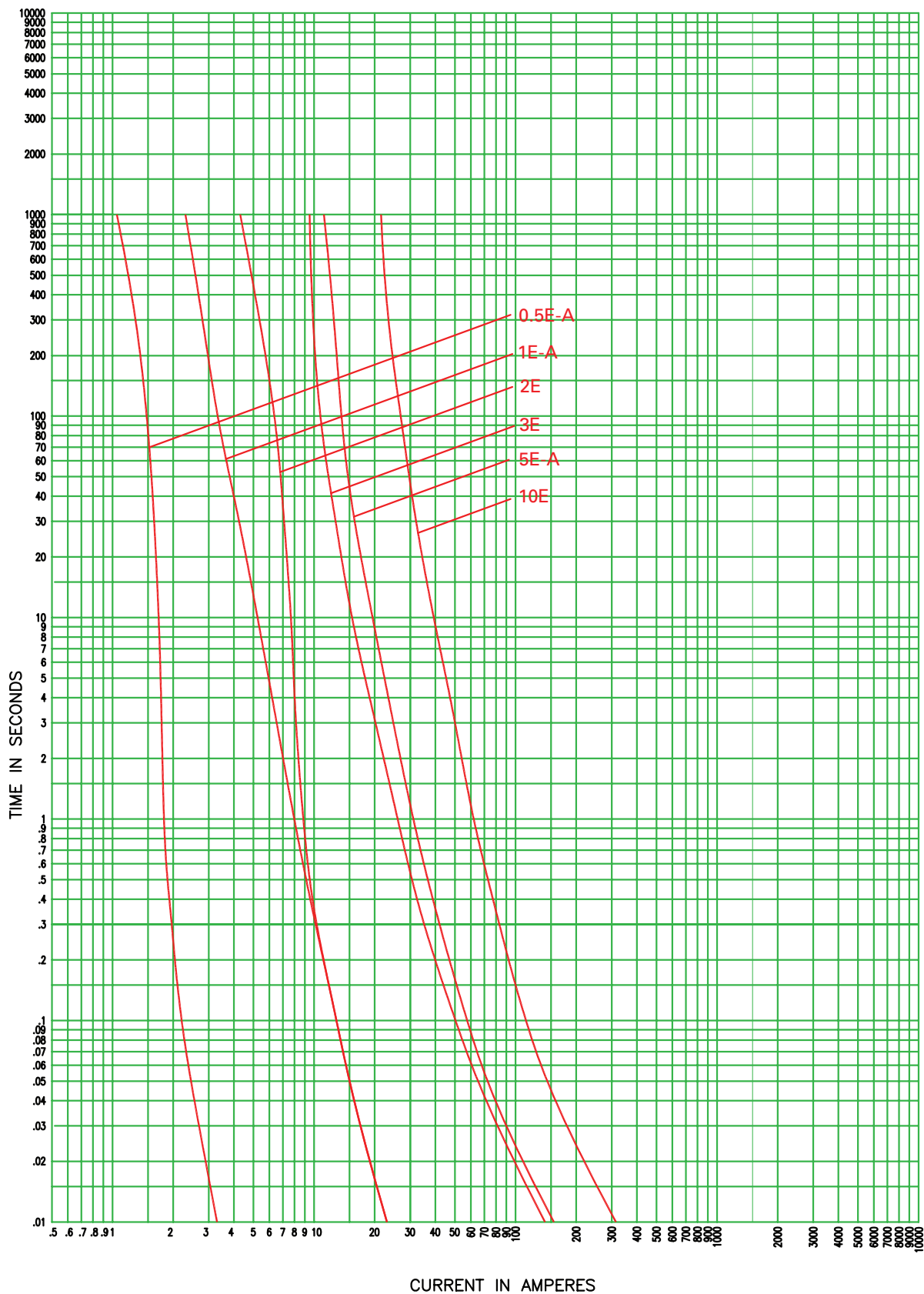
5.5 kV time-current curves — minimum melting for 5NCLPT\_-A



5NCLPT\_E

CURVE TC70548302  
December 2008

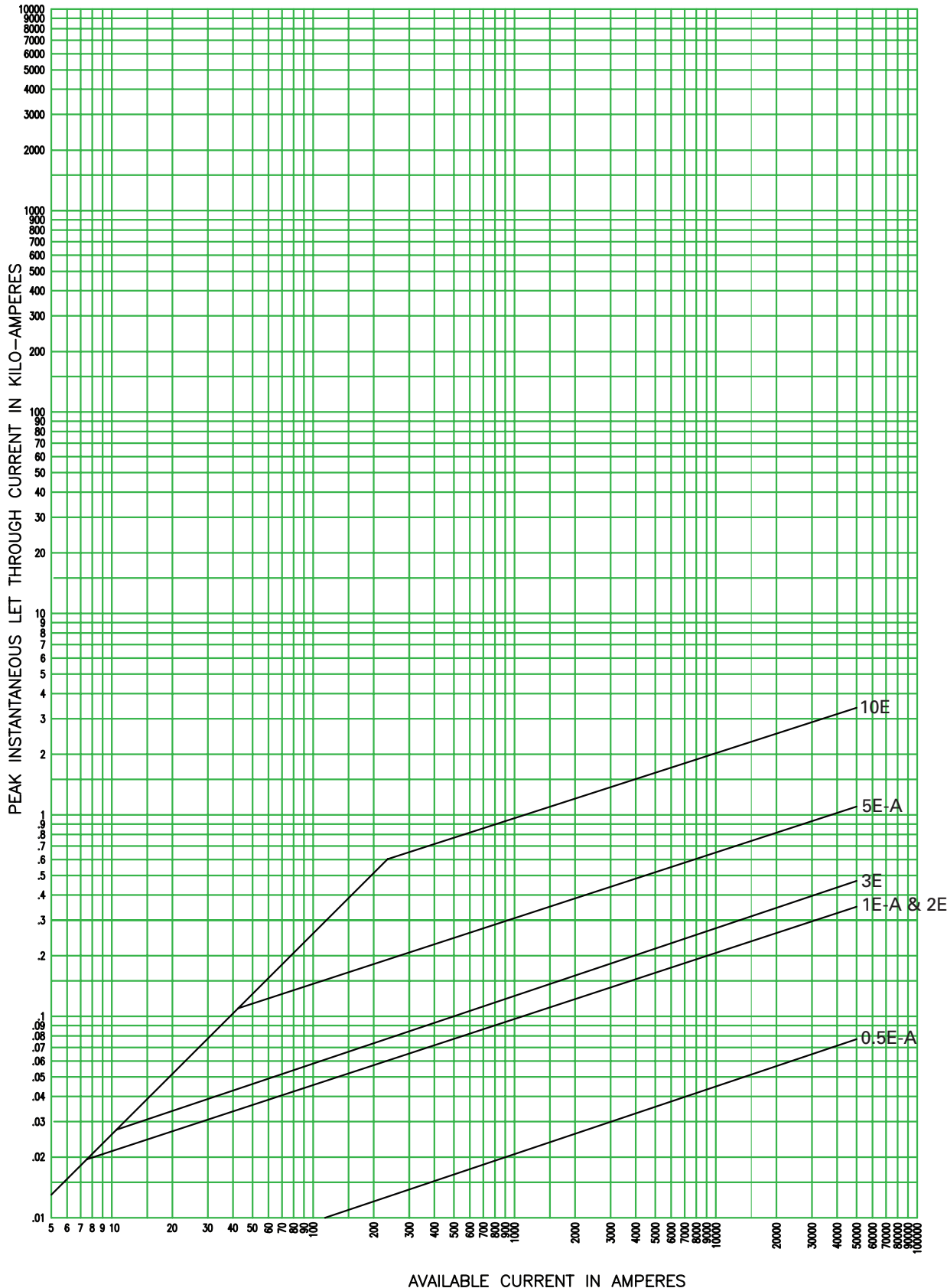
5.5 kV time-current curves — total clearing for 5NCLPT\_-A



5NCLPT\_E

CURVE TC70548402  
December 2008

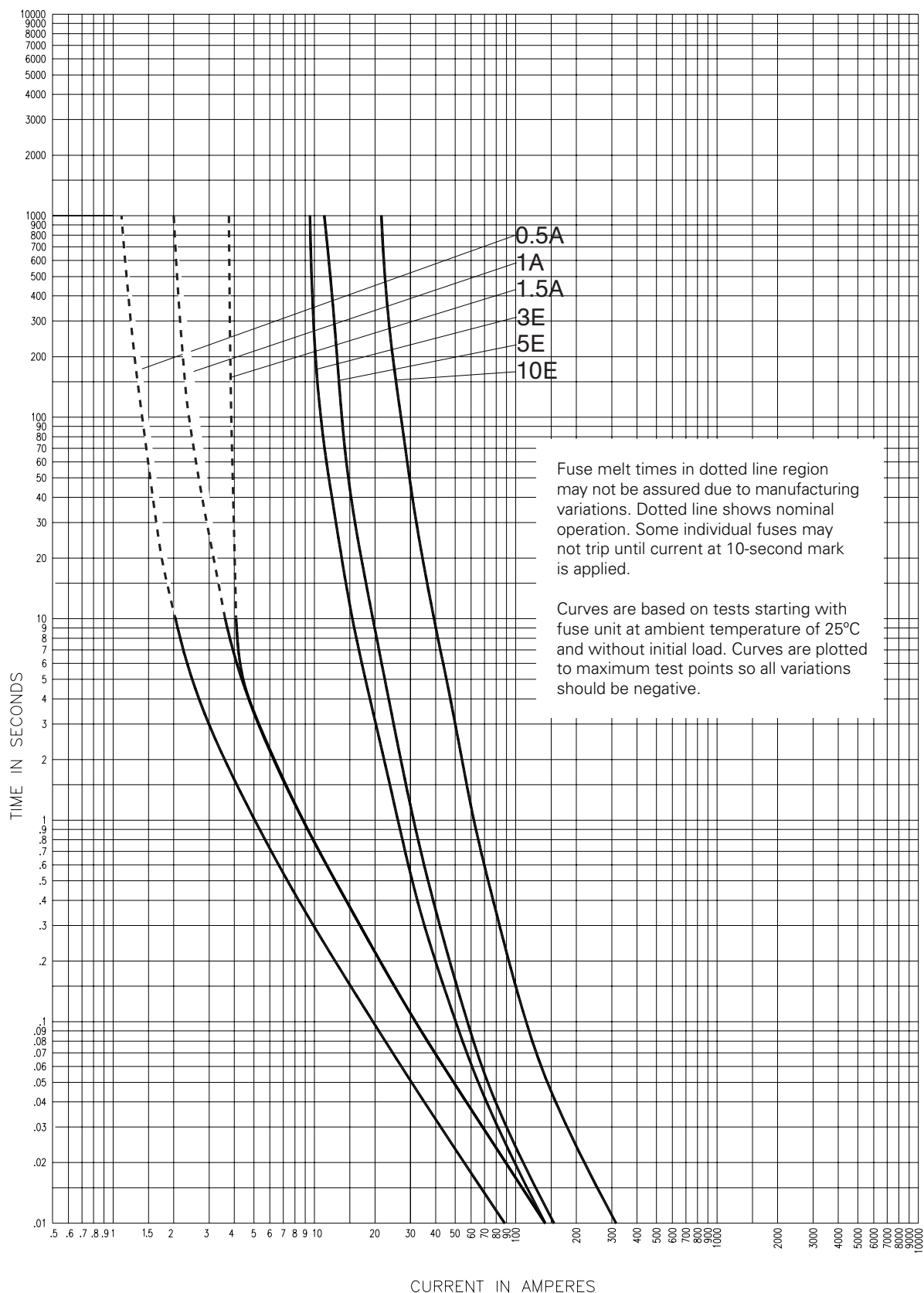
5.5 kV peak let-through curves for 5NCLPT\_-A



5NCLPT- E

CURVE TC63934002  
December 2008

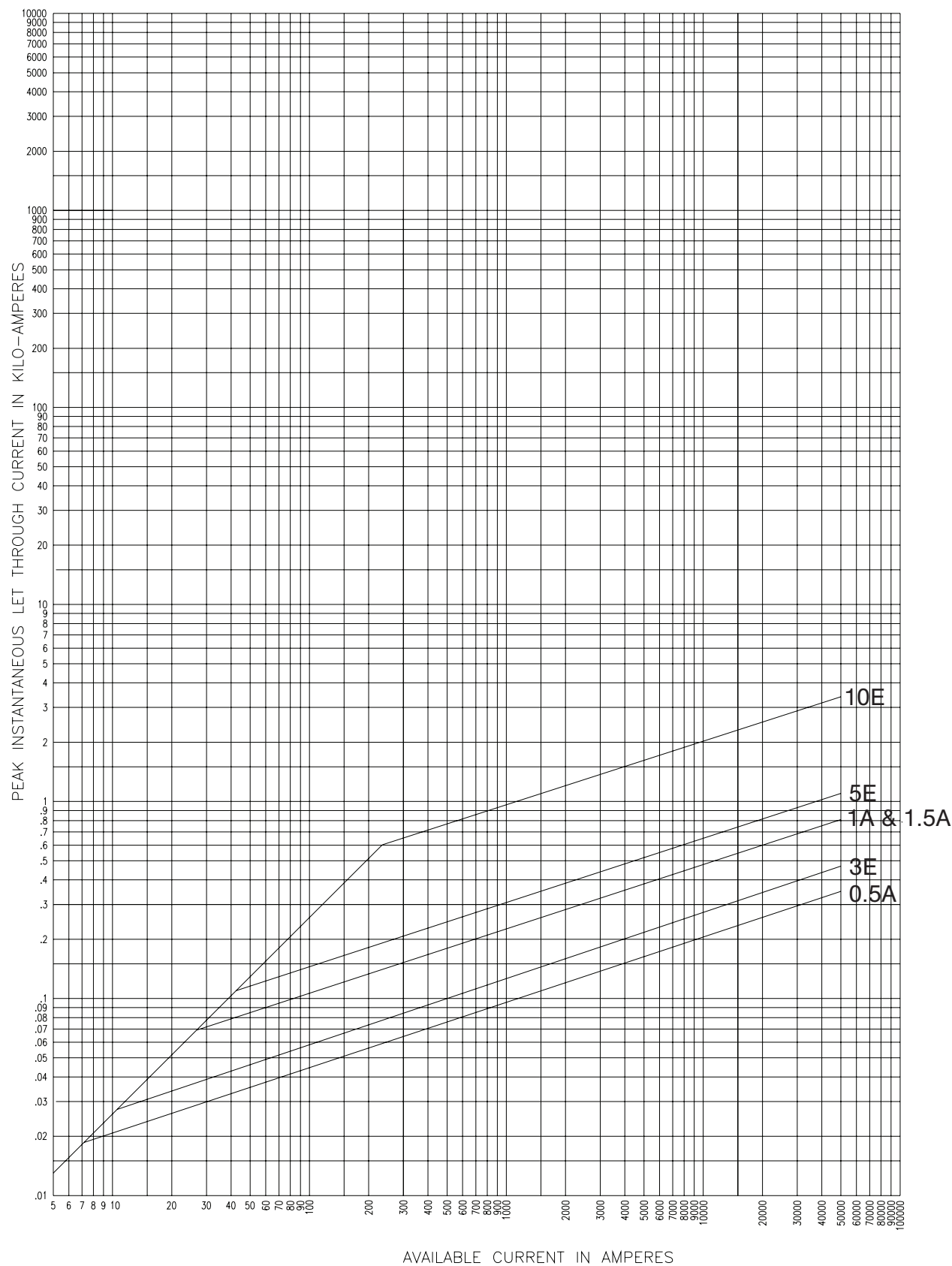
5.5 kV Time-current curves — total clearing for 5CLPT\_



5CLPT\_

Curve TC56353306  
August 2011

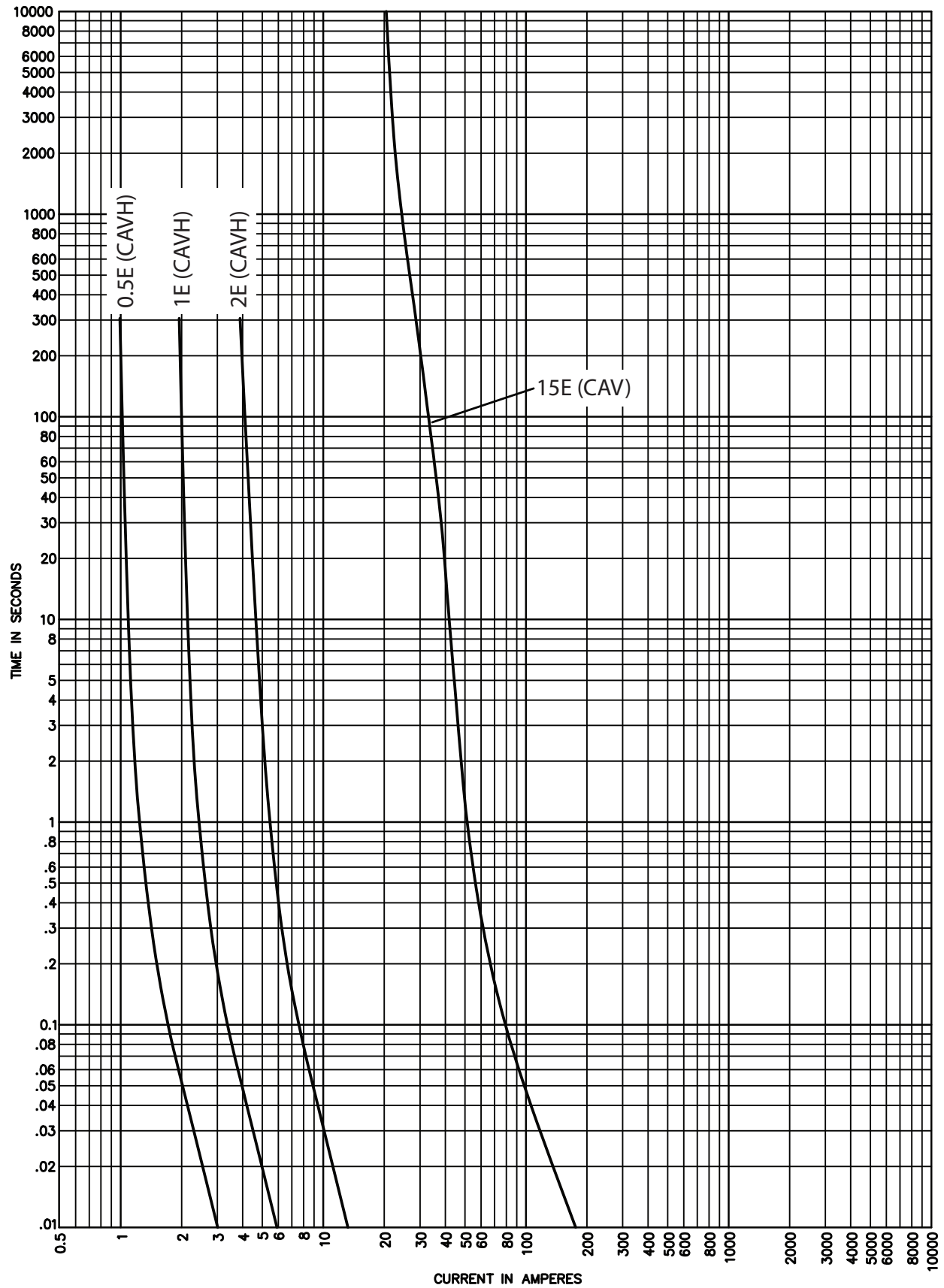
5.5 kV peak let-through curves for 5CLPT\_



5CLPT\_

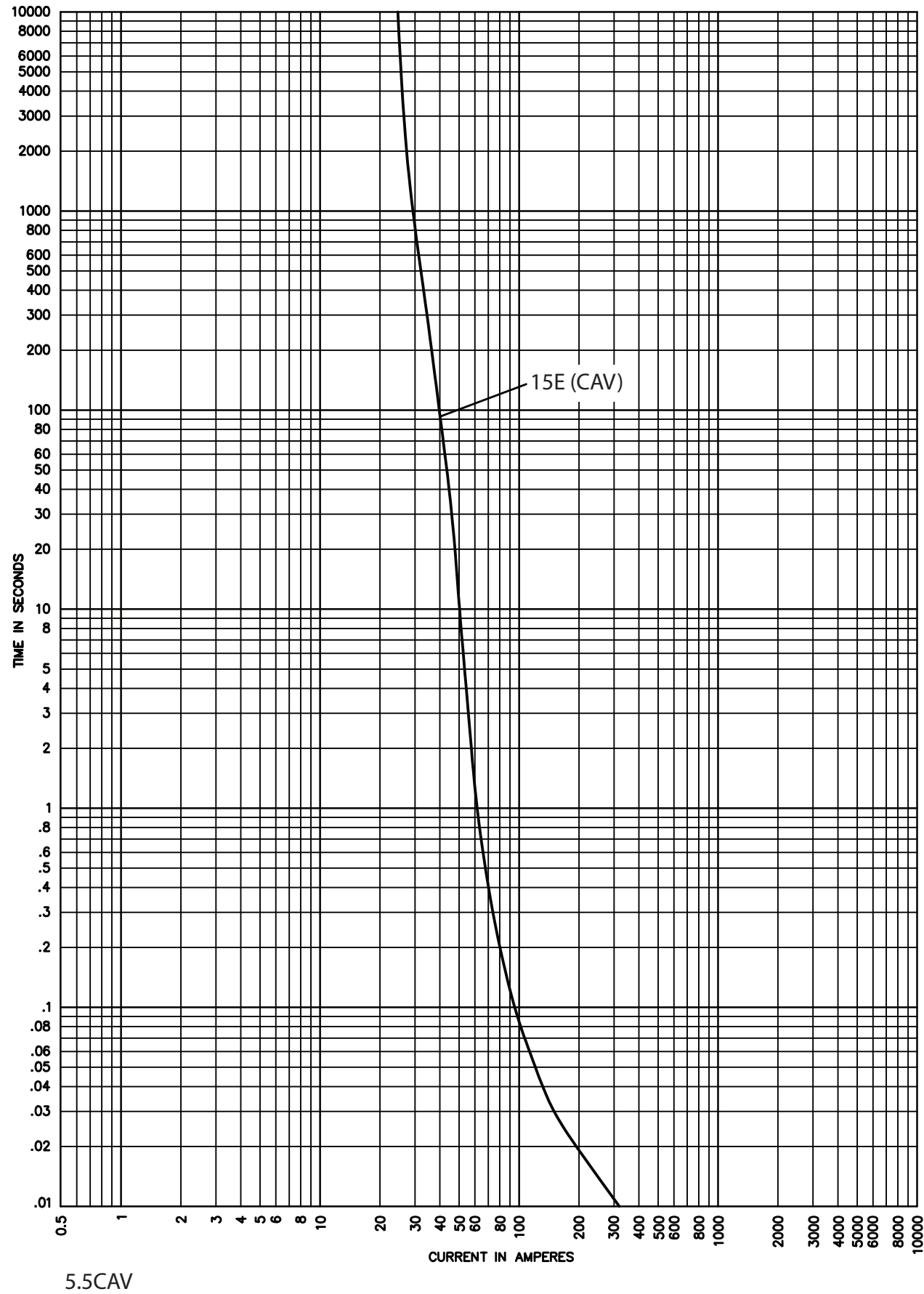
Curve TC63934001  
March 2013

5.5 kV time-current curves — minimum melting for 5.5CAV\_ and 5.5CAVH\_



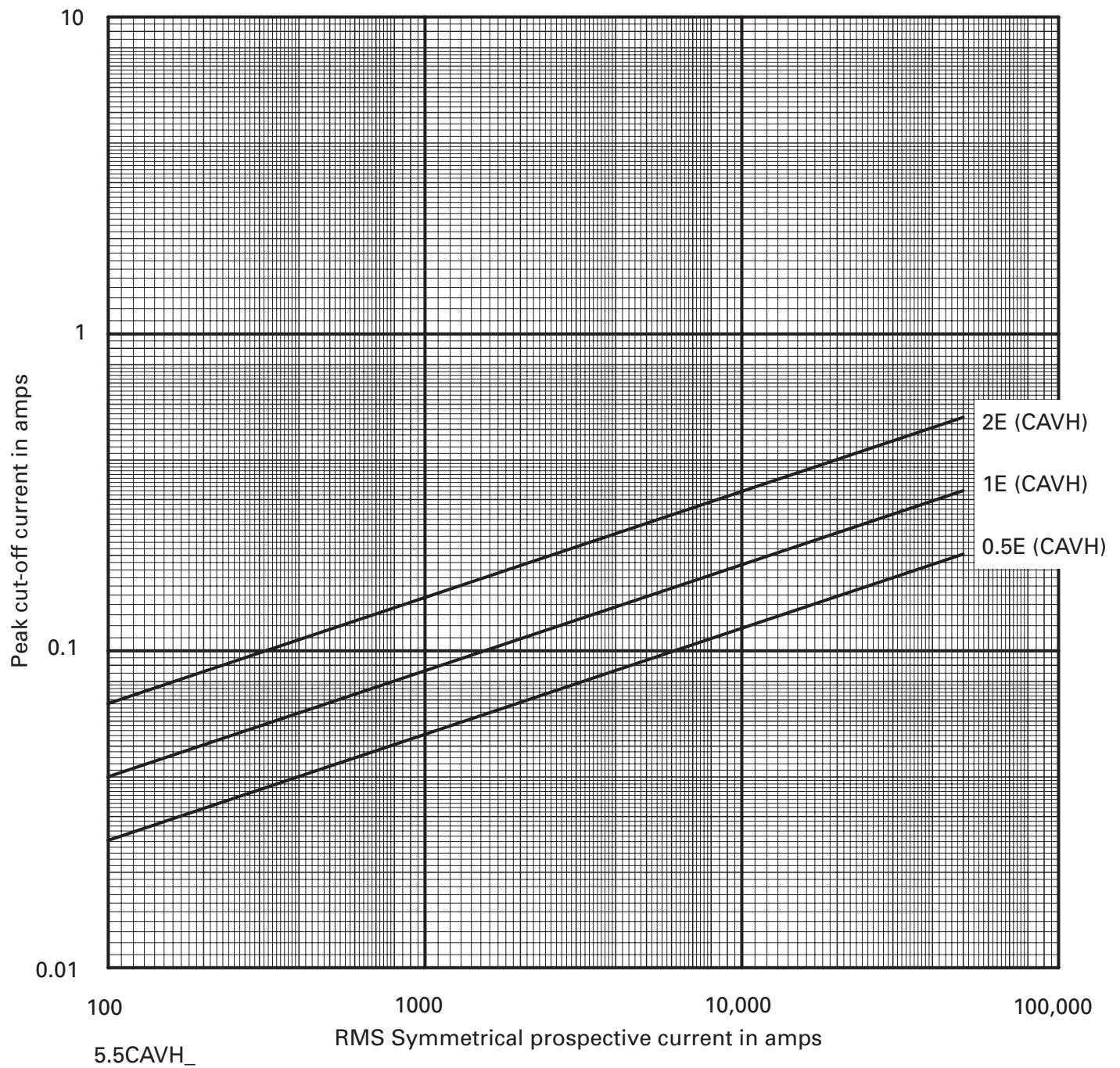
5.5CAV\_, 5.5CAVH\_

5.5 kV time-current curves — total clearing for 5.5CAV\_

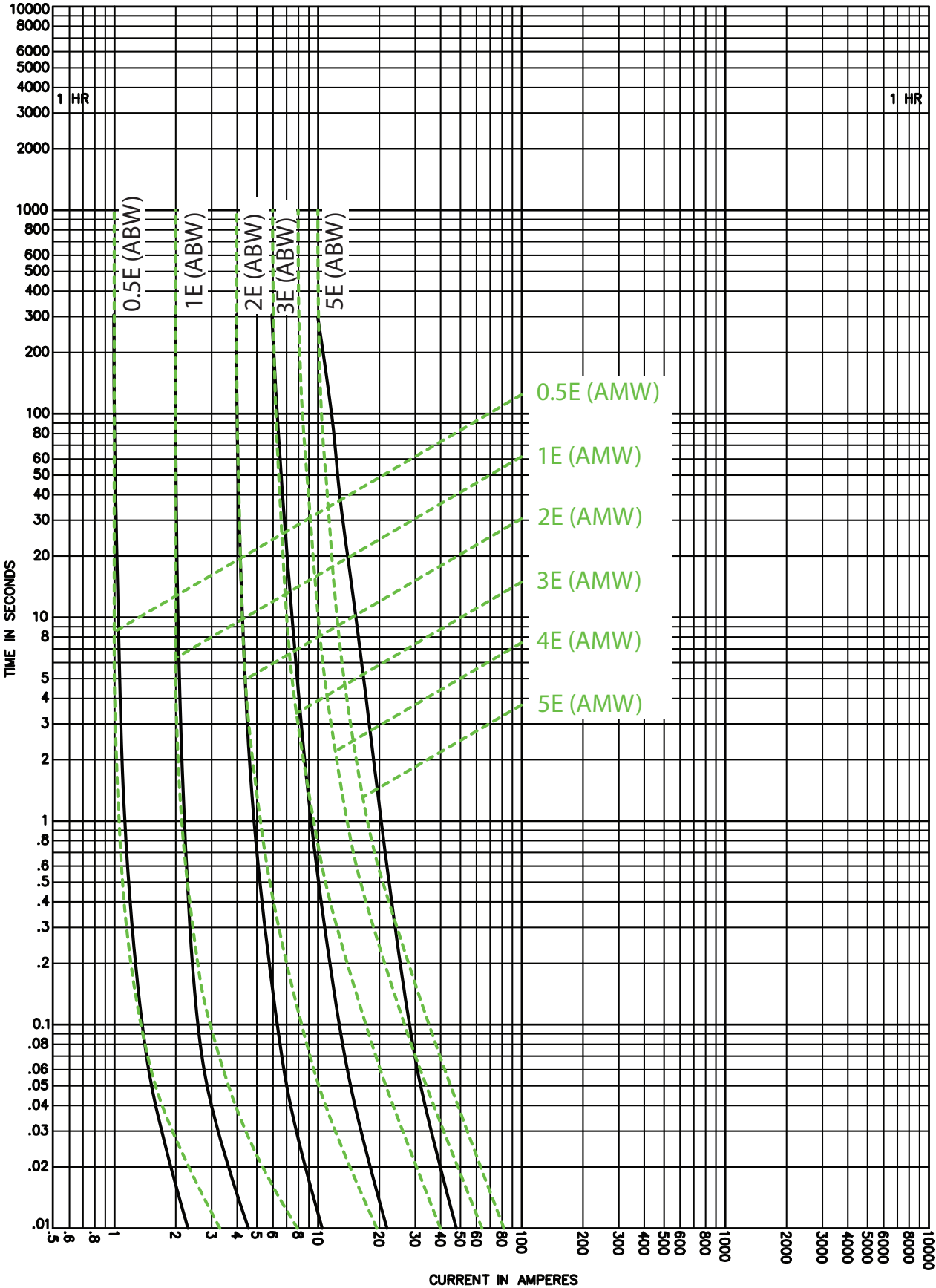


5.5CAV

5.5 kV peak let-through curves for 5.5CAVH\_

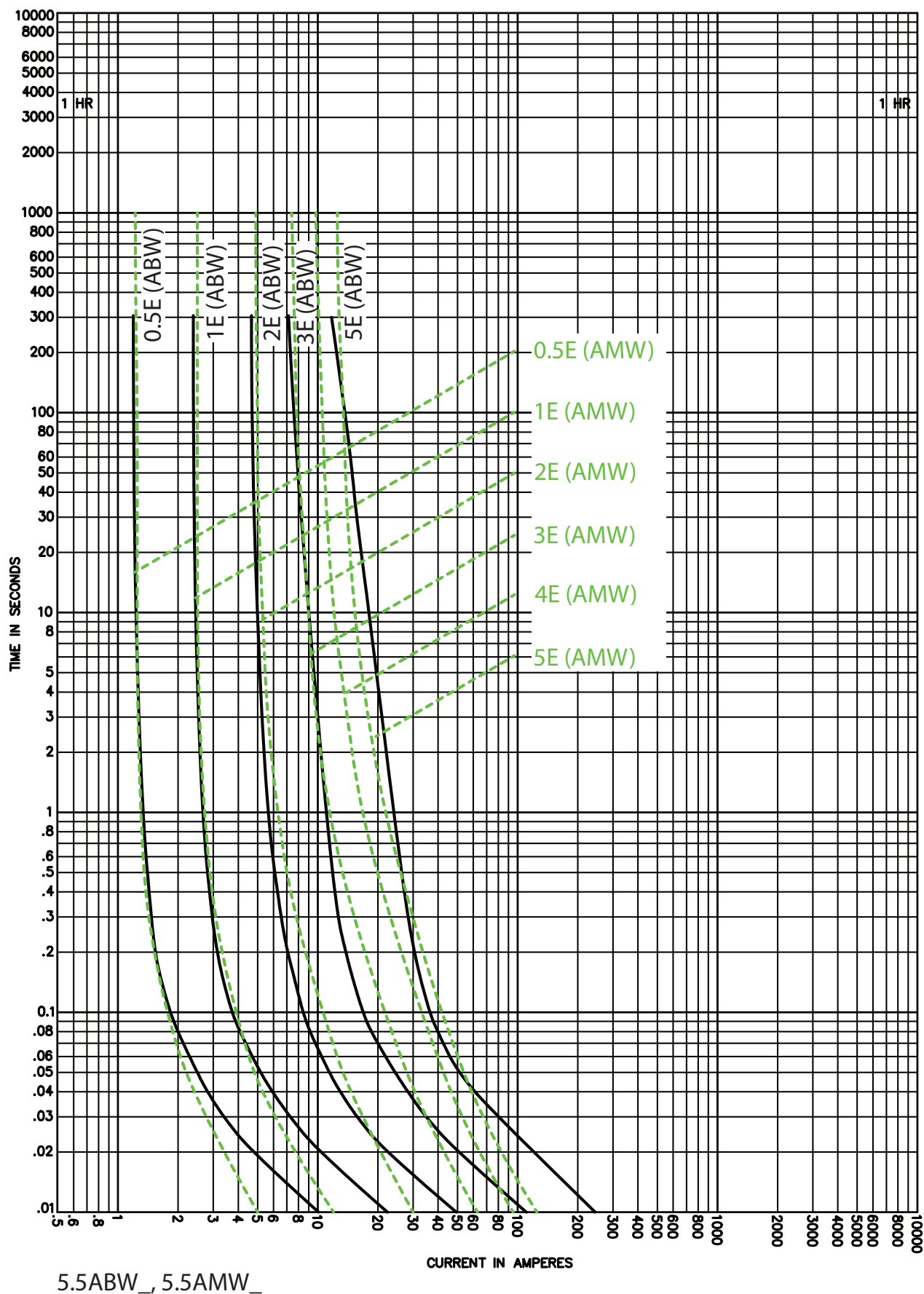


5.5 kV time-current curves — minimum melting for 5.5ABW\_ and 5.5AMW\_



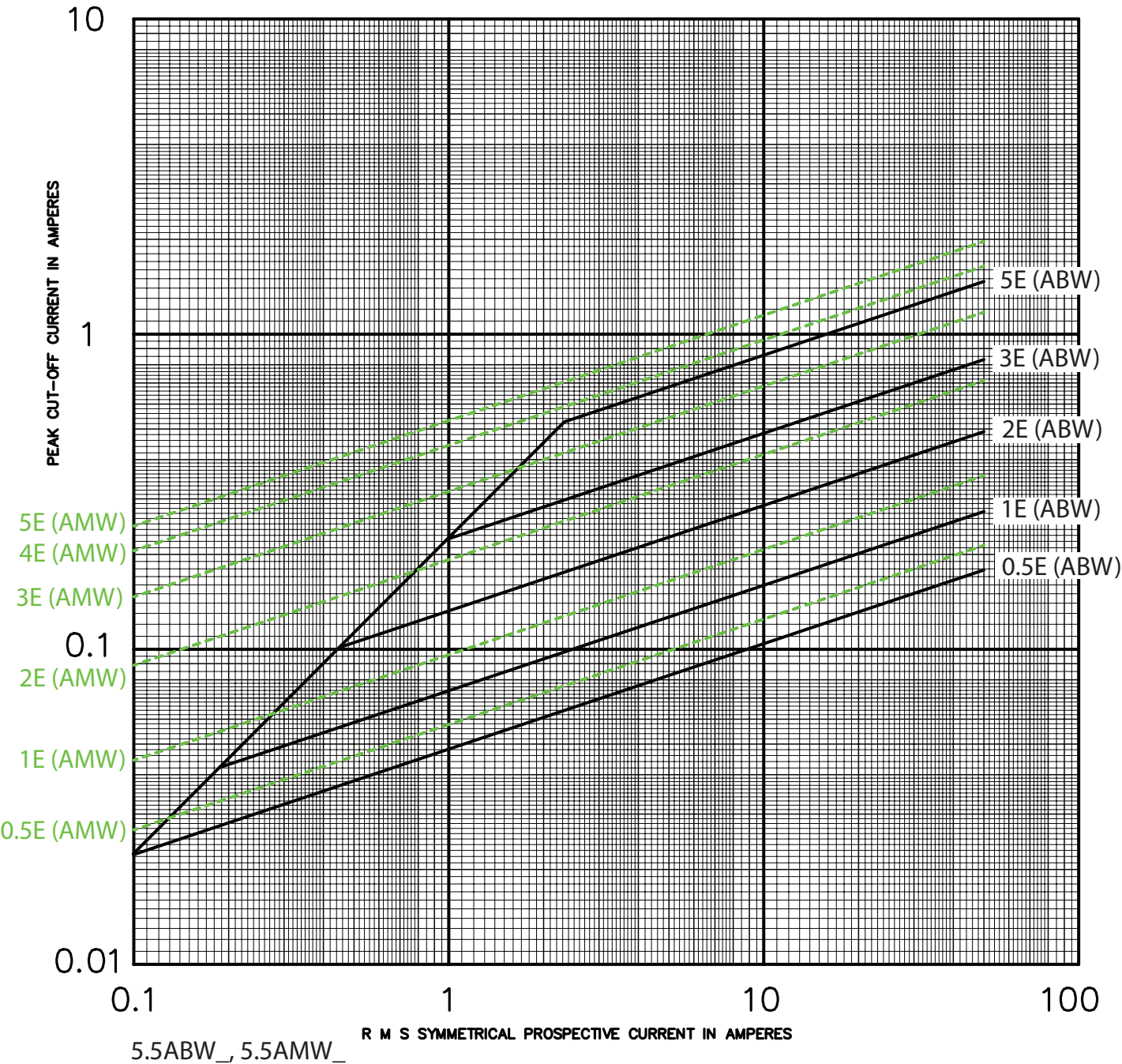
5.5ABW\_, 5.5AMW\_

5.5 kV time-current curves — total clearing for 5.5ABW\_ and 5.5AMW\_



5.5ABW\_, 5.5AMW\_

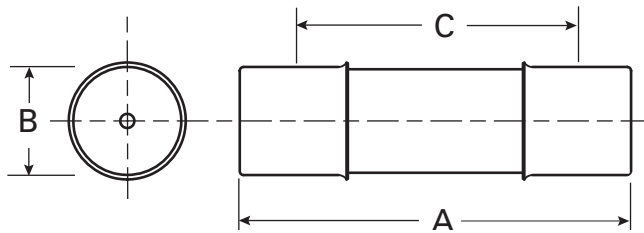
5.5 kV peak let-through curves for 5.5ABW\_ and 5.5AMW\_



7.2 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                   | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|-------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating    |                      |
| 0.5        | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA0.5E (50) | 1A1837               |
| 1          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA1.0E (50) |                      |
| 2          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA2.0E (50) |                      |
| 2          | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 7.2CAV2 (40)      | 1A0835               |
| 3          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA3.0E (50) | 1A1837               |
| 3.15       | 5.6 (142)            | 1 (25.4)   | 4.4 (112)      | —                                      | 7.2ABWNA3.15 (45) | A3354705             |
| 3.15       | 7.7 (195)            | 1 (25.4)   | 6.5 (165)      | —                                      | 7.2ABCNA3.15 (45) |                      |
| 4          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA4.0E (50) | 1A1837               |
| 4          | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 7.2CAV4 (40)      | 1A0835               |
| 5          | 5.6 (142)            | 0.8 (20)   | 4.8 (122)      | —                                      | 7.2AMWNA5E (50)   | 1A1837               |
| 6          | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 7.2CAV6 (40)      | 1A0835               |
| 6.3        | 5.6 (142)            | 1 (25.4)   | 4.4 (112)      | —                                      | 7.2ABWNA6.3 (45)  | A3354705             |
| 6.3        | 7.7 (195)            | 1 (25.4)   | 6.5 (165)      | —                                      | 7.2ABCNA6.3 (45)  |                      |
| 10         | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 7.2CAV10 (40)     | 1A0835               |

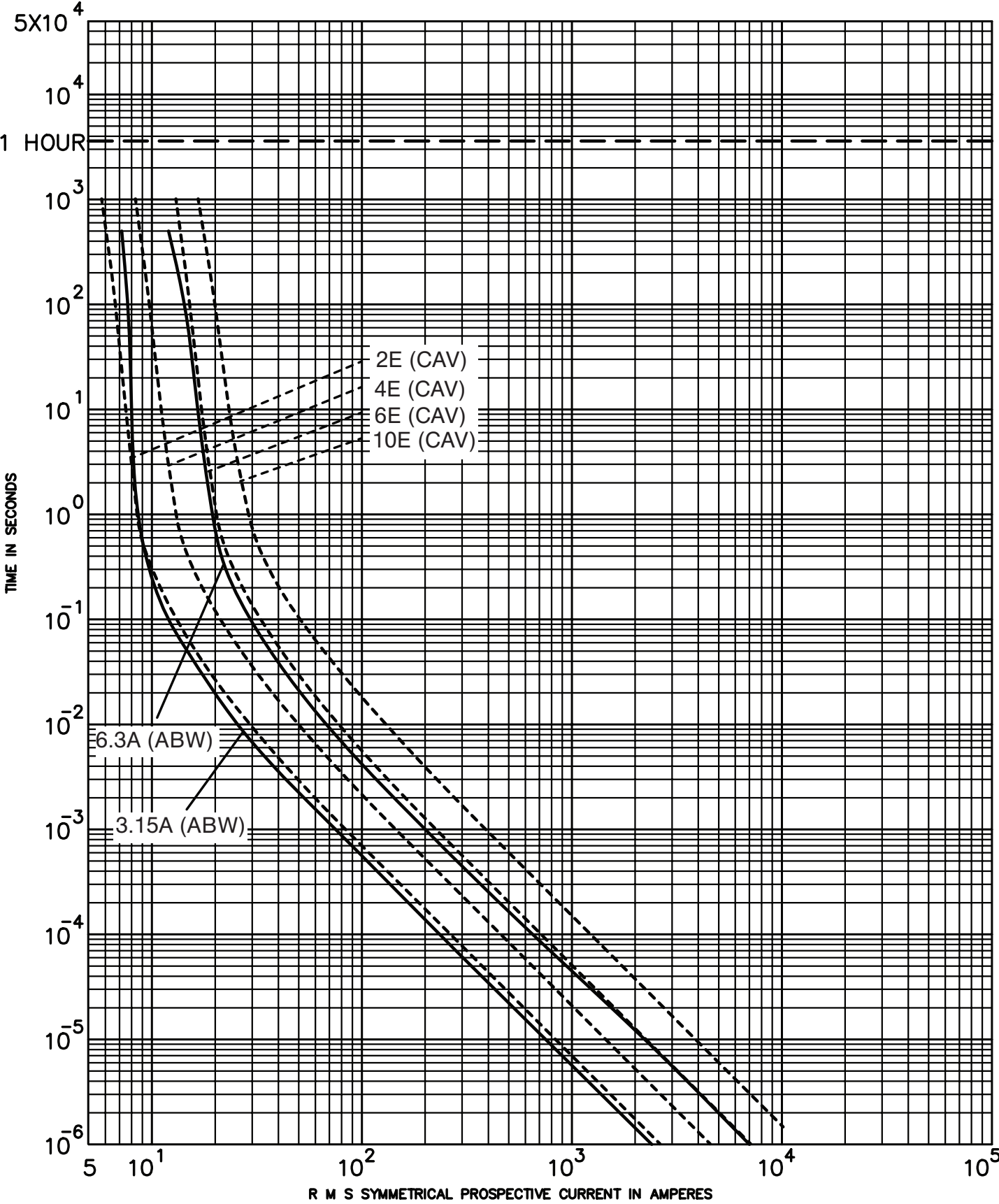
Dimensions (see catalog number tables for values)



Recommended fuseclips

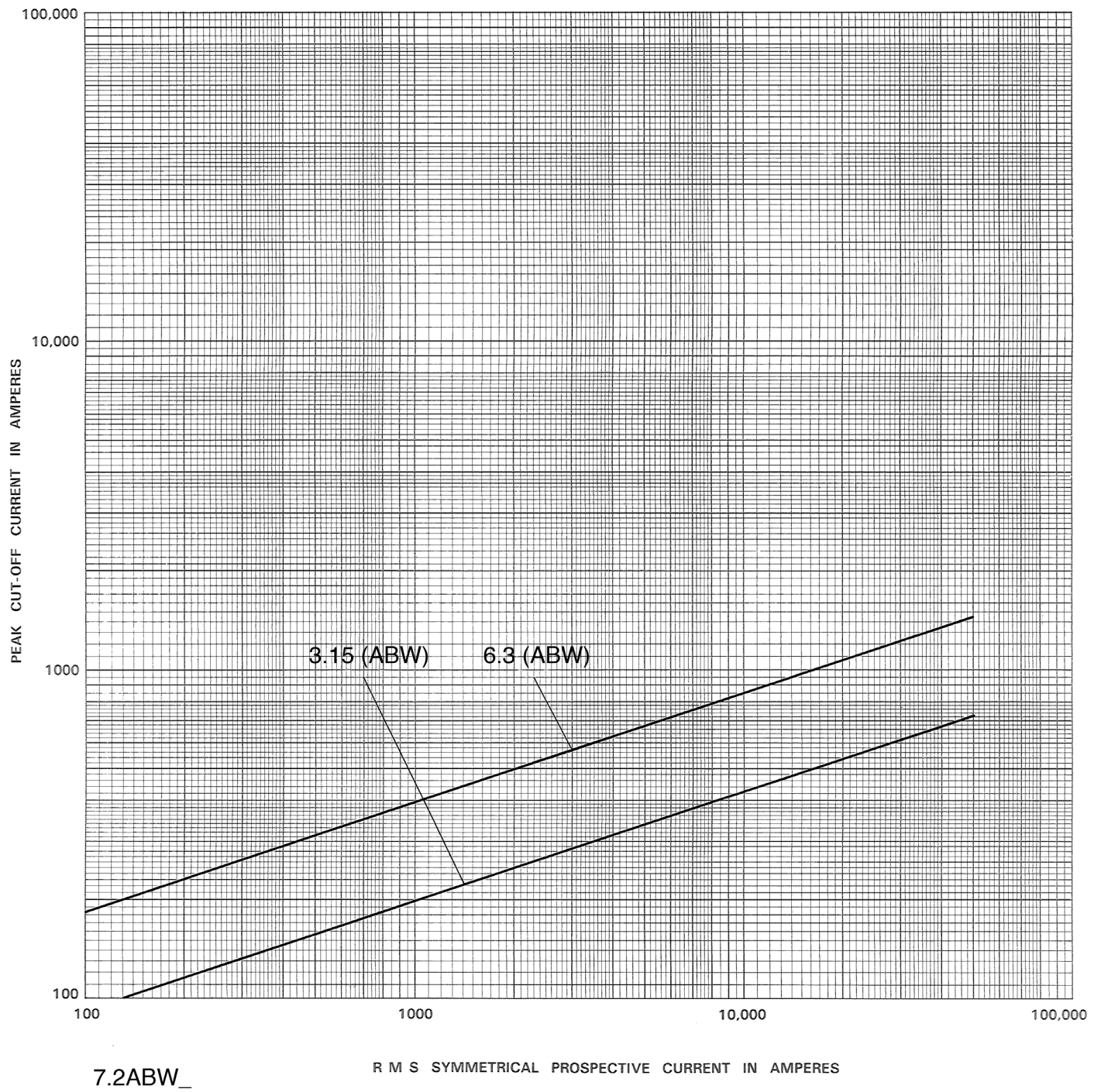
| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 0.8 (20 mm) dia. fuses                    | 1A1837   |
| Open fuseclip for 1.0 (25.4 mm) dia. fuses                  | A3354705 |
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

7.2 kV time-current curves — minimum melting for 7.2ABW\_ and 7.2CAV\_



7.2ABW\_ 7.2CAV\_

7.2 kV peak let-through curves for 7.2ABW\_



### 8.3 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (interrupting rating - kA) |                   | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|-------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating    |                      |
| 0.5        | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | 8CLPT-5 (50) <sup>†</sup>              | 8NCLPT-5E-A (50)  | 1A0835               |
| 1          | 5 (127)              | 1.1 (28)   | 4 (102)        | —                                      | 8NCLPT-1E (50)    | A3354705             |
| 1          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | —                                      | 8NCLPT-1E-A (50)  | 1A0835               |
| 2          | 8 (203)              | 0.8 (20)   | 7.2 (183)      | —                                      | 8NCLPT-2E (25)    | 1A1837               |
| 2          | 9.5 (241)            | 1.6 (41)   | 8.1 (206)      | —                                      | 8NCLPT-2E-A (50)  | 1A0835               |
| 3          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 8CLPT-3E (50)                          | 8NCLPT-3E-B (50)  |                      |
| 4          | 8 (203)              | 0.8 (20)   | 7.2 (183)      | —                                      | 8NCLPT-4E (25)    | 1A1837               |
| 5          | 5 (127)              | 1.1 (28)   | 4 (102)        | —                                      | 8NCLPT-5E (50)    | A3354705             |
| 5          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 8CLPT-5E (50)                          | 8NCLPT-5E-B (50)  | 1A0835               |
| 8          | 5 (127)              | 1.1 (28)   | 4 (102)        | —                                      | 8NCLPT-8E (50)    |                      |
| 10         | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 8CLPT-10E (50)                         | 8NCLPT-10E-B (50) |                      |

<sup>†</sup> Does not comply with ANSI C37.46 for “E” rating.

### CLPT type mountings and hardware 8.3 kV maximum (7.2 kV nominal)\*

| Amp rating | Fuse mounting type**    | BIL (kV) | Catalog number                                   |             |                                        |                                |
|------------|-------------------------|----------|--------------------------------------------------|-------------|----------------------------------------|--------------------------------|
|            |                         |          | Mounting (including live parts, end fittings)*** |             | Live parts (including end fittings)*** | End fittings (disconnect only) |
| 0.5–2      | Non-disconnect          | 75       | 8CLPT-PNM-A                                      | 8CLPT-GNM-A | CLPT-NL                                | —                              |
|            | Disconnect <sup>†</sup> | 75       | 8CLPT-PDM-A                                      | 8CLPT-GDM-A | CLPT-DL                                | CLPT-DF                        |
| 3–10       | Non-disconnect          | 75       | 8CLPT-PNM-B                                      | 8CLPT-GNM-B | CLPT-NL                                | —                              |
|            | Disconnect <sup>†</sup> | 75       | 8CLPT-PDM-B                                      | 8CLPT-GDM-B | CLPT-DL                                | CLPT-DF                        |

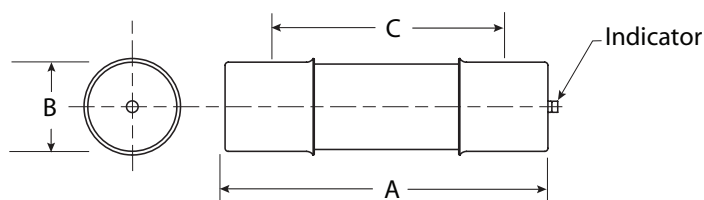
\* Refers to 8CLPT and 8NCLPT-A or -B fuses only.

\*\* See page 70 for dimensions and diagrams of typical mounting.

\*\*\* End fittings supplied only when required.

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

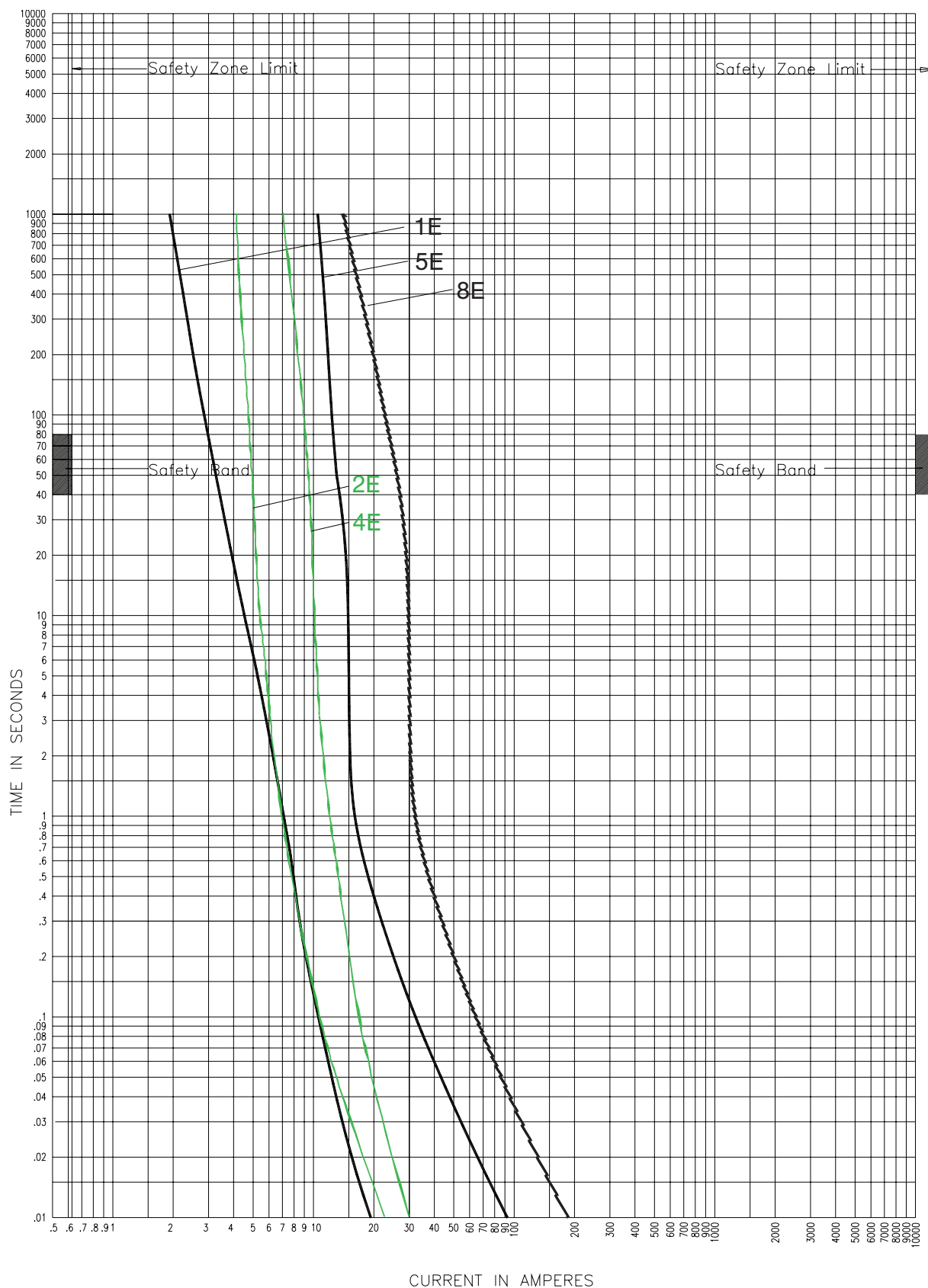
### Dimensions (see catalog number tables for values)



### Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 0.8 (20 mm) dia. fuses                    | 1A1837   |
| Open fuseclip for 1.0 (25.4 mm) dia. fuses                  | A3354705 |
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

8.3 kV time-current curves — minimum melting for 8NCLPT\_

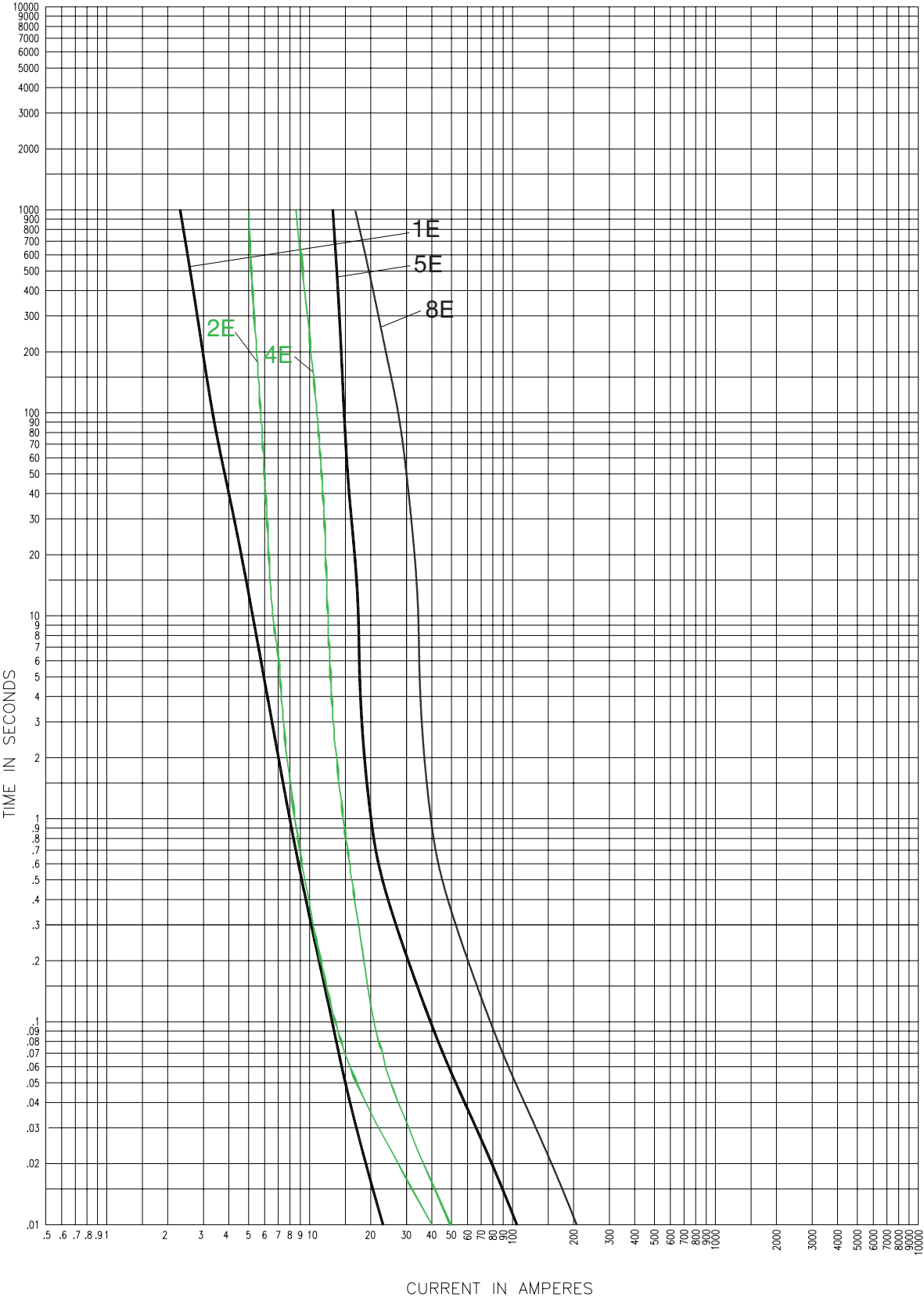


8NCLPT\_

Curve 59887102  
July 2002  
Reference # 628852, 598871

Curve TC56357206  
December 2008

8.3 kV time-current curves — total clearing for 8NCLPT\_



8NCLPT\_

Curve 59887104  
July 2002  
Reference # 598871

Curve TC59883706  
December 2008

8.3 kV peak let-through curves for 8NCLPT\_

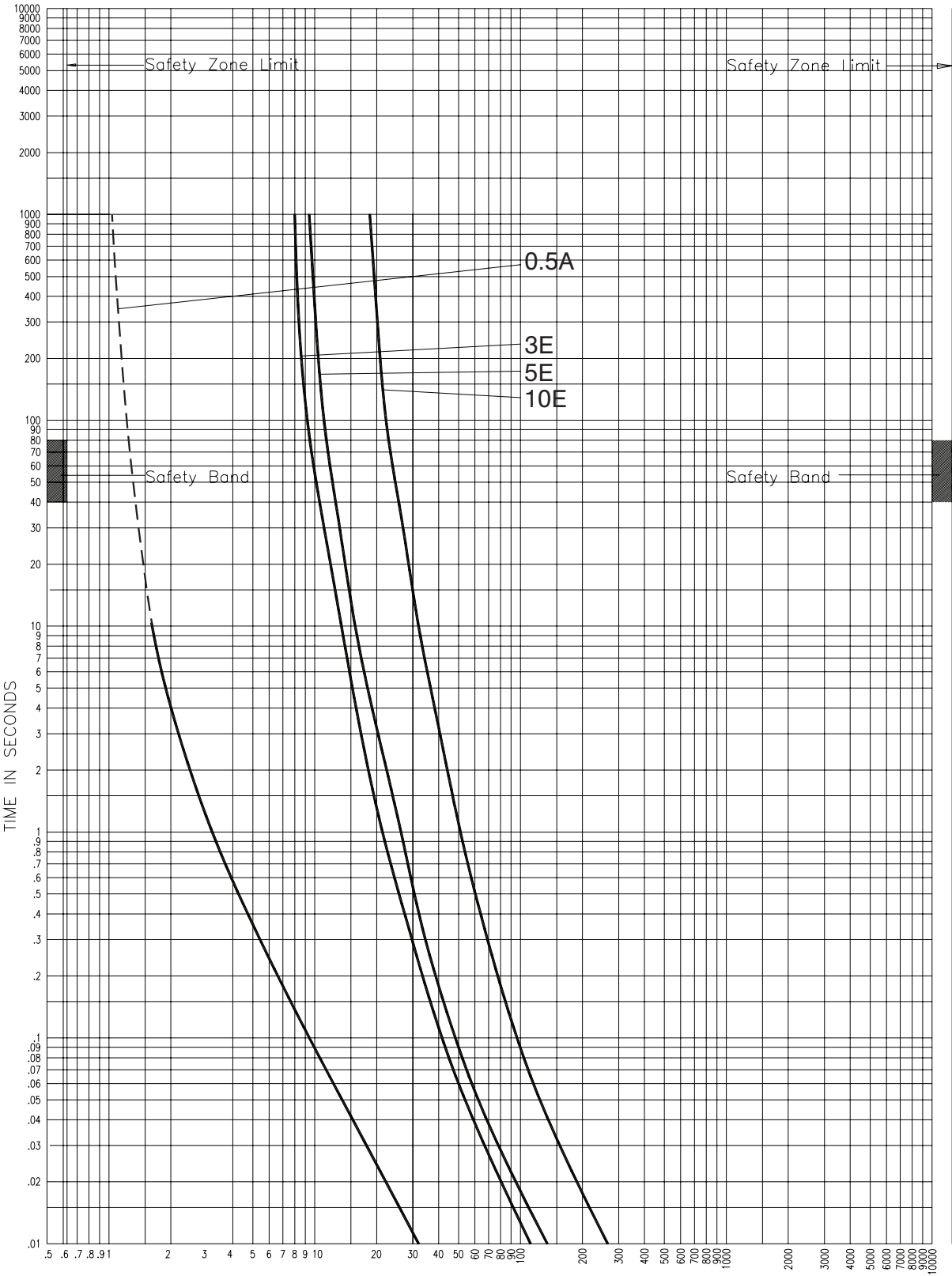


8NCLPT\_

Curve 63933703  
July 2001  
Reference # 639337

Curve TC63933704  
December 2008

8.3 kV time-current curves — minimum melting for 8CLPT\_

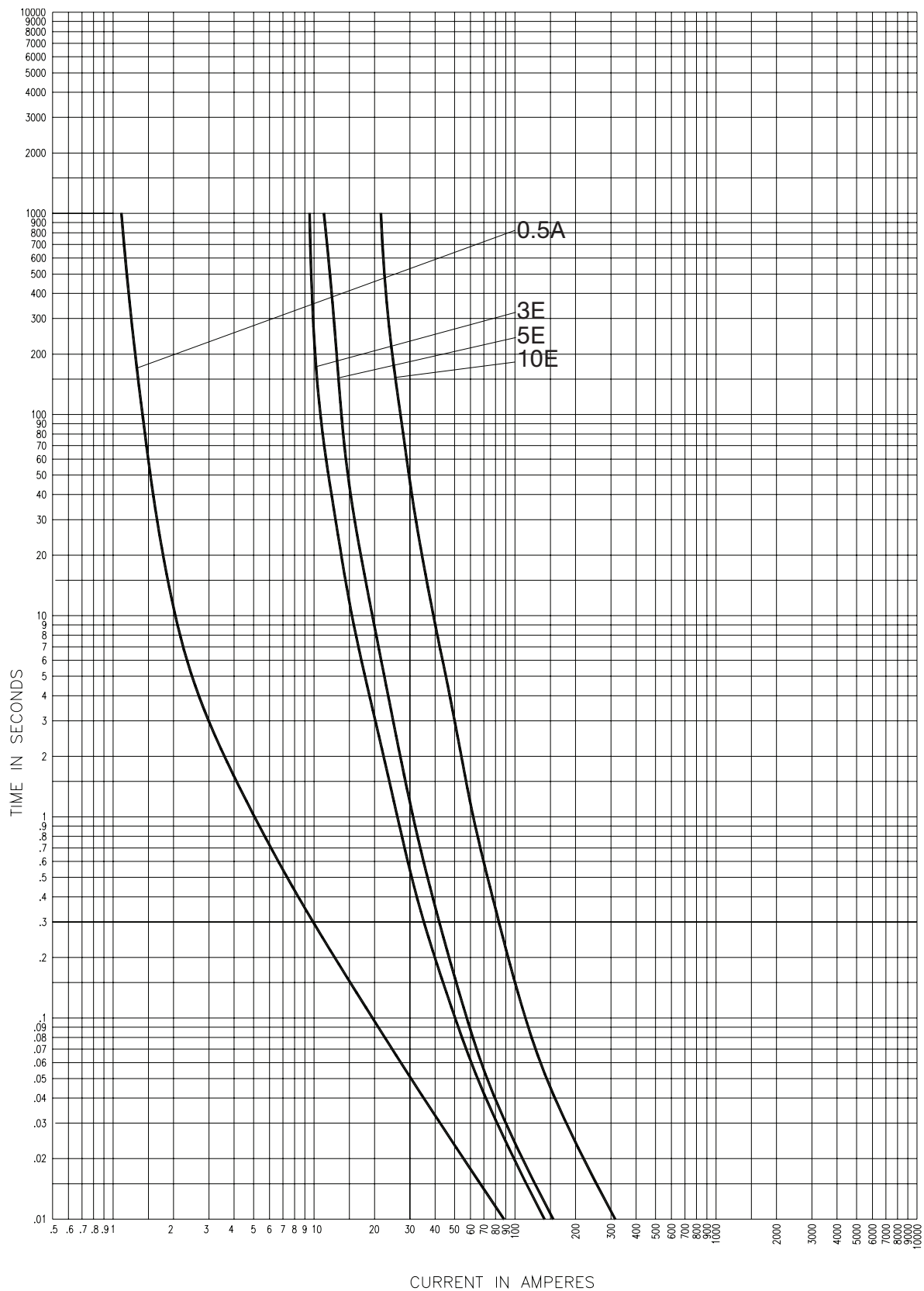


8CLPT\_

0.5 A fuse melt time in the dotted line region may not be assured due to manufacturing variations. The dotted lines show nominal operation. Some individual fuses may not open until current at 10-second mark is applied.

Curve TC56353206  
December 2013

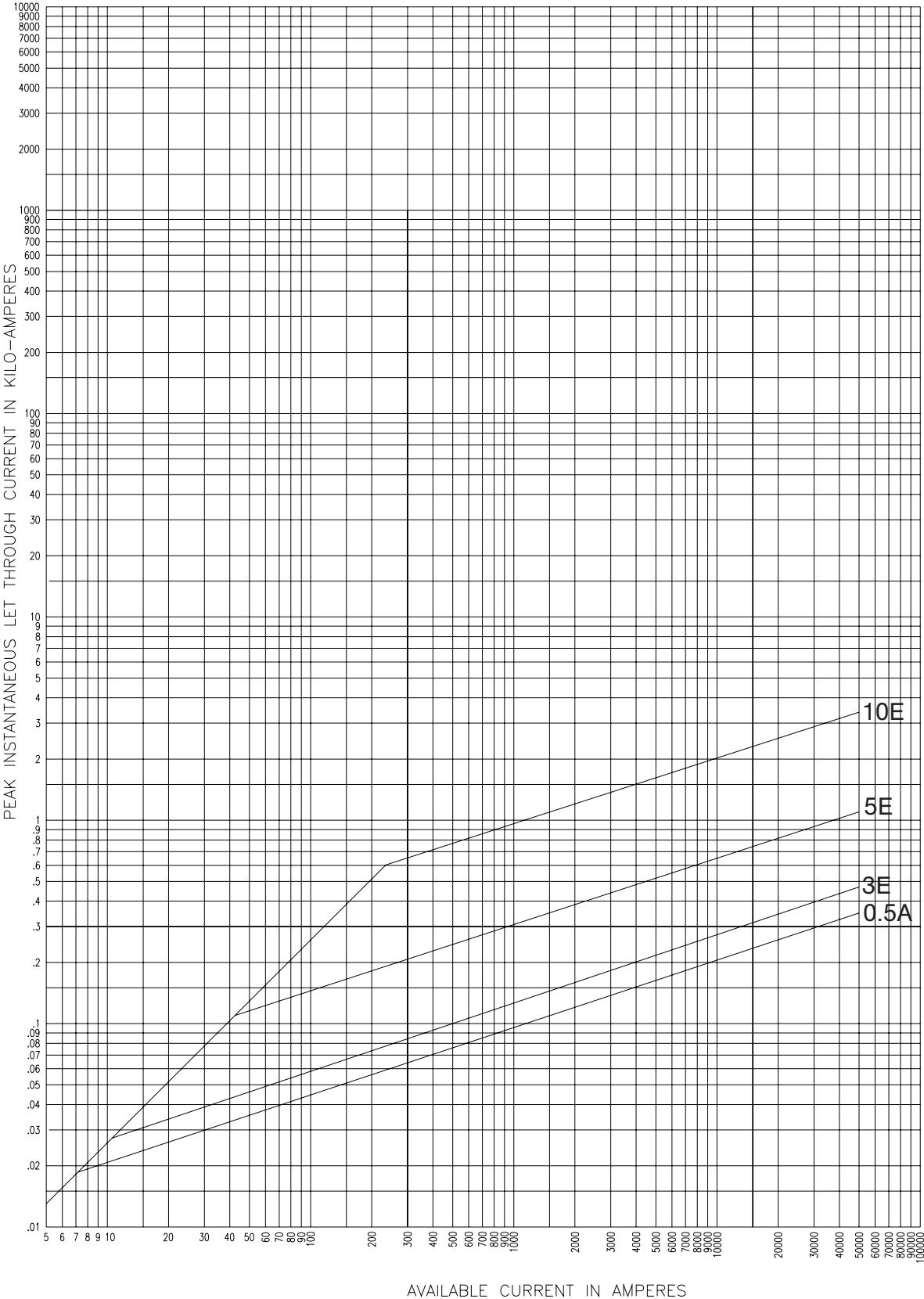
8.3 kV time-current curves — total clearing for 8CLPT\_



8CLPT\_

Curve TC56353306  
March 2013

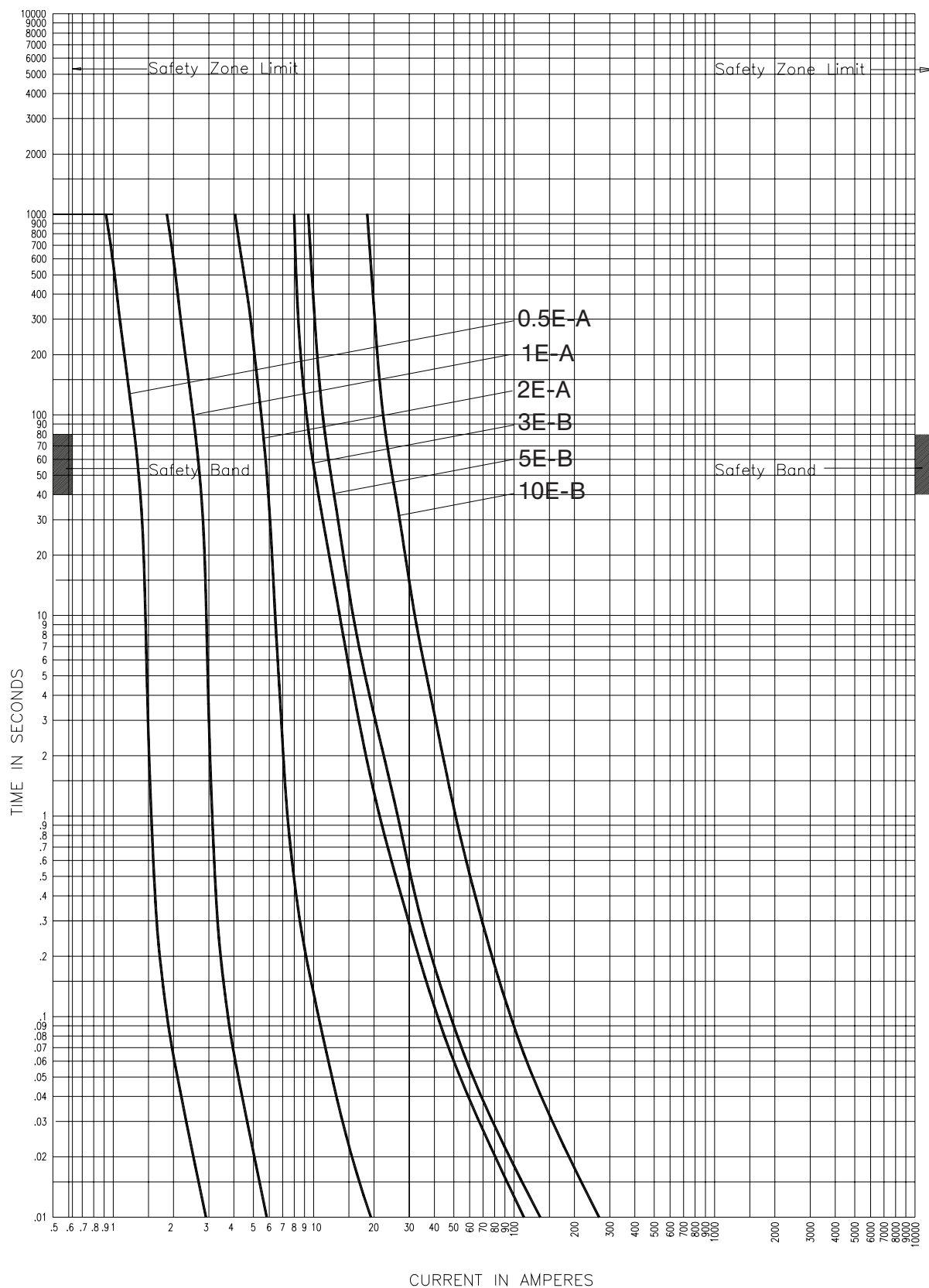
8.3 kV peak let-through curves for 8CLPT\_



8CLPT\_

Curve TC63934001  
March 2013

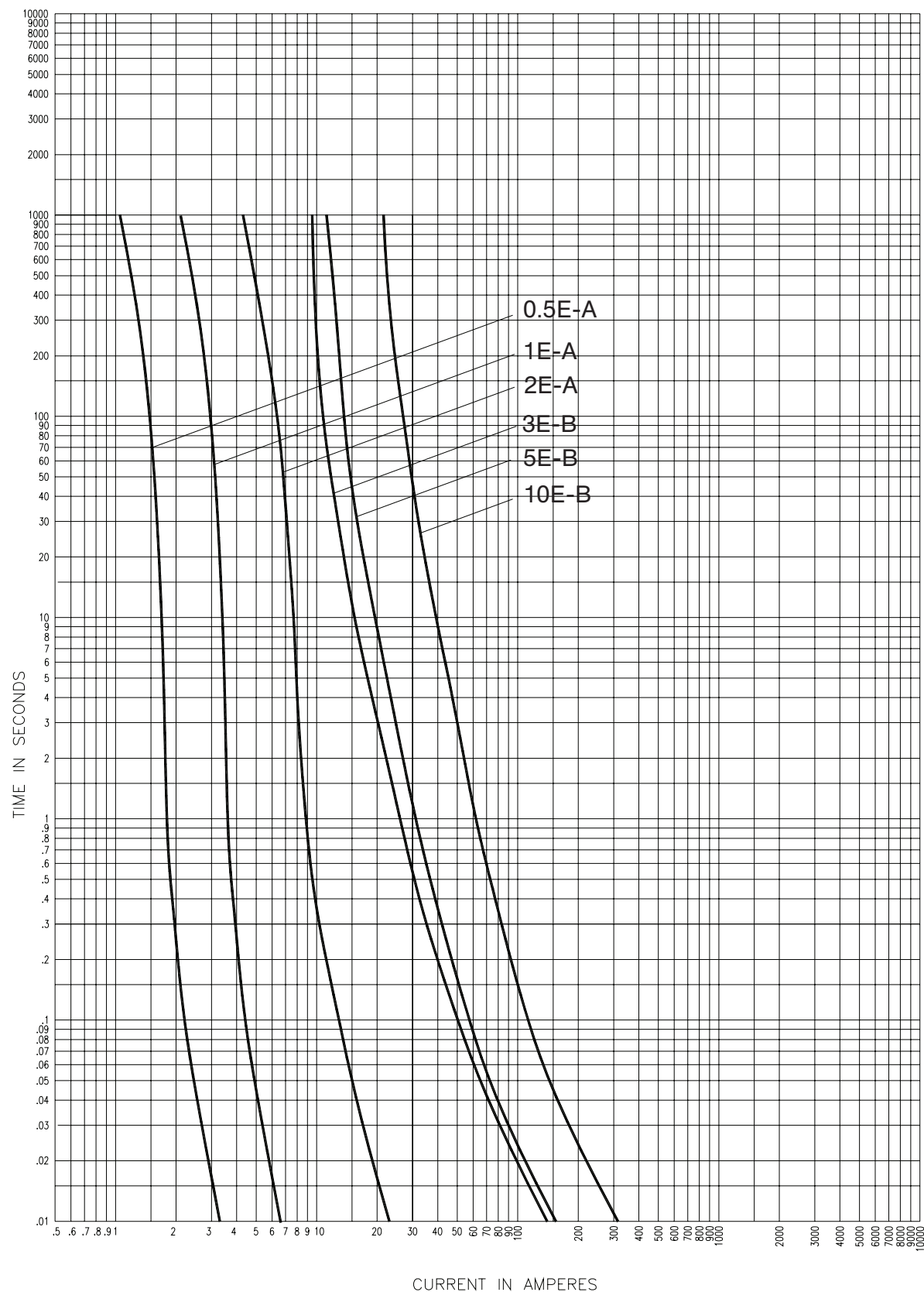
8.3 kV time-current curves — minimum melting for 8NCLPT\_E-A/B



8NCLPT\_E-A/B

Curve TC70548303  
December 2008

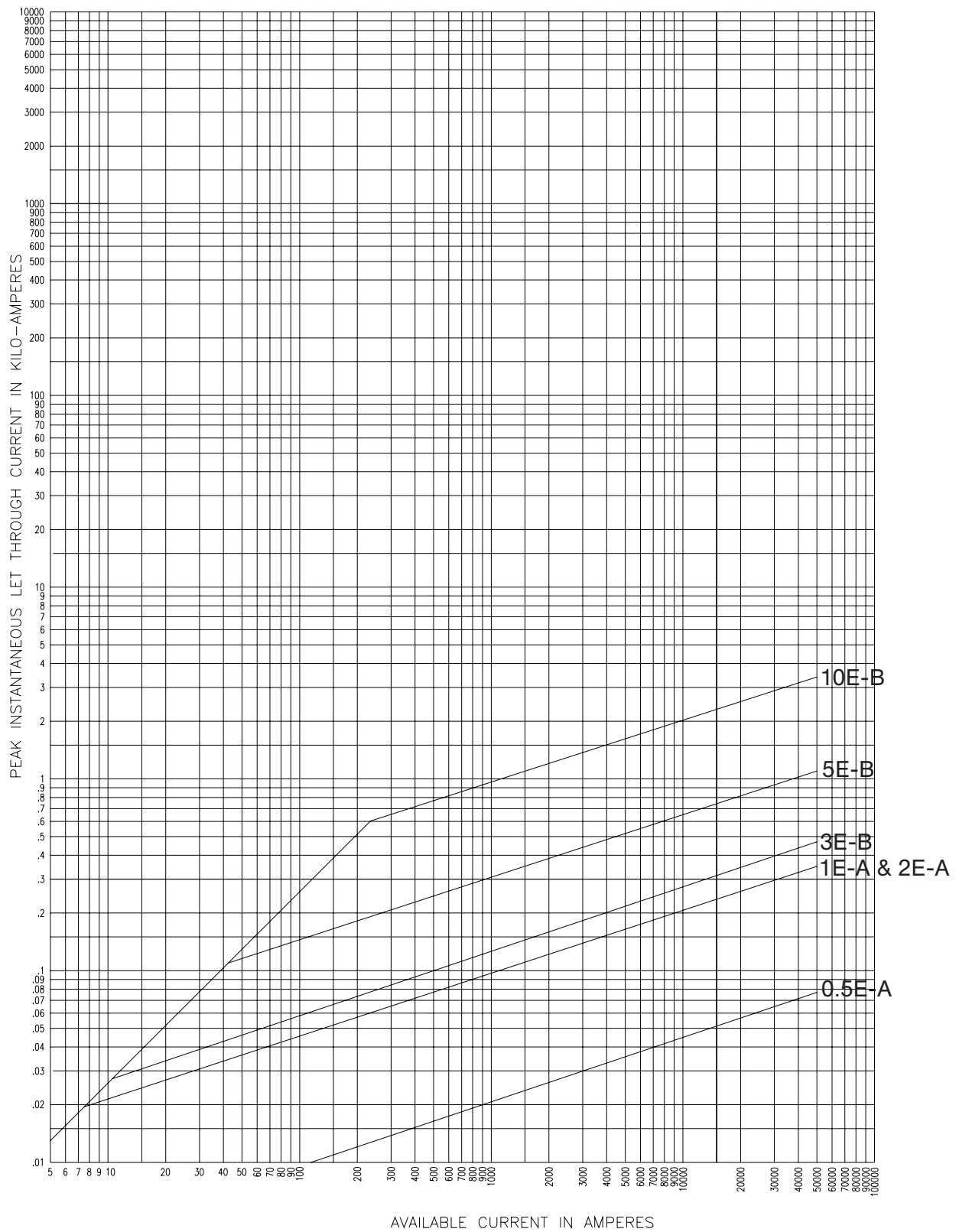
8.3 kV time-current curves — total clearing for 8NCLPT\_E--A/B



8NCLPT\_E-A/B

Curve TC70548403  
December 2008

8.3 kV peak let-through curves for 8NCLPT\_E-A/B



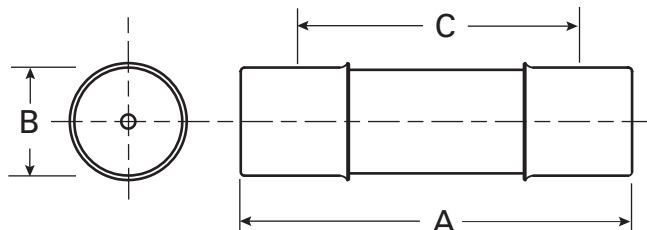
8NCLPT\_E-A/B

Curve TC63934002  
December 2008

12 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                  | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating   |                      |
| 2          | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 12CAV2 (40)      | 1A0835               |
| 3.15       | 7.7 (195)            | 1 (25)     | 6.5 (165)      | —                                      | 12ABCNA3.15 (45) | A3354705             |

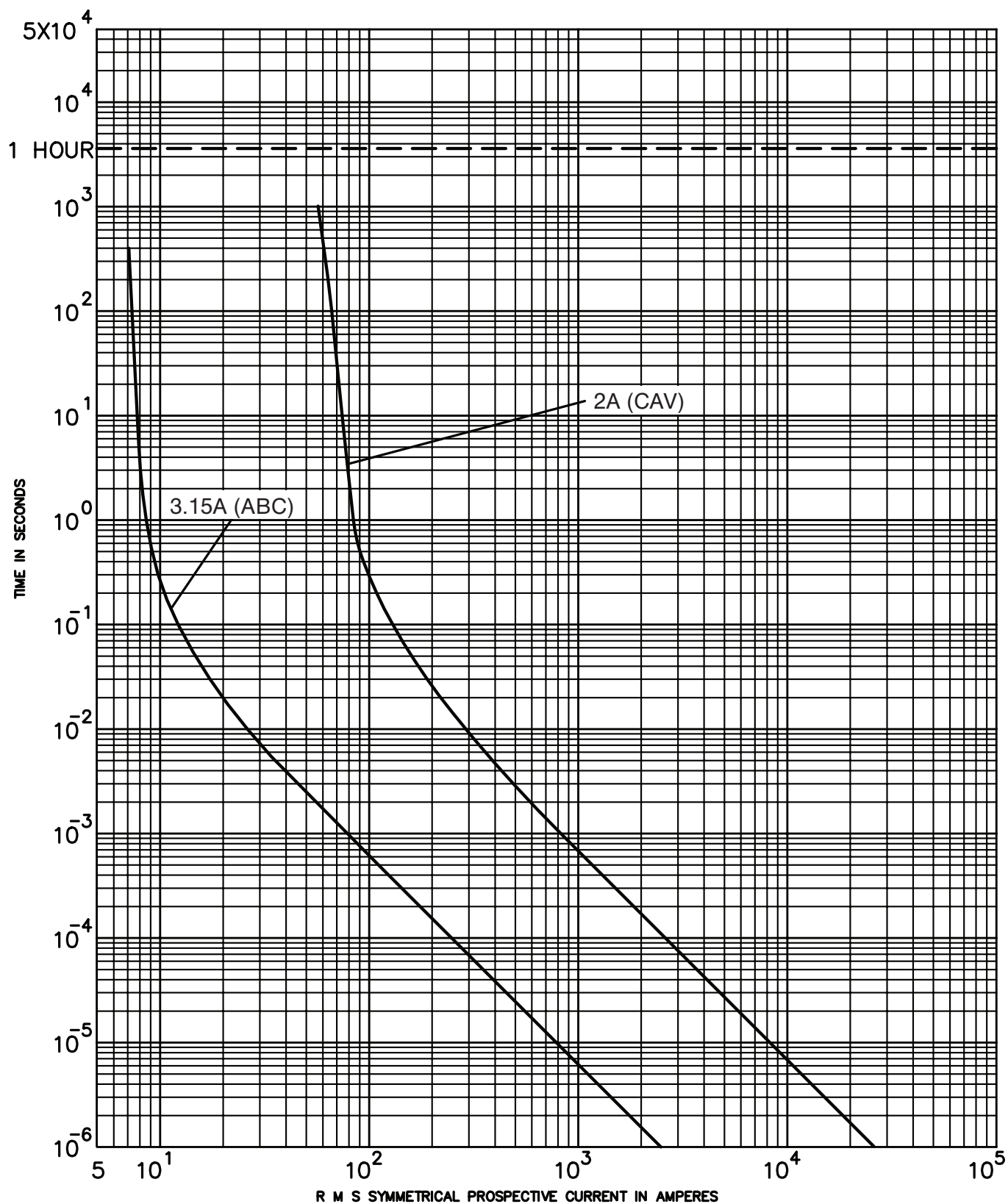
Dimensions (see catalog number tables for values)



Recommended fuseclips:

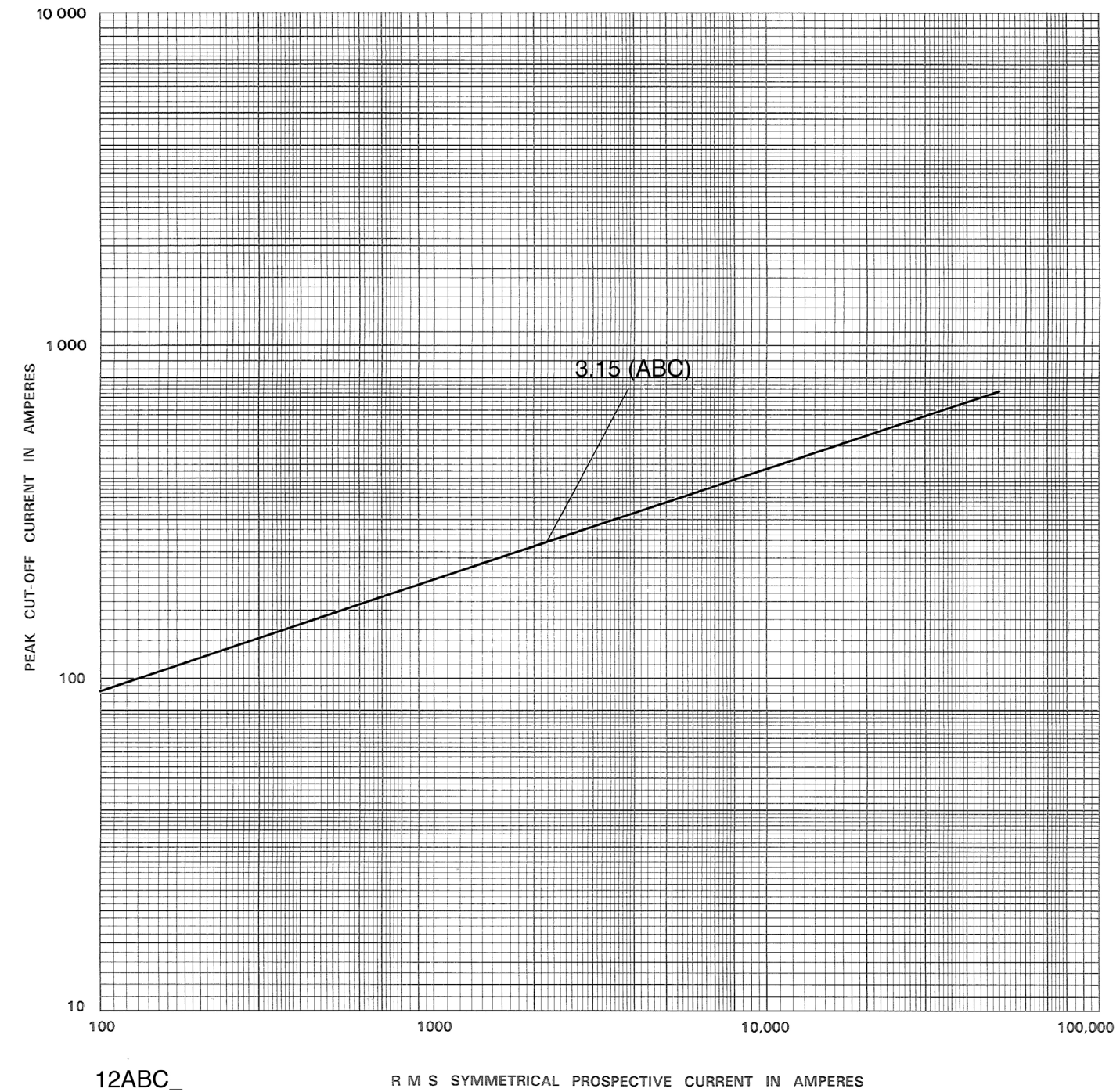
| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.0 (25.4 mm) dia. fuses                  | A3354705 |
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

12 kV time-current curves — minimum melting for 12ABC\_ and 12CAV\_



12ABC\_, 12CAV\_

12 kV peak let-through curves for 12ABC\_



### 15.5 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                   | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|-------------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating    |                      |
| 0.5        | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 15.5CAVH0.5E (80)                      | 15NCLPT-5E-A (50) | 1A0835               |
| 1          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 15.5CAVH1E (80)                        | 15NCLPT-1E-A (50) |                      |
| 2          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | 15.5CAVH2E (80)                        | 15NCLPT-2E (50)   |                      |
| 3          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | —                                      | 15.5CAV3E (80)    |                      |
| 3          | 17.6 (447)           | 1.6 (41)   | 16.1 (409)     | —                                      | 15NCLPT-3E (50)   |                      |
| 3          | 17.6 (447)           | 1.6 (41)   | 16.1 (409)     | 15CLPT-3E (50)                         | —                 |                      |
| 5          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | —                                      | 15.5CAV5E (80)    |                      |
| 5          | 17.6 (447)           | 1.6 (41)   | 16.1 (409)     | 15CLPT-5E (50)                         | 15NCLPT-5E (50)   |                      |
| 7          | 12.9 (328)           | 1.6 (41)   | 11.5 (292)     | —                                      | 15.5CAV7E (80)    |                      |
| 10         | 17.6 (447)           | 1.6 (41)   | 16.1 (409)     | 15CLPT-10E (50)                        | 15NCLPT-10E (50)  |                      |

### CLPT Type mountings and hardware 15.5 kV maximum (14.4 kV nominal)

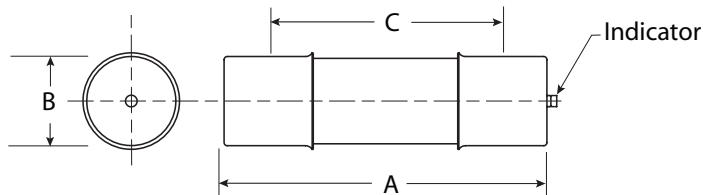
| Amp rating | Fuse mounting type* | BIL (kV) | Catalog number                                  |                           |                                       |                                |
|------------|---------------------|----------|-------------------------------------------------|---------------------------|---------------------------------------|--------------------------------|
|            |                     |          | Mounting (Including live parts, end fittings)** |                           | Live parts (including end fittings)** | End fittings (disconnect only) |
|            |                     |          | Porcelain insulator                             | Glass-polyester insulator |                                       |                                |
| 0.5–2      | Non-disconnect      | 95       | 15CLPT-PNM-A                                    | 15CLPT-GNM-A              | CLPT-NL                               | —                              |
|            | Disconnect†         | 95       | 15CLPT-PDM-A                                    | 15CLPT-GDM-A              | CLPT-DL                               | CLPT-DF                        |
| 3–10       | Non-disconnect      | 95       | 15CLPT-PNM-B                                    | 15CLPT-GNM-B              | CLPT-NL                               | CLPT-DF                        |
|            | Disconnect†         | 95       | 15CLPT-PDM-B                                    | 15CLPT-GDM-B              | CLPT-DL                               | —                              |

\* See page 70 for dimensions and diagrams of typical mounting.

\*\* 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.

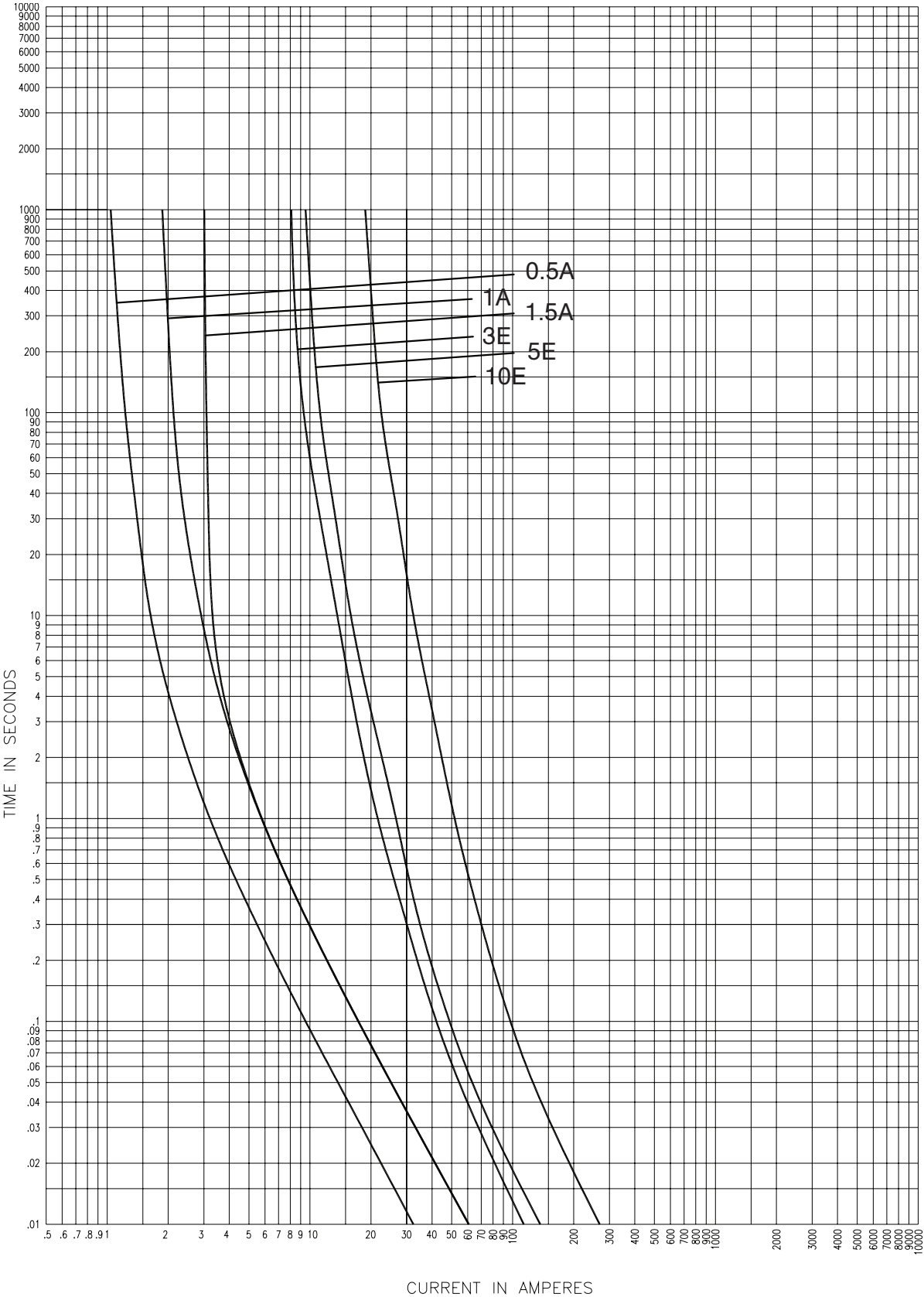
### Dimensions (see catalog number tables for values)



### Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

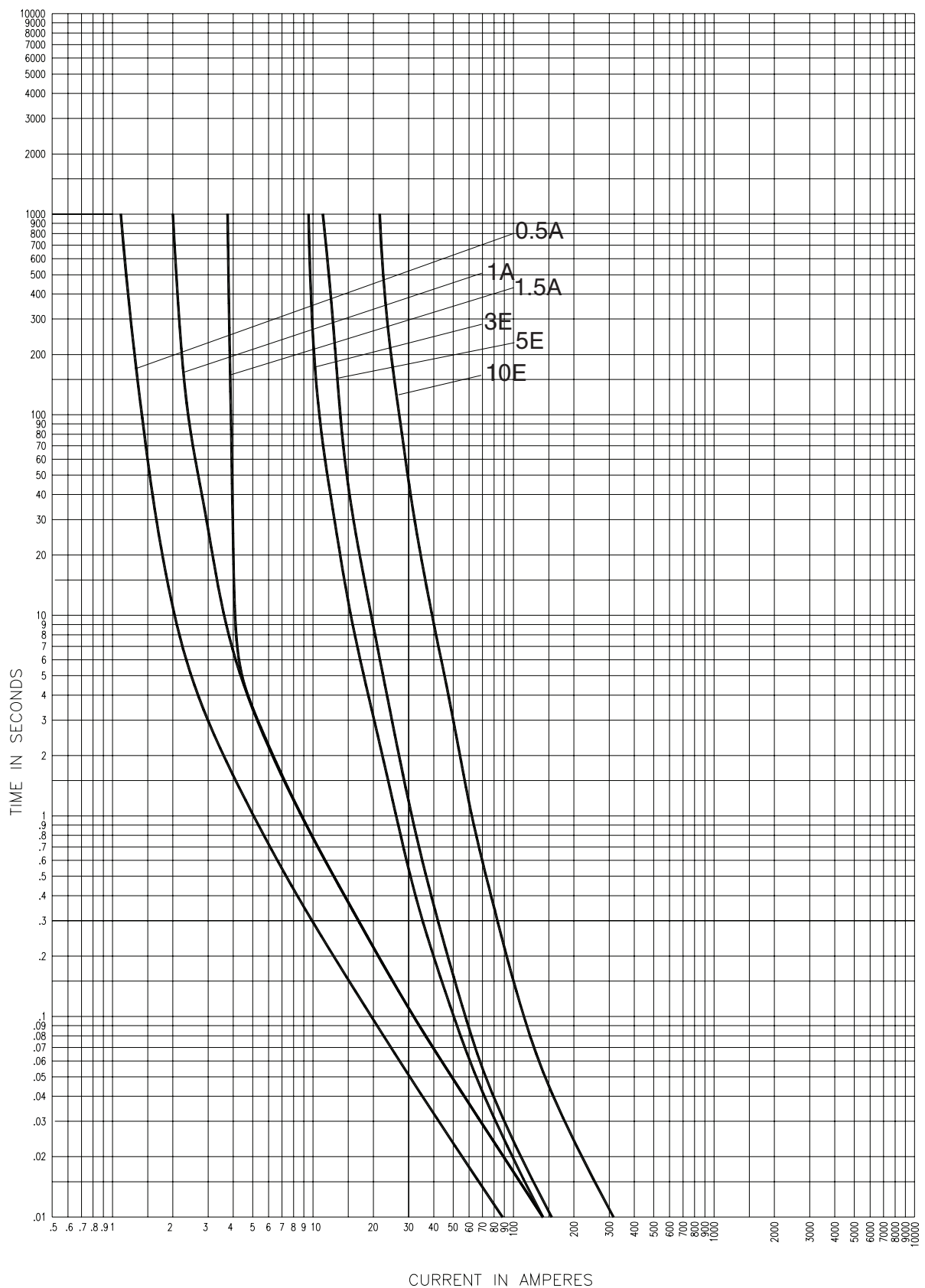
15.5 kV time-current curves — minimum melting for 15CLPT\_



15CLPT\_

Curve TC56353206  
August 2011

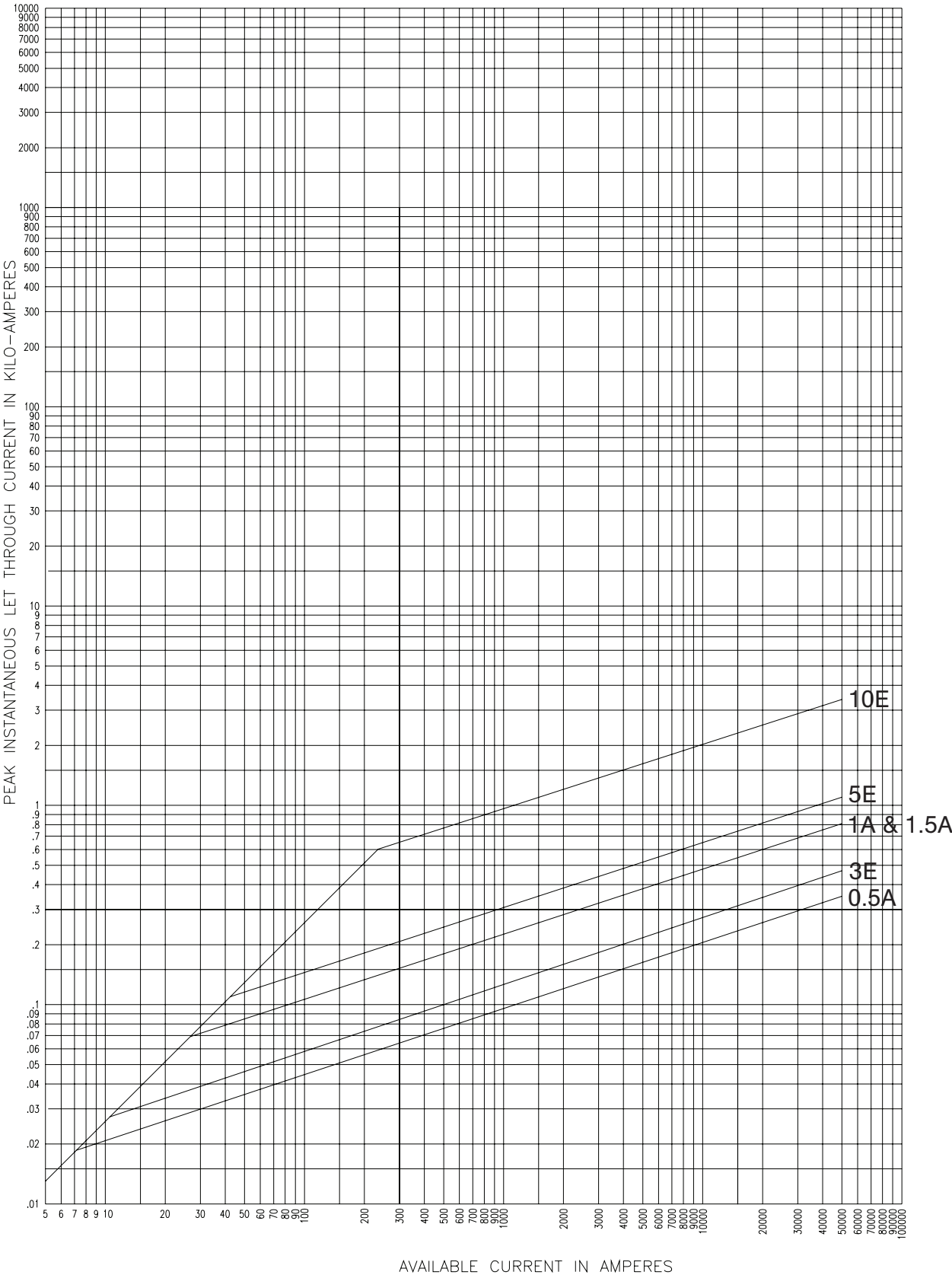
15.5 kV time-current curves — total clearing for 15CLPT\_



15CLPT-E

CURVE 56353306  
July 2002  
Reference # 563533

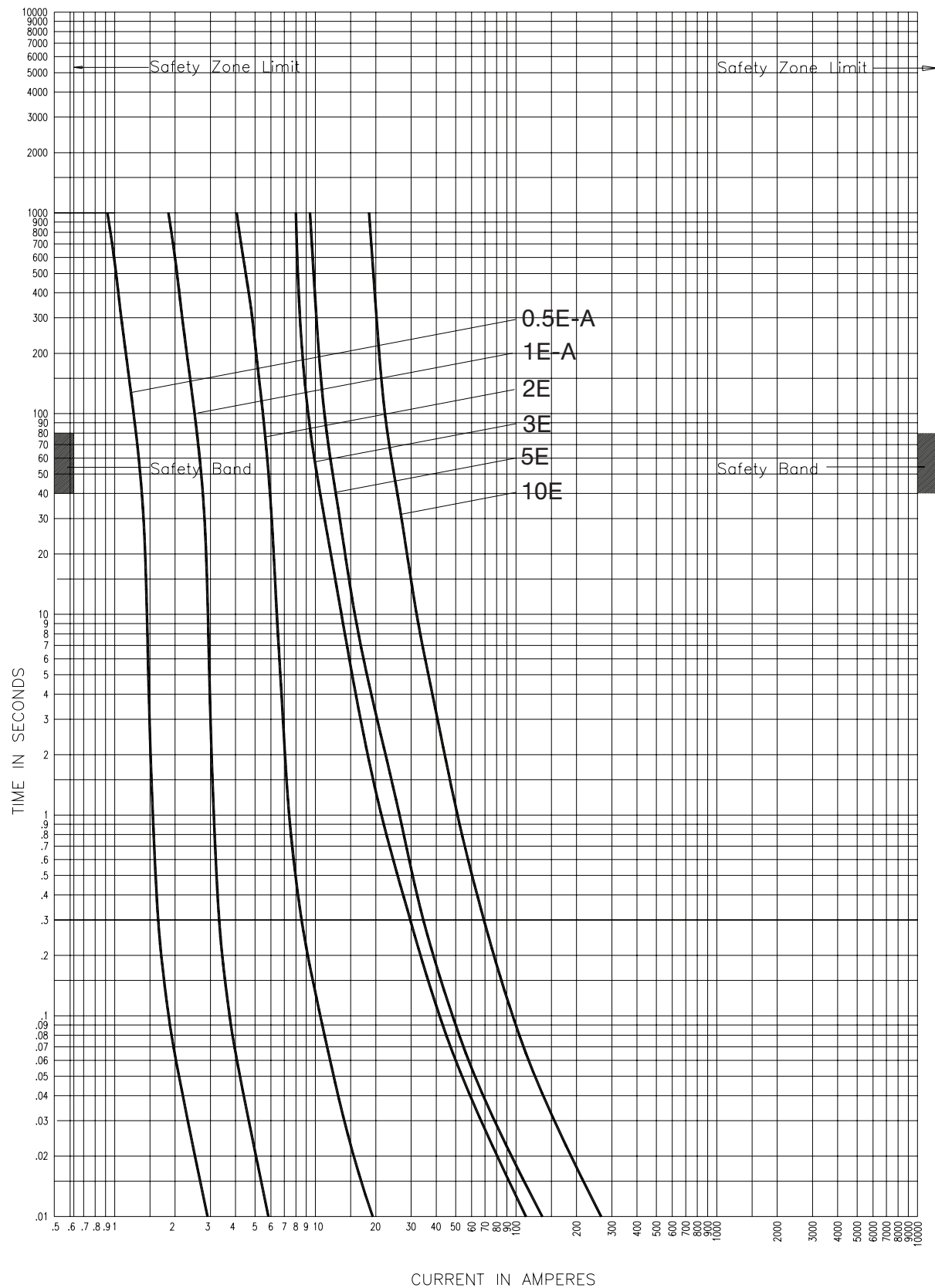
15.5 kV peak let-through curves for 15CLPT\_



15CLPT\_

Curve TC63934001  
March 2013

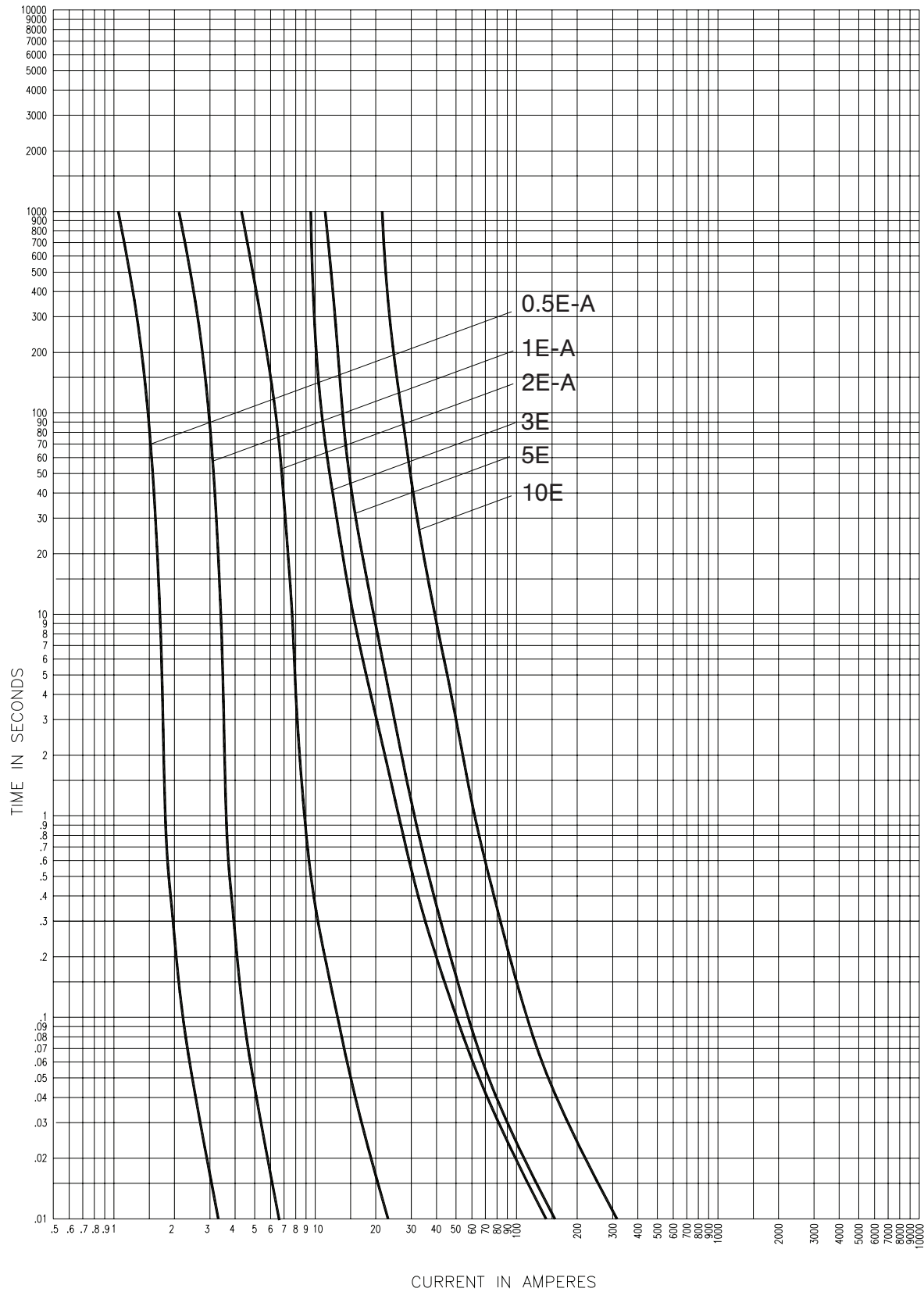
15.5 kV time-current curves — minimum melting for 15NCLPT\_



15NCLPT\_

Curve TC70548303  
December 2008

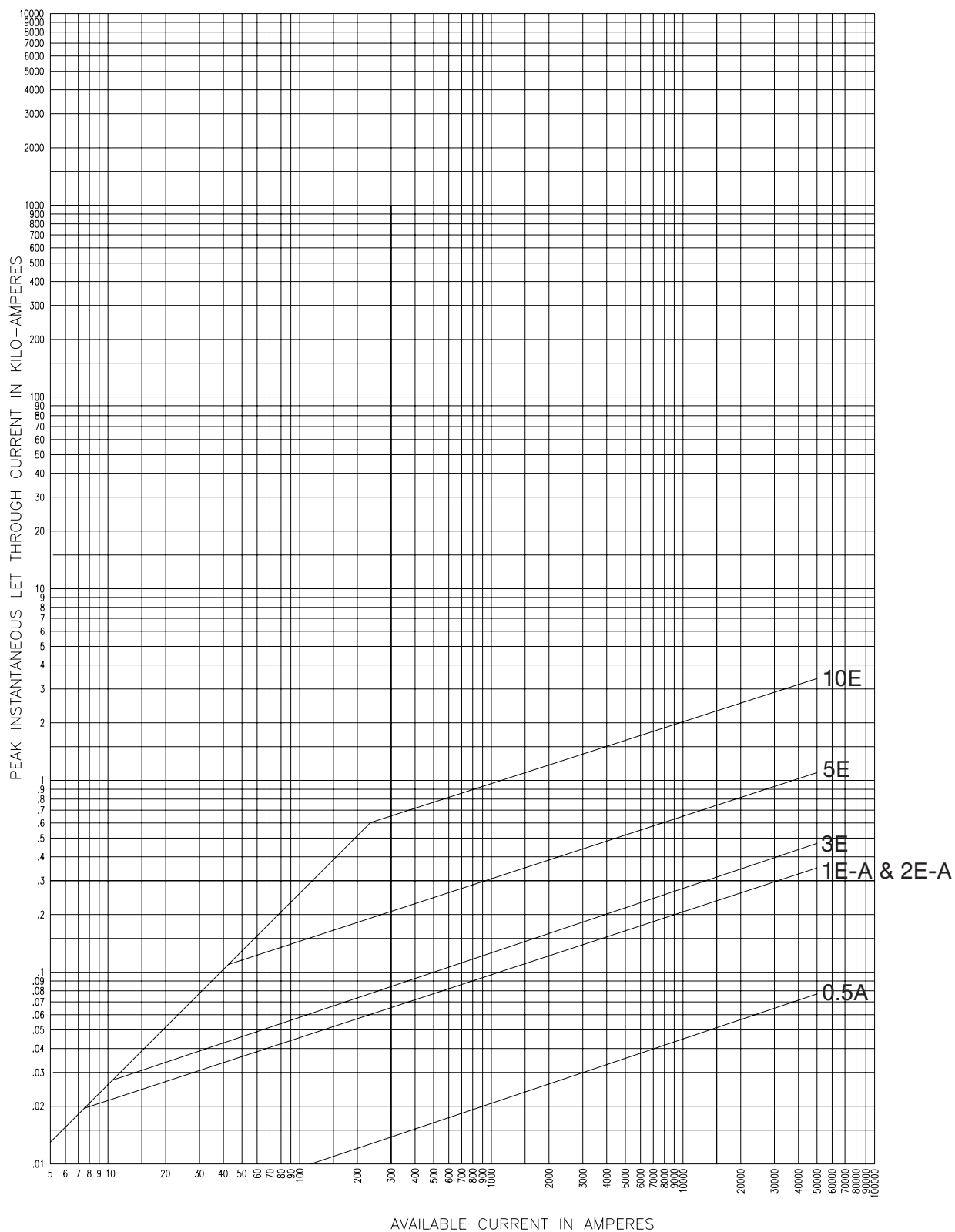
15.5 kVTime-current curves — total clearing for 15NCLPT\_



15NCLPT\_

Curve TC70548403  
December 2008

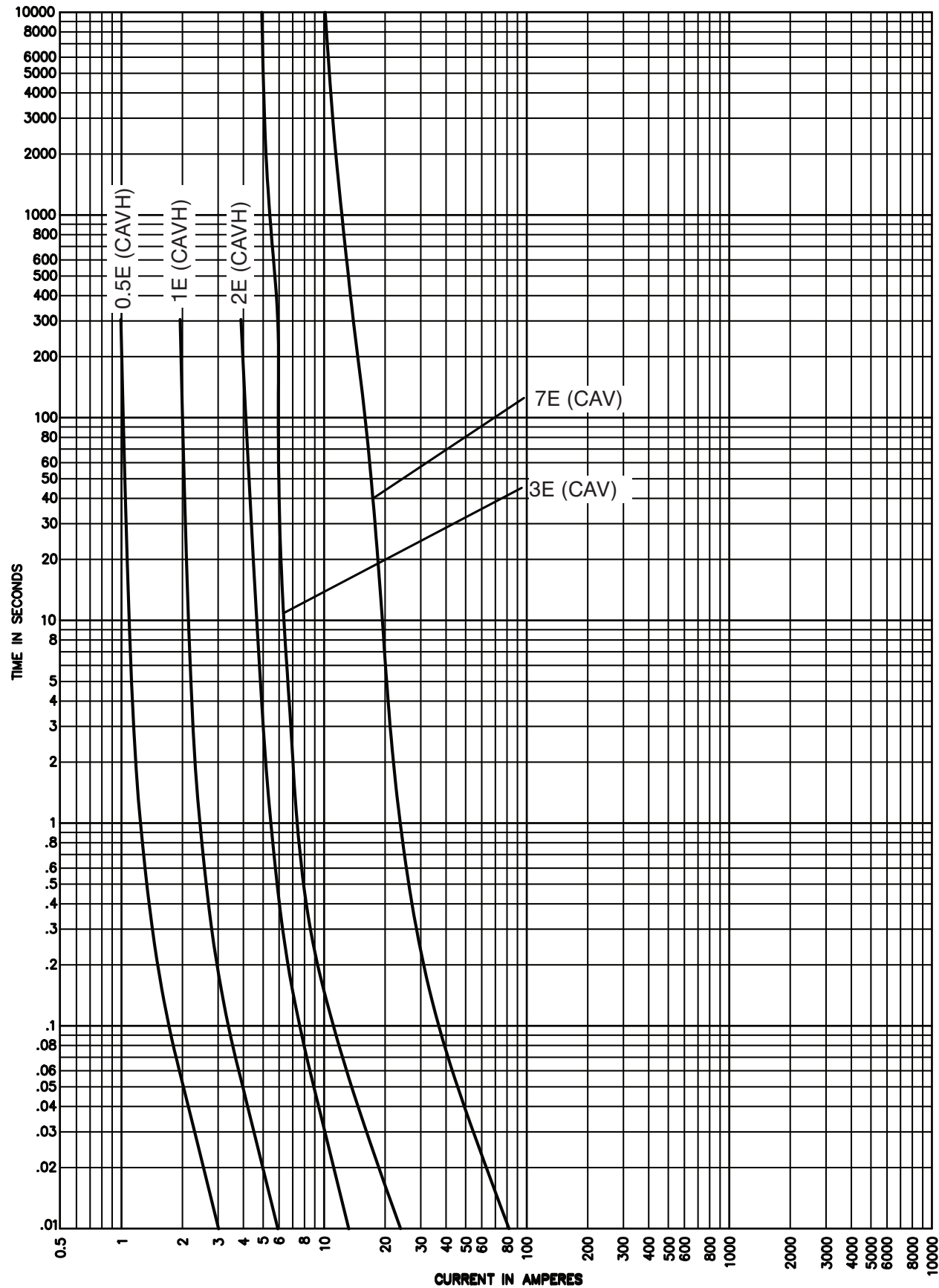
15.5 kV Peak let-through curves for 15NCLPT\_



15NCLPT\_

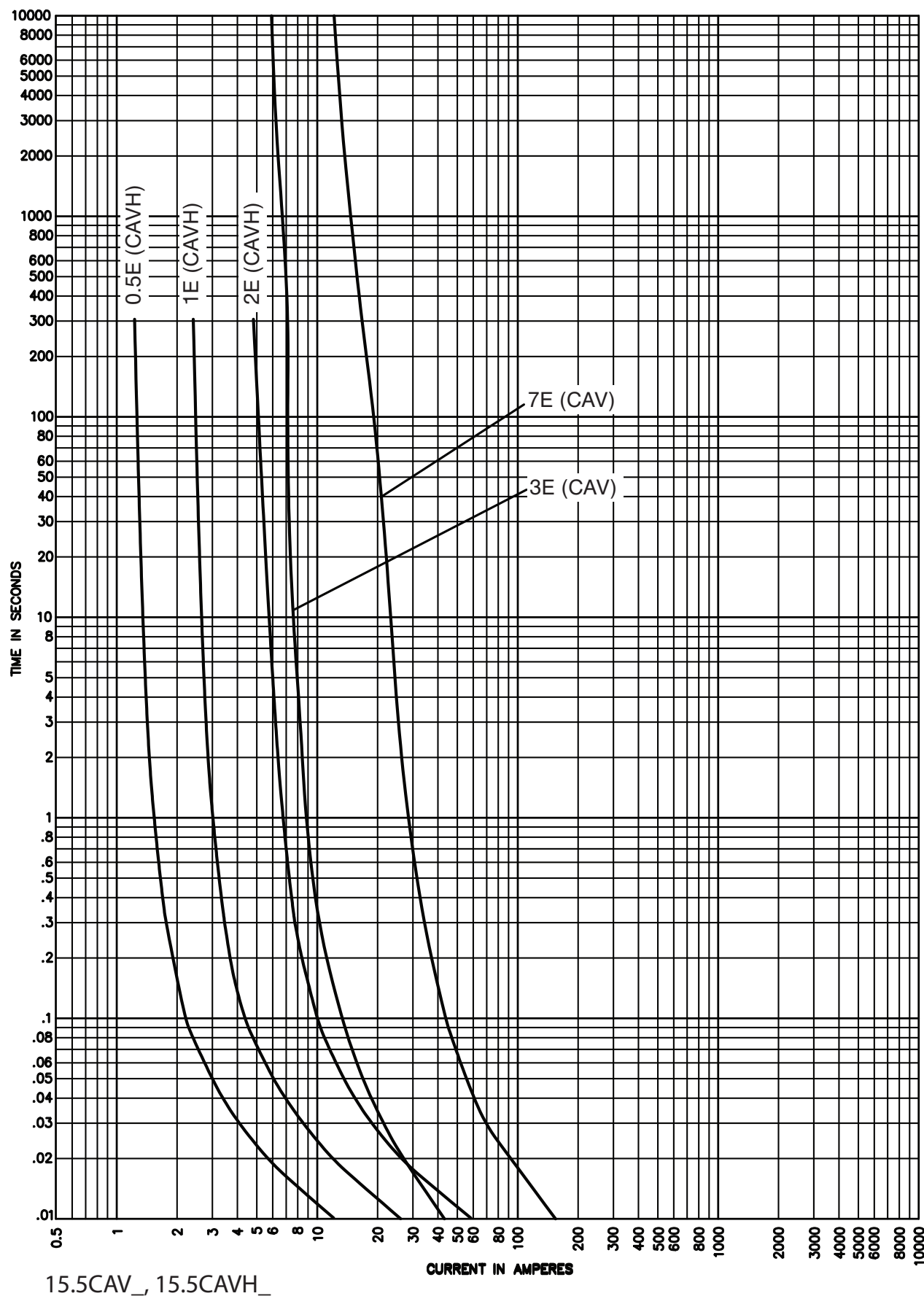
Curve TC63934002  
December 2008

15.5 kV time-current curves — minimum melting for 15.5CAV\_ and 15.5CAVH\_



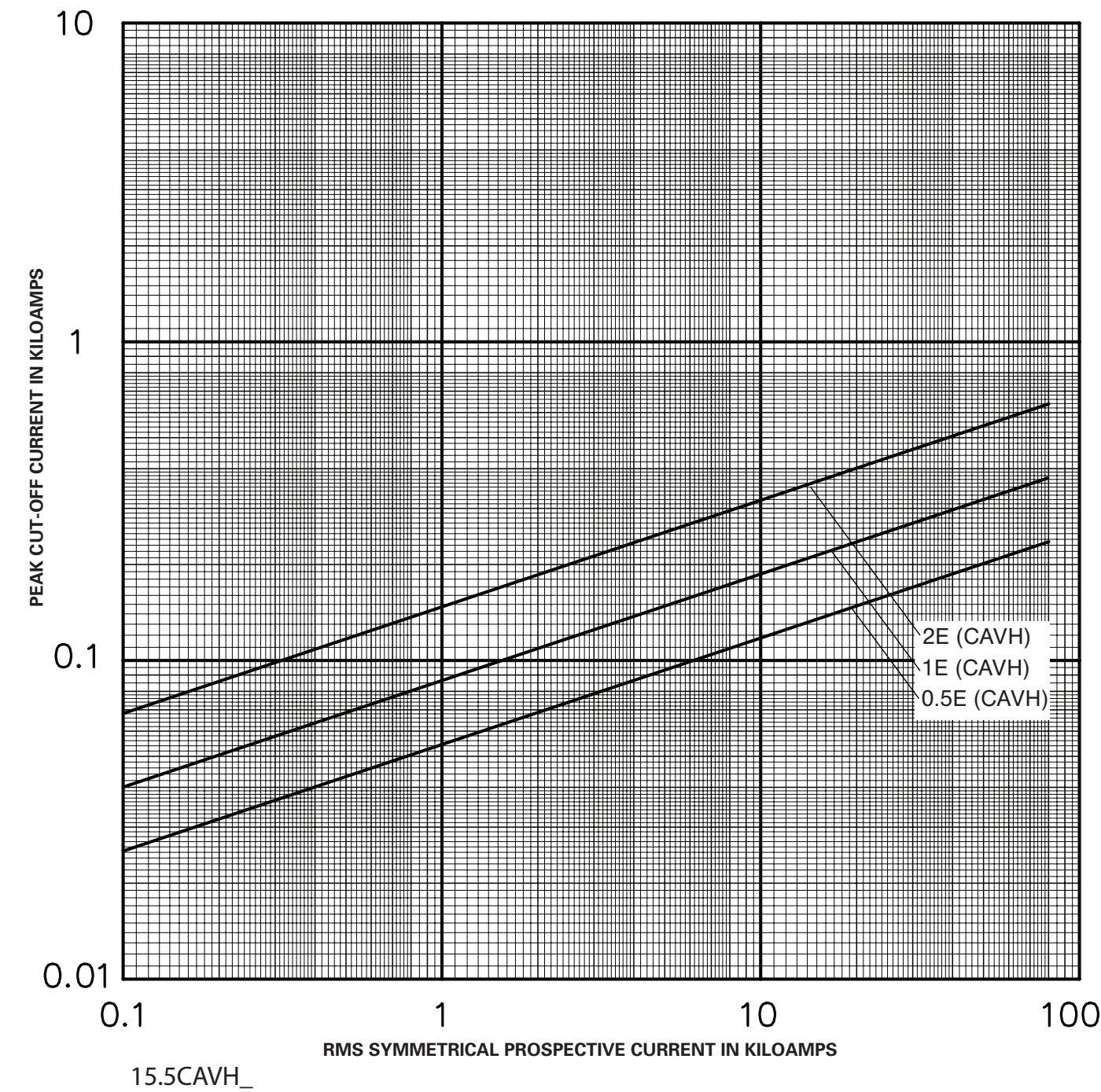
15.5CAV\_, 15.5CAVH\_

15.5 kV time-current curves — total clearing for 15.5CAVH\_



15.5CAV\_, 15.5CAVH\_

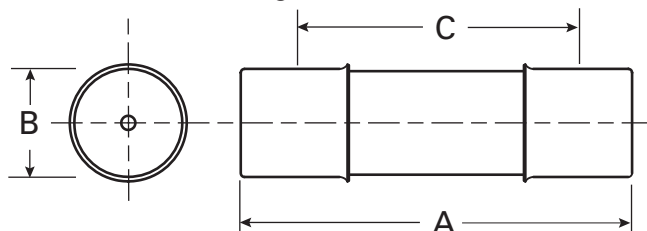
15.5 kV peak let-through curves for 15.5CAVH\_



17.5 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating |                      |
| 2          | 8.7 (221)            | 1.6 (41)   | 7.5 (190)      | —                                      | 17.5CAV2 (40)  | 1A0835               |
| 4          |                      |            |                | —                                      | 17.5CAV4 (40)  |                      |
| 6          |                      |            |                | —                                      | 17.5CAV6 (40)  |                      |
| 10         |                      |            |                | —                                      | 17.5CAV10 (40) |                      |

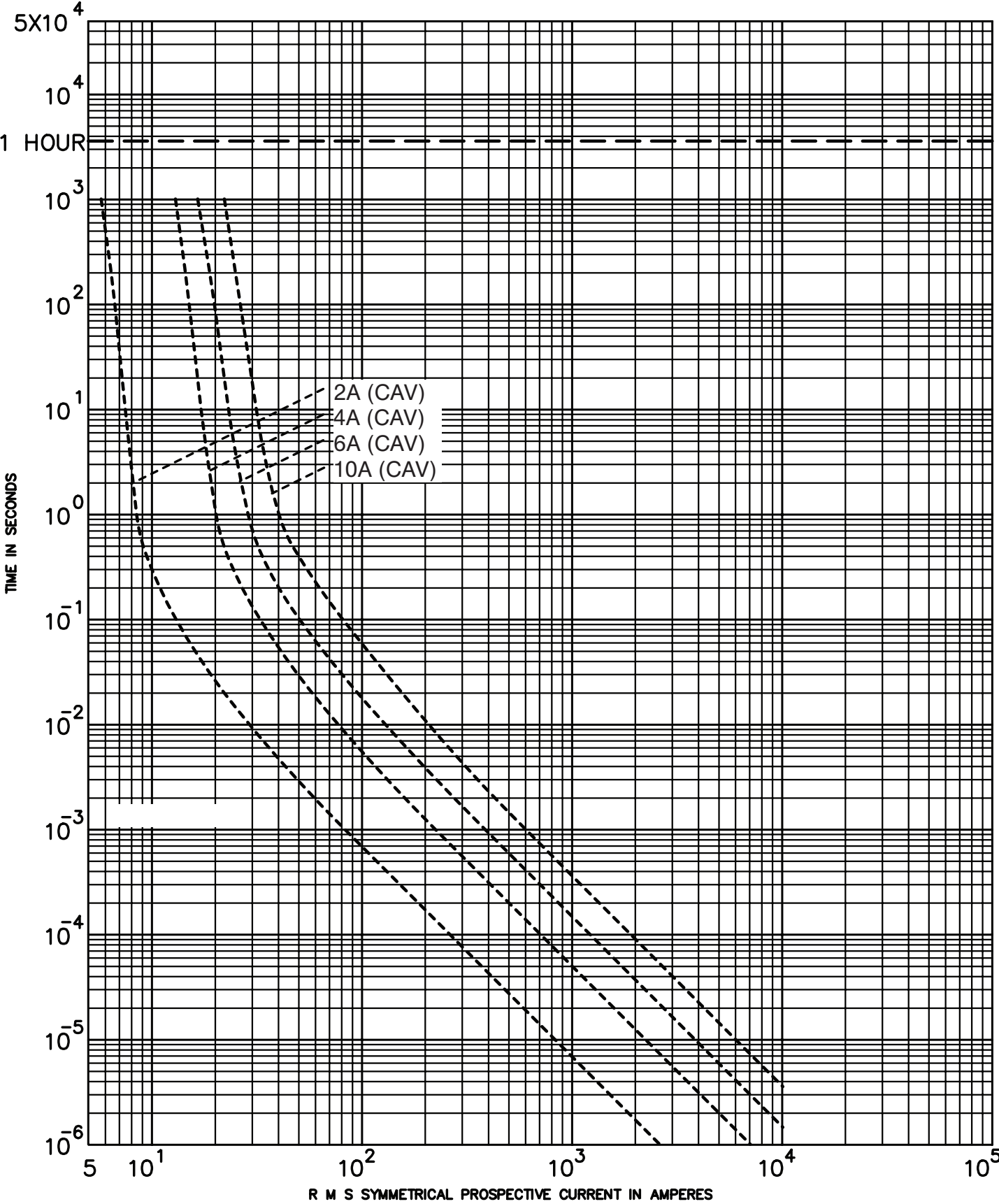
Dimensions (see catalog number tables for values)



Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

17.5 kV time-current curves — minimum melting for 17.5CAV\_

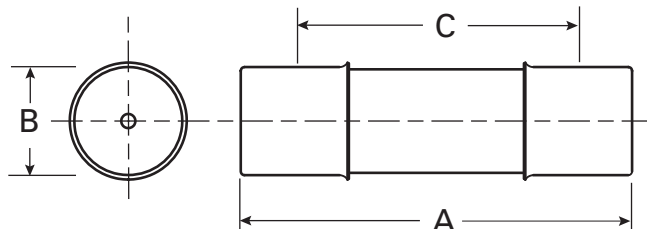


7.5CAV\_

24 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating |                      |
| 2          | 13.49 (340)          | 1.6 (41)   | 12.2 (310)     | —                                      | 24CAV2 (40)    | 1A0835               |
| 3          |                      |            |                | —                                      | 24CAV3 (40)    |                      |
| 4          |                      |            |                | —                                      | 24CAV4 (40)    |                      |

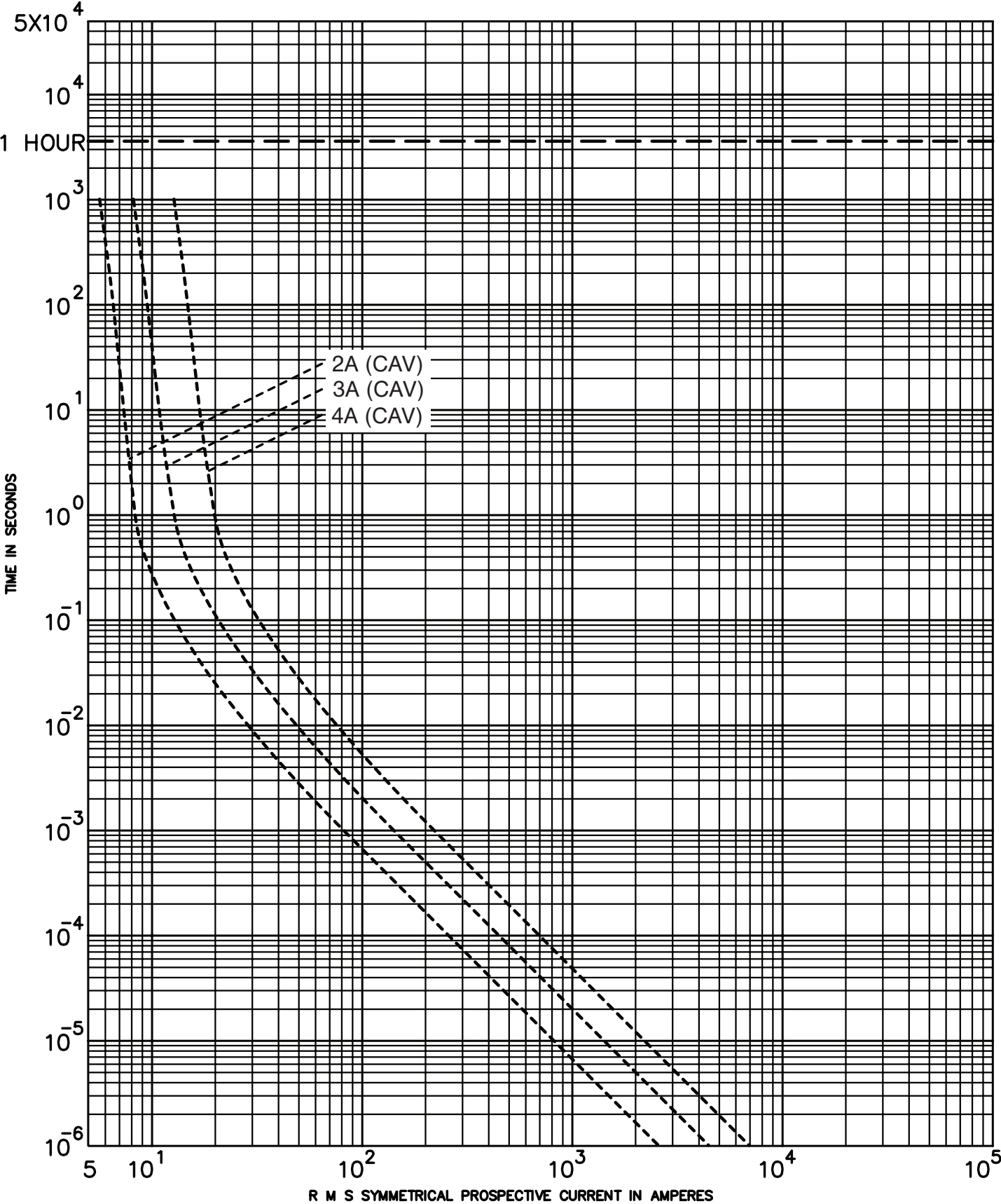
Dimensions (see catalog number tables for values)



Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

24 kV time-current curves — minimum melting for 24CAV\_



24CAV\_

### 25.5 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (interrupting rating - kA) |                | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating |                      |
| 0.5        | 17.6 (447)           | 1.6 (41)   | 16.1 (410)     | 25CLPT-5 (43.5) <sup>†</sup>           | —              | 1A0835               |
| 1          | 17.6 (447)           | 1.6 (41)   | 16.1 (410)     | 25CLPT-1 (43.5) <sup>†</sup>           | —              |                      |

<sup>†</sup> Does not comply with ANSI C37.46 for "E" rating.

### CLPT Type Mountings and Hardware 25.5 kV Maximum (23 kV Nominal)

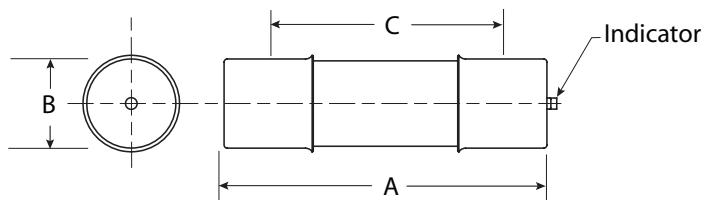
| Amp rating | Fuse mounting type* | BIL (kV) | Catalog number                                  |                           |                                       |                                |
|------------|---------------------|----------|-------------------------------------------------|---------------------------|---------------------------------------|--------------------------------|
|            |                     |          | Mounting (including live parts, end fittings)** |                           | Live parts (including end fittings)** | End fittings (disconnect only) |
|            |                     |          | Porcelain insulator                             | Glass-polyester insulator |                                       |                                |
| 0.5-1      | Non-disconnect      | 150      | 25CLPT-PNM-A                                    | —                         | 25CLPT-NL                             | —                              |
|            | Disconnect          | 150      | 25CLPT-PDM-A                                    | —                         | 25CLPT-DL                             | CLPT-DF                        |

\* See page 70 for dimensions and diagrams of typical mounting.

\*\* End fittings supplied only when required.

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

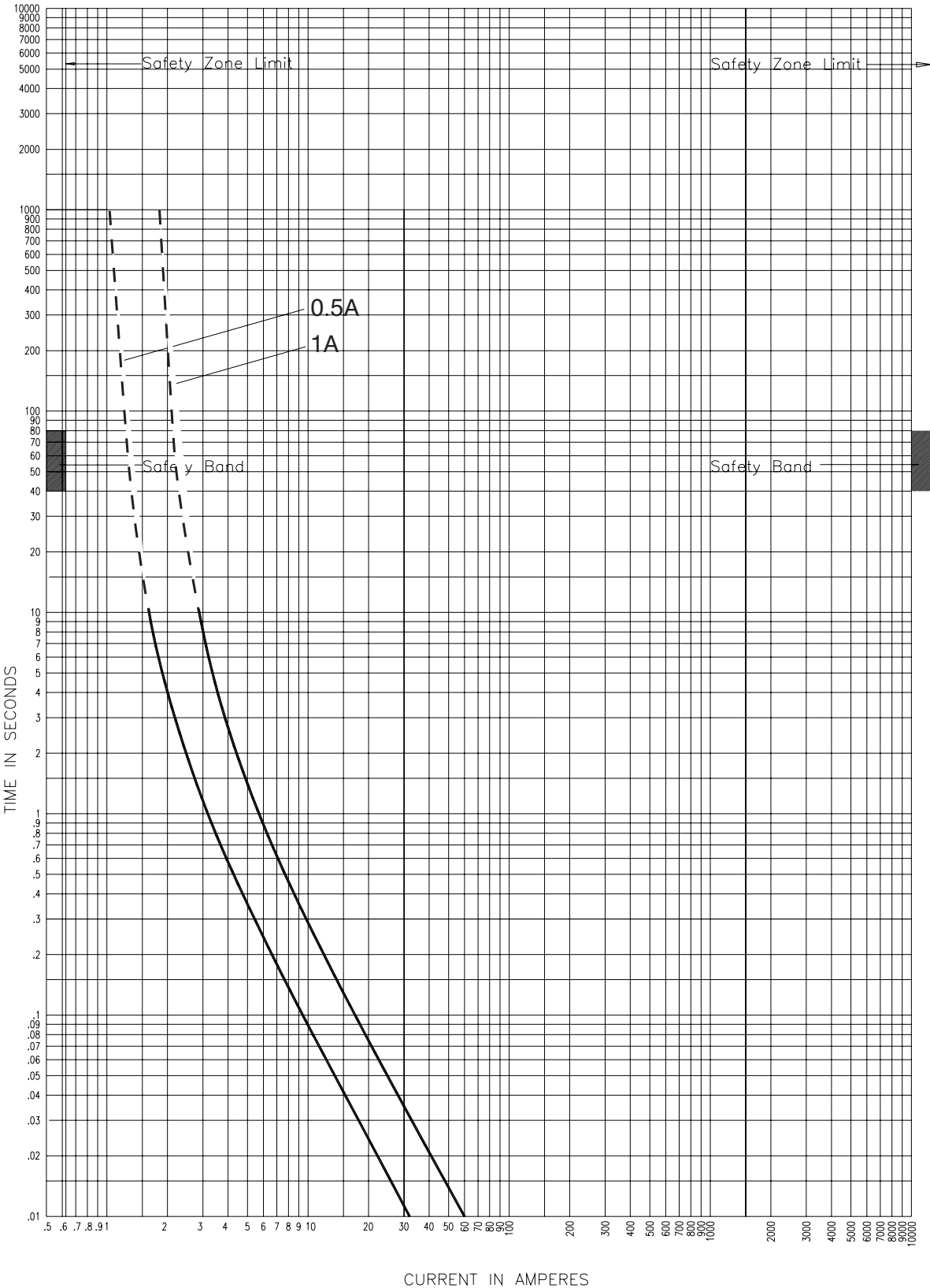
### Dimensions (see catalog number tables for values)



### Recommended fuseclips:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

25.5 kV time-current curves — minimum melting for 25CLPT\_

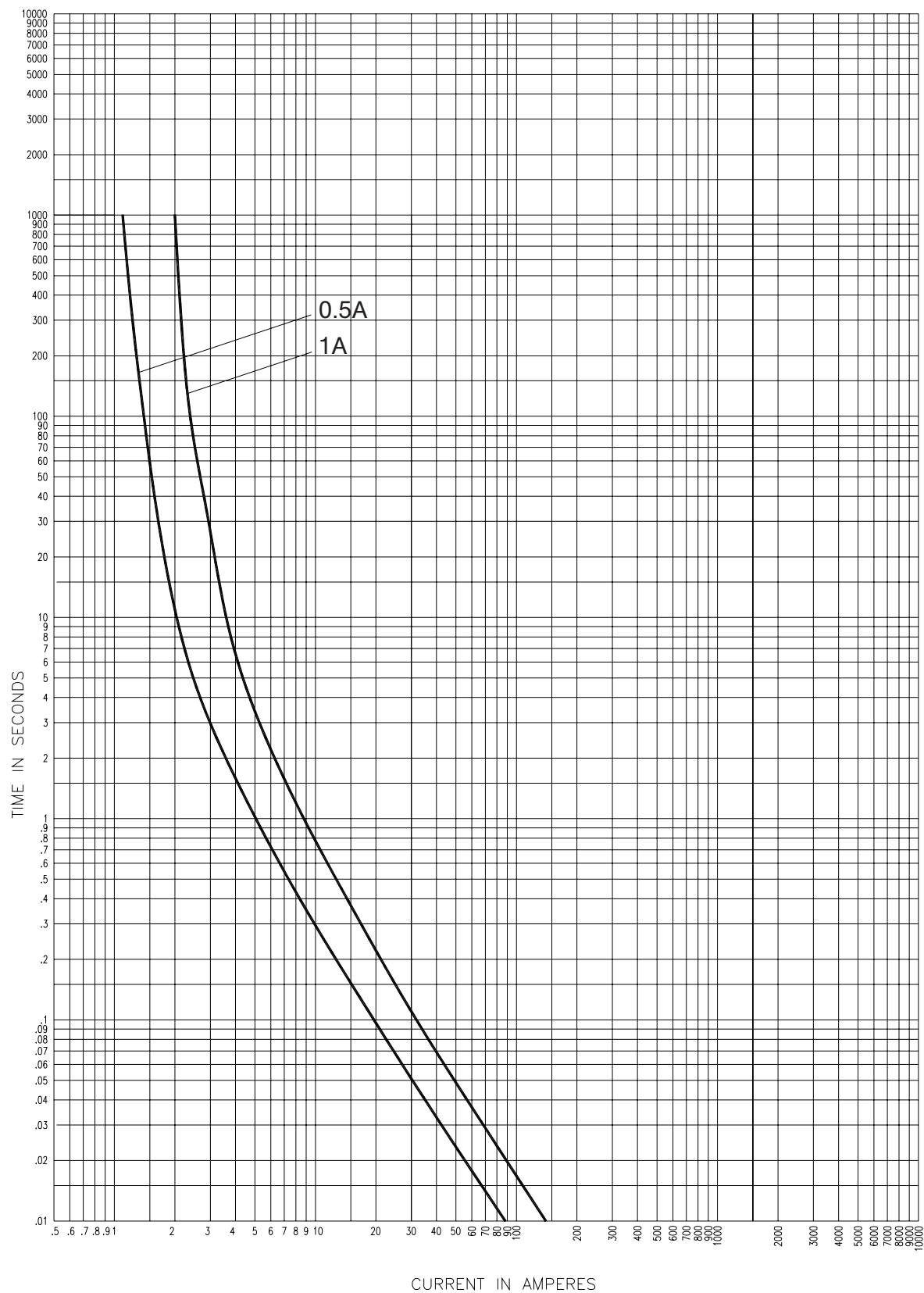


25CLPT\_

0.5, and 1 A fuse melt times in the dotted line region may not be assured due to manufacturing variations. The dotted lines show nominal operation. Some individual fuses may not open until current at 10-second mark is applied.

Curve TC56353208  
December 2008

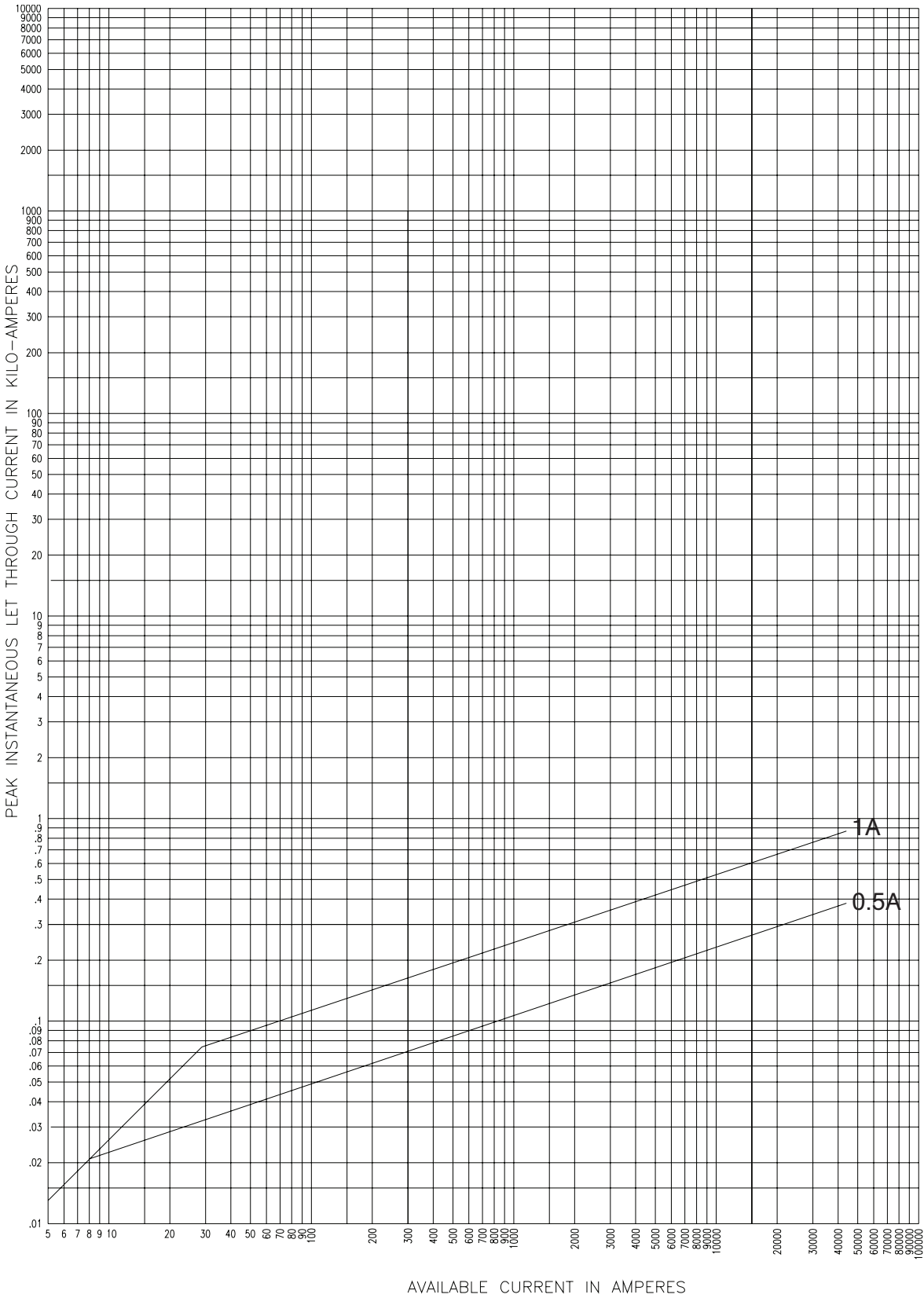
25.5 kV time-current curves — total clearing for 25CLPT\_



25CLPT\_

Curve TC56353308  
December 2008

25.5 kV Peak let-through curves for 25CLPT\_



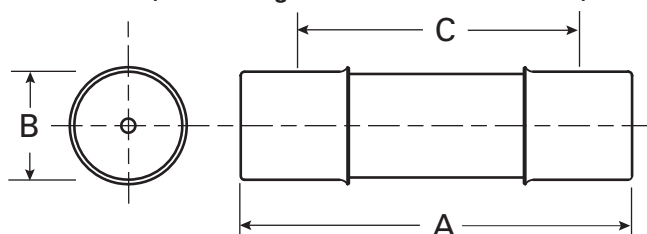
25CLPT-  

Curve TC63933901  
December 2008

**36 kV maximum system voltage**

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (Interrupting rating - kA) |                | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating |                      |
| 2          | 17.3 (439)           | 1.6 (41)   | 16.1 (410)     | —                                      | 36CAV2 (40)    | 1A0835               |
| 4          |                      |            |                | —                                      | 36CAV4 (40)    |                      |

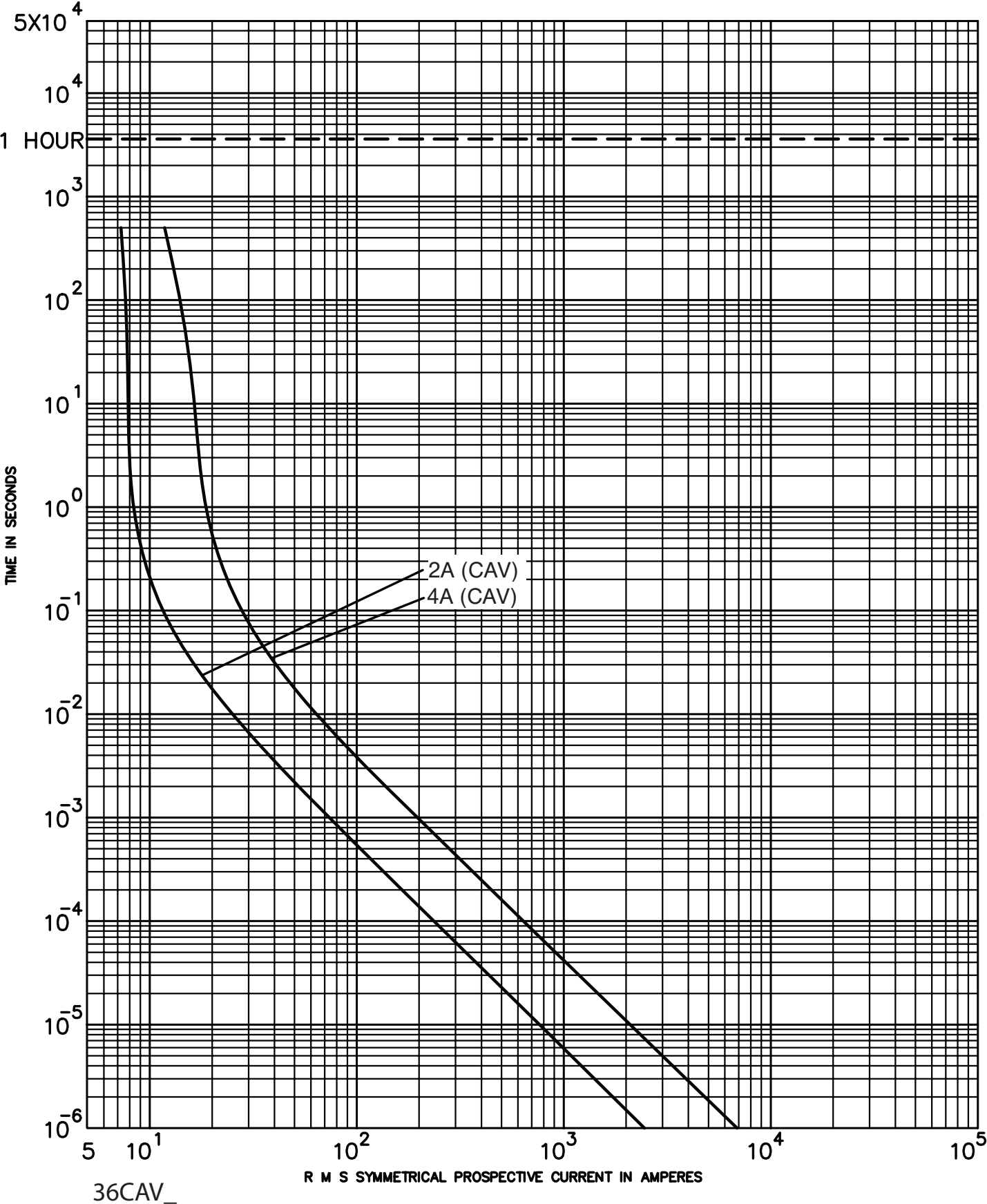
**Dimensions (see catalog number tables for values)**



**Recommended fuseclips:**

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

36 kVTime-current curves — minimum melting for 36CAV\_



### 38 kV maximum system voltage

| Amp rating | Dimensions - in (mm) |            |                | Catalog No. (interrupting rating - kA) |                | Recommended fuseclip |
|------------|----------------------|------------|----------------|----------------------------------------|----------------|----------------------|
|            | Length A             | Diameter B | Clip centers C | Indicating                             | Non-indicating |                      |
| 0.5        | 17.3 (439)           | 1.6 (41)   | 16.1 (409)     | 38CAVH0.5E (40)                        | —              | 1A0835               |
| 0.5        | 18.6 (472)           | 1.6 (41)   | 17.1 (434)     | 38CLPT-0.5 (43.5) <sup>†</sup>         | —              |                      |
| 1          | 17.3 (439)           | 1.6 (41)   | 16.1 (409)     | 38CAVH1E (40)                          | —              |                      |
| 2          | 17.3 (439)           | 1.6 (41)   | 16.1 (409)     | 38CAVH2E (40)                          | —              |                      |
| 4          | 17.3 (439)           | 1.6 (41)   | 16.1 (409)     | —                                      | 38CAV4E (40)   |                      |

<sup>†</sup> Does not comply with ANSI C37.46 for “E” rating.

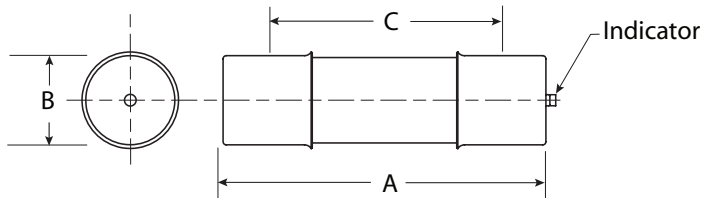
### CLPT Type Mountings and Hardware 38 kV Maximum (34.5 kV Nominal)

| Amp rating | Fuse mounting type      | Catalog number                                 |                           |                                      |                                |
|------------|-------------------------|------------------------------------------------|---------------------------|--------------------------------------|--------------------------------|
|            |                         | Mounting (including Live Parts, End Fittings)* |                           | Live Parts (including end fittings)* | End fittings (disconnect only) |
|            |                         | Porcelain insulator                            | Glass-polyester insulator |                                      |                                |
| 0.5        | Disconnect <sup>†</sup> | Not applicable                                 | Not applicable            | CLPT-NL                              | CLPT-DF                        |
|            | Non-disconnect          | 38CLPT-PNM-A                                   | Not applicable            | CLPT-DL                              | —                              |

\* End fittings supplied only when required.

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

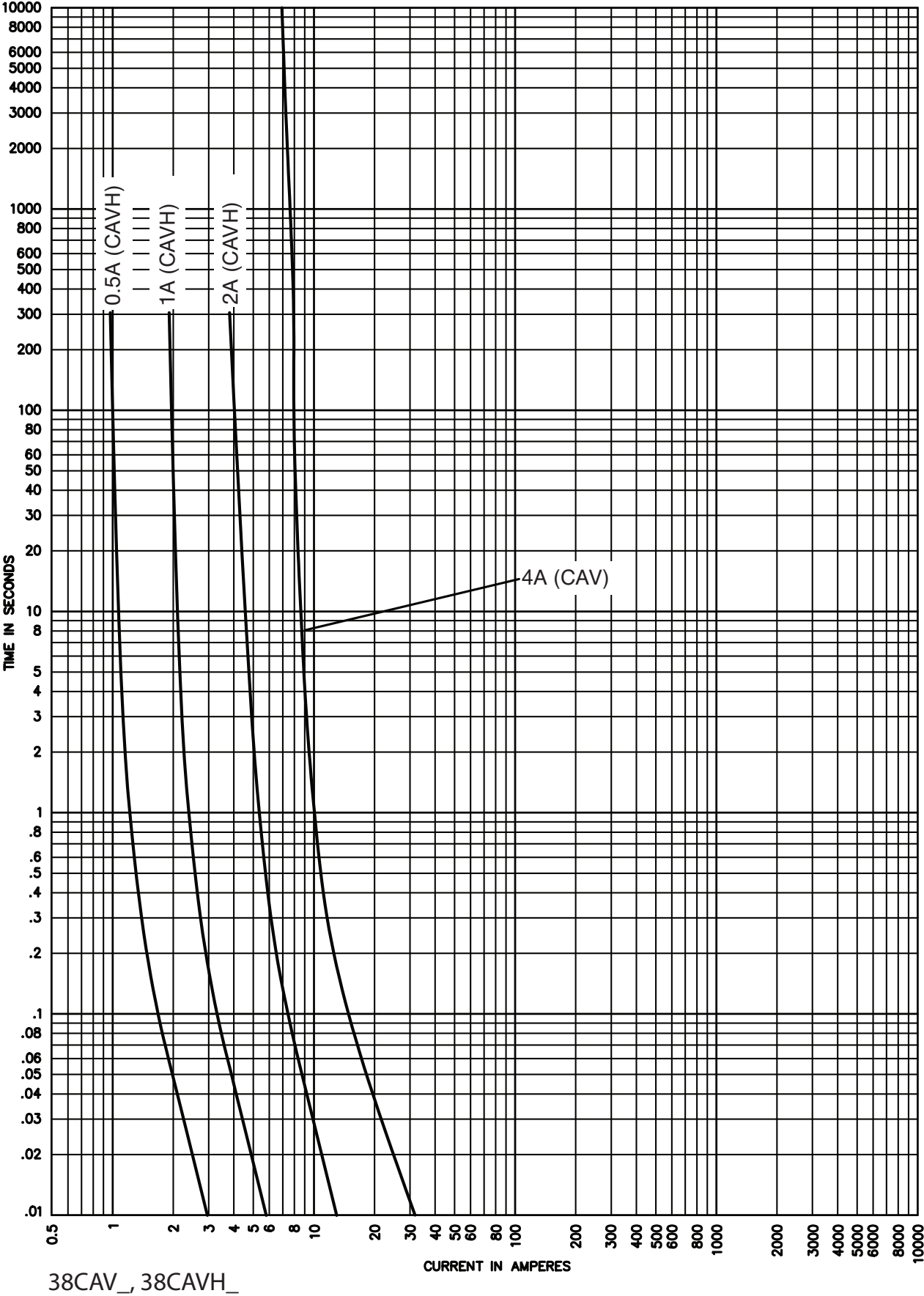
### Dimensions (see catalog number tables for values)



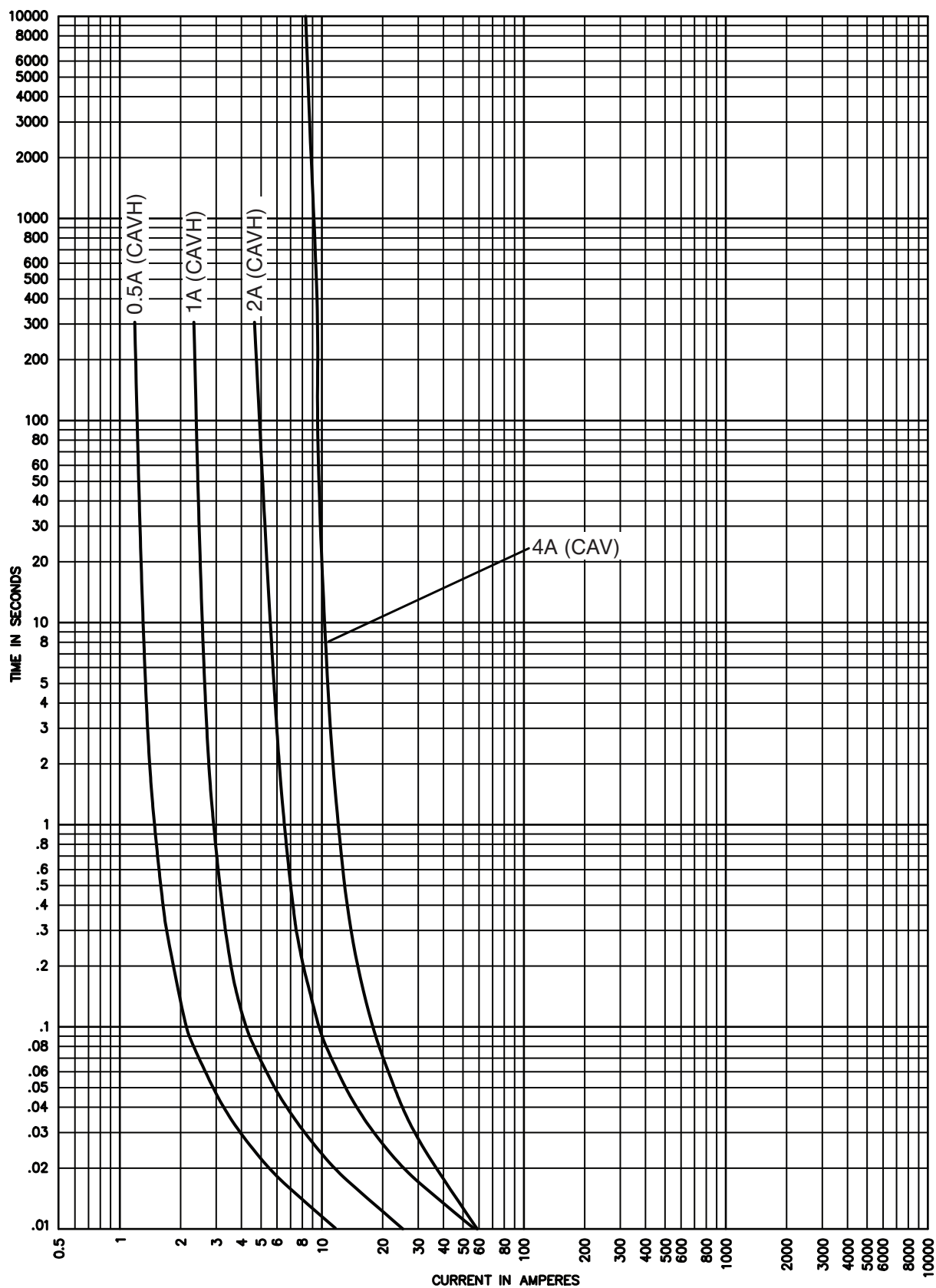
### Recommended fuseclip:

| Description                                                 | Cat. No. |
|-------------------------------------------------------------|----------|
| Open fuseclip for 1.56 (39.7 mm) / 1.6 (40.6 mm) dia. fuses | 1A0835   |

38 kV time-current curves — minimum melting for 38CAV\_ and 38CAVH

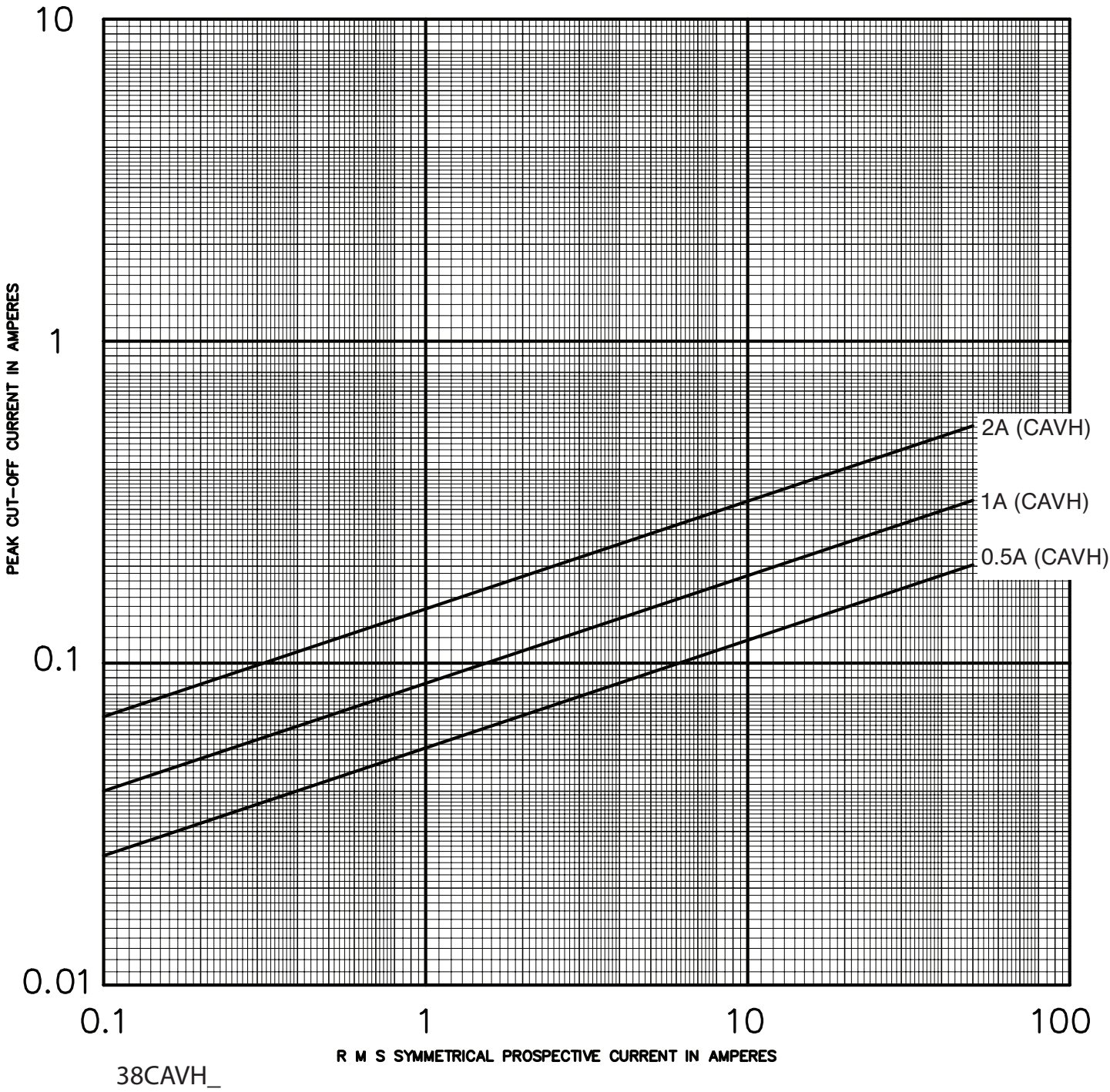


38 kV time-current curves — total clearing for 38CAV\_ and 38CAVH

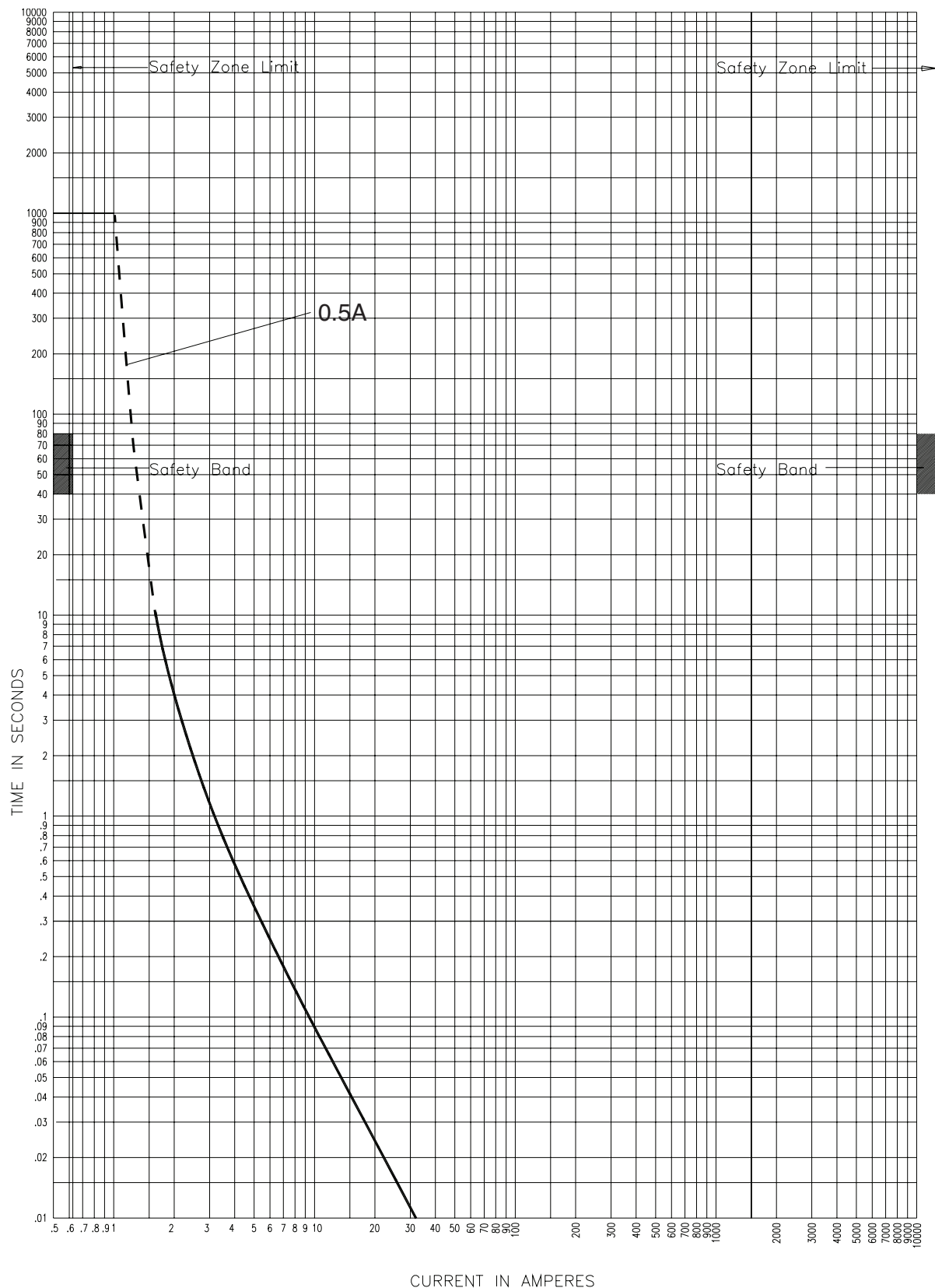


38CAV\_, 38CAVH\_

38 kV peak let-through curves for 38CAVH



38 kV time-current curves — minimum melting for 38CLPT\_

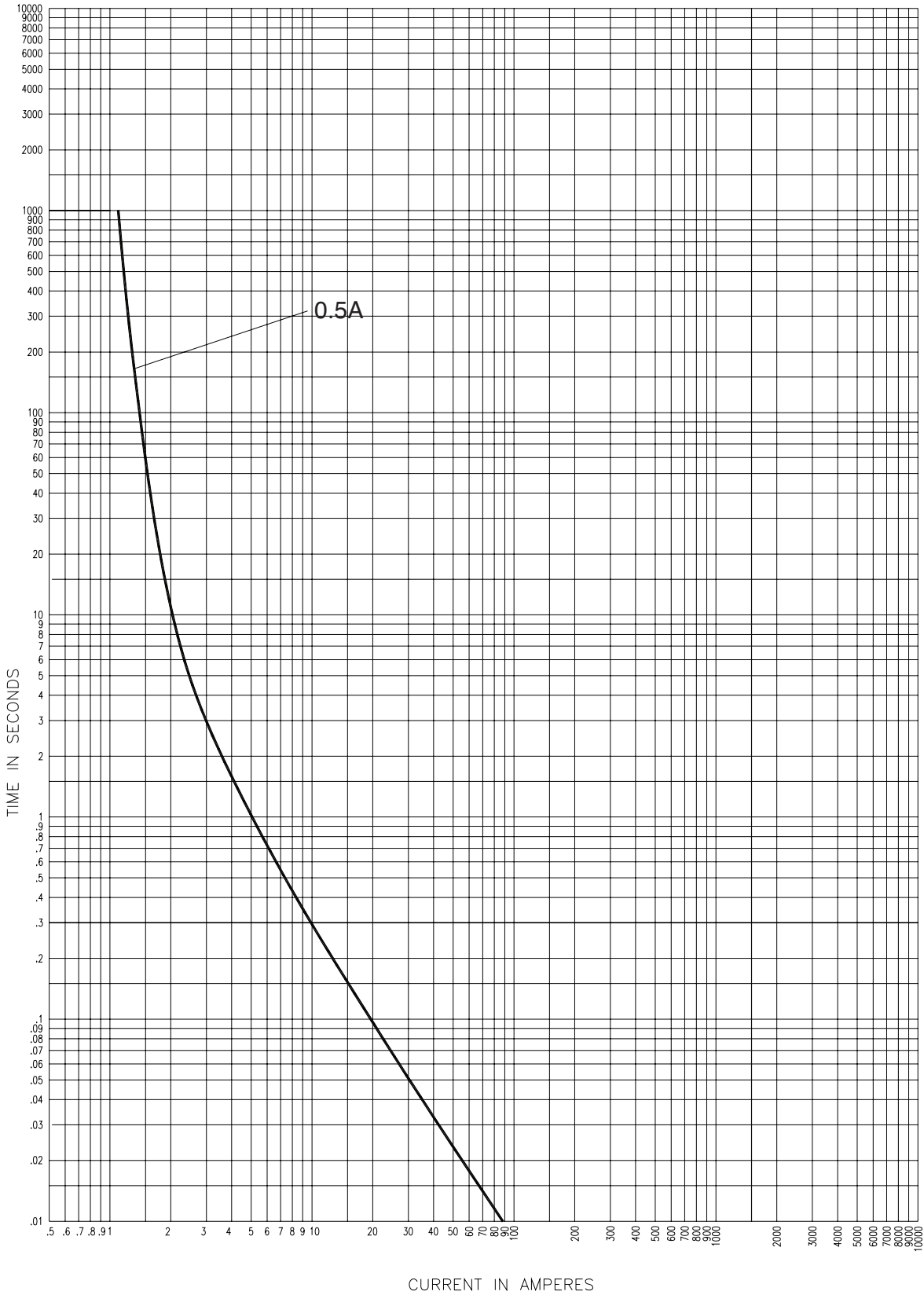


38CLPT\_

0.5 A fuse melt times in the dotted line region  
may not be assured due to manufacturing variations.  
The dotted lines show nominal operation. Some individual  
fuses may not open until current at 10-second mark is applied.

Curve TC56353208  
December 2008

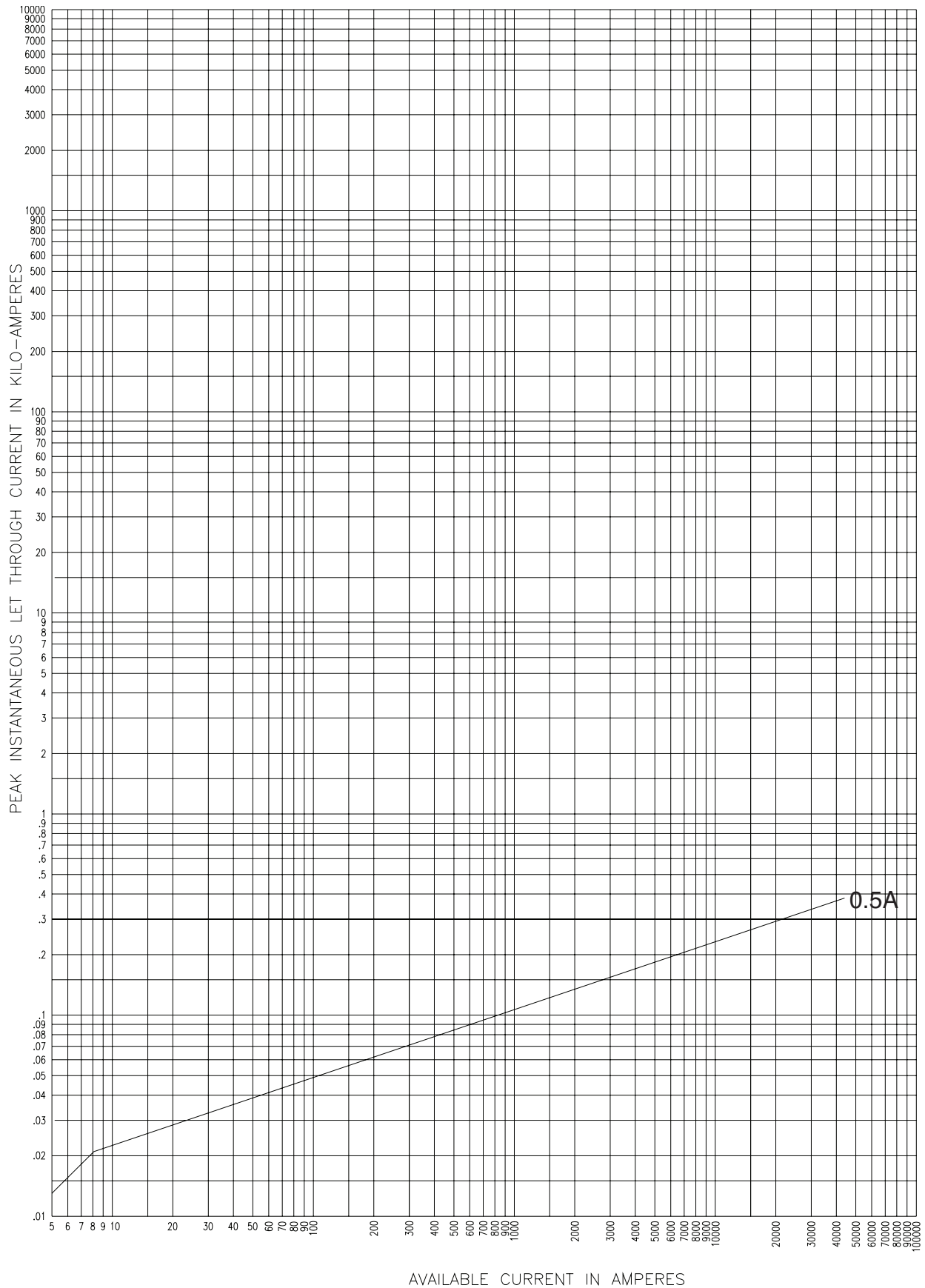
38 kV time-current curves — total clearing for 38CLPT\_



38CLPT\_

Curve TC56353308  
December 2008

38 kV peak let-through curves for 38CLPT\_

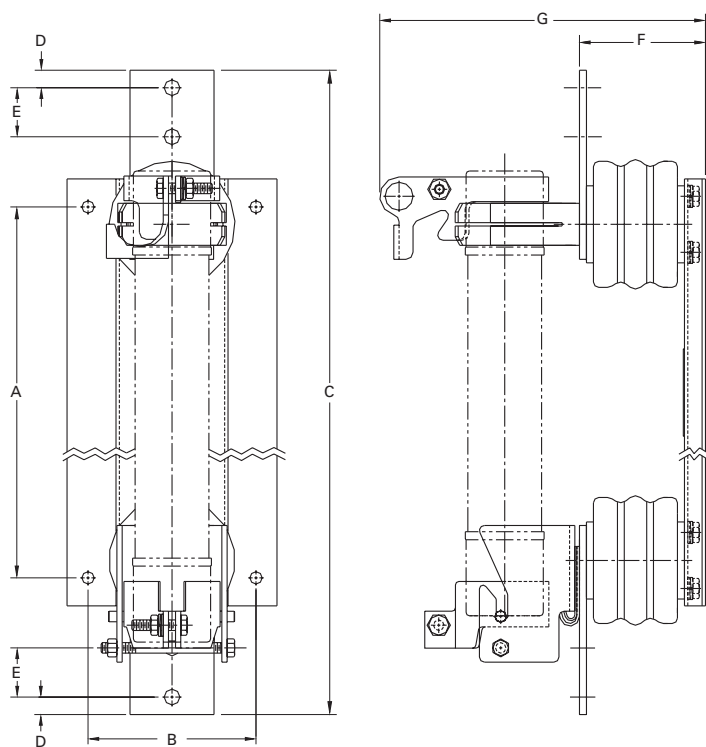


PT fuse mountings - in (mm)

| Catalog number               | Hole centers A | Hole centers B | Overall length C | Hole Inset D | Hole centers E | Contact height F | Overall height G | BIL<br>kV |
|------------------------------|----------------|----------------|------------------|--------------|----------------|------------------|------------------|-----------|
| <b>5.5kV Disconnect†</b>     |                |                |                  |              |                |                  |                  |           |
| 5CLPT-GDM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 4.5 (114.3)      | 9.56 (242.8)     | 60        |
| 5CLPT-PDM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 4.5 (114.3)      | 9.56 (242.8)     | 60        |
| <b>5.5kV Non-disconnect</b>  |                |                |                  |              |                |                  |                  |           |
| 5CLPT-GNM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 4.5 (114.3)      | 6.94 (176.2)     | 60        |
| 5CLPT-PNM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 4.5 (114.3)      | 6.94 (176.2)     | 60        |
| <b>8.3kV Disconnect†</b>     |                |                |                  |              |                |                  |                  |           |
| 8CLPT-GDM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 75        |
| 8CLPT-GDM-B                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 75        |
| 8CLPT-PDM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 75        |
| 8CLPT-PDM-B                  | 12.74 (323.6)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 75        |
| <b>8.3kV Non-disconnect</b>  |                |                |                  |              |                |                  |                  |           |
| 8CLPT-GNM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 75        |
| 8CLPT-PNM-A                  | 9.37 (238)     | 6 (152.4)      | 18.63 (473.2)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 75        |
| 8CLPT-GNM-B                  | 12.75 (323.8)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 75        |
| 8CLPT-PNM-B                  | 12.75 (323.8)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 75        |
| <b>15.5kV Disconnect†</b>    |                |                |                  |              |                |                  |                  |           |
| 15CLPT-GDM-A                 | 12.74 (323.6)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 95        |
| 15CLPT-PDM-A                 | 12.74 (323.6)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 95        |
| 15CLPT-GDM-B                 | 17.46 (443.5)  | 6 (152.4)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 95        |
| 15CLPT-PDM-B                 | 17.46 (443.5)  | 6 (152.4)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 12.06 (306.3)    | 95        |
| <b>15.5kV Non-disconnect</b> |                |                |                  |              |                |                  |                  |           |
| 15CLPT-GNM-A                 | 12.74 (323.6)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 95        |
| 15CLPT-PNM-A                 | 12.74 (323.6)  | 6 (152.4)      | 22 (558.8)       | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 95        |
| 15CLPT-GNM-B                 | 17.46 (443.5)  | 6 (152.4)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 95        |
| 15CLPT-PNM-B                 | 17.46 (443.5)  | 6 (152.4)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 7 (177.8)        | 9.44 (239.8)     | 95        |
| <b>25.5kV Disconnect†</b>    |                |                |                  |              |                |                  |                  |           |
| 25CLPT-PDM-A                 | 19.12 (485.6)  | 7 (177.8)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 12 (304.8)       | 17.06 (433.3)    | 150       |
| <b>25.5kV Non-disconnect</b> |                |                |                  |              |                |                  |                  |           |
| 25CLPT-PNM-A                 | 26.63 (676.4)  | 7 (177.8)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 12 (304.8)       | 14.75 (374.6)    | 150       |
| <b>38kV Non-disconnect</b>   |                |                |                  |              |                |                  |                  |           |
| 38CLPT-PNM-A                 | 19.12 (485.6)  | 7 (177.8)      | 26.63 (676.4)    | 0.75 (19)    | 1.75 (44.4)    | 12 (304.8)       | 14.75 (374.6)    | 150       |

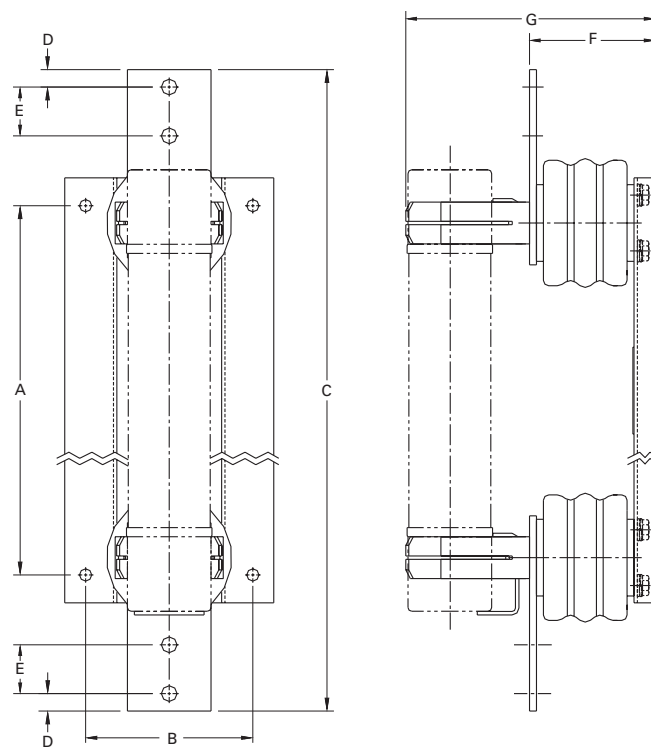
† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

### Disconnect mountings†



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

### Non-disconnect mountings



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