

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.

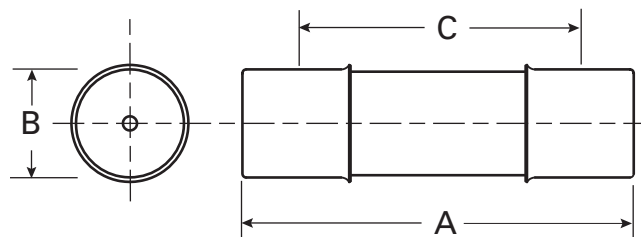
Agency information:

- 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)	

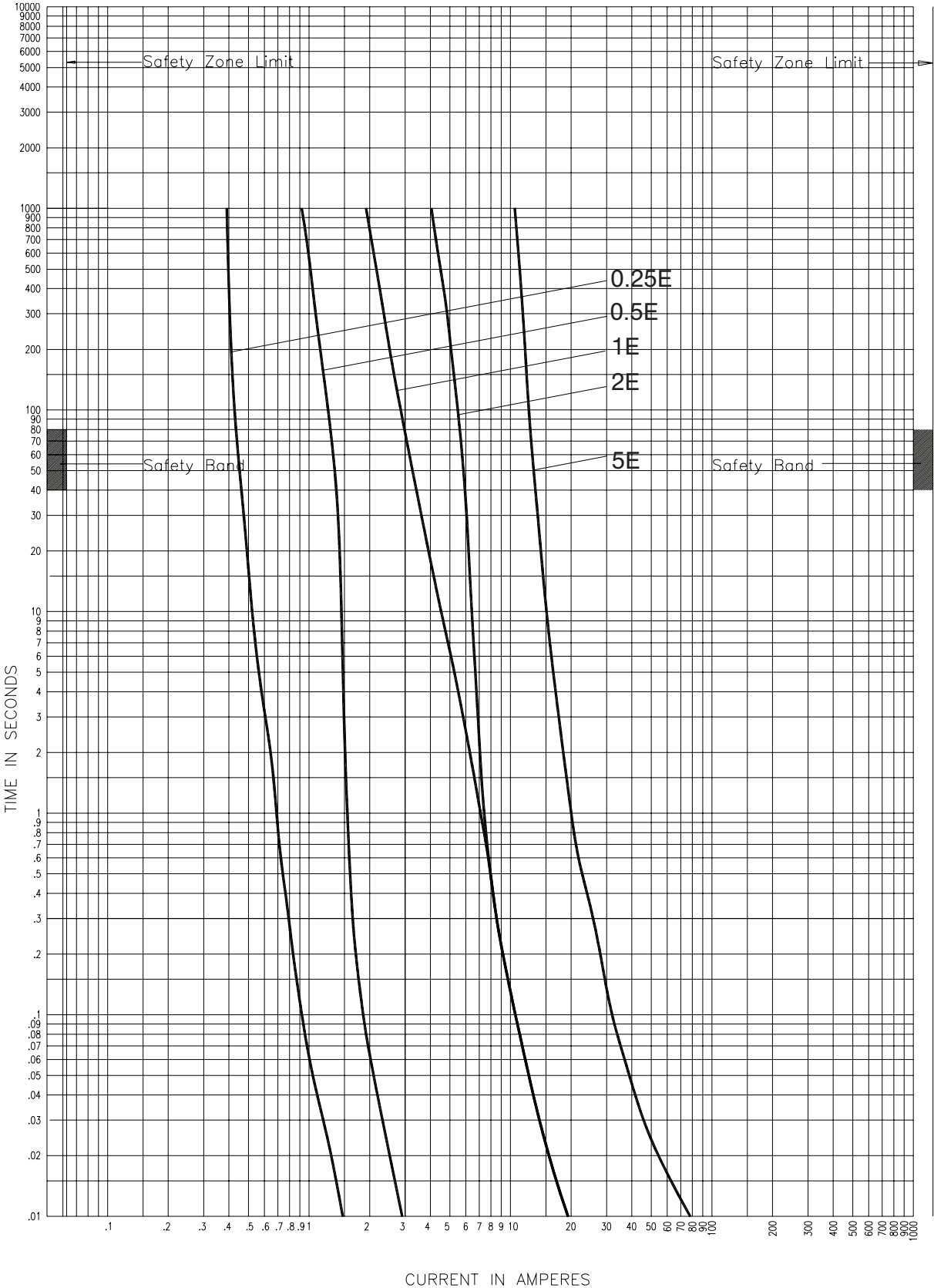
Dimensions (see catalog number tables for values)



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

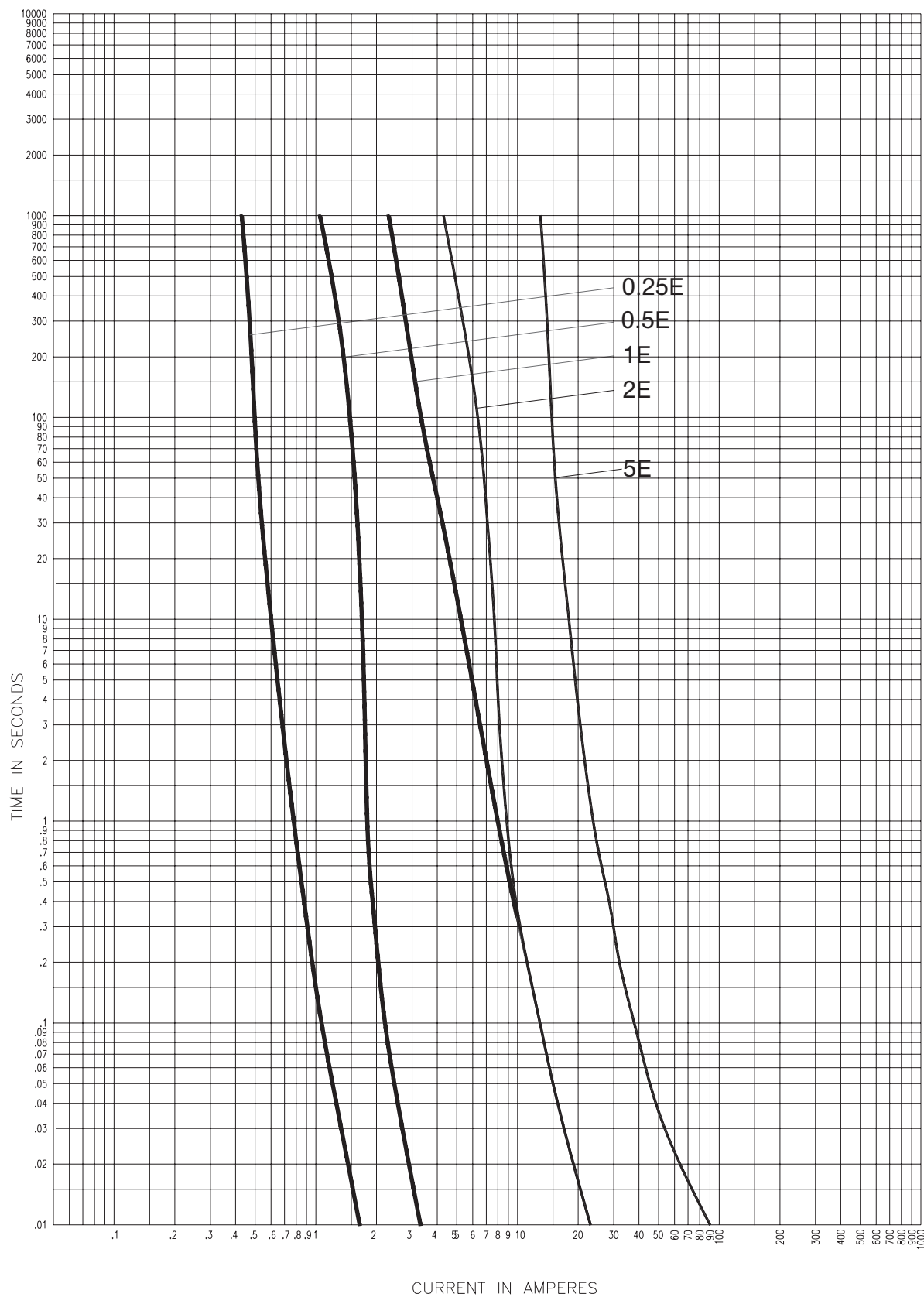
2.47 kV time-current curves — minimum melting for 2NCLPT-E



2NCLPT-E

Curve TC56357202
December 2008

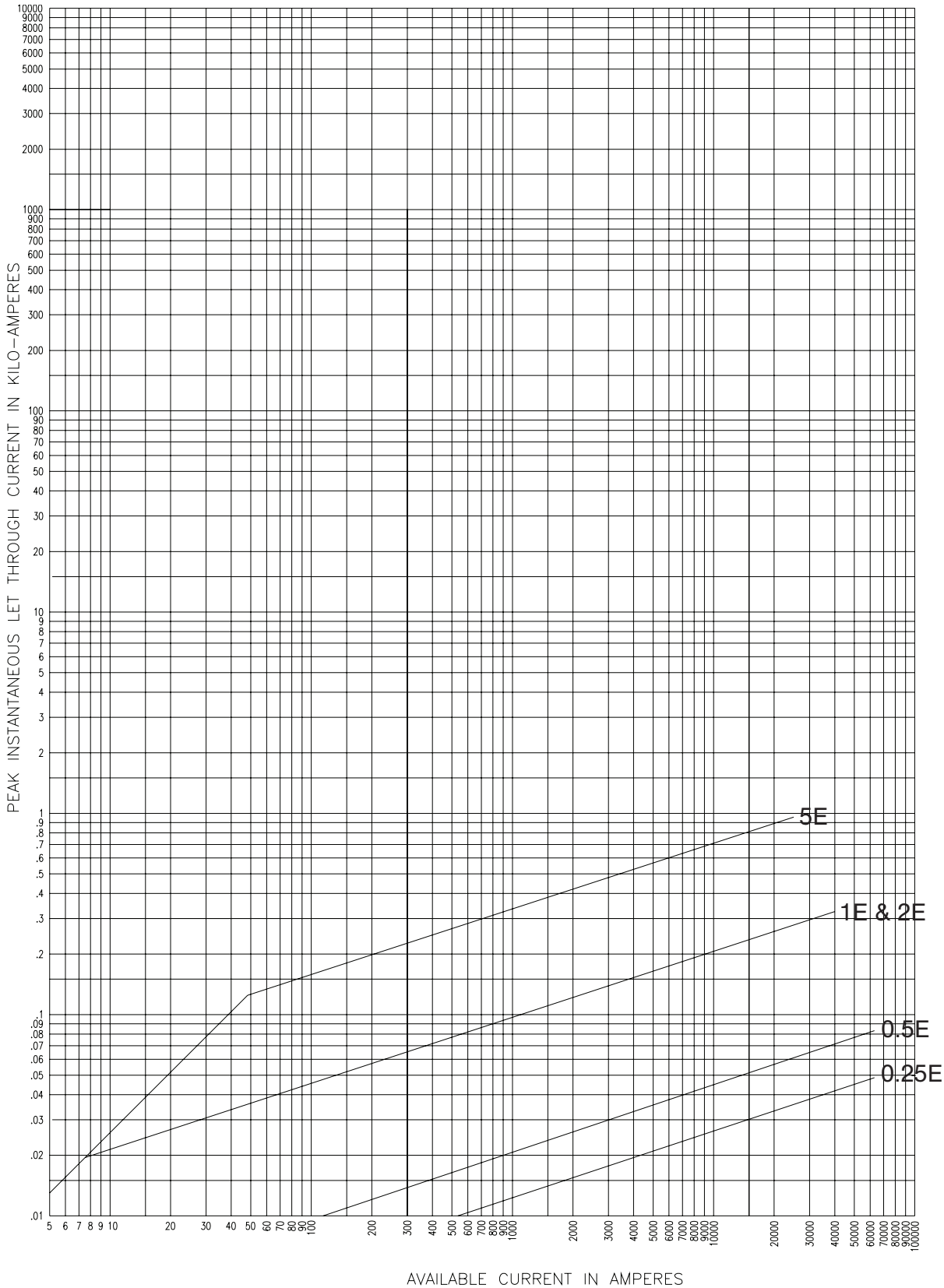
2.47 kV time-current curves — total clearing for 2NCLPT_E



2NCLPT_E

Curve TC59883702
October 2010

2.47 kV peak let-through curves for 2NCLPT_E



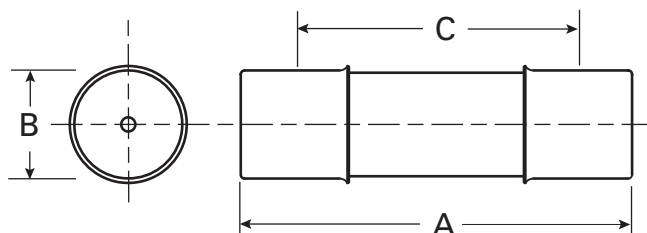
2NCLPT_E

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