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.

Contents

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):

- 2.475kV
  - 2NCLPT-_
- 3.6kV
  - 3.6ABCNA_
  - 3.6ABWNA_
  - 3.6CAV_
- 5.5kV
  - JCW-_
  - 5CLPT-_E
  - 5NCLPT-_E
  - 5NCLPT-_E-A
  - 5.5ABWNA_E
  - 5.5AMWNA_E
  - 5.5CAV_E
  - 5.5CAVH_E
- 7.2kV
  - 7.2ABWNA_
  - 7.2ABCNA_
  - 7.2AMWNA_E
  - 7.2CAV_
- 8.3kV
  - 8CLPT-_E-A
  - 8CLPT-_E-B
  - 8NCLPT-_E
  - 8NCLPT-_E-A
  - 8NCLPT-_E-B
- 12kV
  - 12ABCNA_
  - 12CAV_
- 15.5kV
  - 15CLPT-_E
  - 15NCLPT-_E-A
  - 15.5CAV_E
  - 15.5CAVH_E
- 17.5kV
  - 17.5ABGNA_
  - 17.5CAV_
- 24kV
  - 24ABGNA_
  - 24CAV_
- 25.5kV
  - 25CLPT-_E
- 36kV
- 36ABGNA_
  - 36CAV_
- 38kV
  - 38CAV_E
  - 38CAVH_E
  - 38CLPT-_E

Ratings*:

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

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

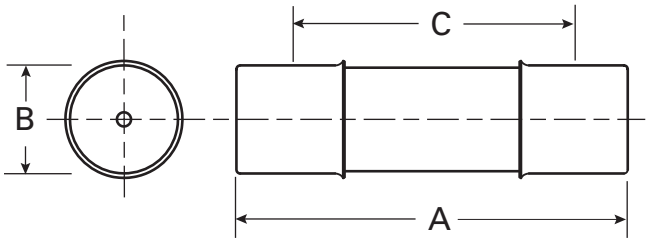
Agency information:

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

2.475kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
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)	

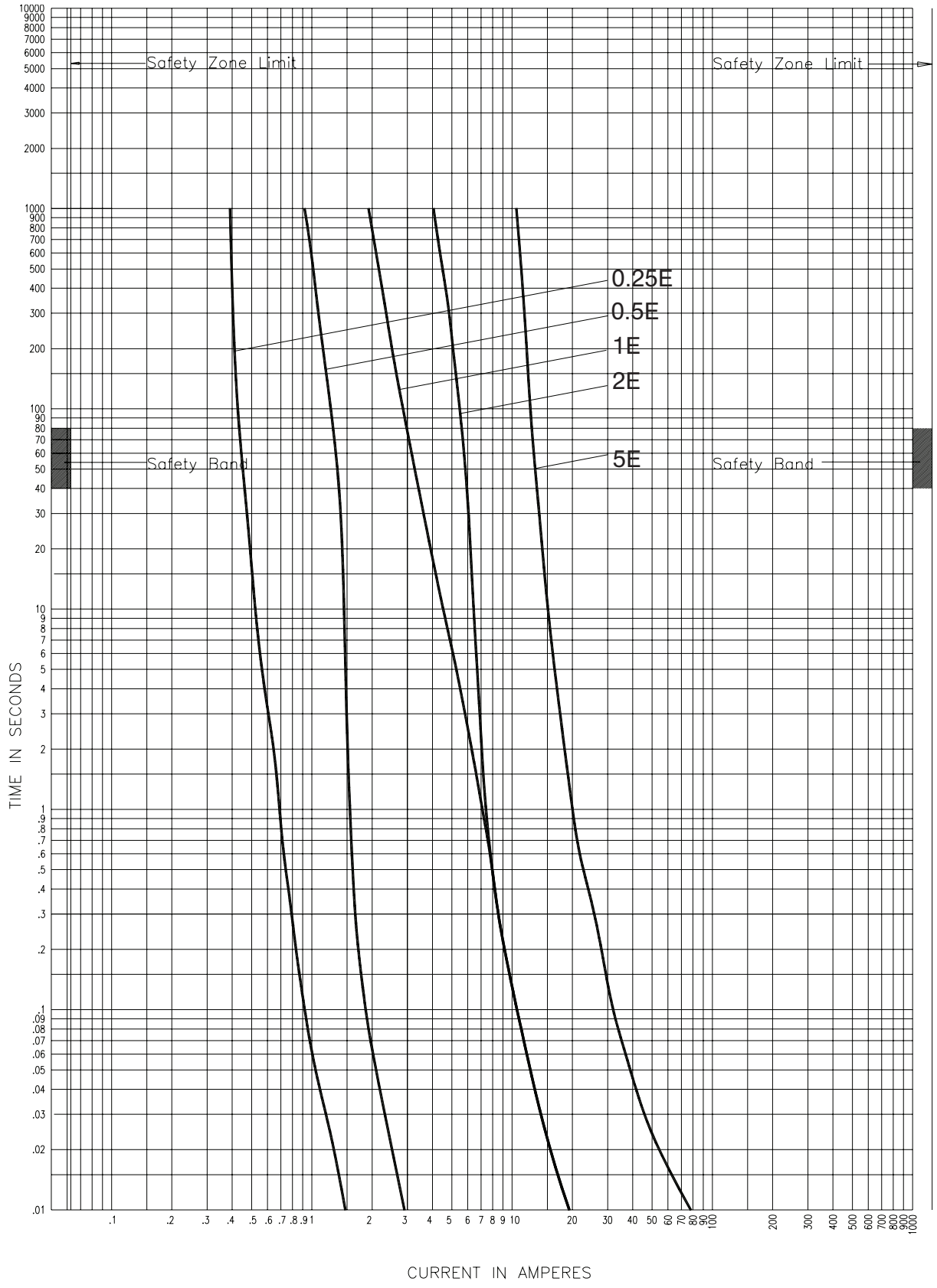
Dimensions (see catalog number tables for values)



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

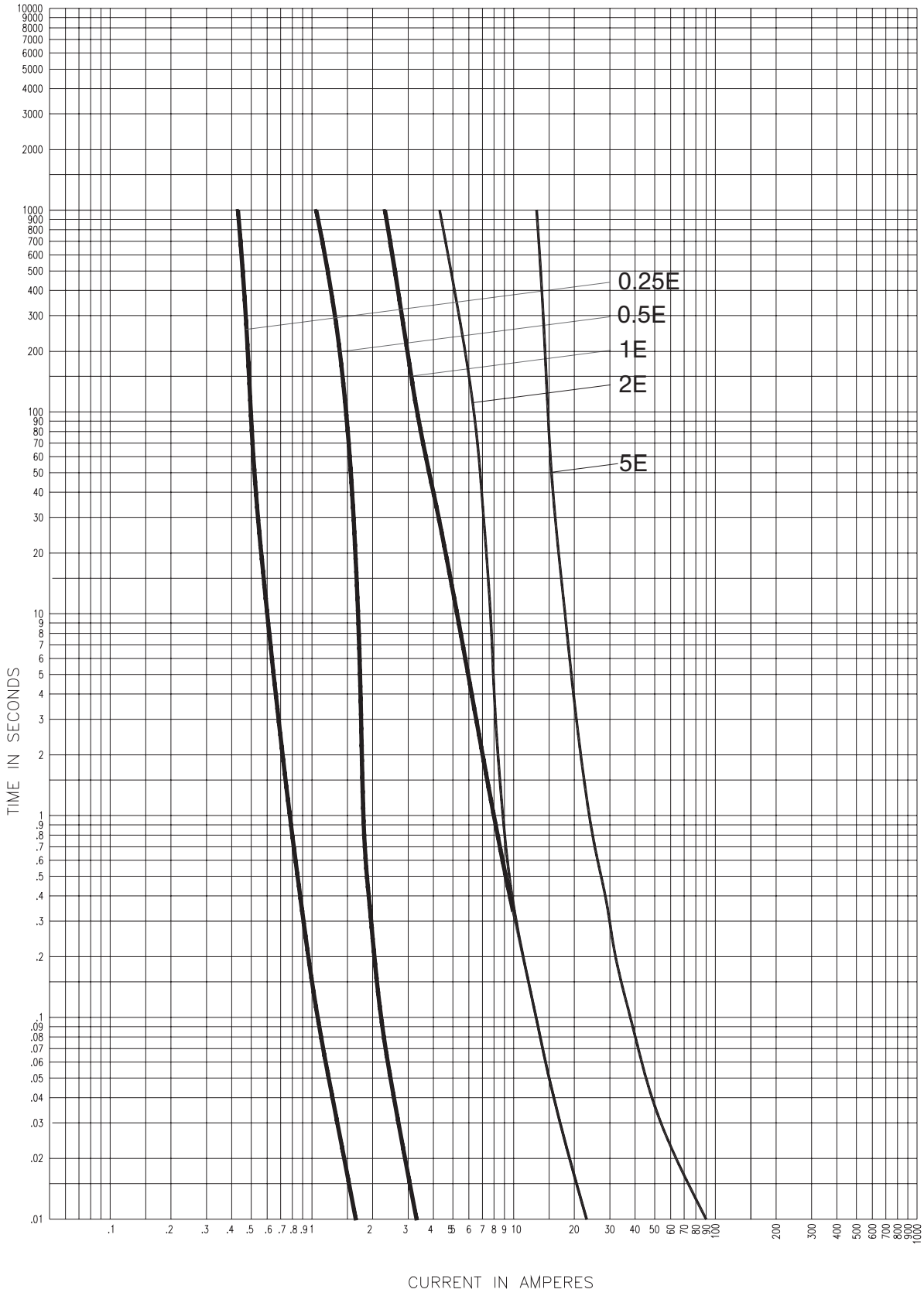
2.47kV time-current curves — minimum melting for 2NCLPT-_E



2NCLPT-_E

Curve TC56357202
December 2008

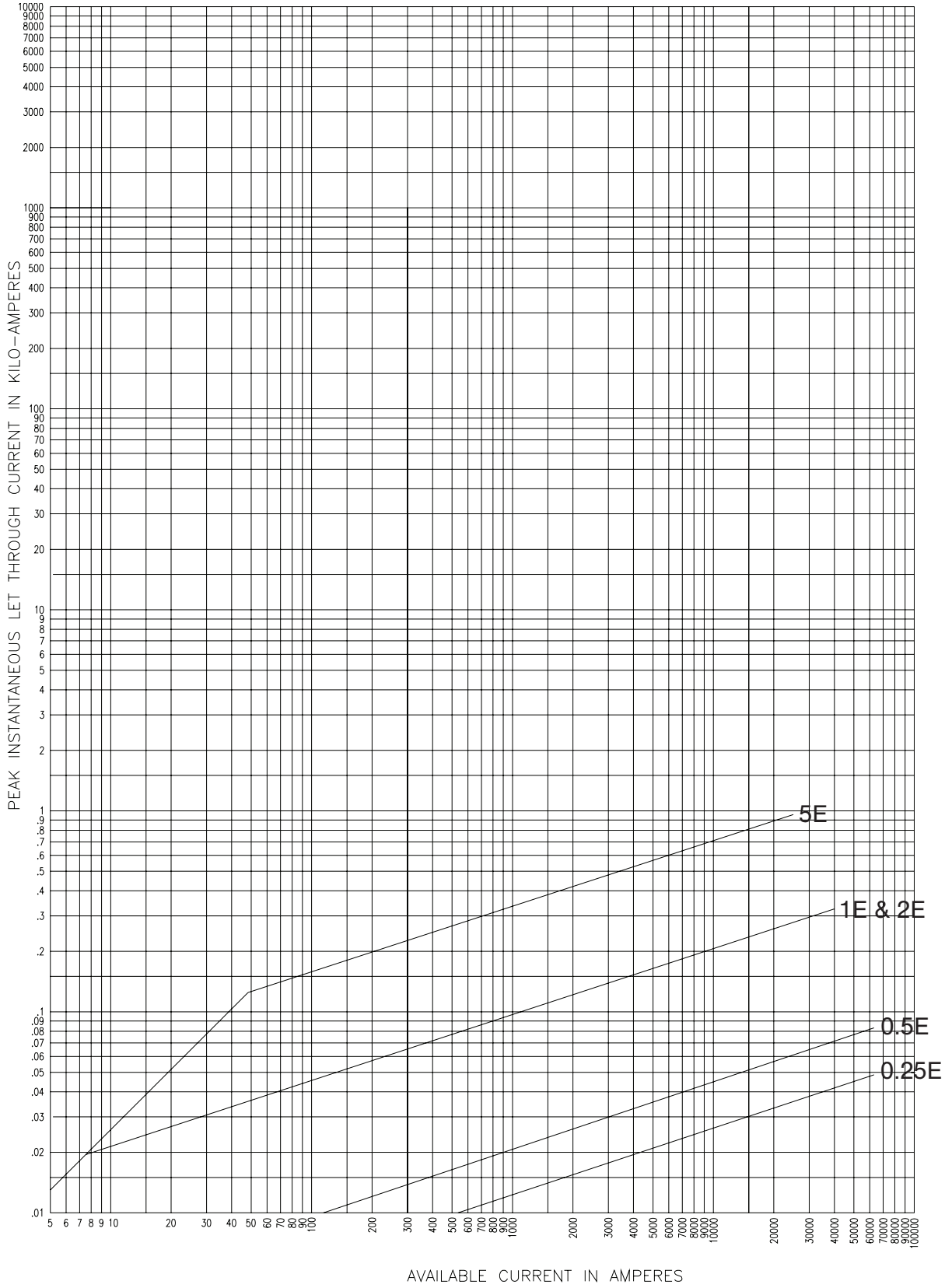
2.47kV time-current curves — total clearing for 2NCLPT-_E



2NCLPT-_E

Curve TC59883702
October 2010

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



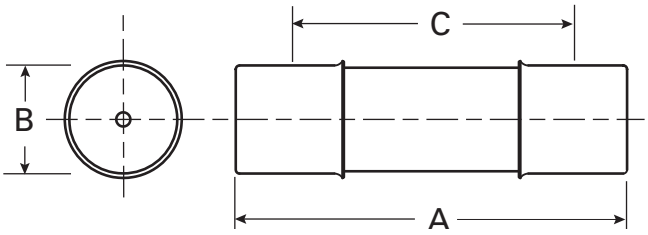
2NCLPT-_E

Curve TC63933702
December 2008

3.6kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	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)	
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)	A3354705
6.3	7.7 (195)	1 (25)	6.5 (165)	—	3.6ABCNA6.3 (50)	
10				—	3.6ABCNA10 (50)	

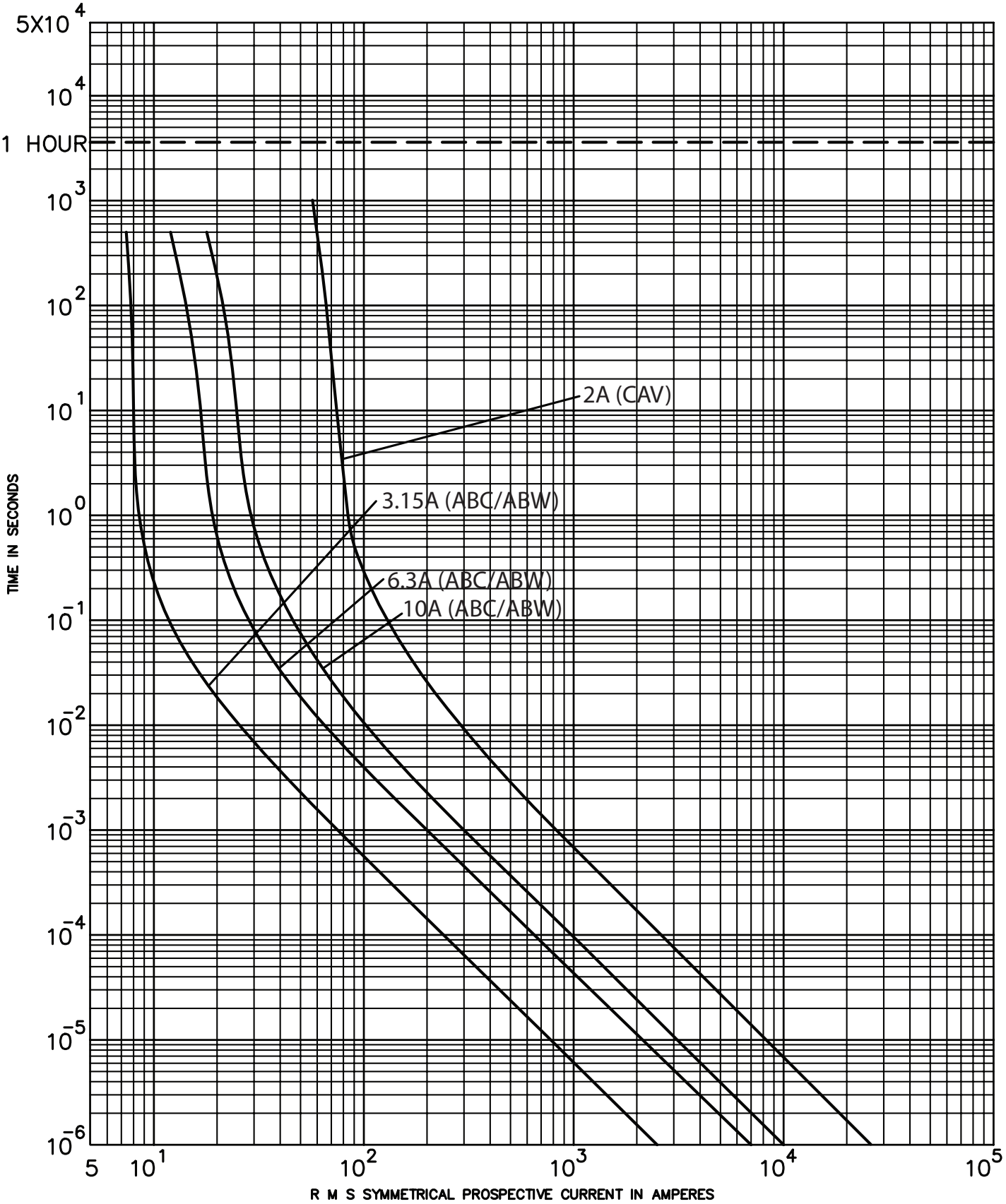
Dimensions (see catalog number tables for values)



Recommended fuseclips:

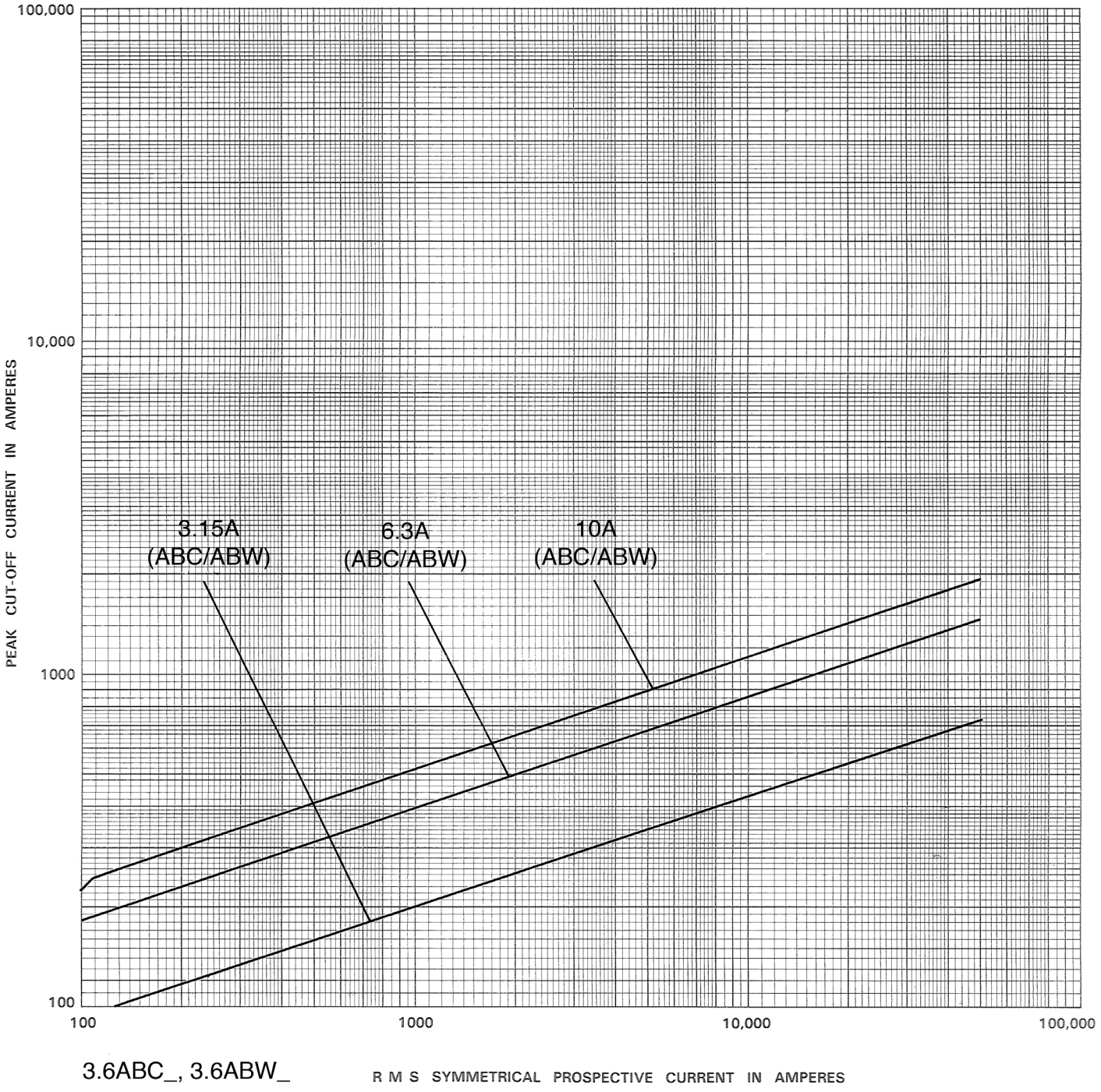
Description	Cat. No.
Open fuseclip for 1.0 (25.4mm) dia. fuses	A3354705
Open fuseclip for 1.56 (39.7mm) / 1.6 (40.6mm) dia. fuses	1A0835

3.6kV Time-current curves — minimum melting for 3.6CAV_, 3.6ABC_ and 3.6ABW_



3.6ABC_, 3.6ABW_, 3.6CAV_

3.6kV Peak let-through curves for 3.6ABC_ and 3.6ABW_



3.6ABC_, 3.6ABW_

5.5kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
0.5	5.6 (142)	0.8 (20)	4.8 (122)	—	5.5AMWNA0.5E (50)	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)†	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)	—	5.5AMWNA1.0E (50)	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)†	5NCLPT-1E-A (63)	
1.5	9.5 (241)	1.6 (41)	8.1 (206)	5CLPT-1.5 (80)†	—	1A0835
2	5.6 (142)	1 (25)	4.4 (112)	—	5.5ABWNA2E (50)	A3354705
2	5.6 (142)	0.8 (20)	4.8 (122)	—	5.5AMWNA2.0E (50)	1A1837
2	7.4 (188)	1.6 (41)	6.2 (157)	5.5CAVH2E (50)	JCW-2E (40)	1A0835
2	5.6 (142)	0.8 (20)	4.8 (122)	—	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)	—	5.5AMWNA3.0E (50)	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)	—	5.5AMWNA4.0E (50)	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)	—	5.5AMWNA5.0E (50)	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 (63)	1A0835
15	7.4 (188)	1.6 (41)	6.2 (157)	—	5.5CAV15E (50)	

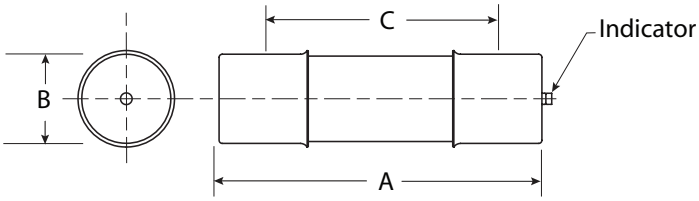
† Due to manufacturing variances, this fuse does not comply with ANSI C37.46 for "E" rating. See time-current curves for performance characteristics.

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

			Catalog number			
			Mounting (including live parts, end fittings)***		Live parts (including end fittings)***	End fittings (disconnect only)
Amp rating	Fuse mounting type**	BIL (kV)	Porcelain insulator	Glass-polyester insulator		
CLPT and NCLPT-A Mounting						
0.5–10	Non-disconnect	60	5CLPT-PNM-A	5CLPT-GNM-A	CLPT-NL	—
	Disconnect†	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.
† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

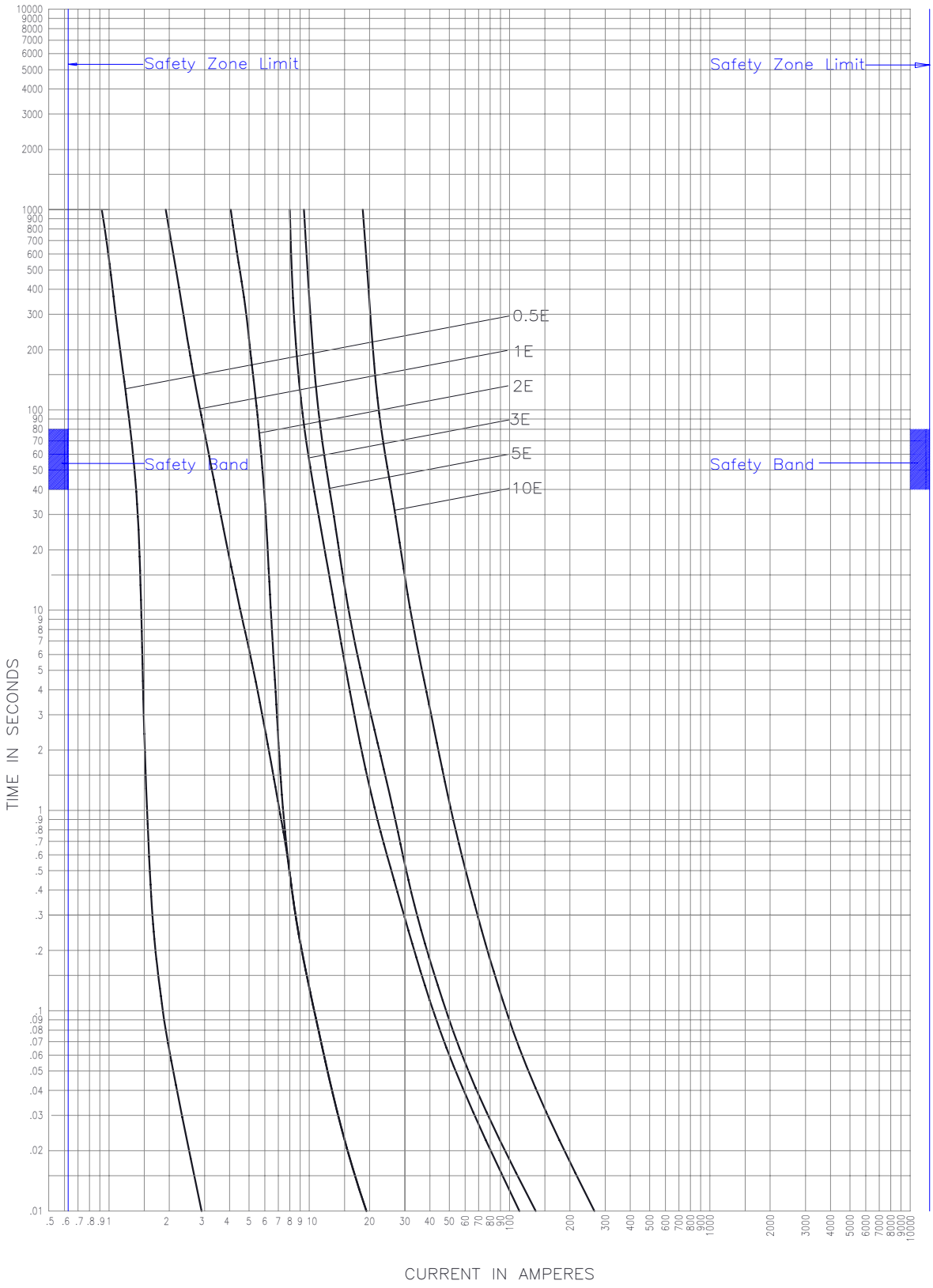
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

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

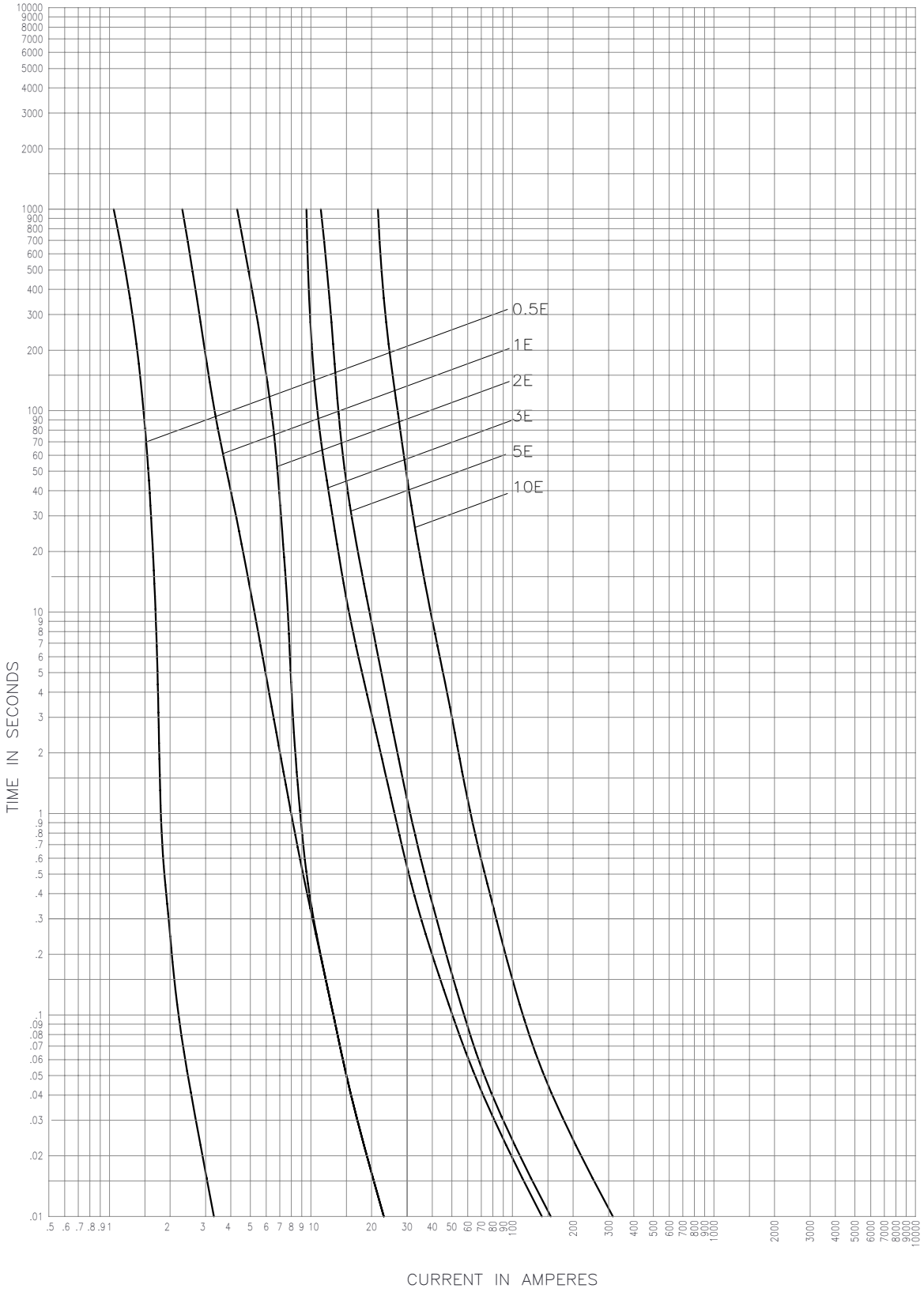


Type 5NCLPT General Purpose Current Limiting Fuses (Non—Indicating)
Minimum Melting Time—Current Characteristics

Curves are based on tests starting with fuse unit at ambient temperature of 25 C and without initial load. Curves are plotted to minimum test points so all variations should be positive.

CURVE TC70548302
March 2024

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

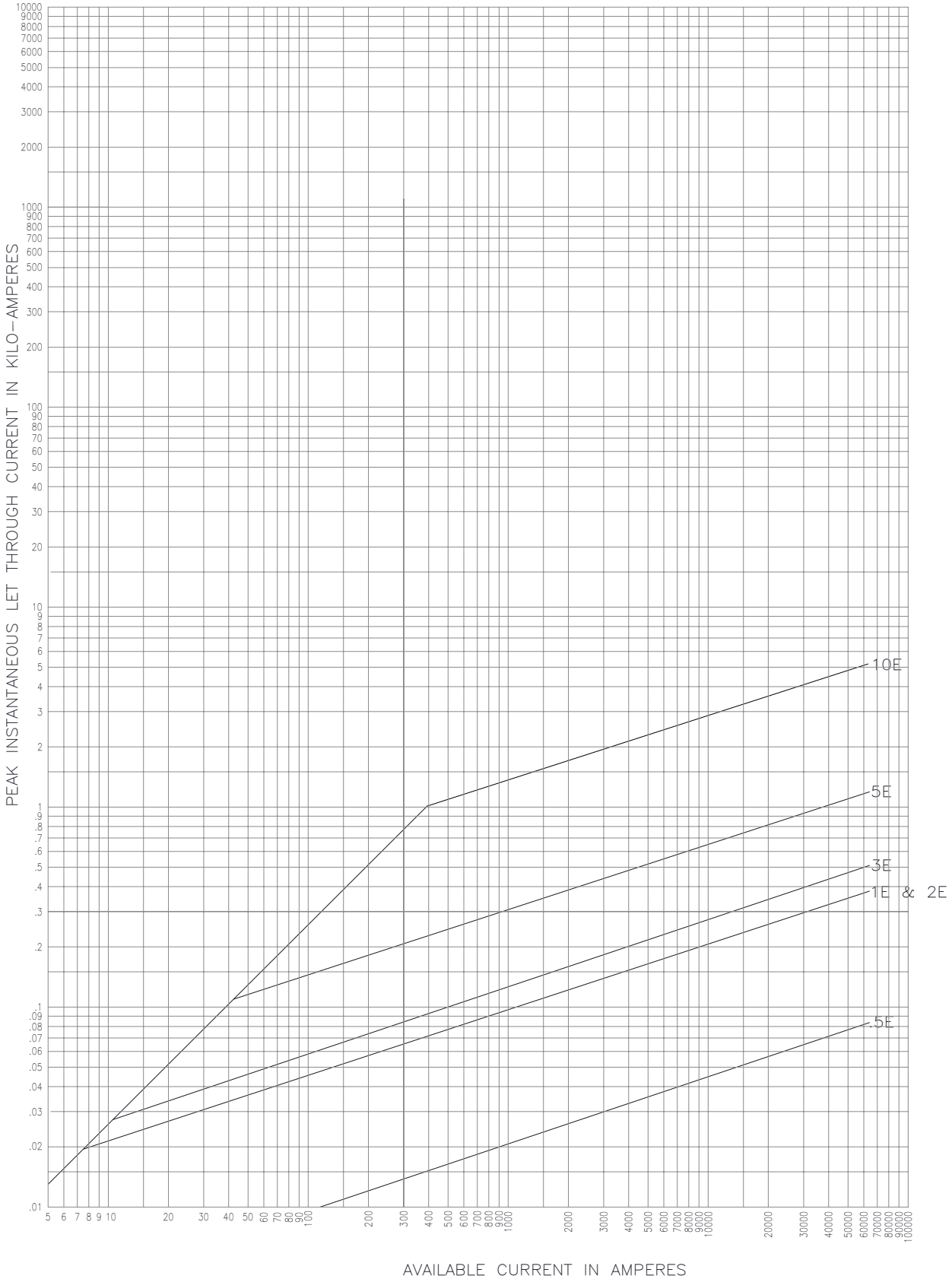


Type 5NCLPT General Purpose Current Limiting Fuses. (Non–Indicating)
Total Clearing Time–Current Characteristics

Curves are based on tests starting with fuse unit at ambient temperature of 25 C and without initial load. Curves are plotted to maximum test points so all variations should be negative.

CURVE TC70548402
March 2024

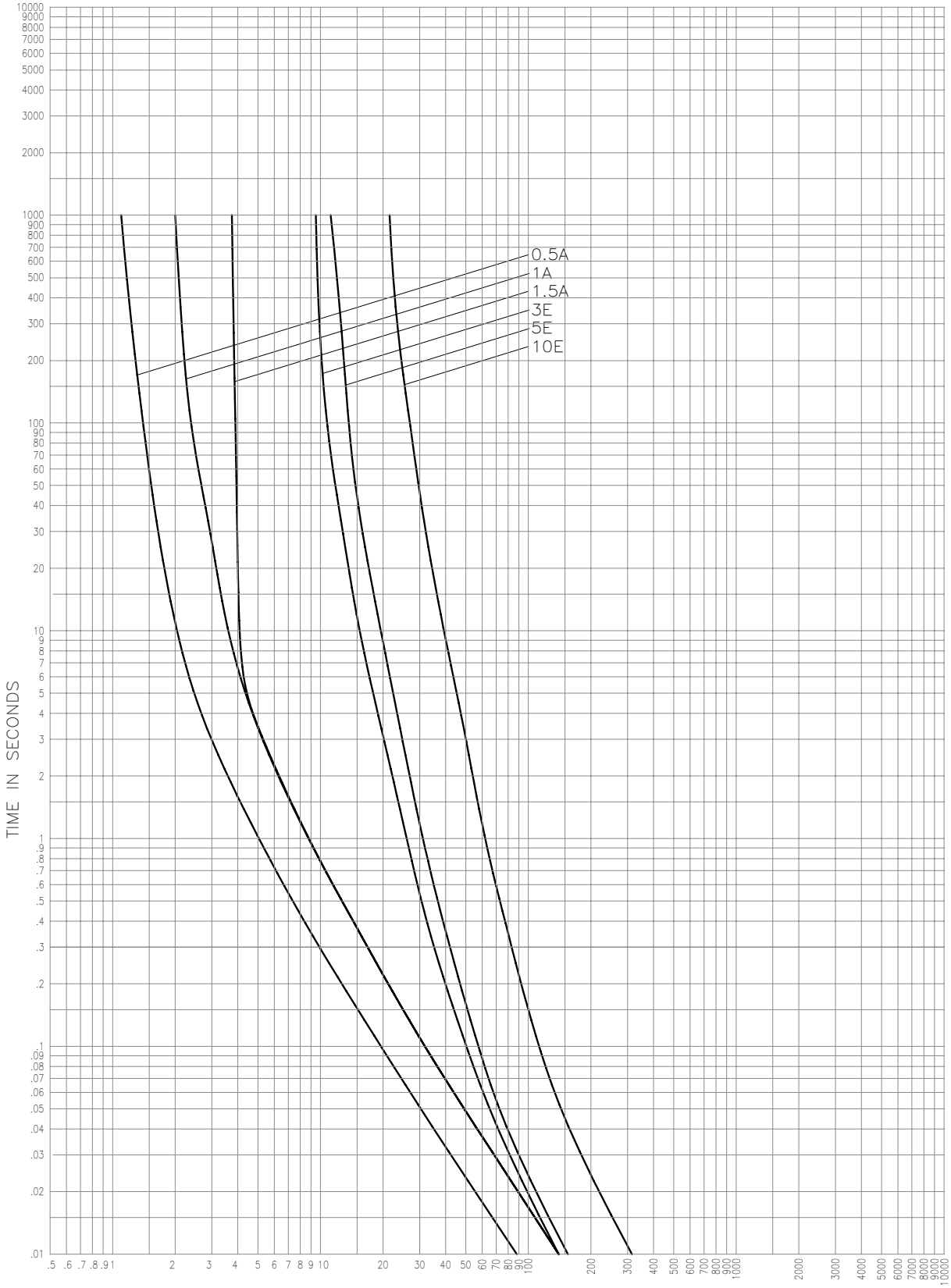
5.5kV peak let-through curves for 5NCLPT-_-A



Type NCLPT Current Limiting Potential Transformer Fuses.
Peak let Through Current Characteristics
Curves are plotted to maximum test points so all variations should be negative.

CURVE TC63934002
July 2024

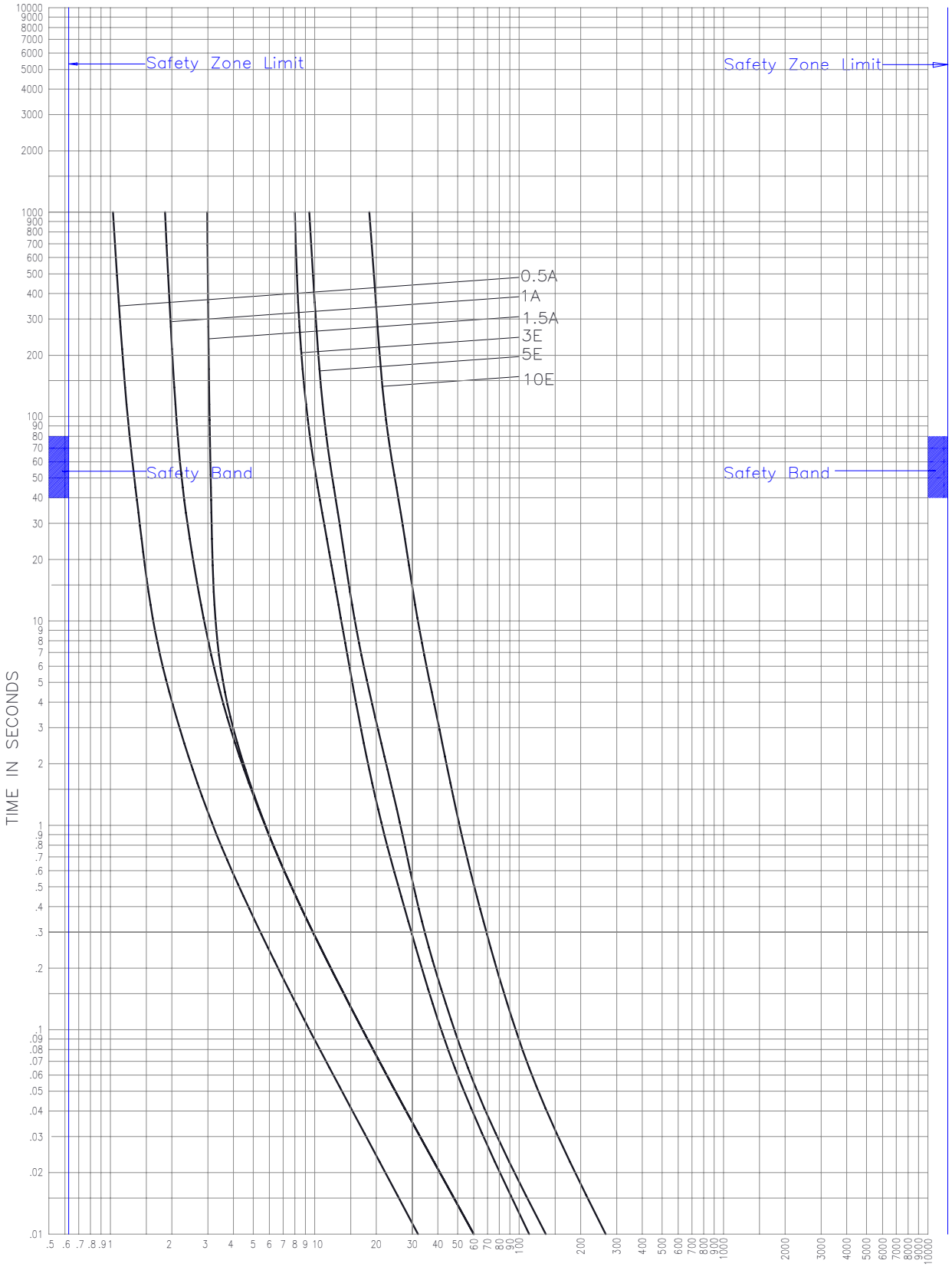
5.5kV Time-current curves — total clearing for 5CLPT_



Type CLPT General Purpose Current Limiting Fuses. (Indicating)
Total Clearing Time—Current Characteristics — 5.5 & 15.5 kV

CURVE 56353306
January 2024

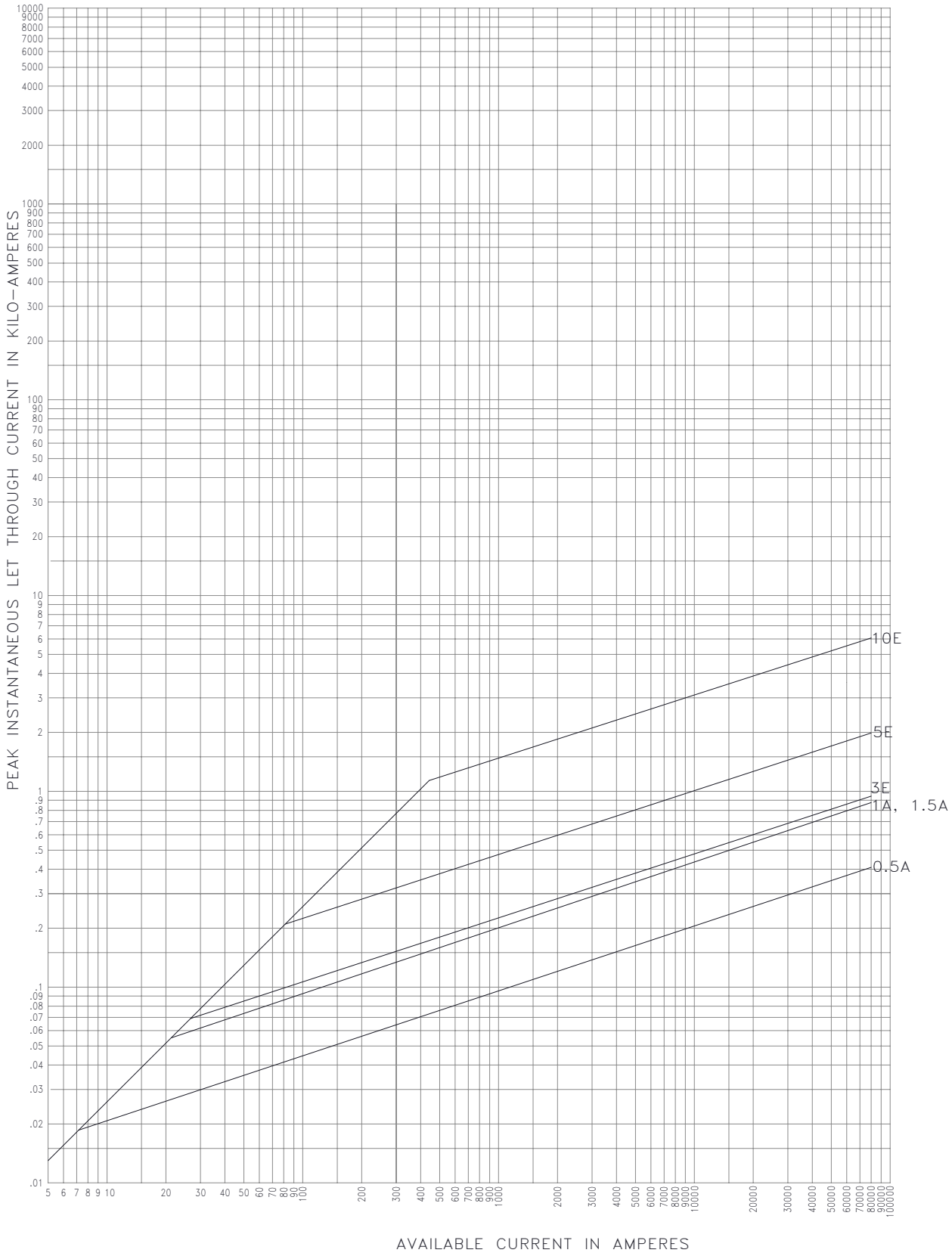
5.5kV peak let-through curves — minimum melting for 5CLPT_



Type CLPT General Purpose Current Limiting Fuses. (Indicating)
Minimum Melting Time–Current Characteristics – 5.5 kV & 15.5 kV

CURVE 56353206
January 2024

5.5kV peak let-through curves for 5CLPT_

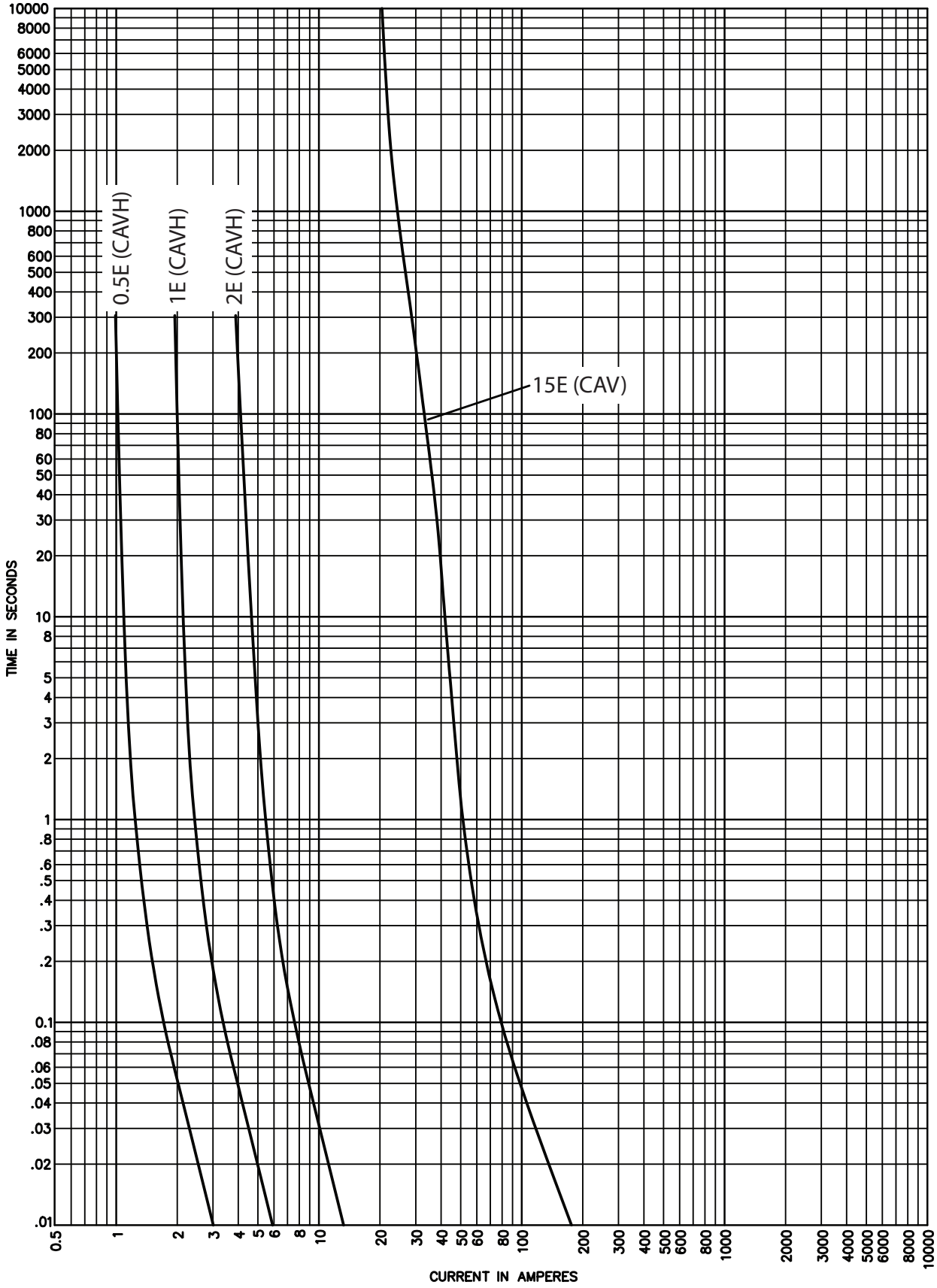


Type CLPT and JCQ Current Limiting Potential Transformer Fuses Peak Let Through Current Characteristics 5.5kV

CURVE TC63934001
July 2024

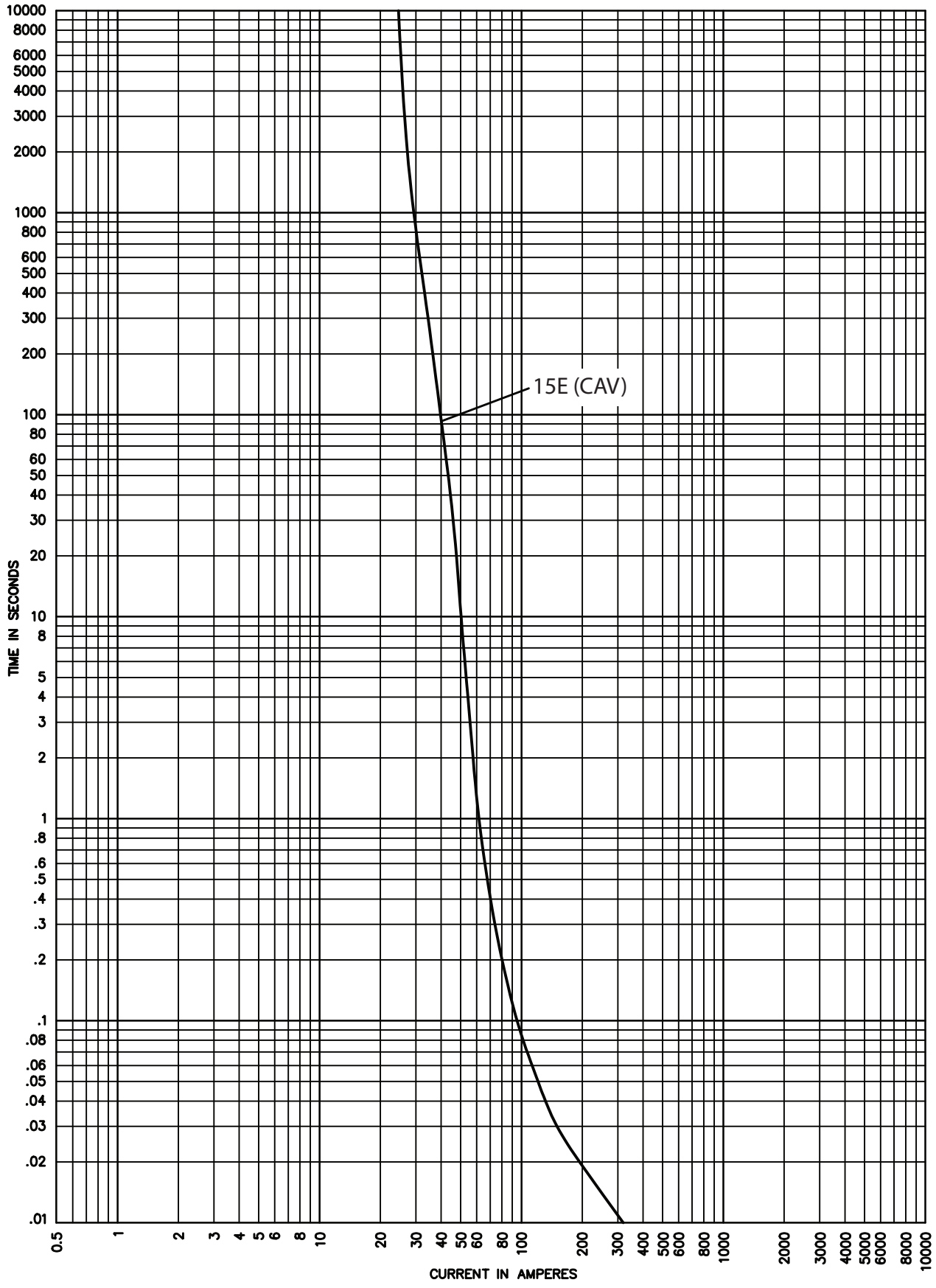
Curves are plotted to maximum test points so all variations should be negative.

5.5kV time-current curves — minimum melting for 5.5CAV_ and 5.5CAVH_



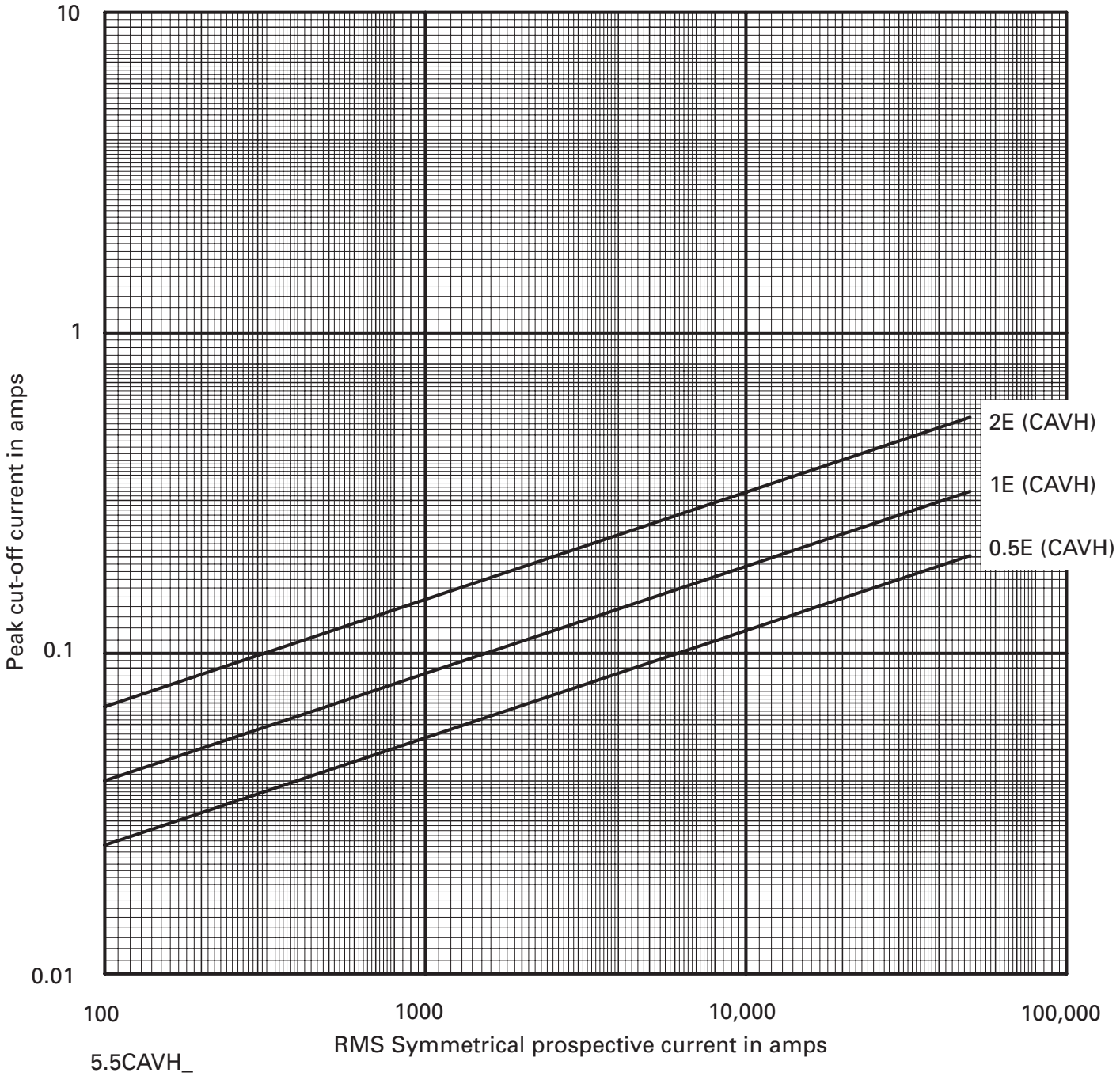
5.5CAV_, 5.5CAVH_

5.5kV time-current curves — total clearing for 5.5CAV_

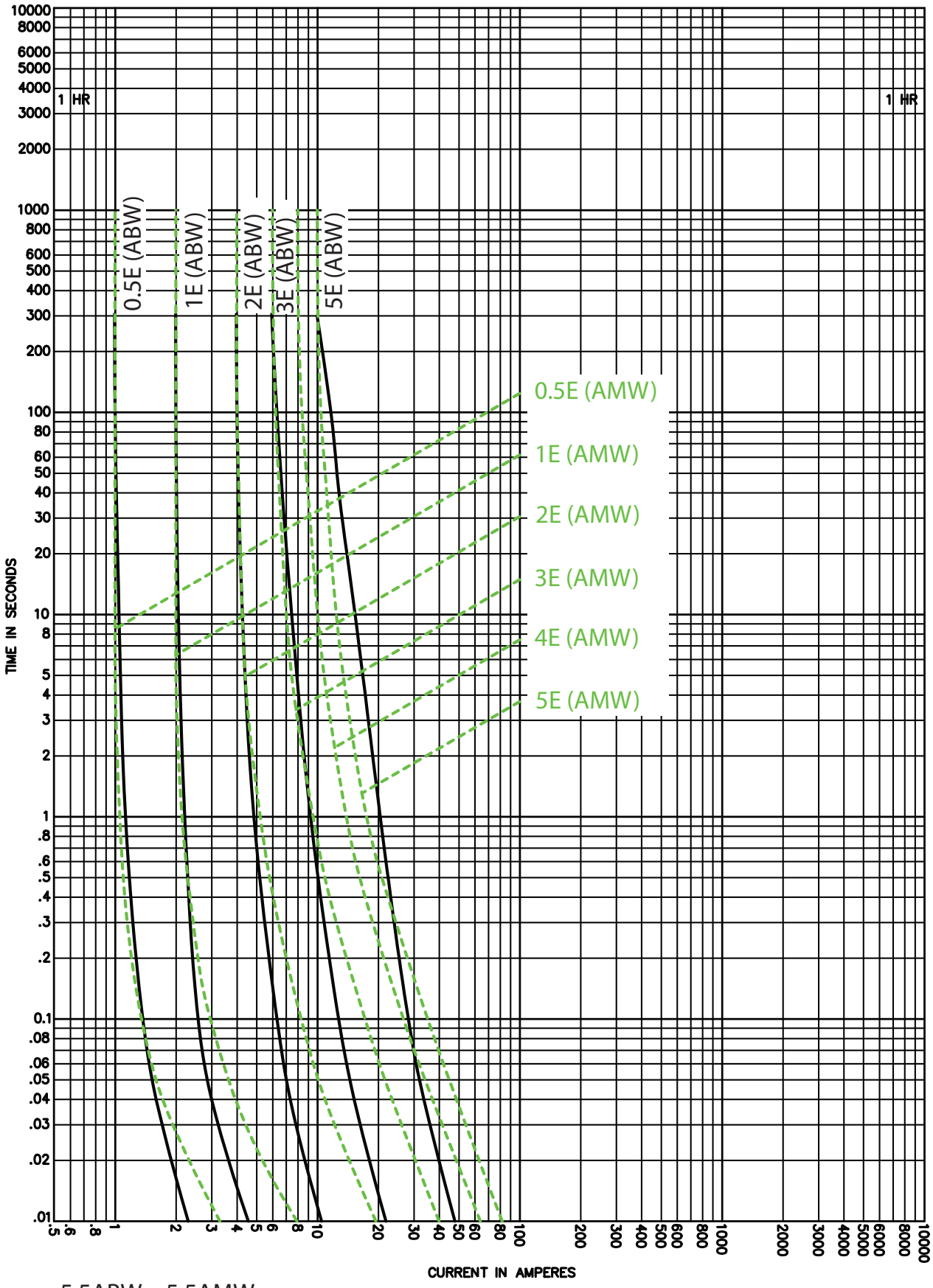


5.5CAV

5.5kV peak let-through curves for 5.5CAVH_

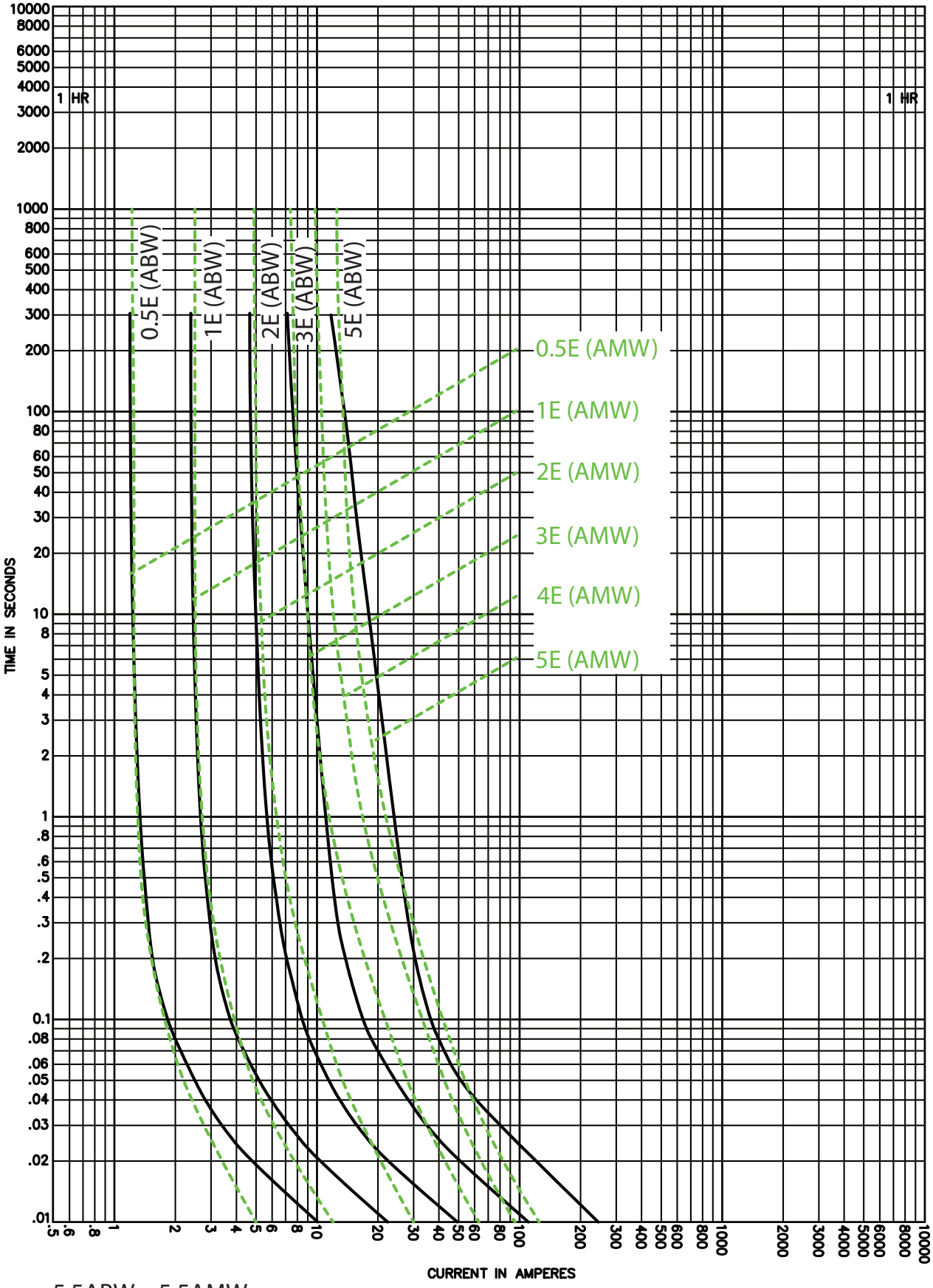


5.5kV time-current curves — minimum melting for 5.5ABW_ and 5.5AMW_



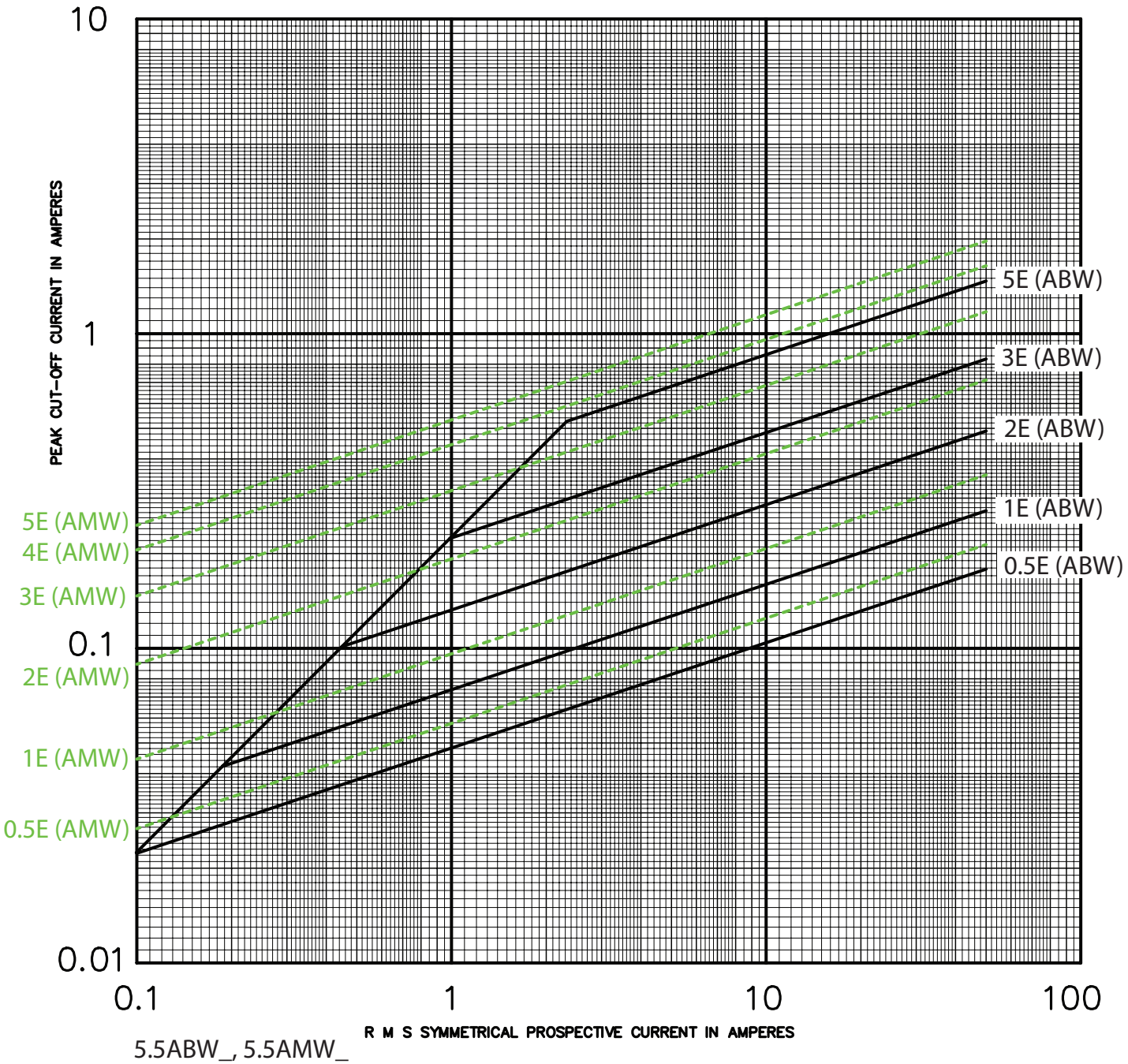
5.5ABW_, 5.5AMW_

5.5kV time-current curves — total clearing for 5.5ABW_ and 5.5AMW_



5.5ABW_, 5.5AMW_

5.5kV peak let-through curves for 5.5ABW_ and 5.5AMW_

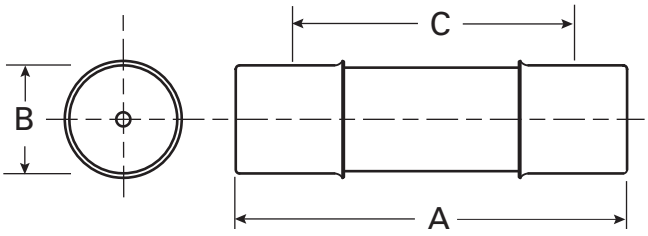


5.5ABW_, 5.5AMW_

7.2kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
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

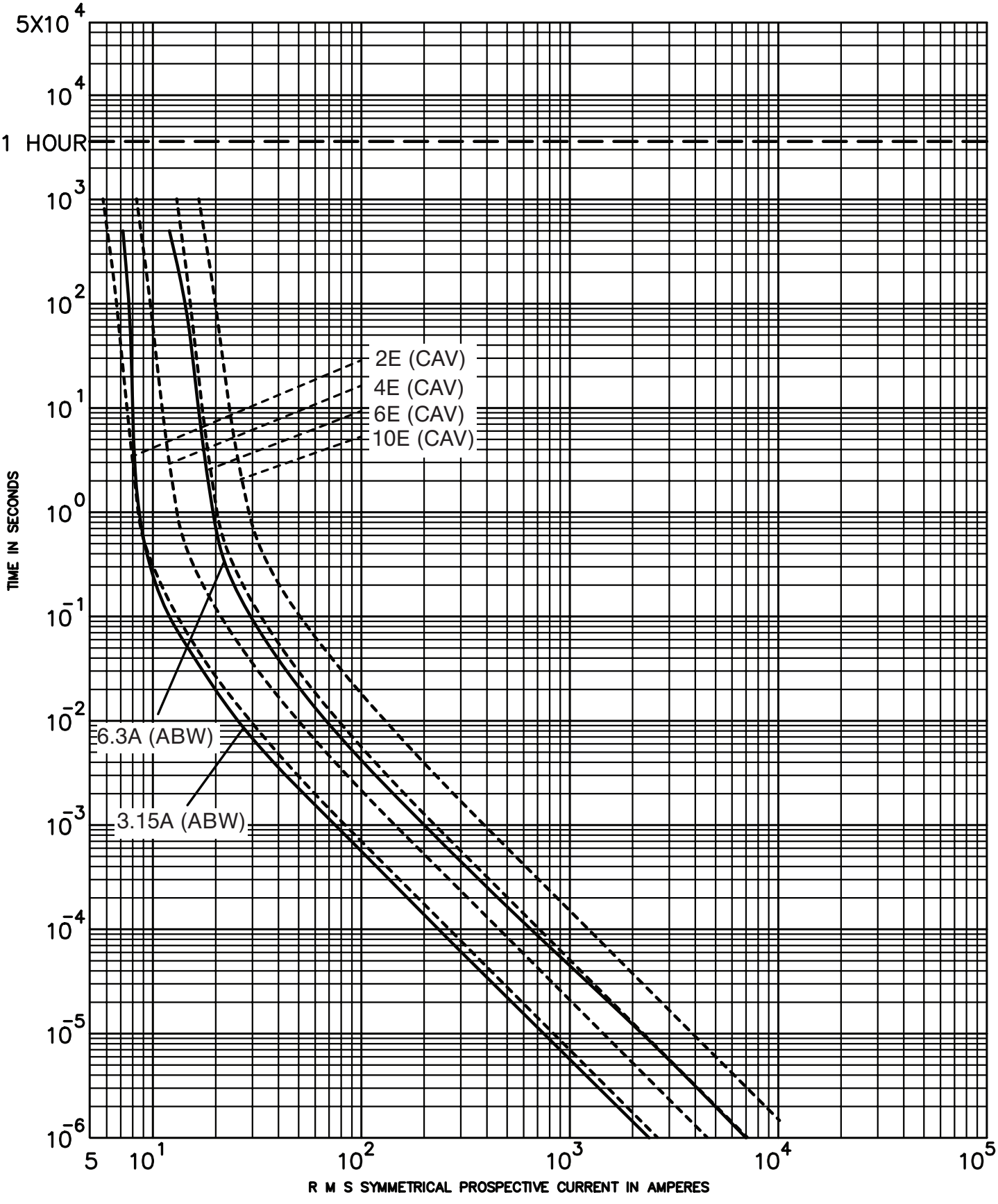
Dimensions (see catalog number tables for values)



Recommended fuseclips

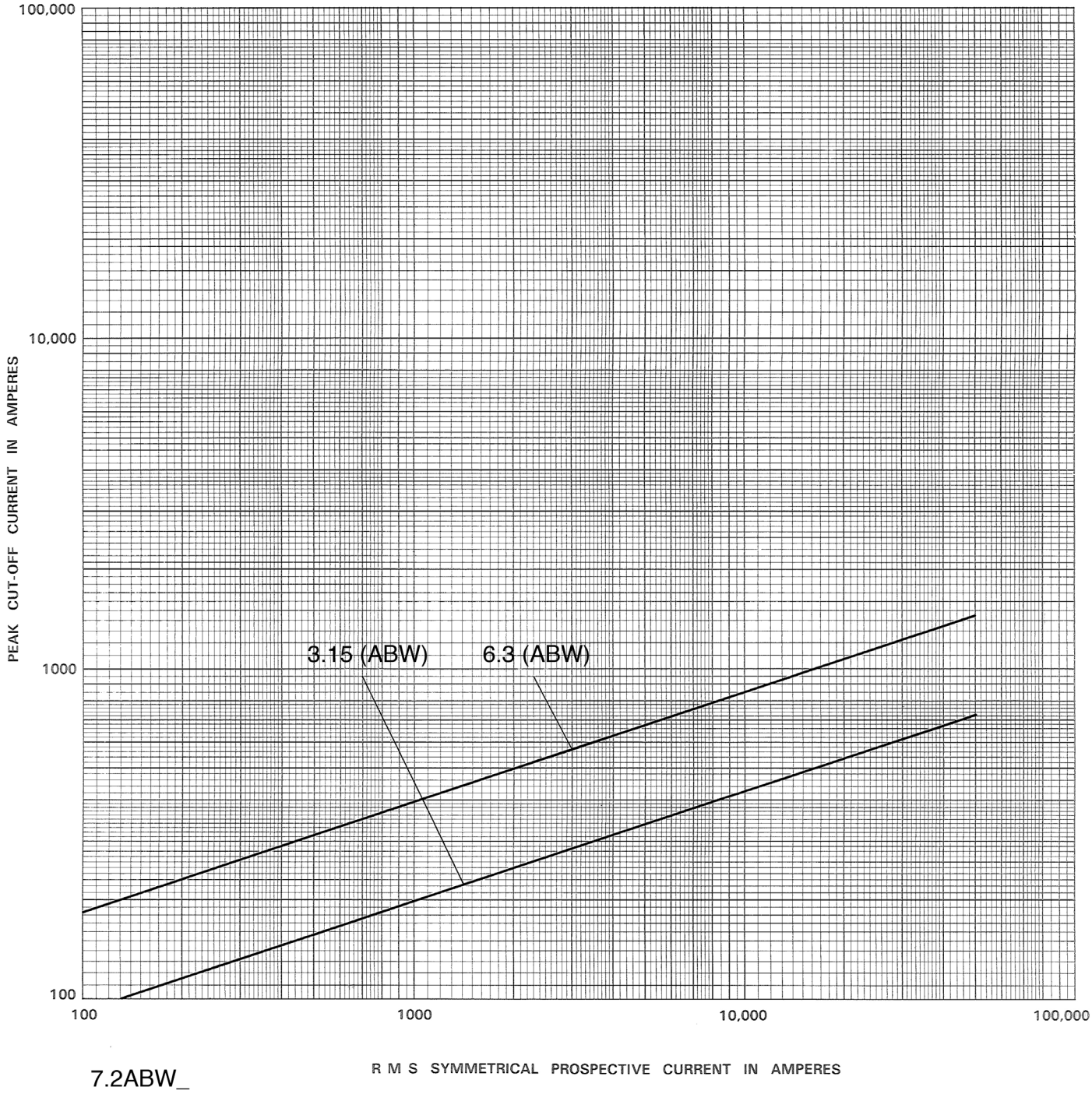
Description	Cat. No.
Open fuseclip for 0.8 (20mm) dia. fuses	1A1837
Open fuseclip for 1.0 (25.4mm) dia. fuses	A3354705
Open fuseclip for 1.56 (39.7mm) / 1.6 (40.6mm) dia. fuses	1A0835

7.2kV time-current curves — minimum melting for 7.2ABW_ and 7.2CAV_



7.2ABW_, 7.2CAV_

7.2kV peak let-through curves for 7.2ABW_



7.2ABW_

8.3kV 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 (80)†	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 (80)	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 (80)	8NCLPT-5E-B (50)	1A0835
8	5 (127)	1.1 (28)	4 (102)	—	8NCLPT-8E (??)	
10	12.9 (328)	1.6 (41)	11.5 (292)	8CLPT-10E (80)	8NCLPT-10E-B (50)	

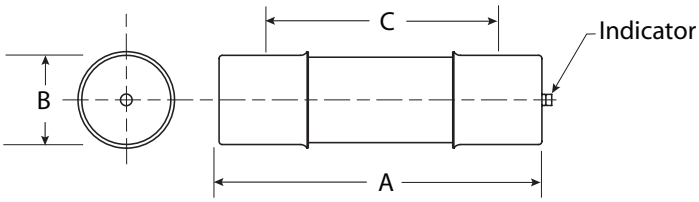
† Does not comply with ANSI C37.46 for “E” rating.

CLPT type mountings and hardware 8.3kV maximum (7.2kV 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	75	8CLPT-PNM-A	8CLPT-GNM-A	CLPT-NL	—
	Disconnect†	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†	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.
† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

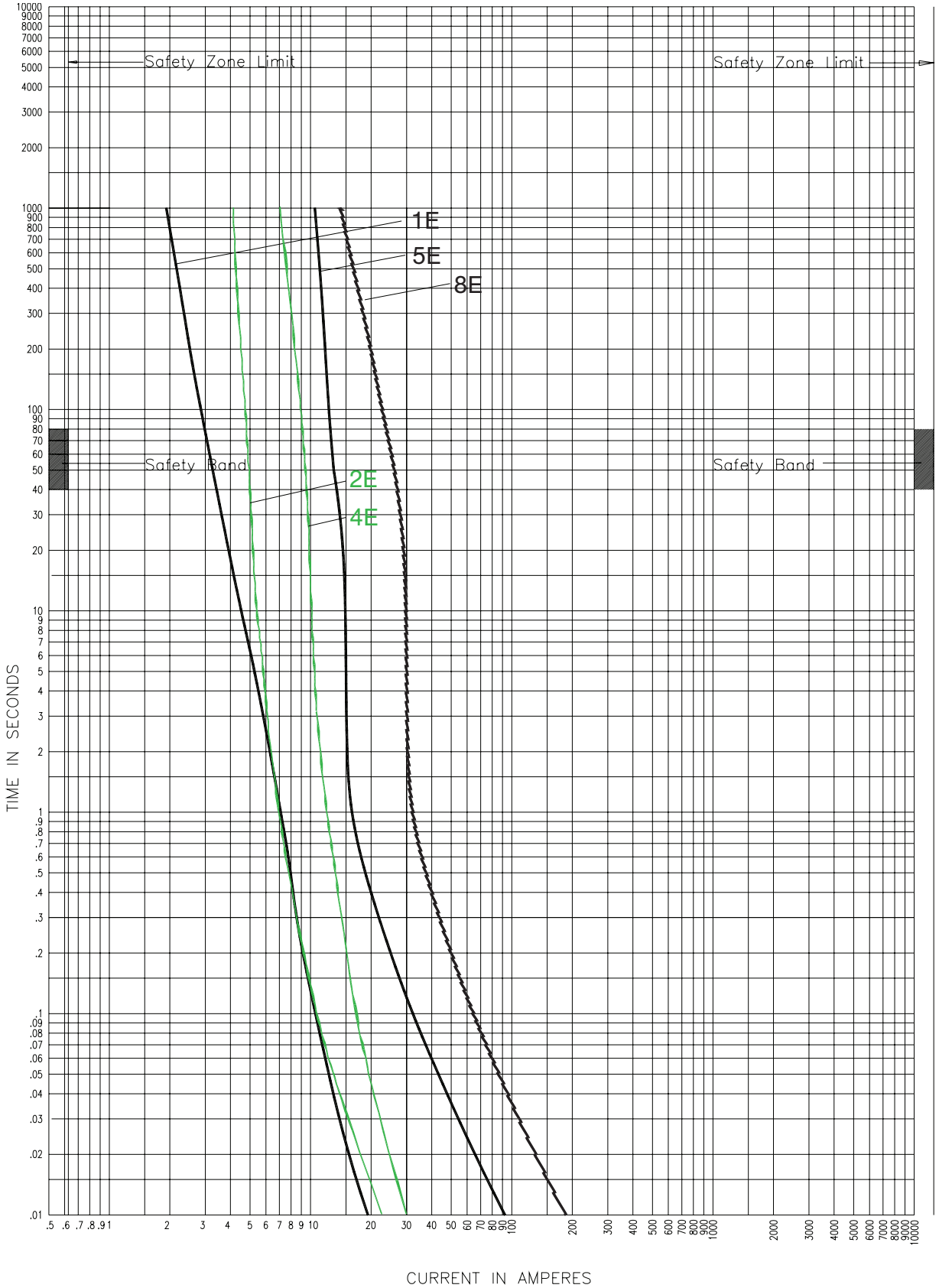
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

8.3kV time-current curves — minimum melting for 8NCLPT_

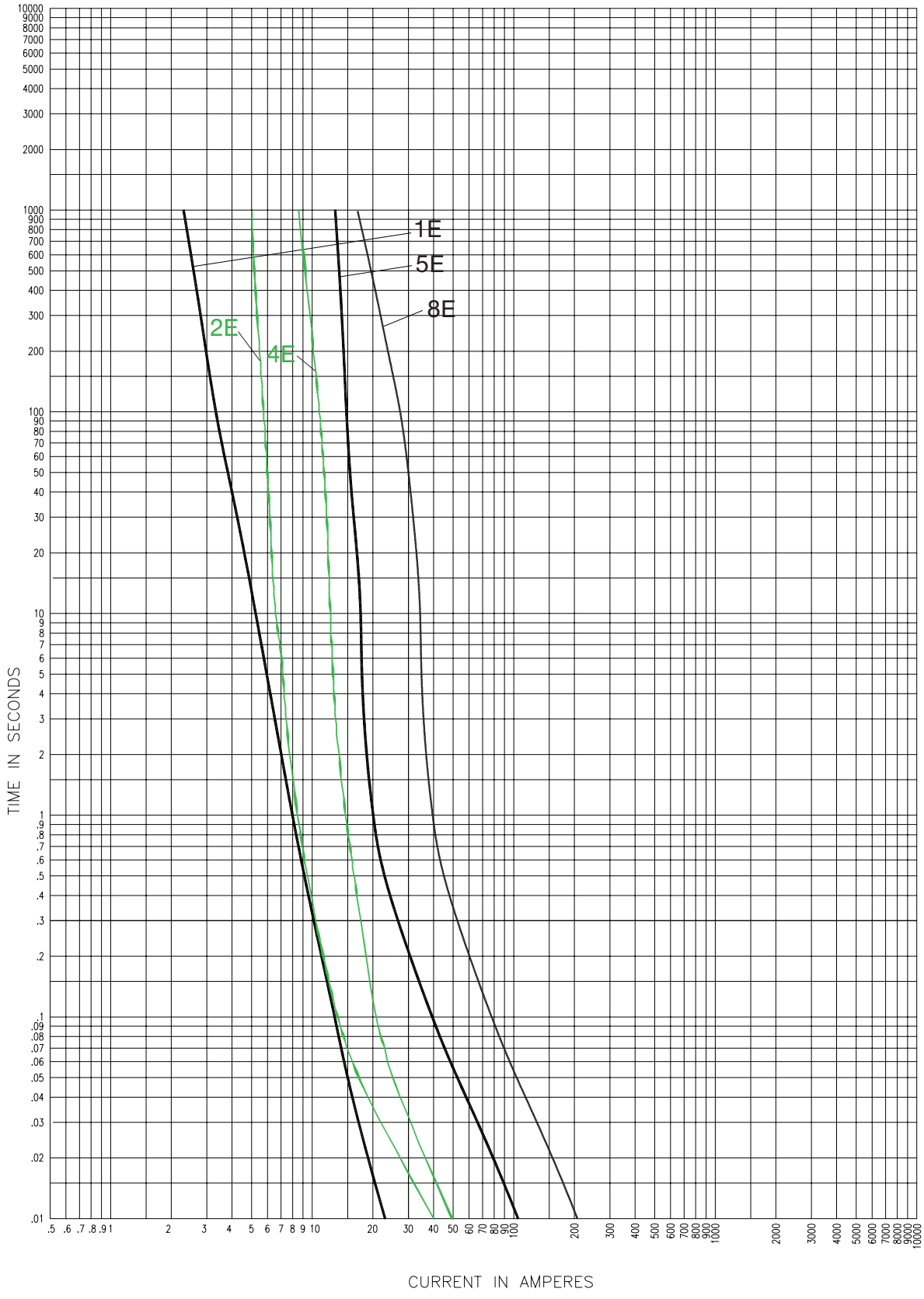


8NCLPT-_

Curve 59887102
July 2002
Reference # 628852, 598871

Curve TC56357206
December 2008

8.3kV time-current curves — total clearing for 8NCLPT_



8NCLPT-_

Curve 59887104
July 2002
Reference # 598871

Curve TC59883706
December 2008

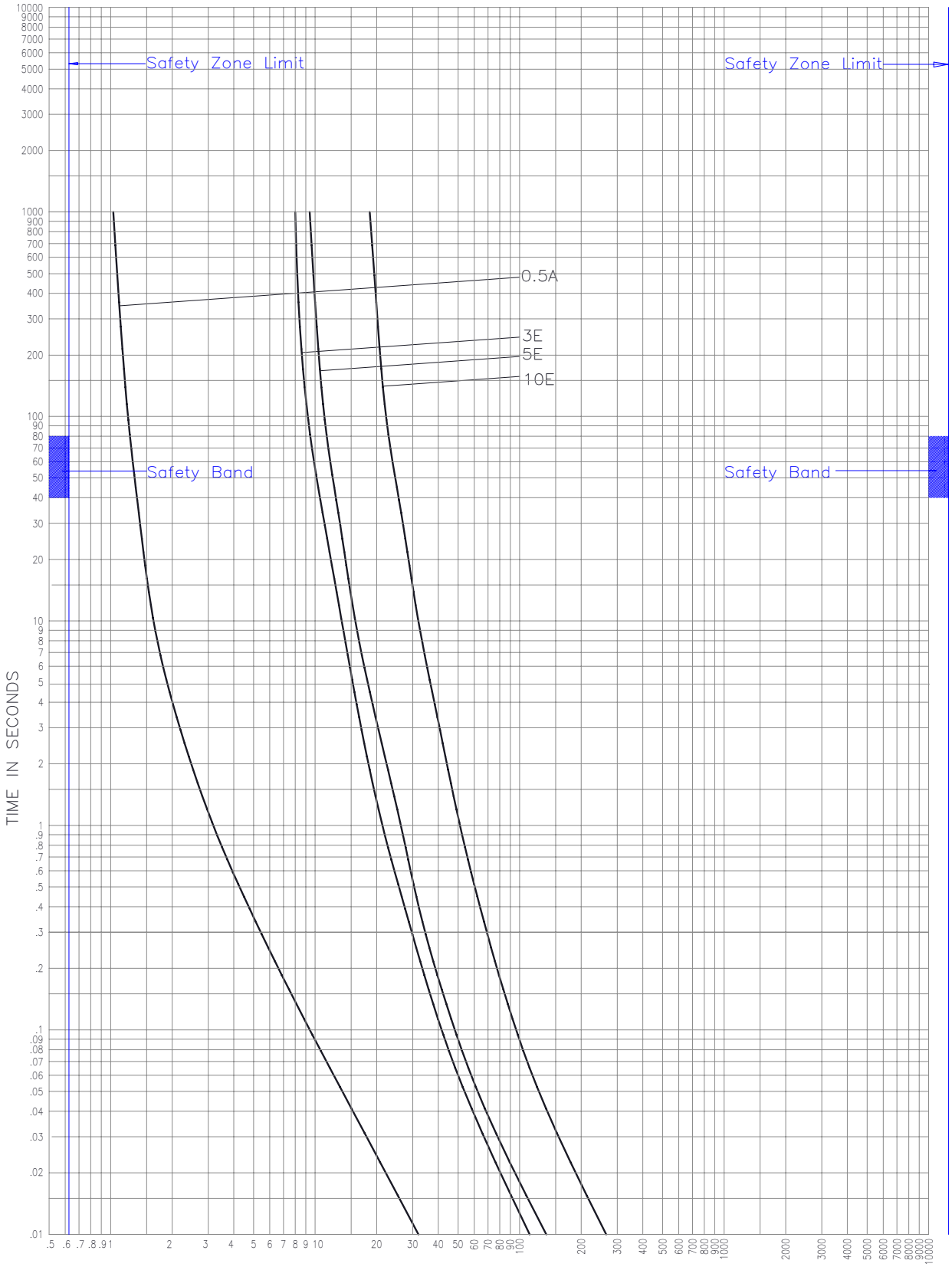
8.3kV peak let-through curves for 8NCLPT_

Curve 63933703
July 2001
Reference # 639337

Curve TC63933704
December 2008

8NCLPT-_

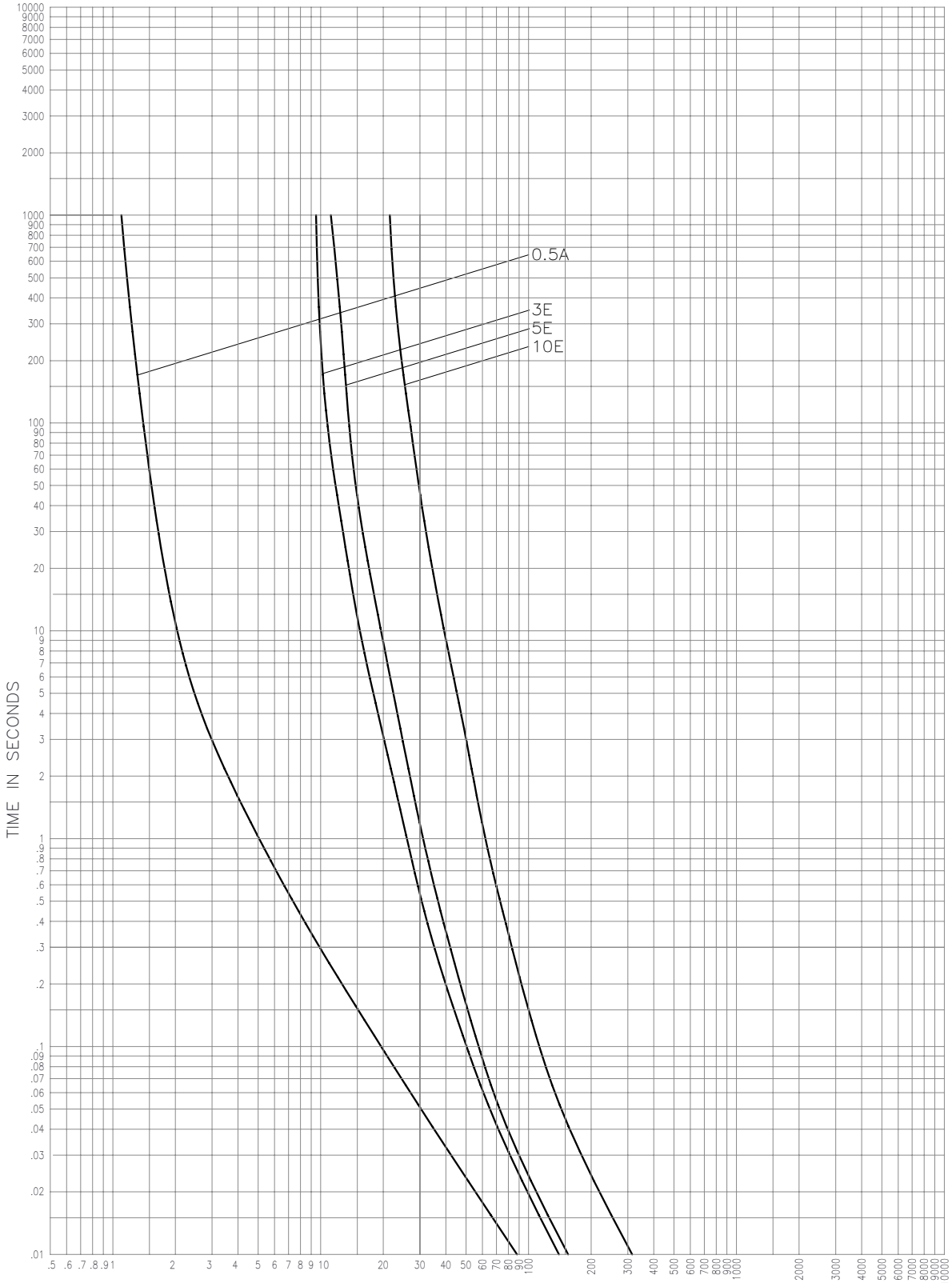
8.3kV time-current curves — minimum melting for 8CLPT_



Type CLPT General Purpose Current Limiting Fuses. (Indicating)
Minimum Melting Time—Current Characteristics — 8.3 kV

CURVE 56353206
January 2024

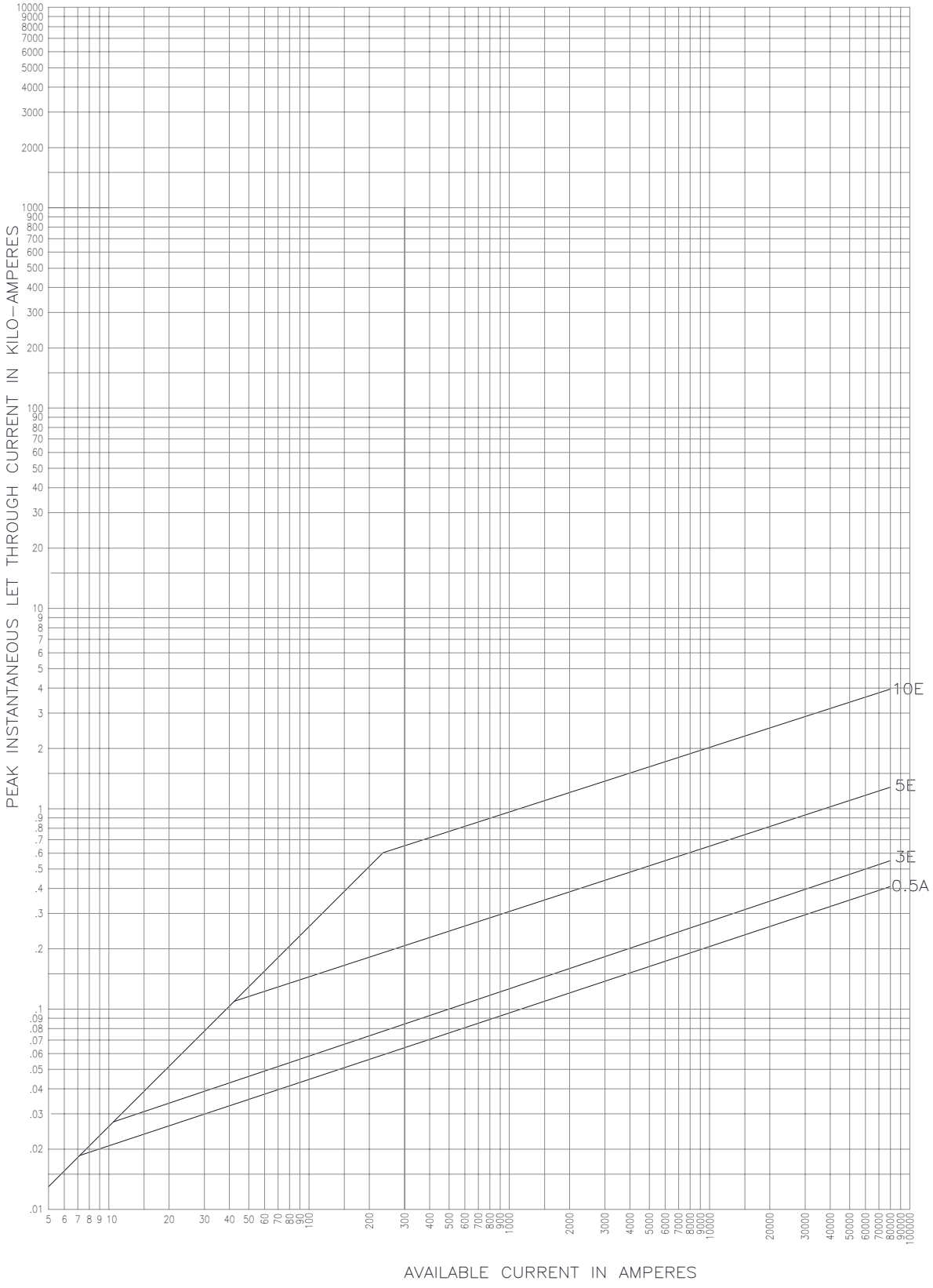
8.3kV time-current curves — total clearing for 8CLPT_



Type CLPT General Purpose Current Limiting Fuses. (Indicating)
Total Clearing Time–Current Characteristics – 8.3 kV

CURVE 56353306
January 2024

8.3kV peak let-through curves for 8CLPT_

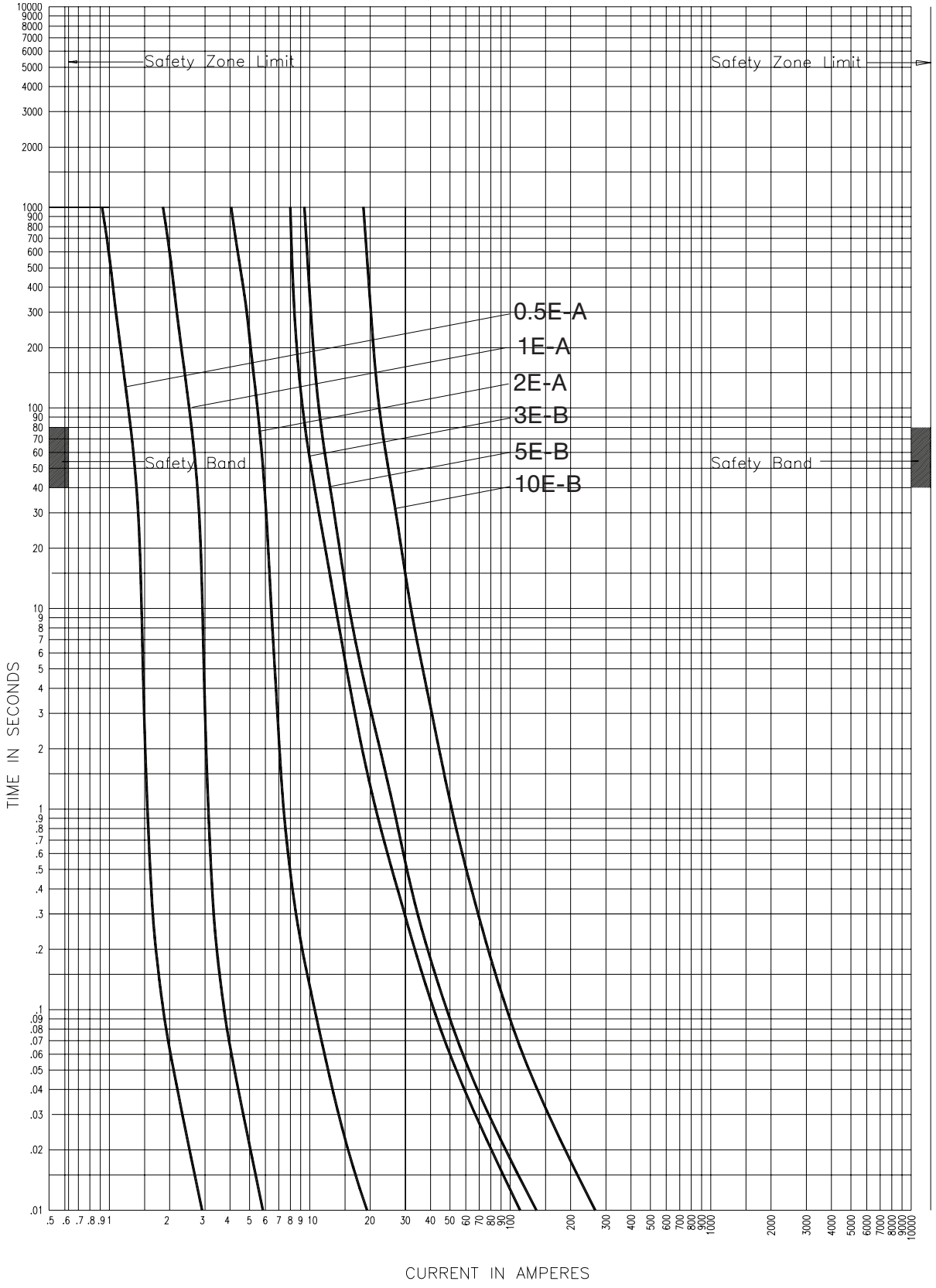


Type CLPT and JCI Current Limiting Potential Transformer
Fuses Peak Let Through Current Characteristics 8.3 kV

Curves are plotted to maximum test points so all variations should be negative.

CURVE TC63934001
February 2024

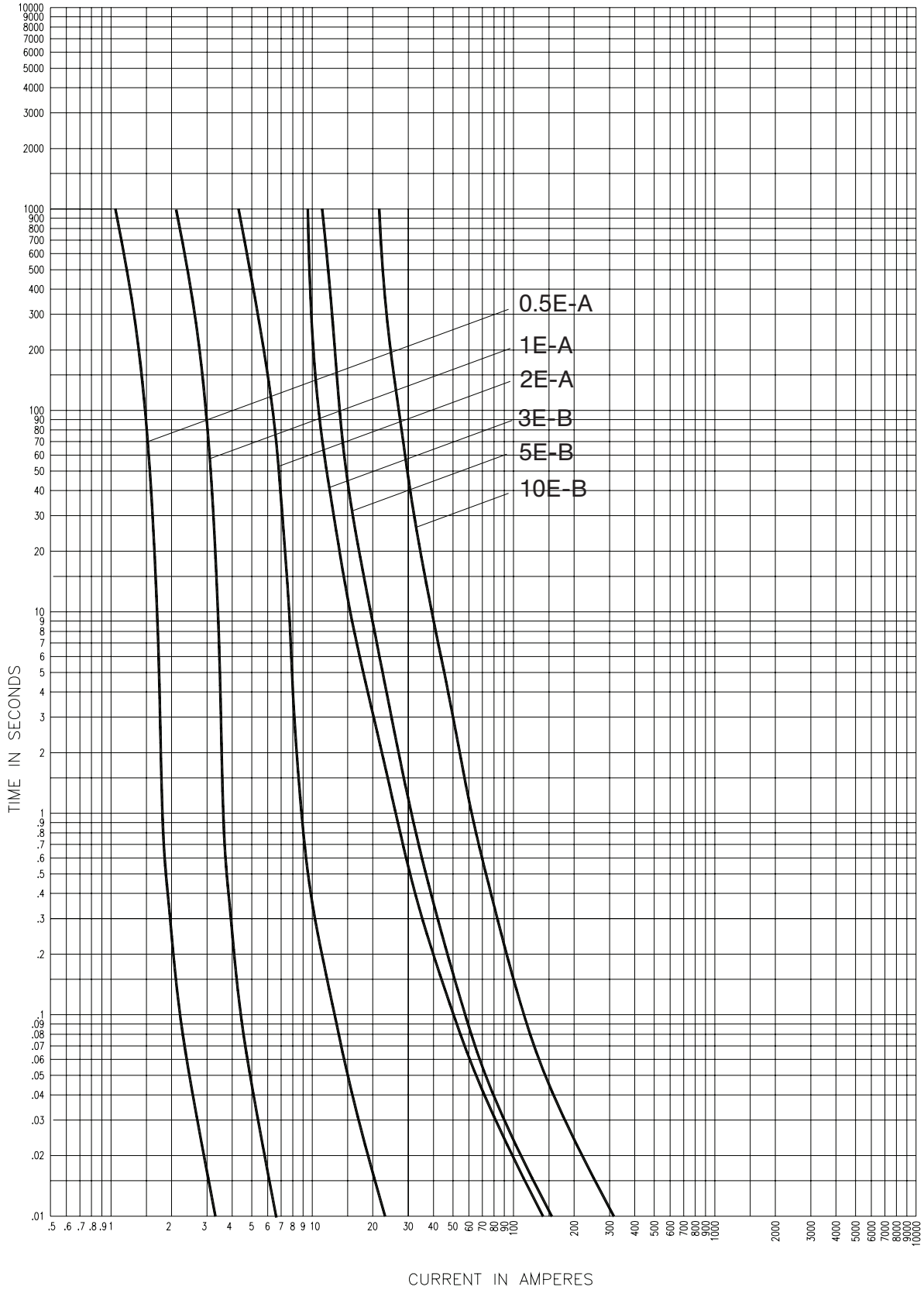
8.3kV time-current curves — minimum melting for 8NCLPT-_E-A/B



8NCLPT-_E-A/B

Curve TC70548303
December 2008

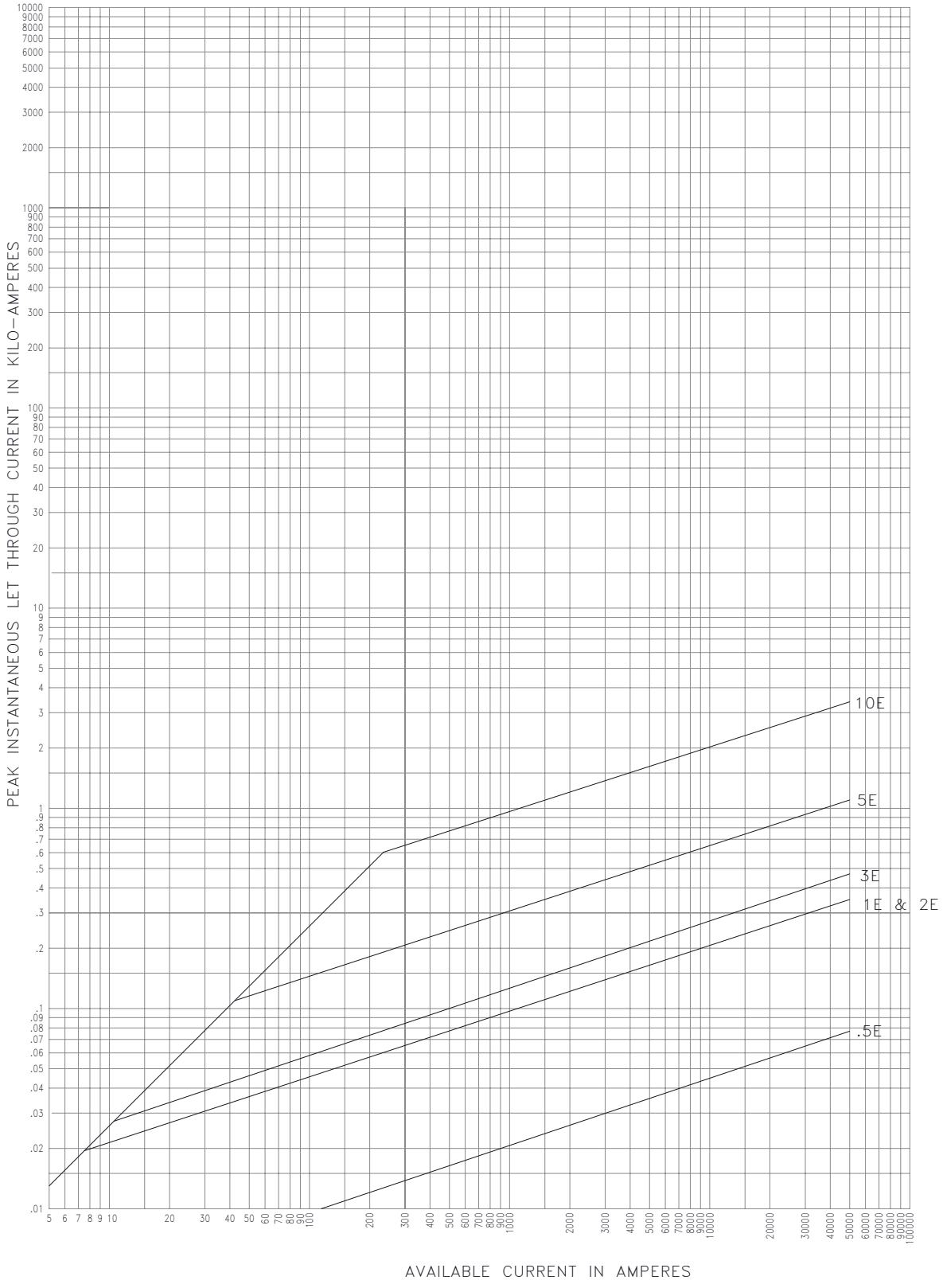
8.3kV time-current curves — total clearing for 8NCLPT-_E--A/B



8NCLPT-_E-A/B

Curve TC70548403
December 2008

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



Type NCLPT Current Limiting Potential Transformer Fuses.
Peak let Through Current Characteristics

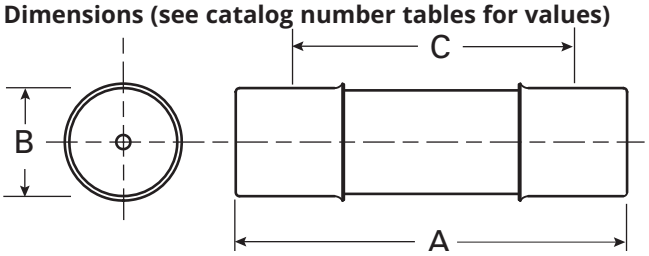
CURVE TC63934002
March 2024

Curves are plotted to maximum test points so all variations should be negative.

12kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
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

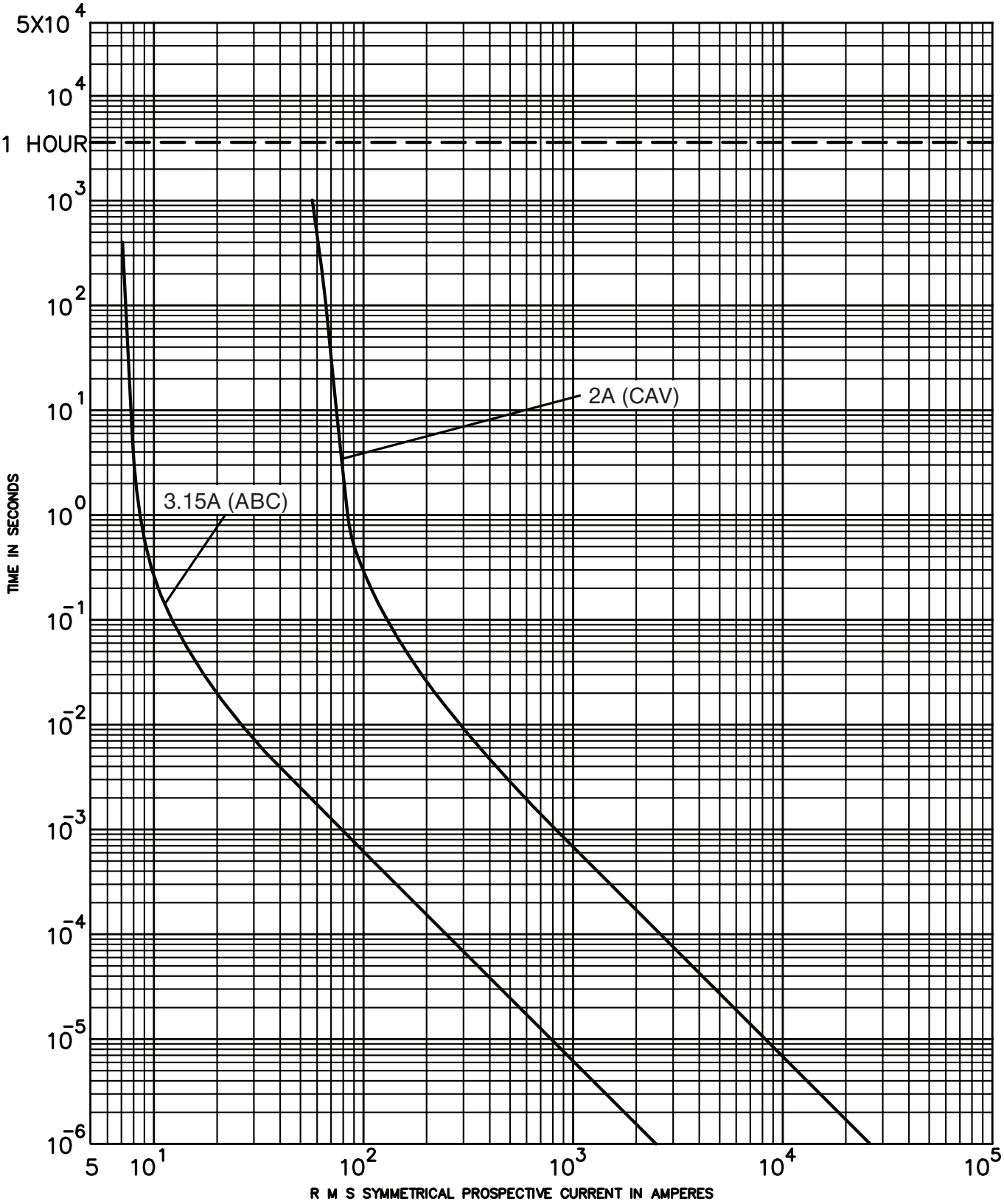
Dimensions (see catalog number tables for values)



Recommended fuseclips:

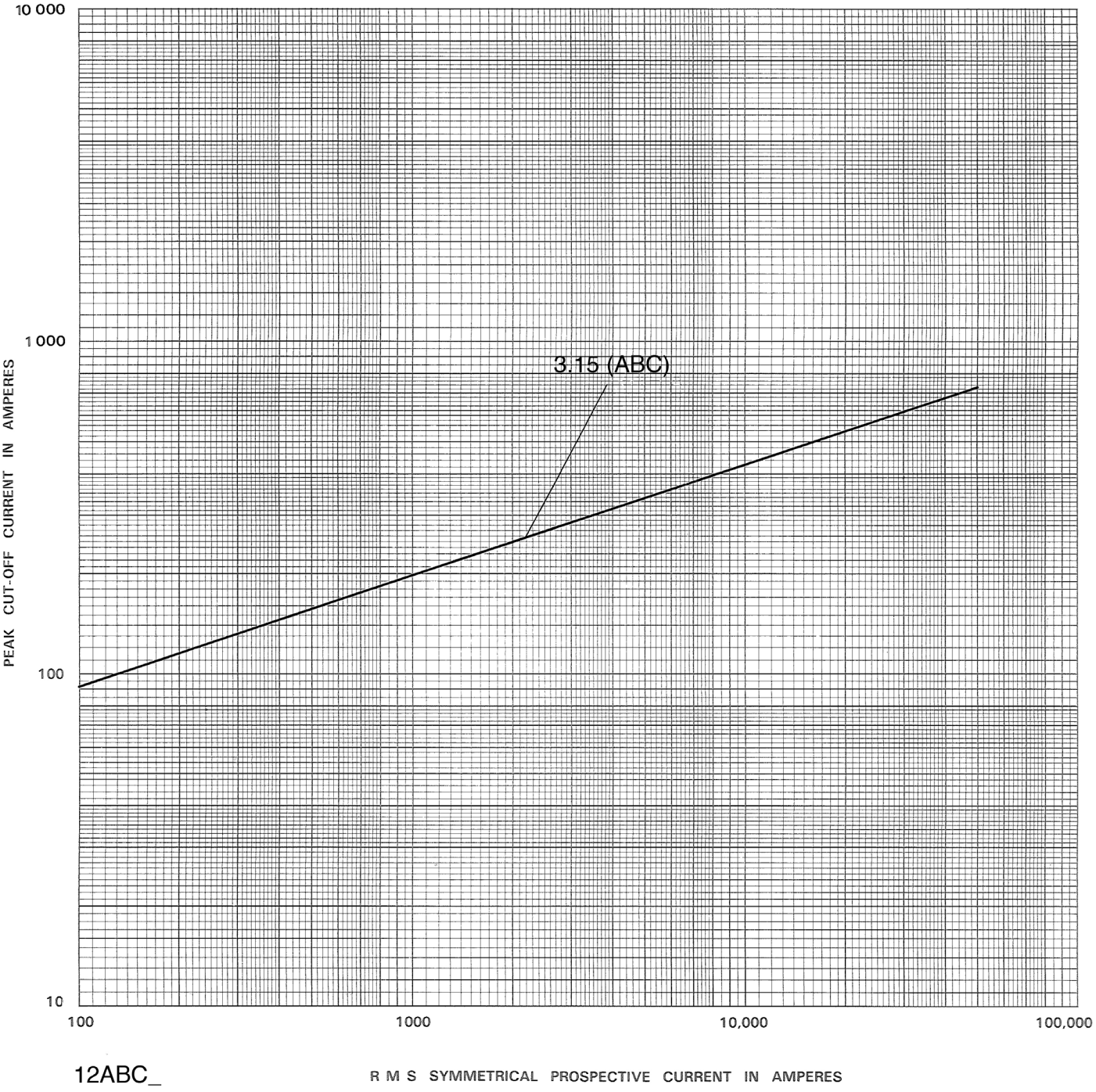
Description	Cat. No.
Open fuseclip for 1.0 (25.4mm) dia. fuses	A3354705
Open fuseclip for 1.56 (39.7mm) / 1.6 (40.6mm) dia. fuses	1A0835

12kV time-current curves — minimum melting for 12ABC_ and 12CAV_



12ABC_, 12CAV_

12kV peak let-through curves for 12ABC_



12ABC_

15.5kV maximum system voltage

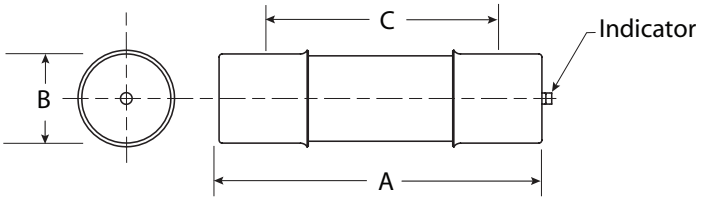
Dimensions - in (mm)				Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
0.5	12.9 (328)	1.6 (41)	11.5 (292)	15.5CAVH0.5E (80)	15NCLPT-.5E-A (50)	
0.5	12.9 (328)	1.6 (41)	11.5 (292)	15CLPT-.5 (80)		
1	12.9 (328)	1.6 (41)	11.5 (292)	15.5CAVH1E (80)	15NCLPT-1E-A (50)	
1	12.9 (328)	1.6 (41)	11.5 (292)	15CLPT-1 (80)		
1.5	12.9 (328)	1.6 (41)	11.5 (292)	15CLPT-1.5 (80)		
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)	1A0835
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 15.5kV maximum (14.4kV nominal)

			Catalog number			
			Mounting (Including live parts, end fittings)**		Live parts (including end fittings)**	End fittings (disconnect only)
Amp rating	Fuse mounting type*	BIL (kV)	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.

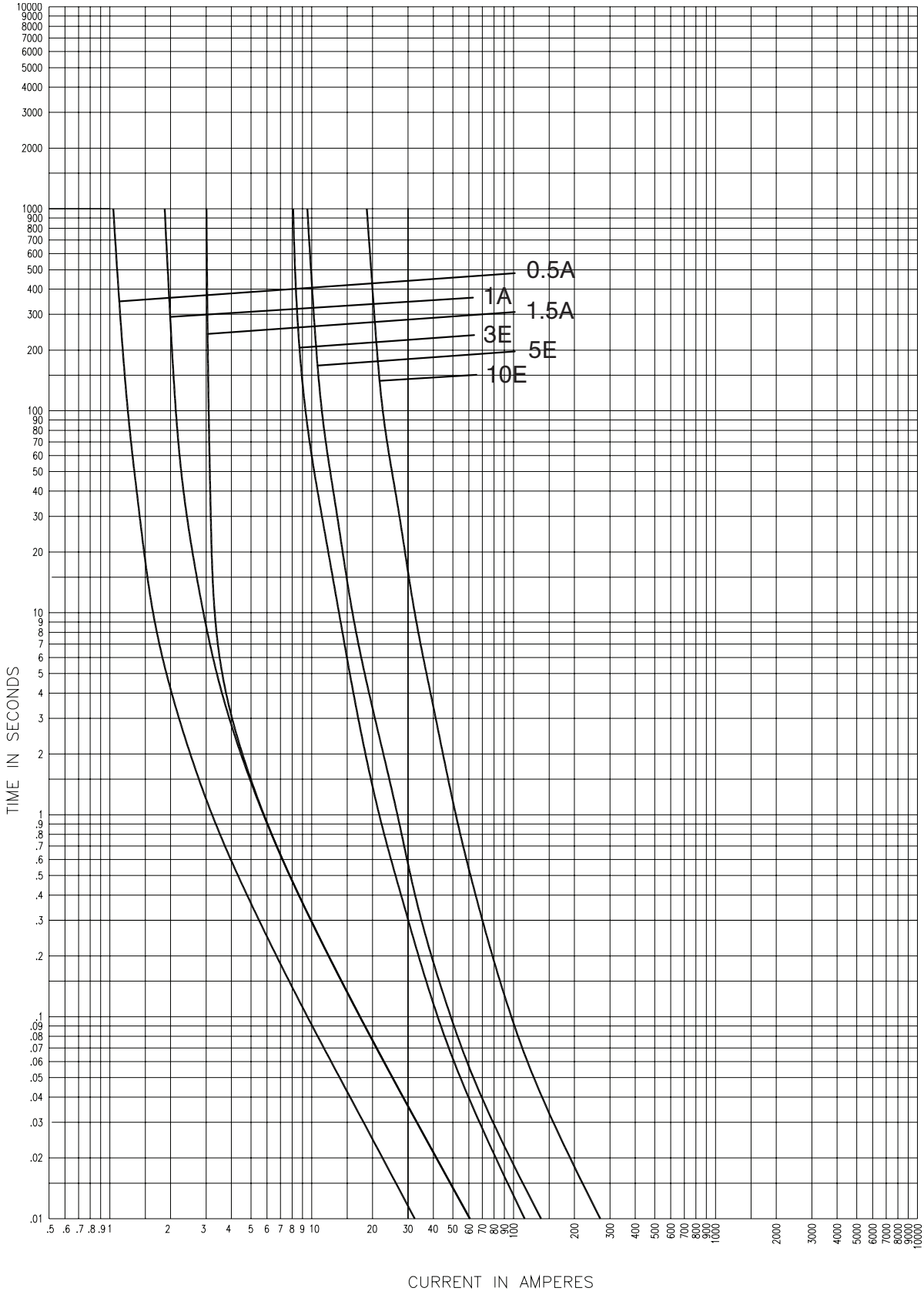
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

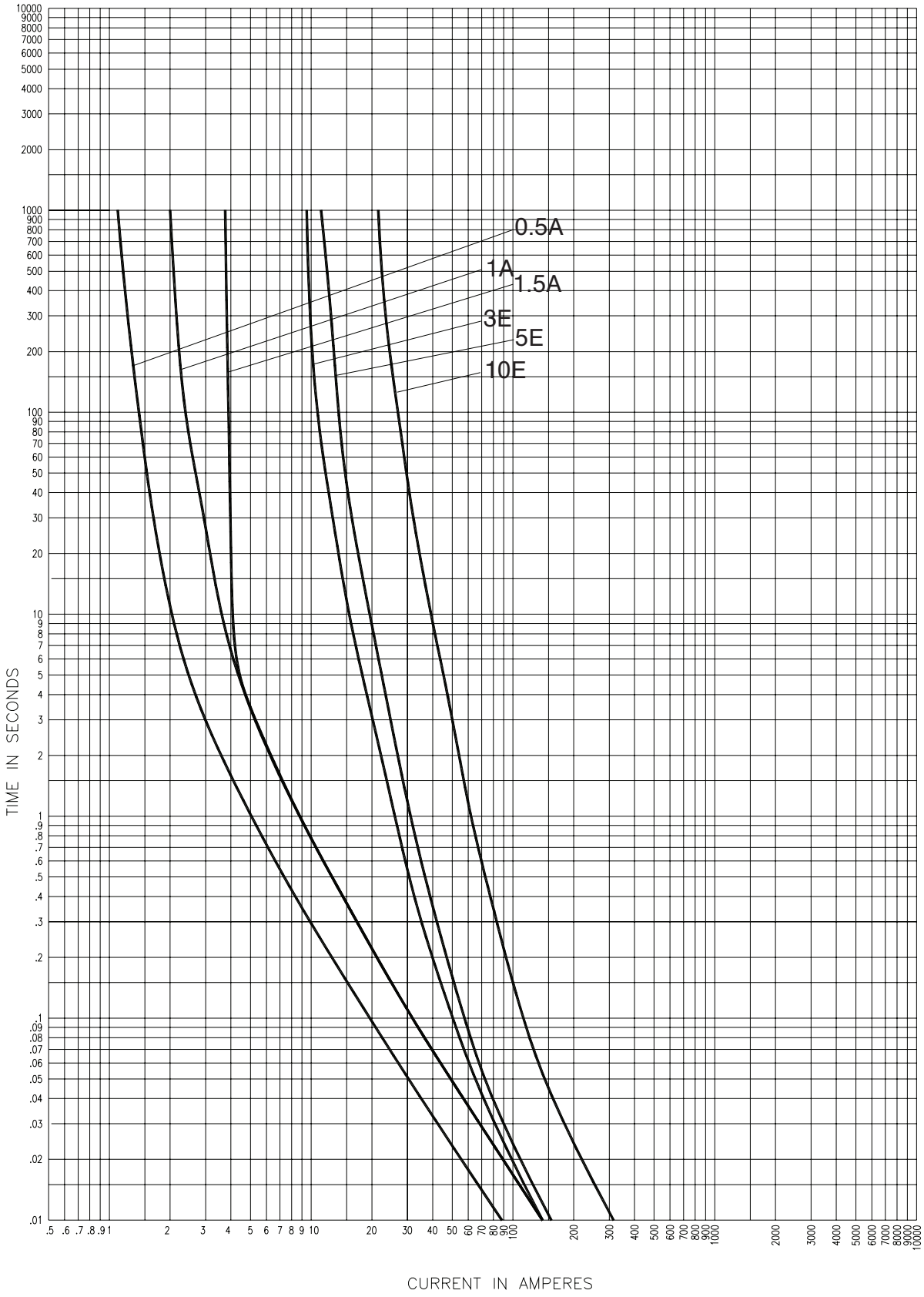
15.5kV time-current curves — minimum melting for 15CLPT_



15CLPT-_

Curve TC56353206
August 2011

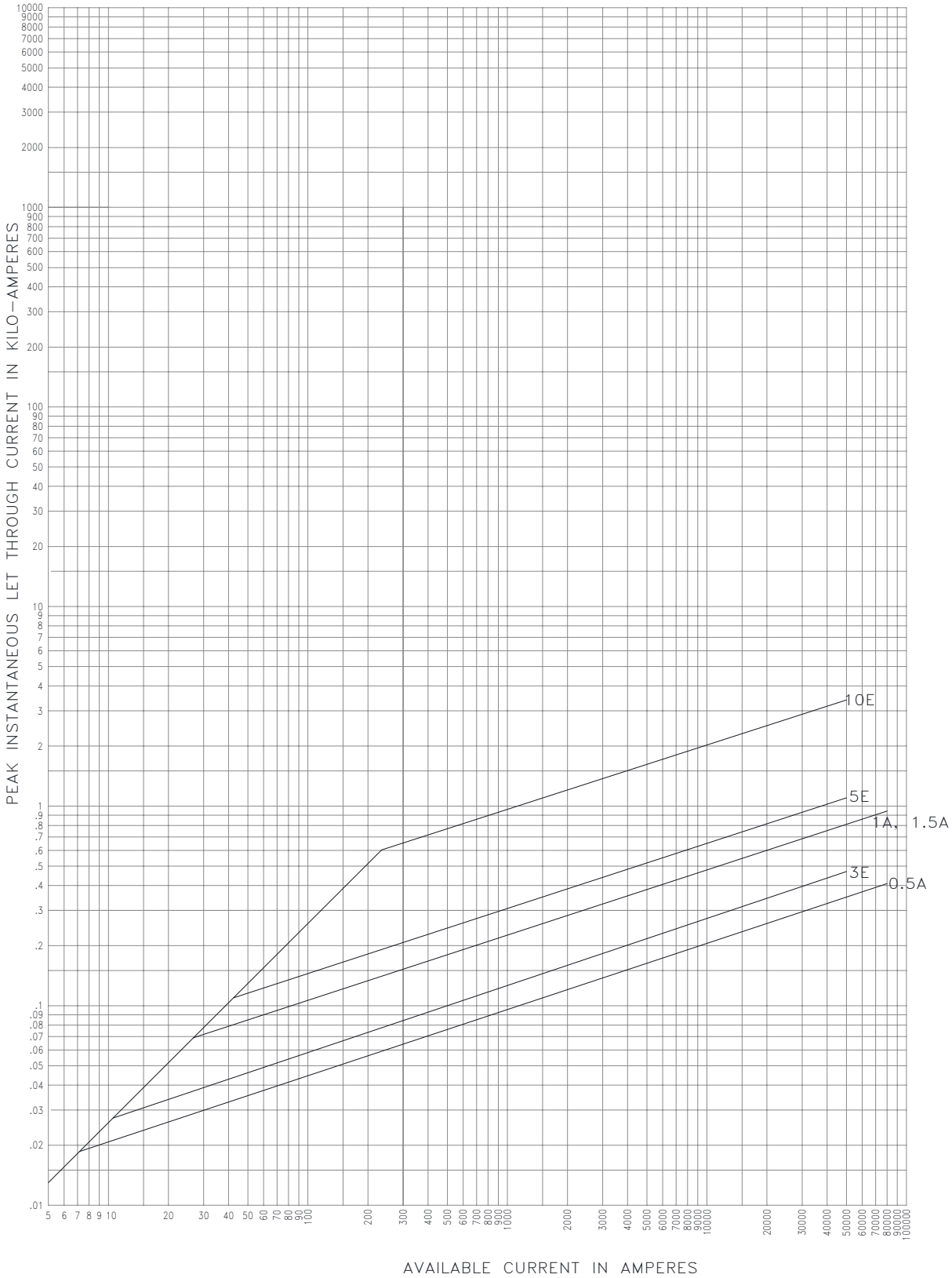
15.5kV time-current curves — total clearing for 15CLPT_



15CLPT-_E

CURVE 56353306
July 2002
Reference # 563533

15.5kV peak let-through curves for 15CLPT_

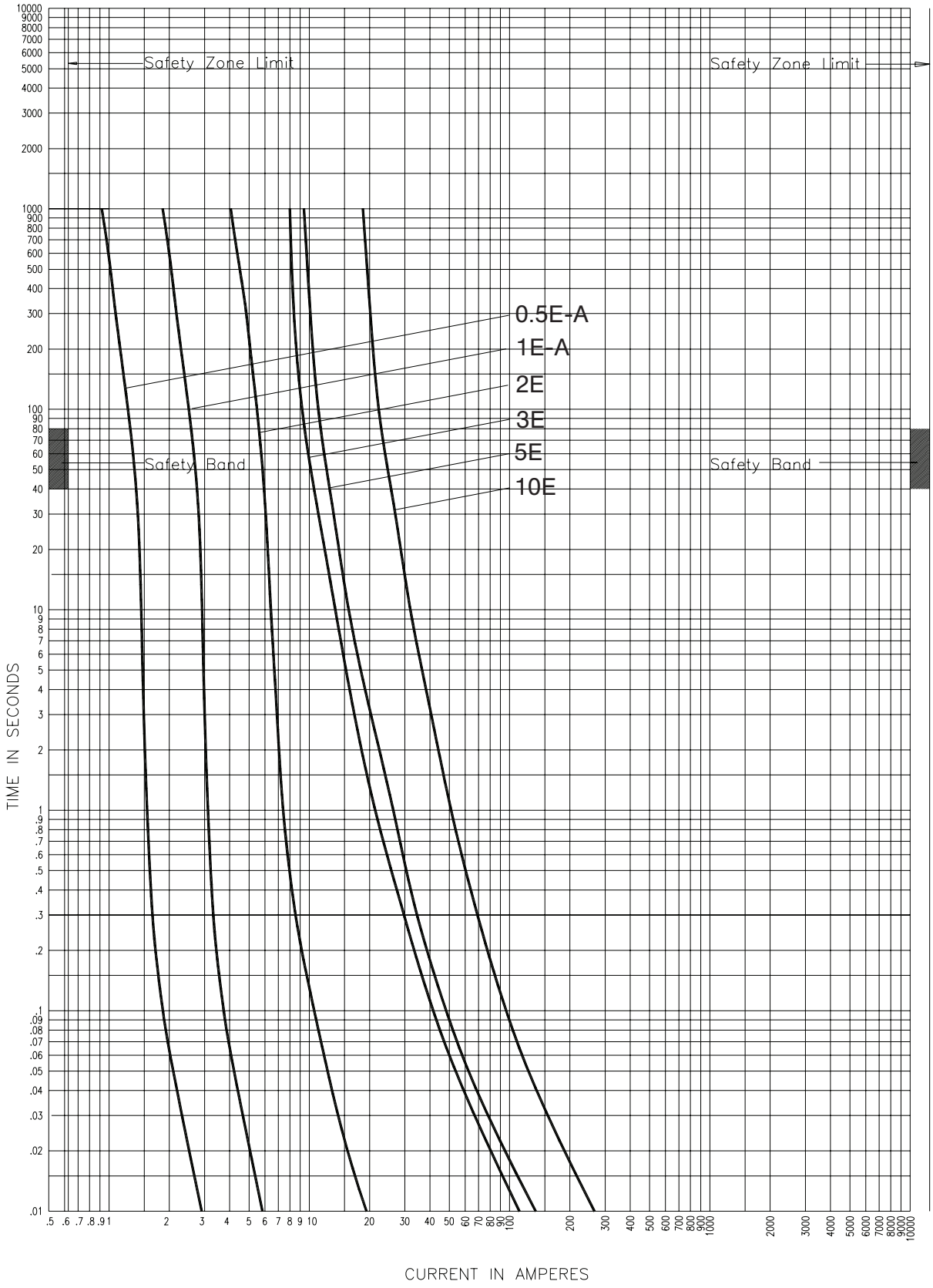


Type CLPT and JCQ Current Limiting Potential Transformer Fuses Peak Let Through Current Characteristics 5.5kV

Curves are plotted to maximum test points so all variations should be negative.

CURVE TC63934001
January 2024

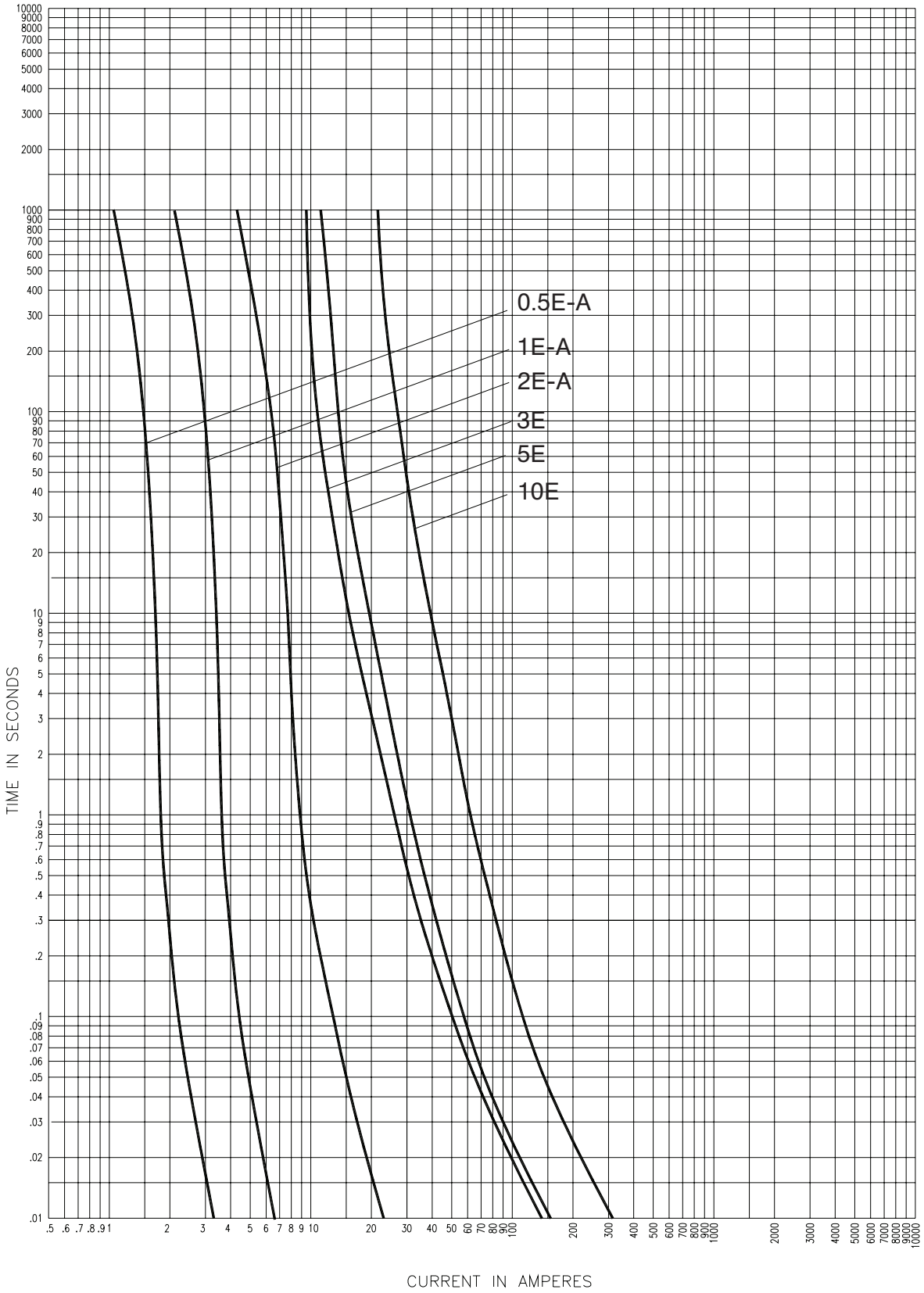
15.5kV time-current curves — minimum melting for 15NCLPT_



15NCLPT-_

Curve TC70548303
December 2008

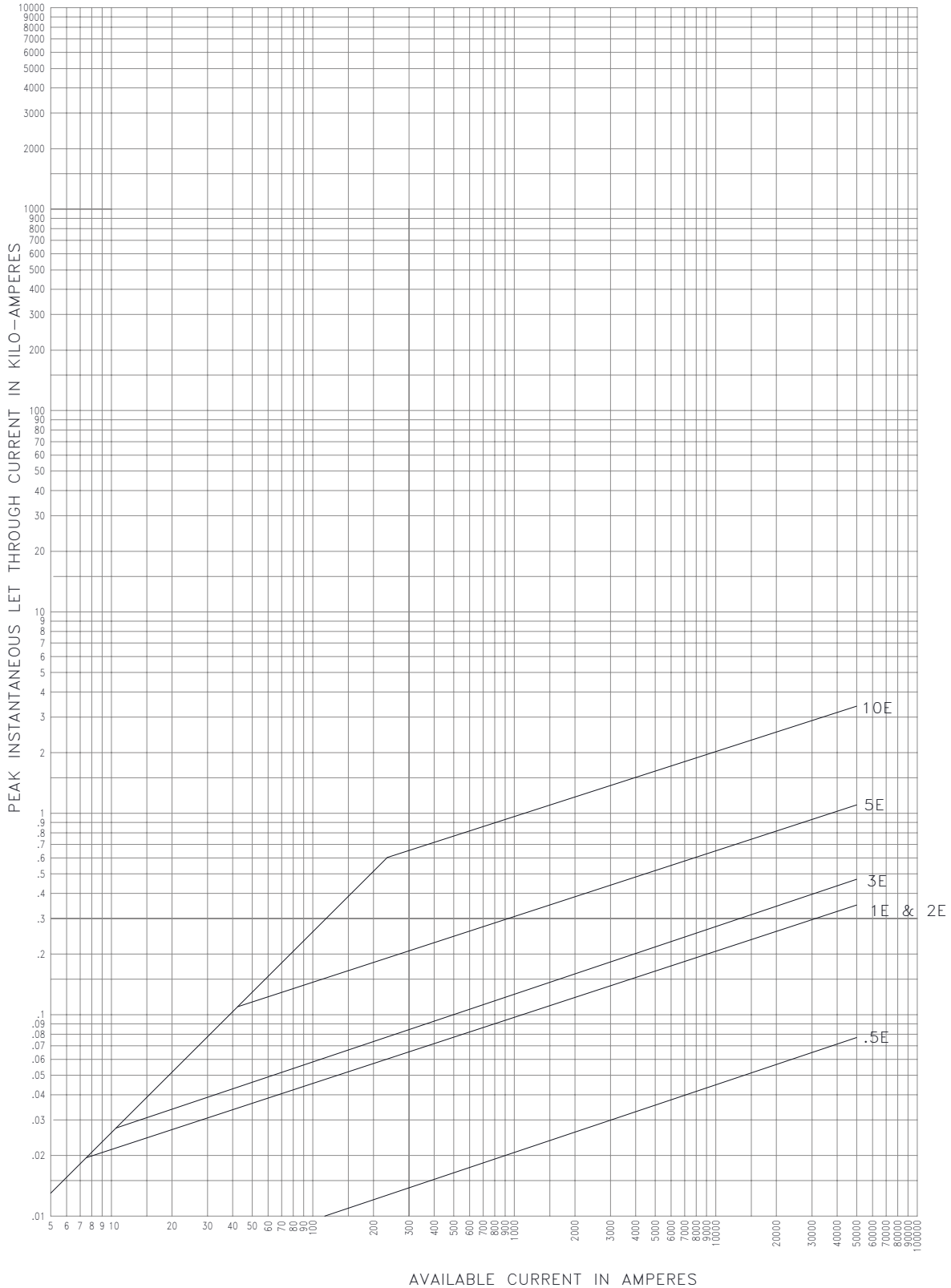
15.5kV Time-current curves — total clearing for 15NCLPT_



15NCLPT-_

Curve TC70548403
December 2008

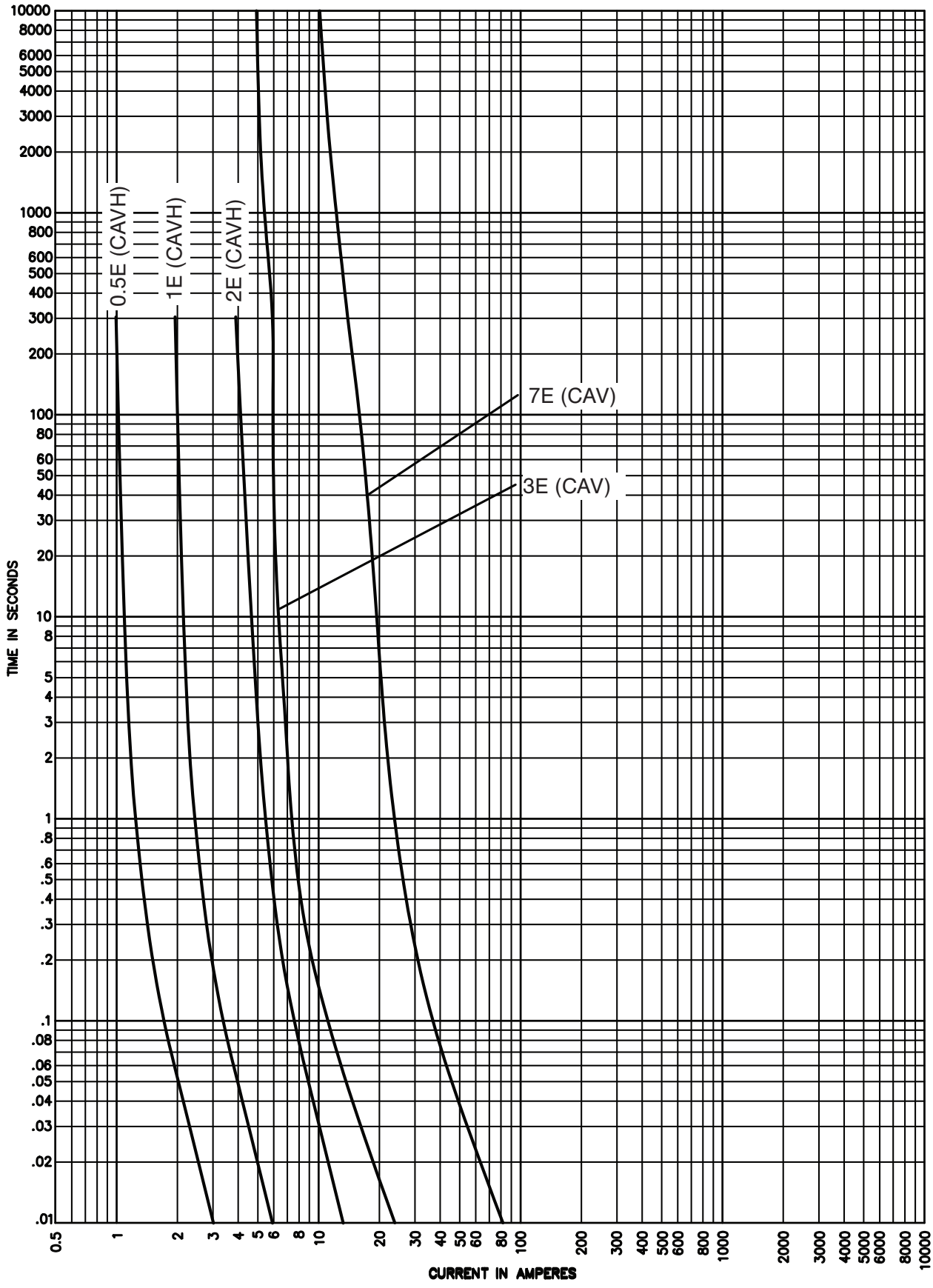
15.5kV Peak let-through curves for 15NCLPT_



Type NCLPT Current Limiting Potential Transformer Fuses.
Peak let Through Current Characteristics
Curves are plotted to maximum test points so all variations should be negative.

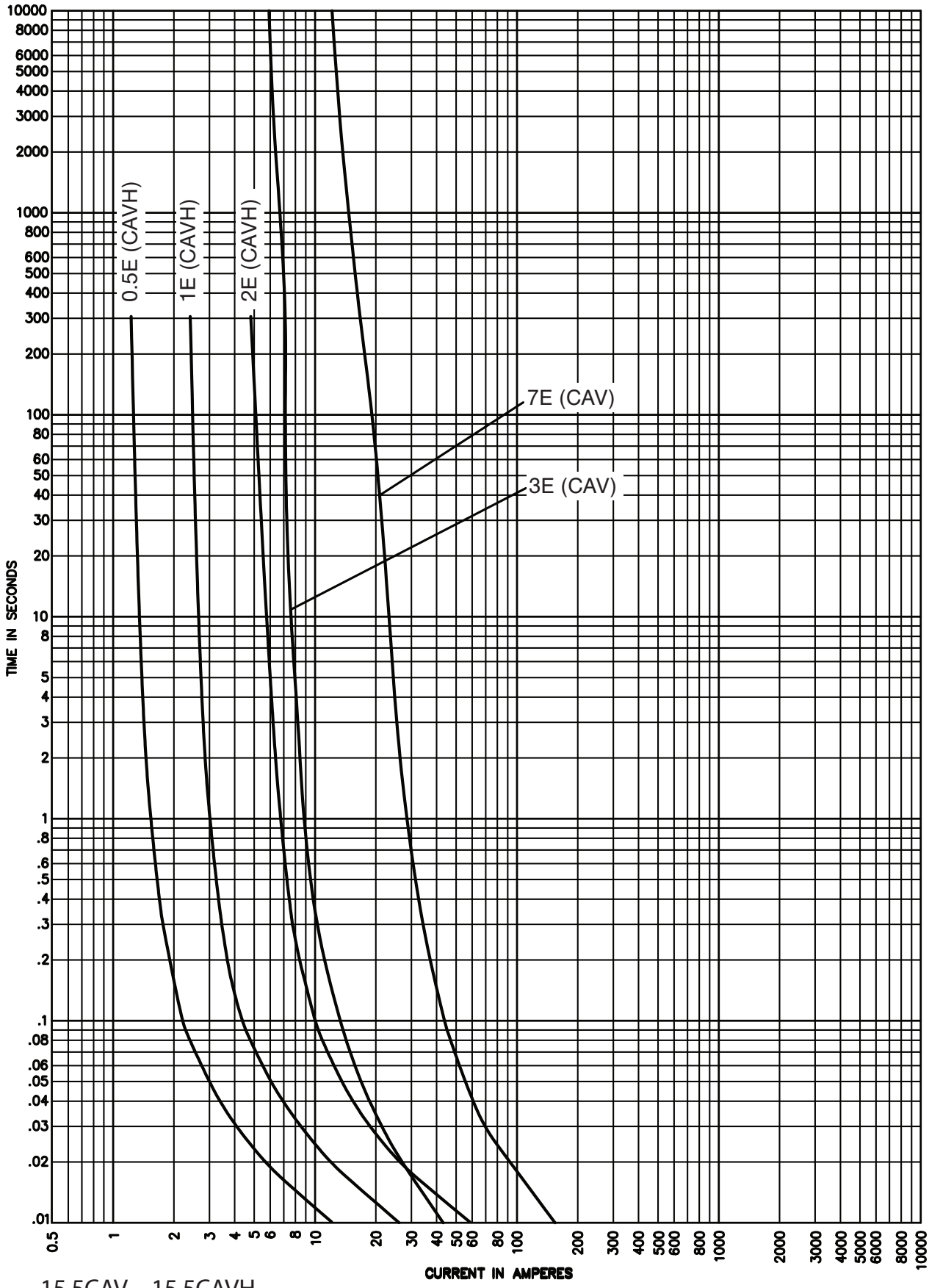
CURVE TC63934002
March 2024

15.5kV time-current curves — minimum melting for 15.5CAV_ and 15.5CAVH_



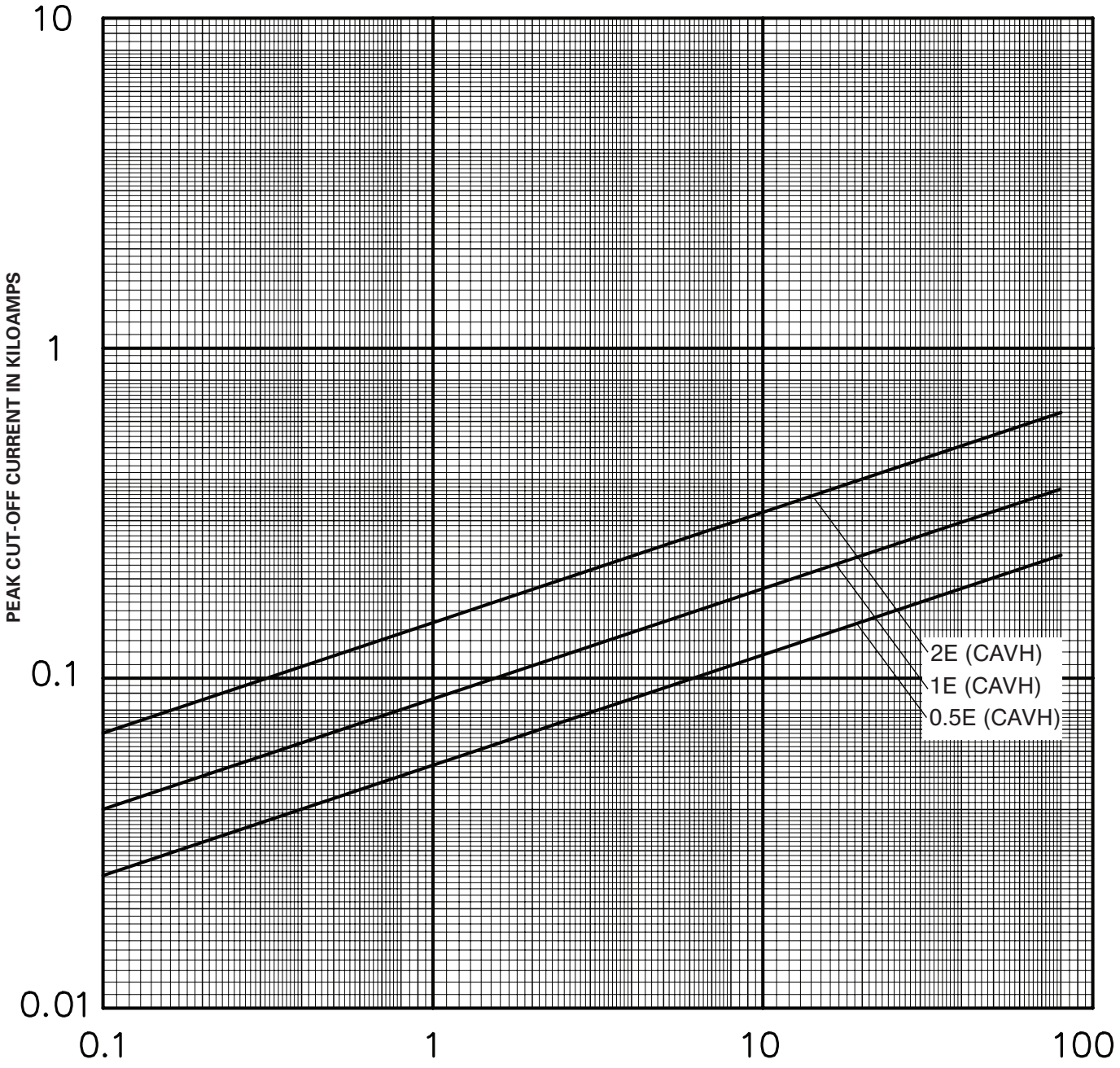
15.5CAV_, 15.5CAVH_

15.5kV time-current curves — total clearing for 15.5CAVH_



15.5CAV_, 15.5CAVH_

15.5kV peak let-through curves for 15.5CAVH_

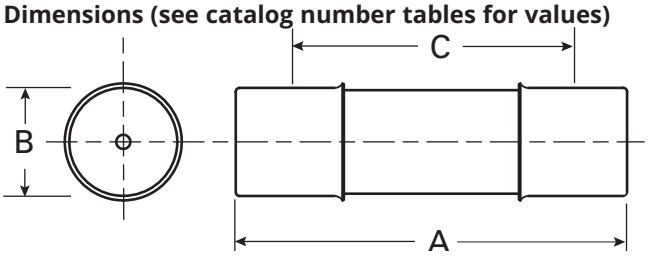


15.5CAVH_

17.5kV maximum system voltage

	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		
Amp rating	Length A	Diameter B	Clip centers C	Indicating	Non-indicating	Recommended fuseclip
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)	

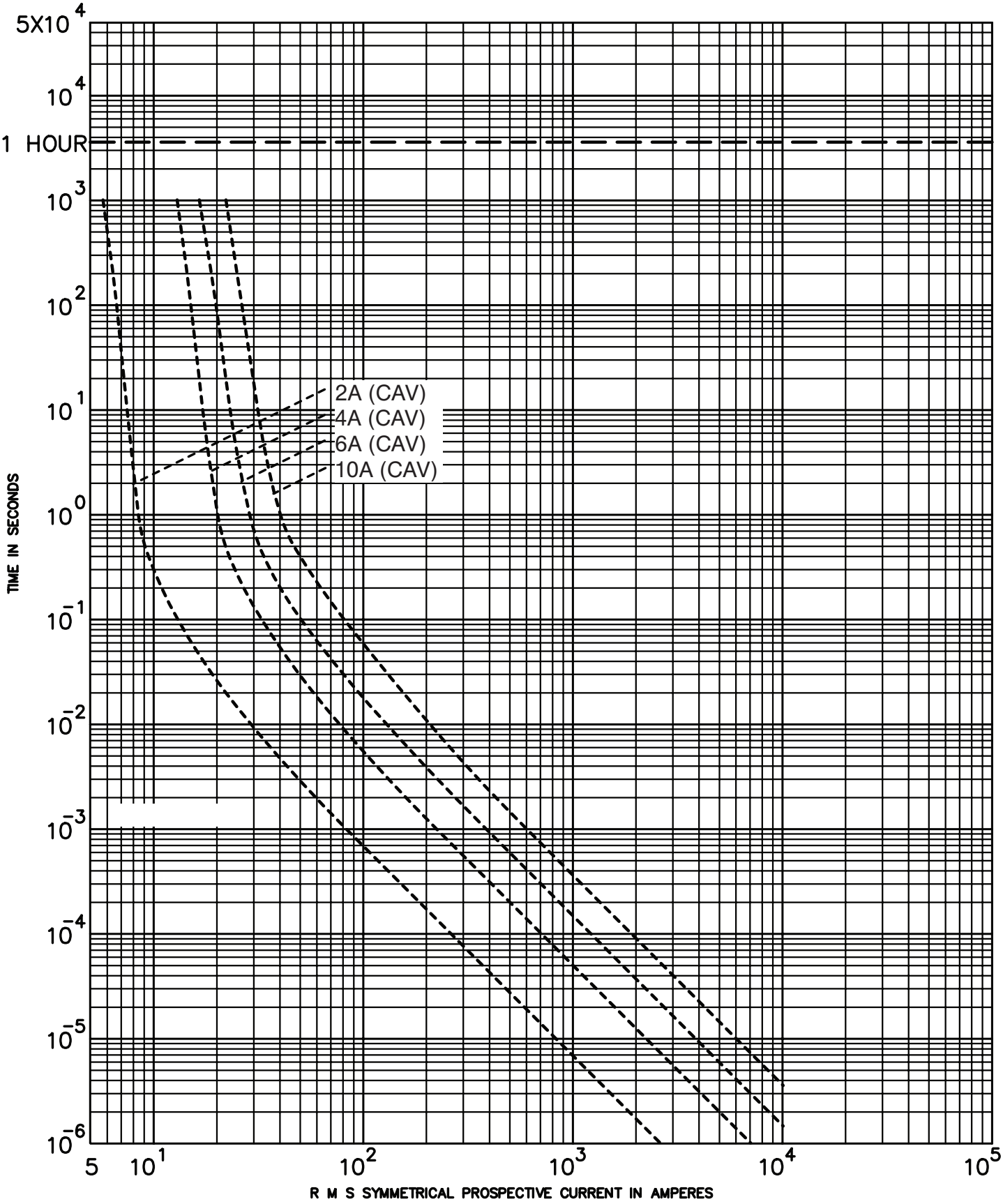
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

17.5kV time-current curves — minimum melting for 17.5CAV_

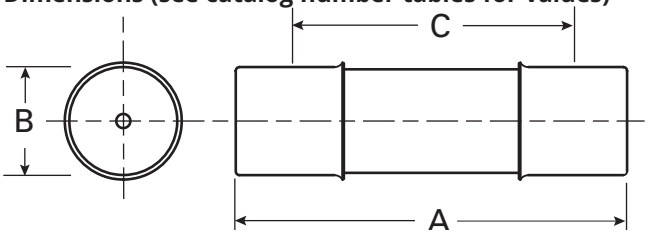


7.5CAV_

24kV maximum system voltage

Amp rating	Dimensions - in (mm)			Catalog No. (Interrupting rating - kA)		Recommended fuse-clip
	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)	

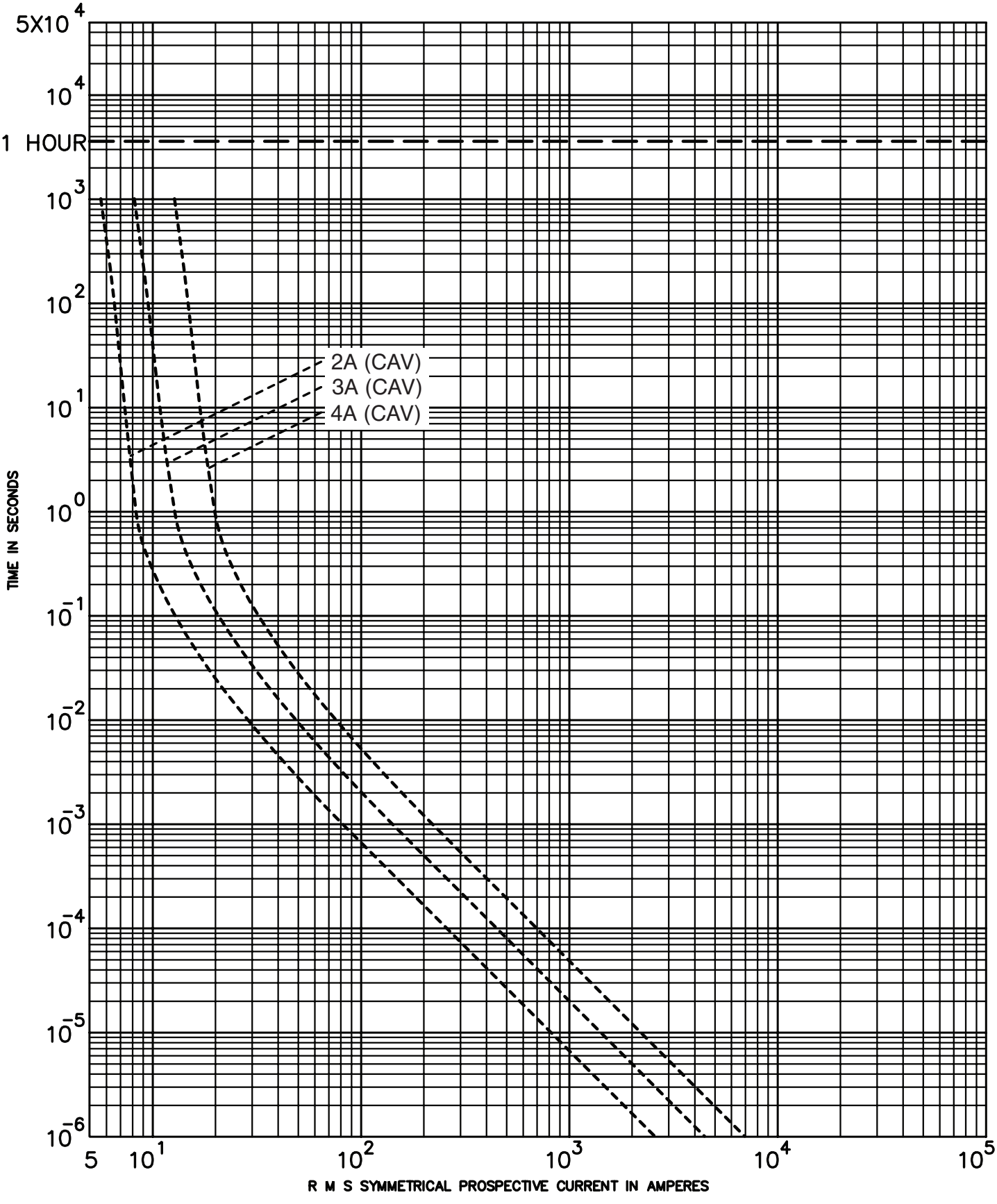
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

24kV time-current curves — minimum melting for 24CAV_



24CAV_

25.5kV 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)†	—	1A0835
1	17.6 (447)	1.6 (41)	16.1 (410)	25CLPT-1 (43.5)†	—	

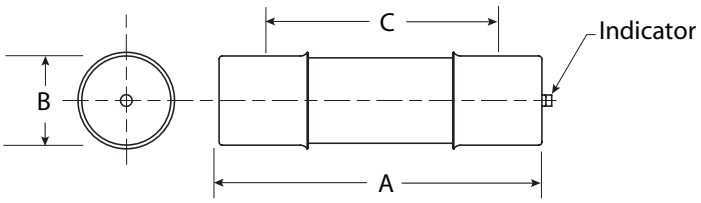
† Does not comply with ANSI C37.46 for "E" rating.

CLPT Type Mountings and Hardware 25.5kV Maximum (23kV 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.
† Disconnect mountings provide a means for fuse extraction only. Do not use a disconnect mounting for load switching or fuse removal while energized.

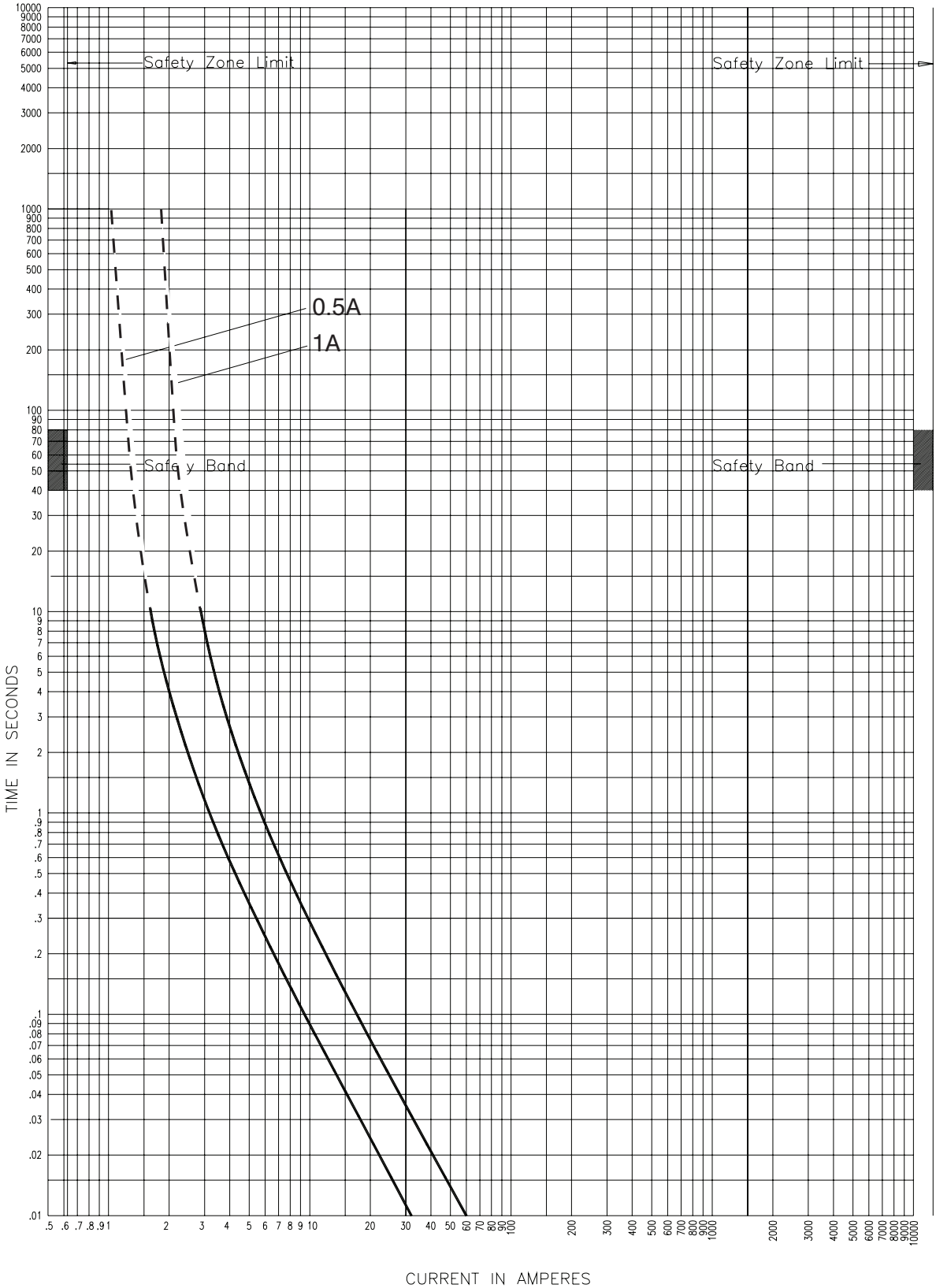
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

25.5kV time-current curves — minimum melting for 25CLPT_

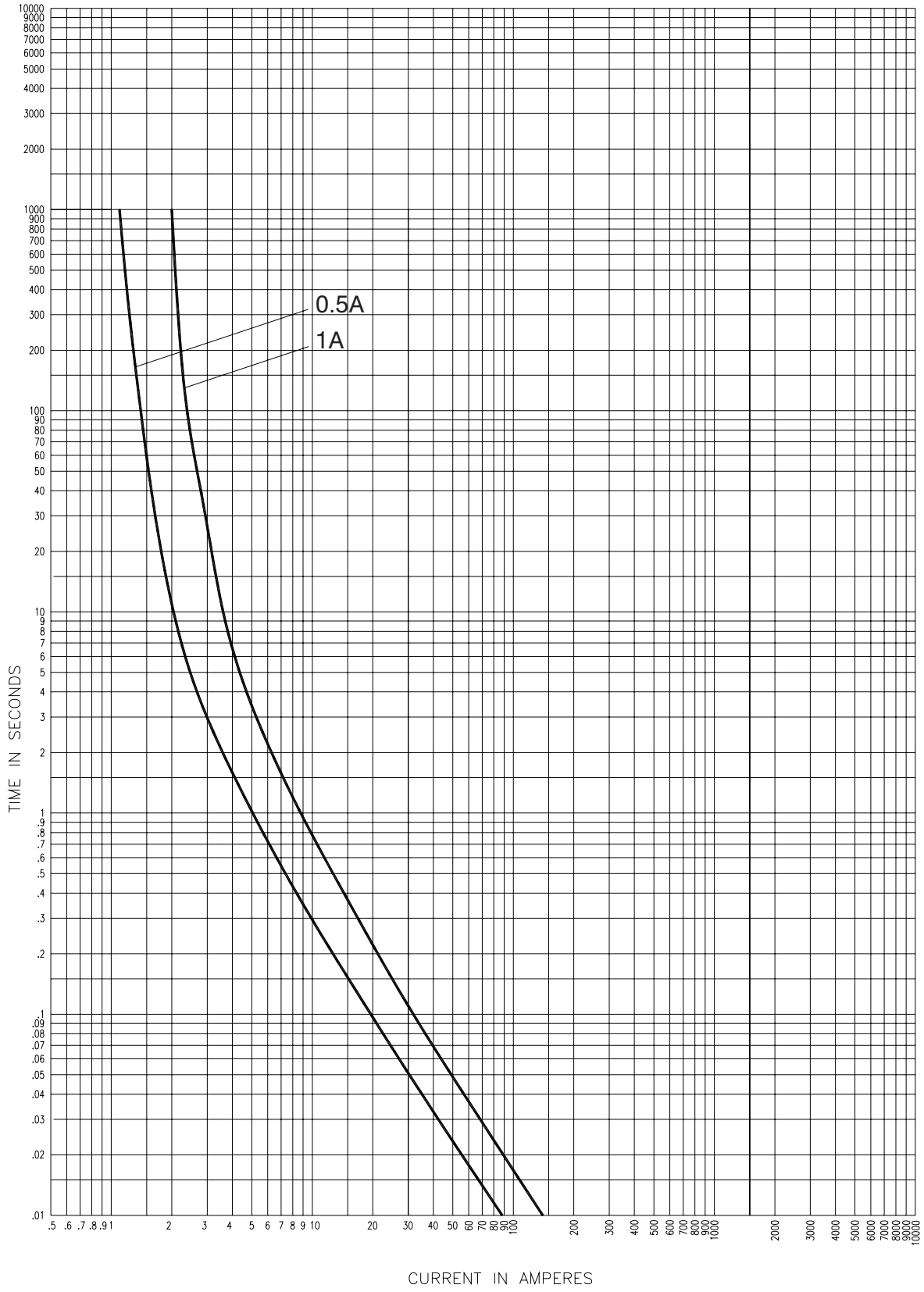


0.5, and 1 A fuse melt times in the dotted line region may not be assured due to manufacturing variations. The dotted lines show nominal operation. Some individual fuses may not open until current at 10-second mark is applied.

25CLPT-_

Curve TC56353208
December 2008

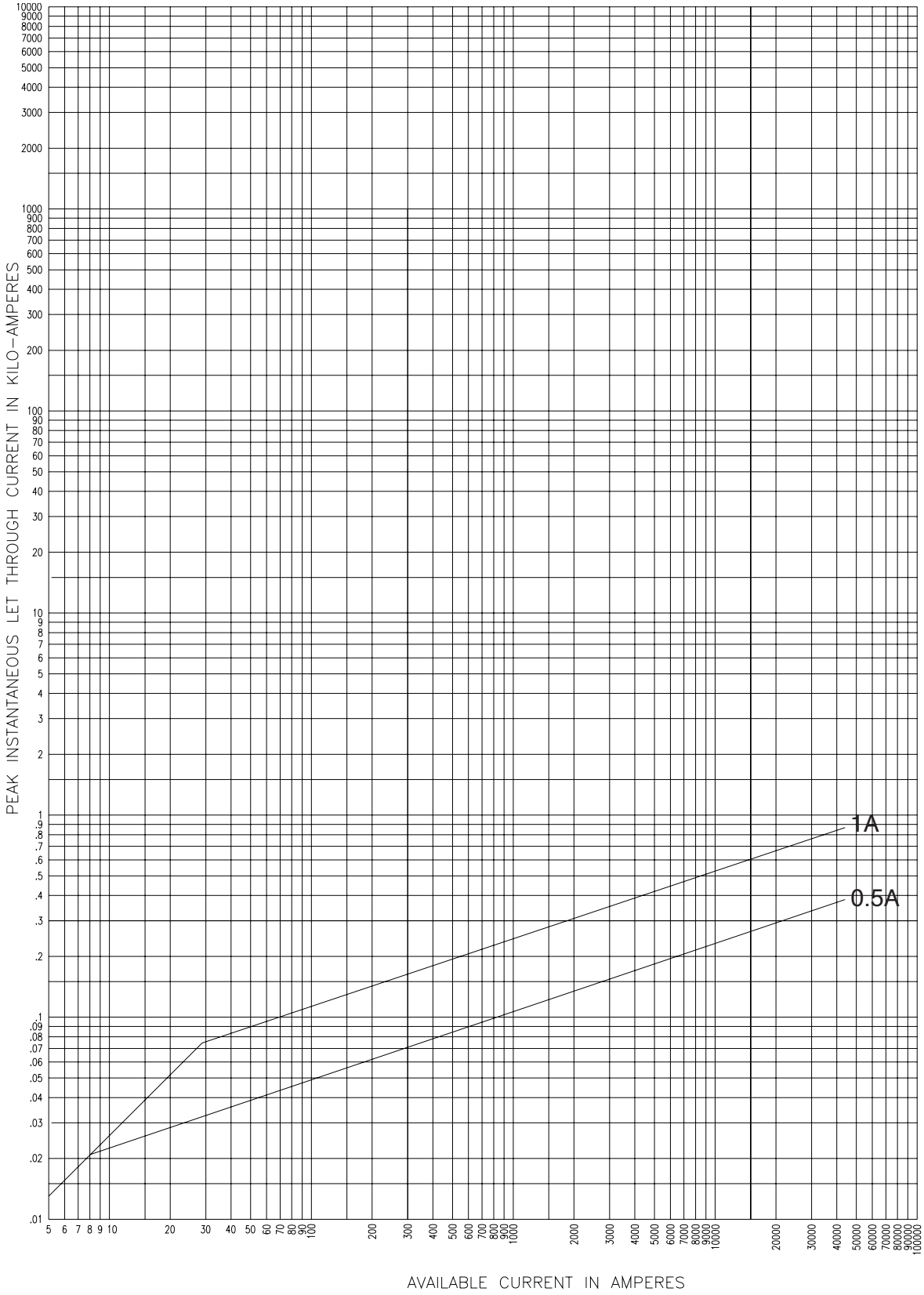
25.5kV time-current curves — total clearing for 25CLPT_



25CLPT-_

Curve TC56353308
December 2008

25.5kV Peak let-through curves for 25CLPT_



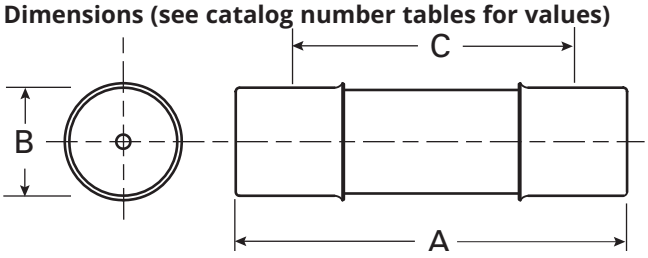
25CLPT-_

Curve TC63933901
December 2008

36kV 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)	

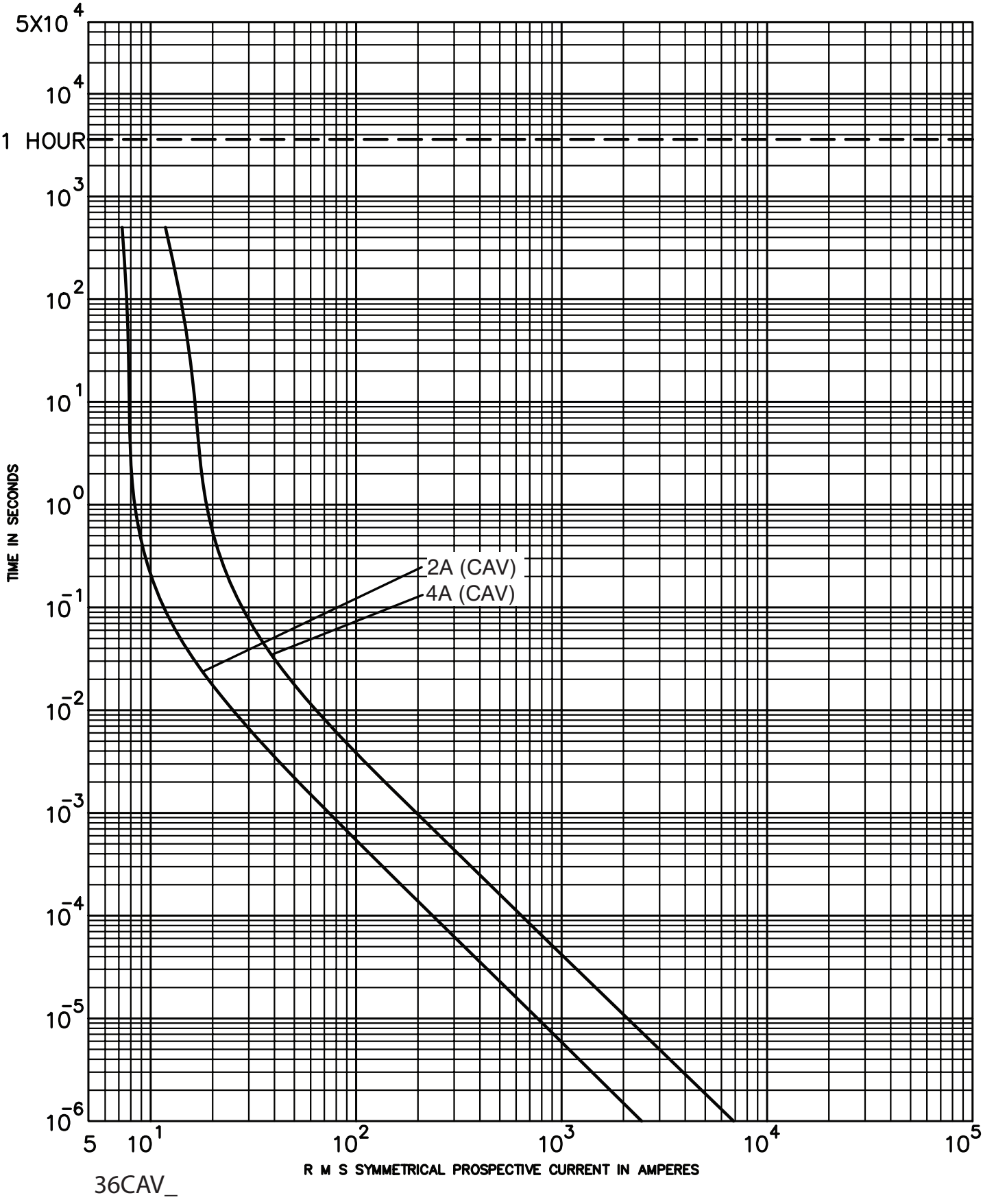
Dimensions (see catalog number tables for values)



Recommended fuseclips:

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

36kV Time-current curves — minimum melting for 36CAV_



36CAV_

38kV maximum system voltage

Amp rating	Dimensions - in (mm)			Catalog No. (interrupting rating - kA)		Recommended fuse-clip
	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)†	—	
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)	

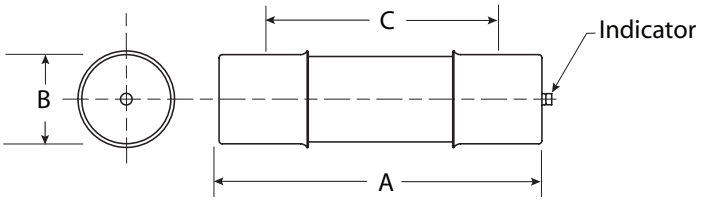
† Does not comply with ANSI C37.46 for “E” rating.

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

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

* 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.

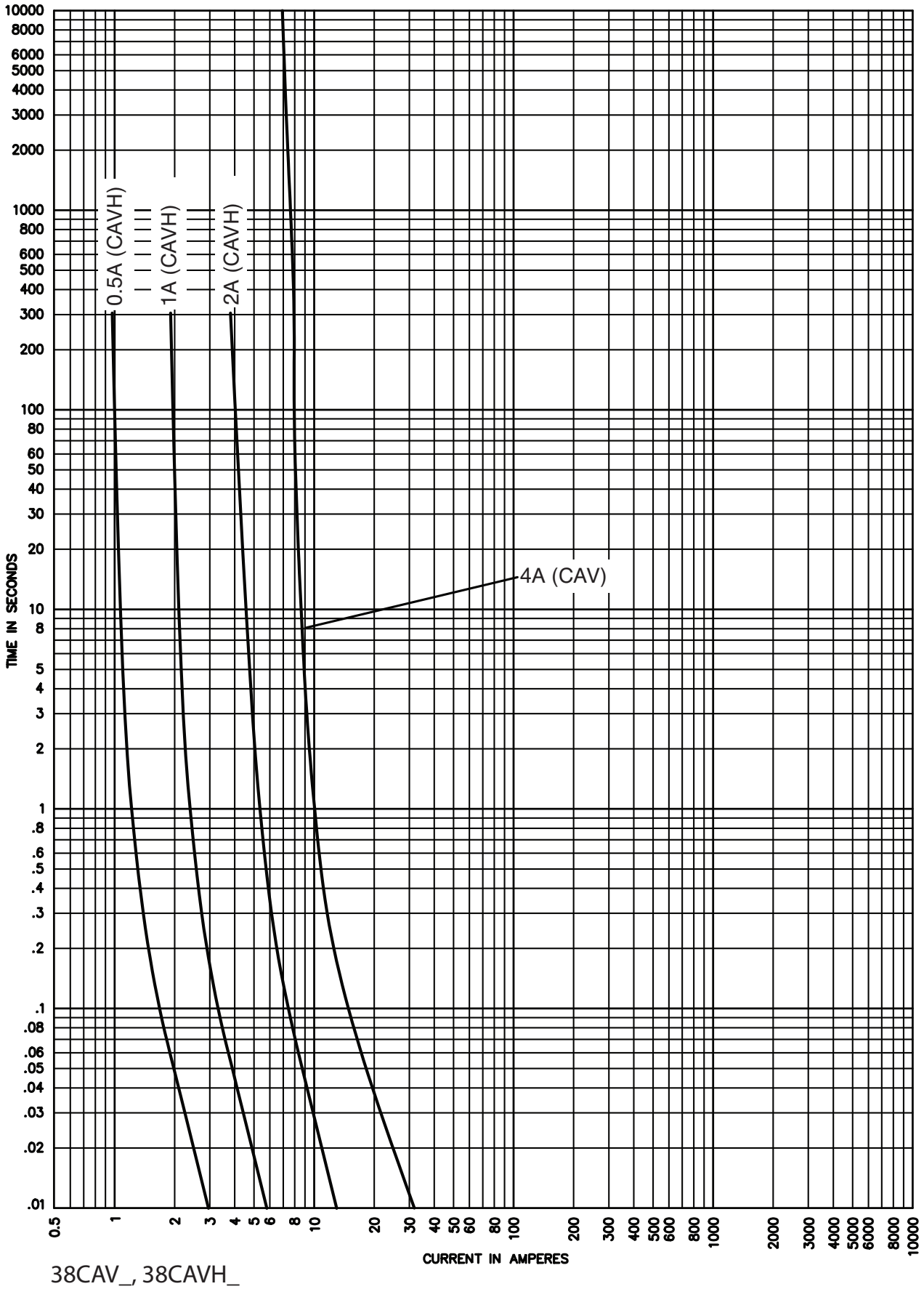
Dimensions (see catalog number tables for values)



Recommended fuseclip:

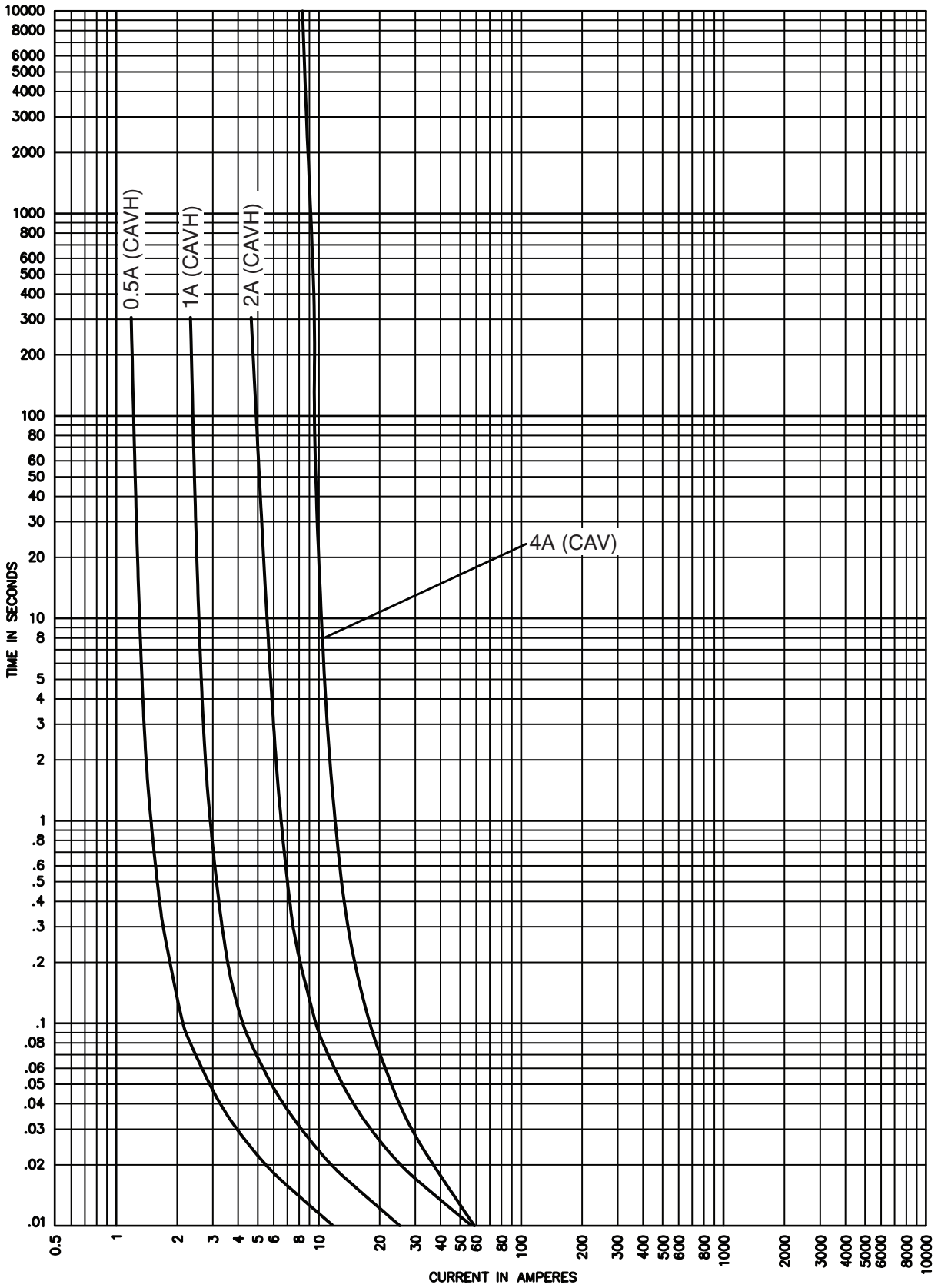
Description	Cat. No.
Open fuseclip for 1.56 (39.7mm) / 1.6 (40.6mm) dia. fuses	1A0835

38kV time-current curves — minimum melting for 38CAV_ and 38CAVH



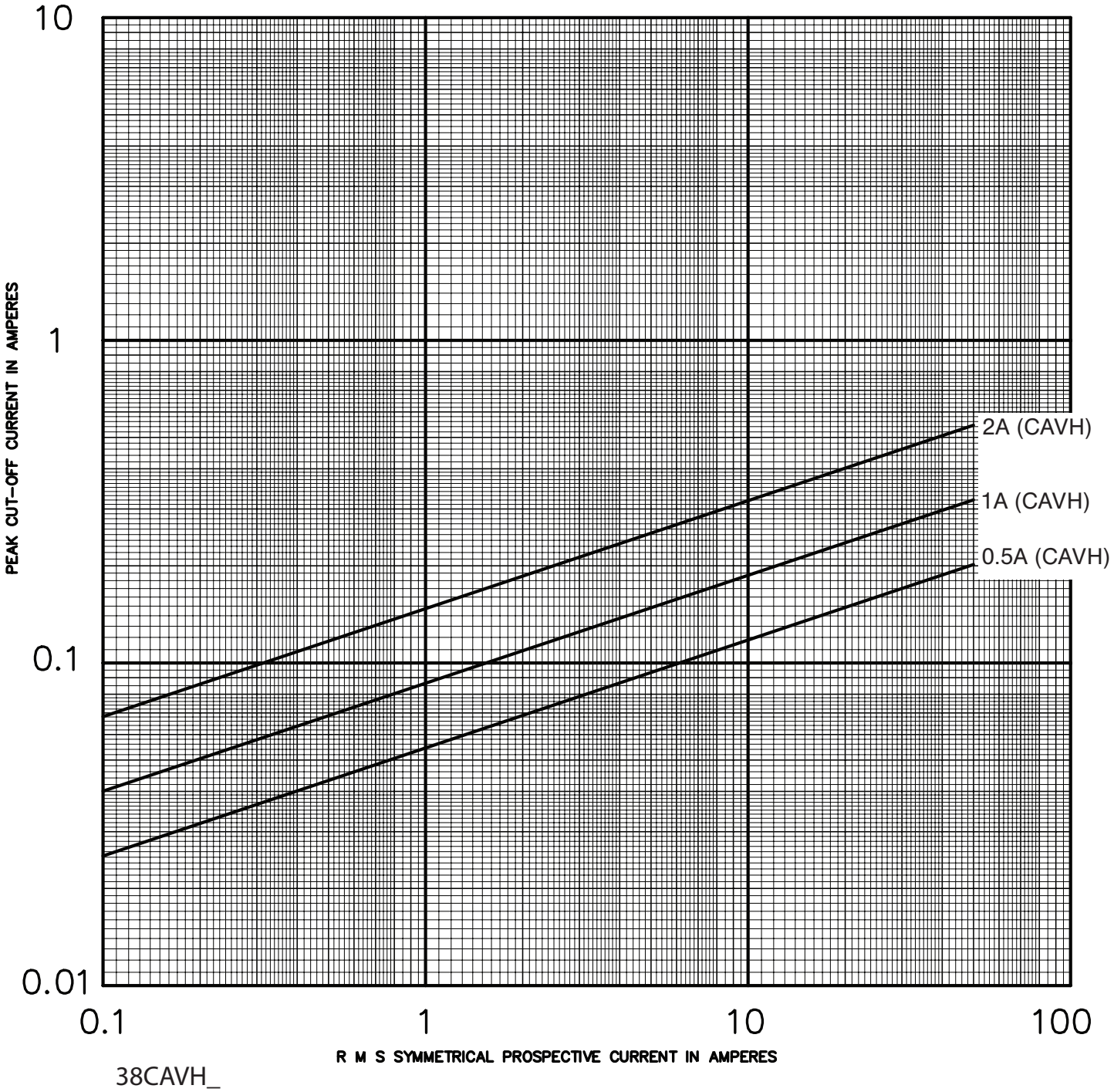
38CAV_, 38CAVH_

38kV time-current curves — total clearing for 38CAV_ and 38CAVH



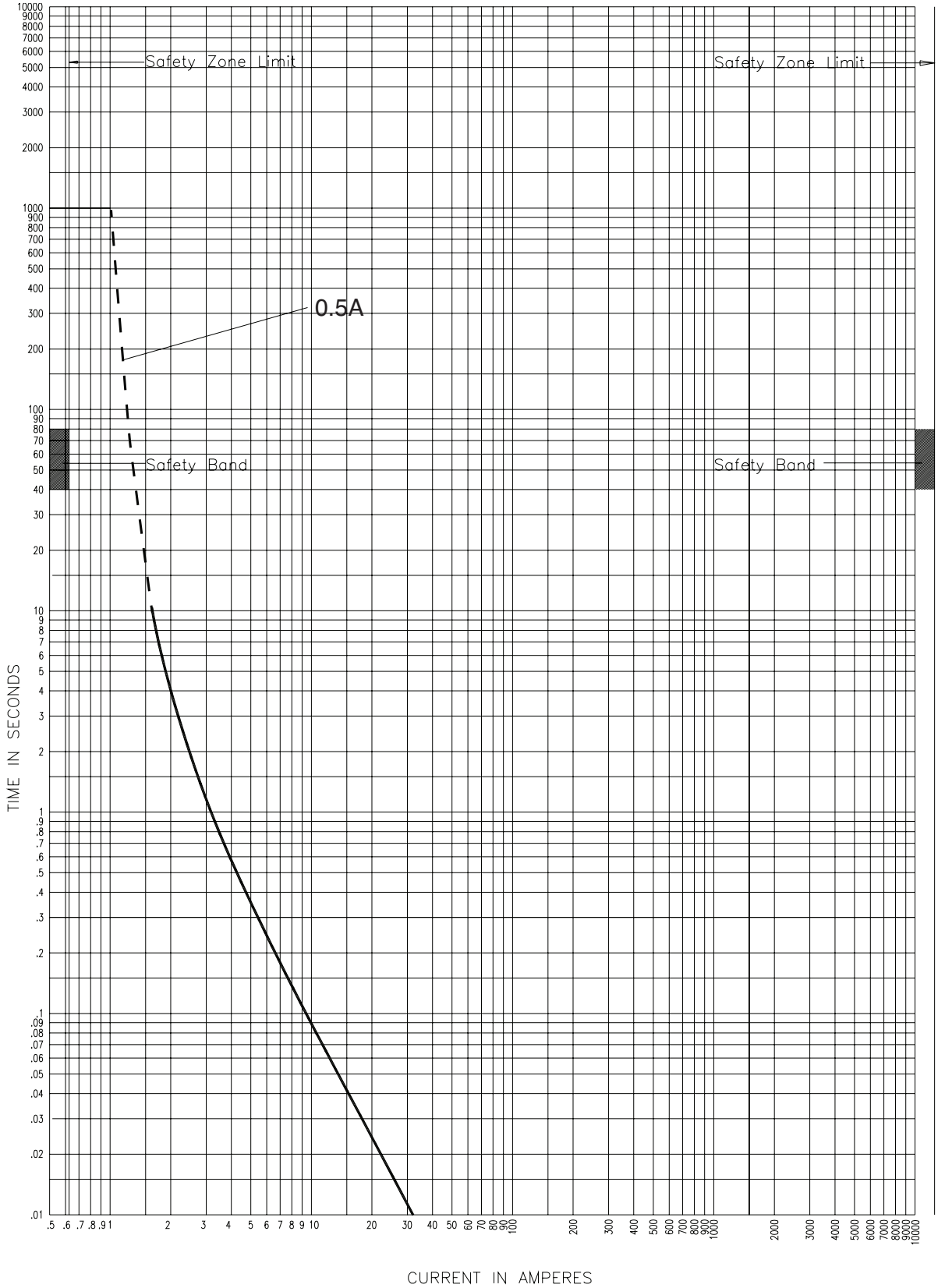
38CAV_, 38CAVH_

38kV peak let-through curves for 38CAVH



38CAVH_

38kV time-current curves — minimum melting for 38CLPT_

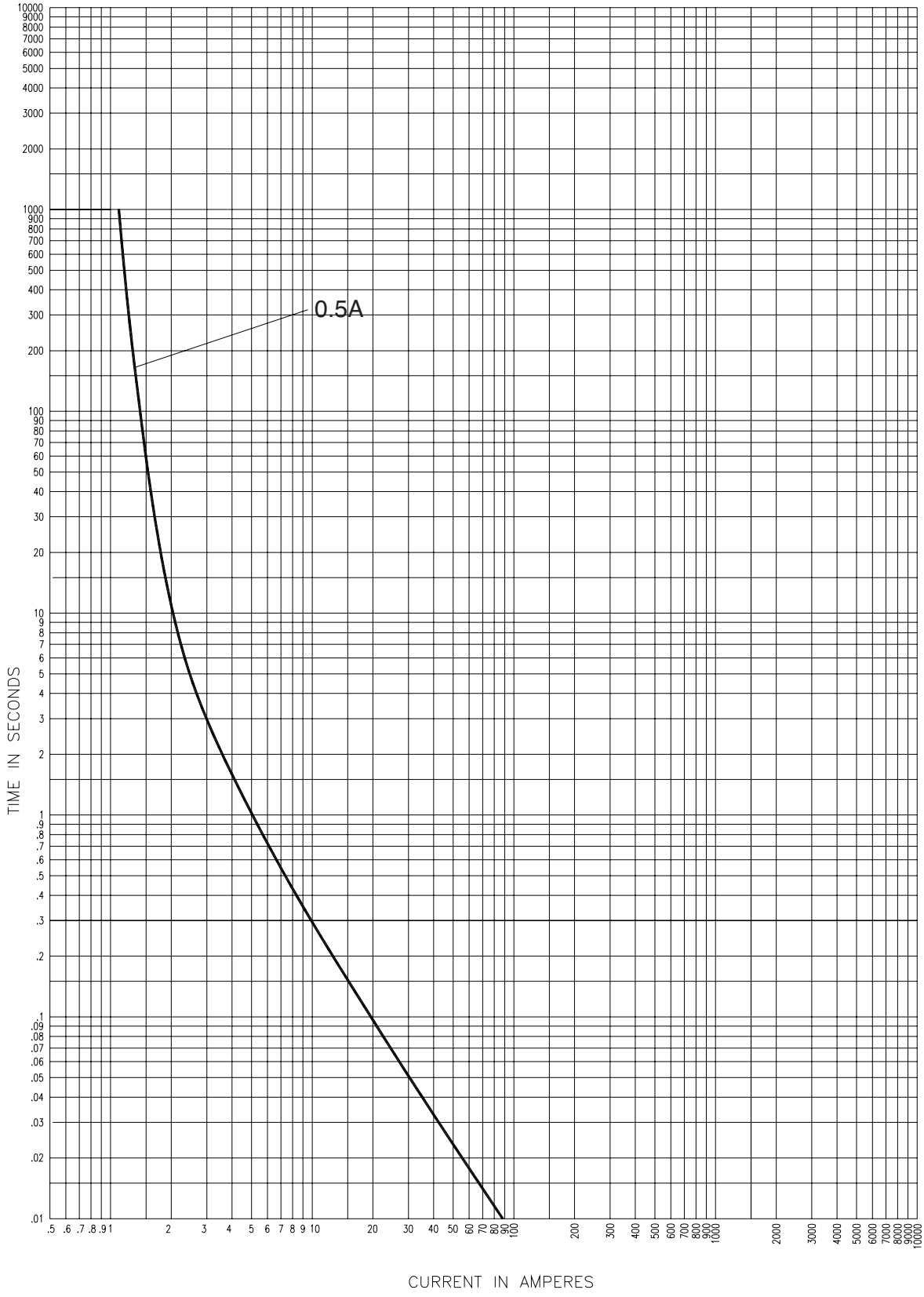


38CLPT_

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

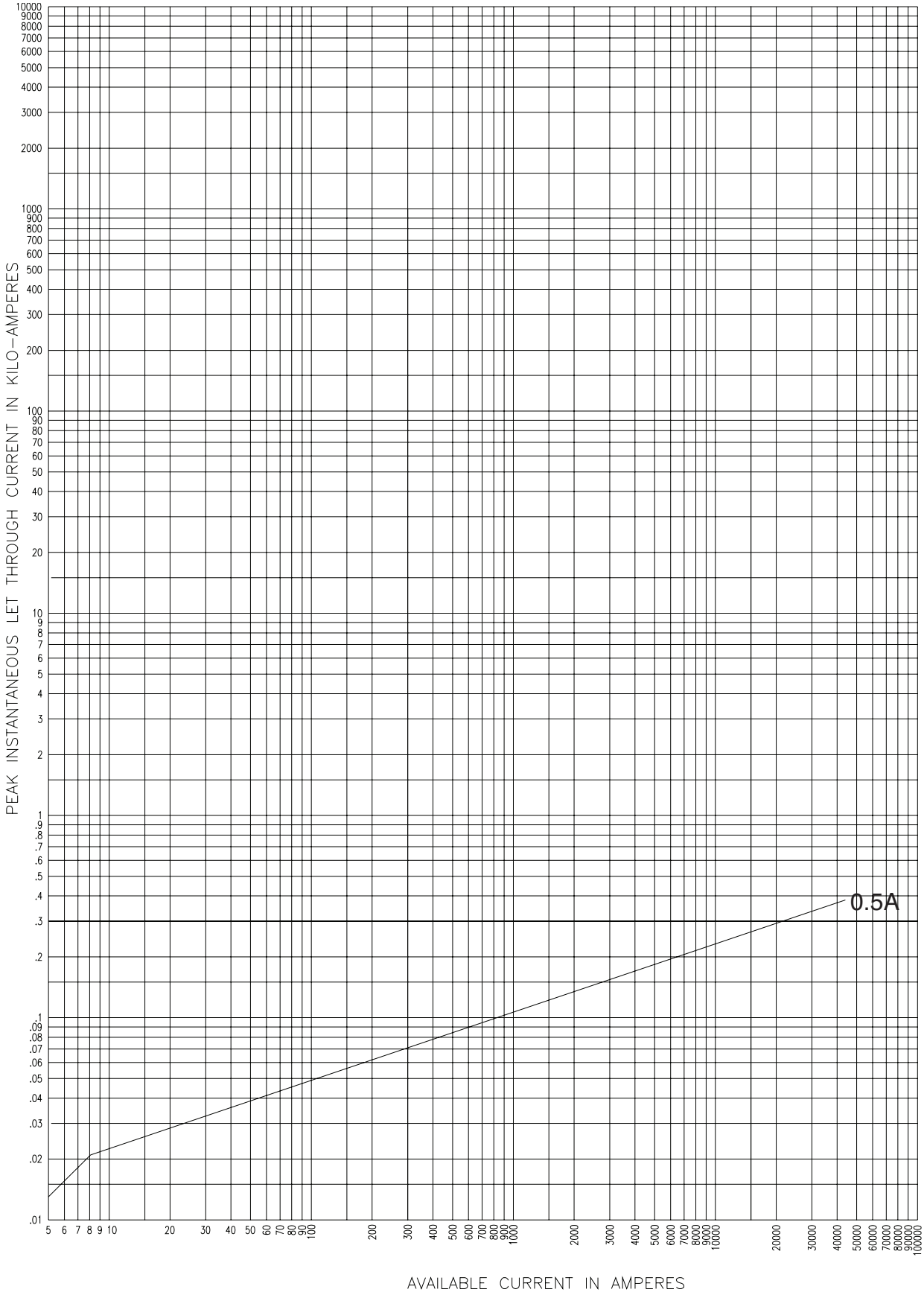
38kV time-current curves — total clearing for 38CLPT_



38CLPT_

Curve TC56353308
December 2008

38kV peak let-through curves for 38CLPT_

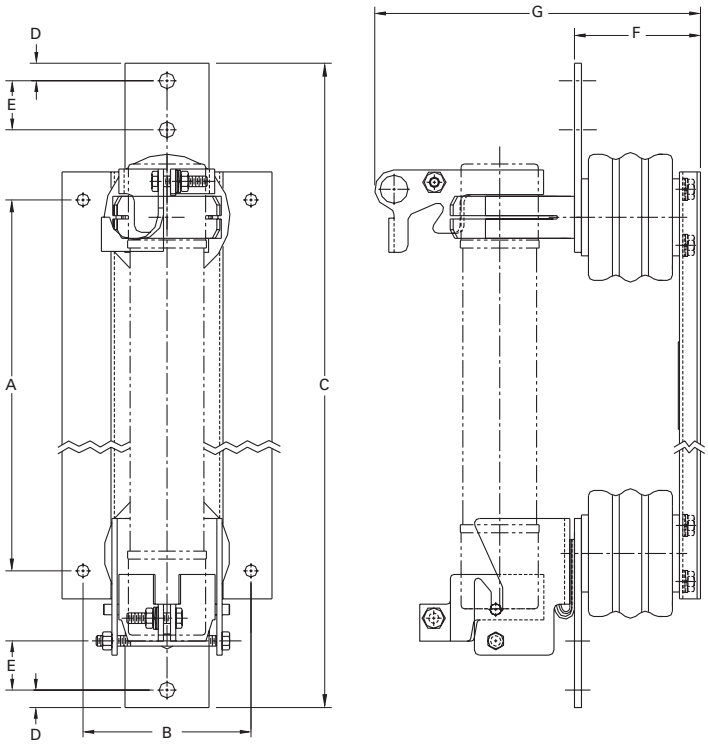


PT fuse mountings - in (mm)

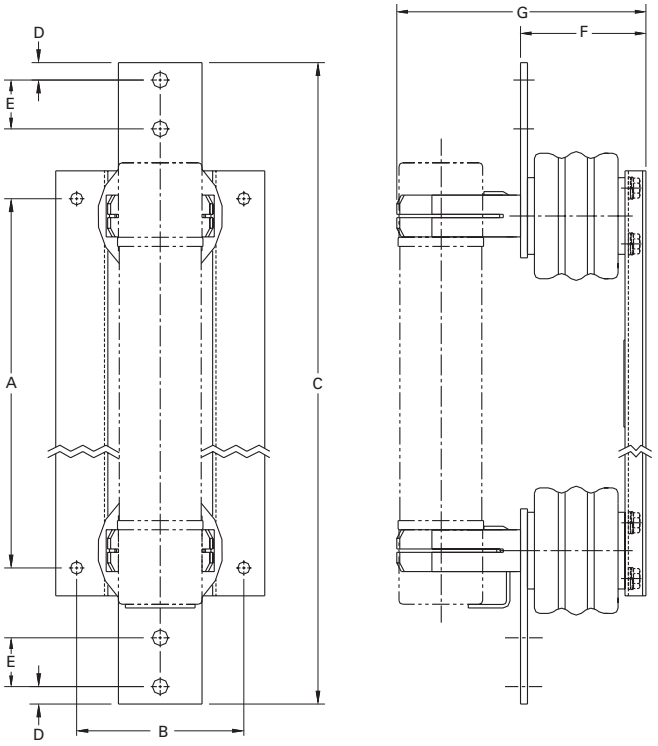
Catalog number	Hole centers A	Hole centers B	Overall length C	Hole Inset D	Hole centers E	Contact height F	Overall height G	BIL kV
5.5kV Disconnect†								
5CLPT-GDM-A	9.37 (238)	6 (152.4)	18.63 (473.2)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	9.56 (242.8)	60
5CLPT-PDM-A	9.37 (238)	6 (152.4)	18.63 (473.2)	0.75 (19)	1.75 (44.4)	4.5 (114.3)	9.56 (242.8)	60
5.5kV Non-disconnect								
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
8.3kV Disconnect†								
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
8.3kV Non-disconnect								
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
15.5kV Disconnect†								
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
15.5kV Non-disconnect								
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
25.5kV Disconnect†								
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
25.5kV Non-disconnect								
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
38kV Non-disconnect								
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†



Non-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.

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