

CL-14 SERIES

E-RATED/MEDIUM VOLTAGE FUSES



HIGHLIGHTS:

- E-Rated
- UL Listed 5.5kV
- Complies with ANSI C37.46

APPLICATIONS:

- Protection for 5.5kV or 15.5kV transformers or distribution systems



DEFINITIONS:

E-rating

E-rated fuses operate as follows:
 100E or less - must melt in 300 seconds (5 mins.) at 200 to 240% of E (ampere) rating.
 Over 100E - must melt in 600 seconds (10 mins.) at 220 to 264% of E (ampere) rating.
 Example - A 100E fuse must melt in 300 seconds with an applied current of 200 to 240 amperes.

General Purpose Current-Limiting Fuse

A general purpose current-limiting power fuse is one that is capable of interrupting all currents from its rated interrupting rating down to the current that causes melting of the fusible element in one hour.

5kV AND 15kV CLIP-LOCK MOUNTED FUSES

Amp-trap® CL-14 E-rated 5kV and 15kV fuses have 3" diameter barrels and mount in unique cam-locking clips, for superior connections as well as easy installation and replacement. They are UL listed as "general purpose current-limiting fuses" and are for use indoors (or outdoors in a weatherproof enclosure). The unique time-current characteristic of Ferraz Shawmut E-rated fuses allows them to be closely sized to transformer full load rated current, as recommended by IEEE guidelines, without being affected by normal magnetizing inrush current. CL-14 fuses are typically sized at transformer rated current of 133%, thereby providing superior overall protection.

E

Features/Benefits

- **UL Listed** for compatibility with UL listed equipment
- **Clip-Lock mounting** for reliable high integrity connection into circuit
- **Current limiting** for superior equipment protection
- **Blown-fuse indicator** gives positive identification of open fuse
- **Non-venting** for silent operation
- **Metal Embossed Catalog Number** and manufacturing date for lasting identification

Ratings

- **A055C**
AC: 10E to 600E
5.5kV, 63kA I.R. Sym.
- **A155C**
AC: 10E TO 300E
15.5kV, 50kA I.R. Sym

Approvals

- UL Listed to JEEG, "Fuses Over 600 Volts"
UL File # E143362

Clip-Lock Clips for CL-14 Fuses:

228-700-520 (One pair of clips)

CL-14

E-RATED/MEDIUM VOLTAGE FUSES/A155C

15.5kV Clip-Lock Mounted

Catalog Numbering System

<u>A</u>	<u>1</u>	<u>5</u>	<u>5</u>	<u>C</u>	<u>1</u>	<u>D</u>	<u>0</u>	<u>R</u>	<u>0</u>	<u>-</u>	<u>8</u>	<u>0</u>	<u>E</u>
													Ampere Rating
													Revision/No.
													Special Features
													Diameter (D=3")
													No. of Barrels
													Style (C= Clip Lock Mount)
													Max. Voltage Rating (155=15.5kV)
													Amp-trap Fuse

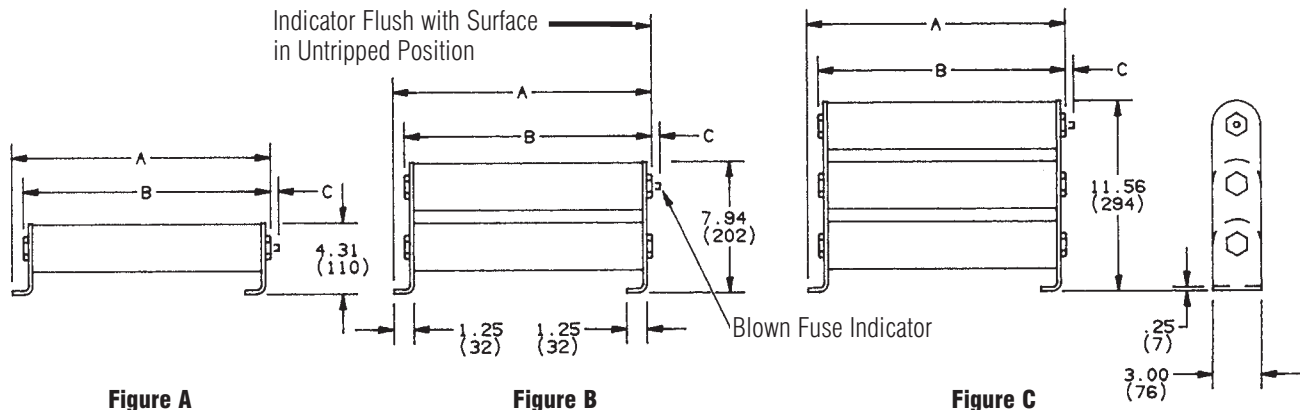


Figure A

Figure B

Figure C

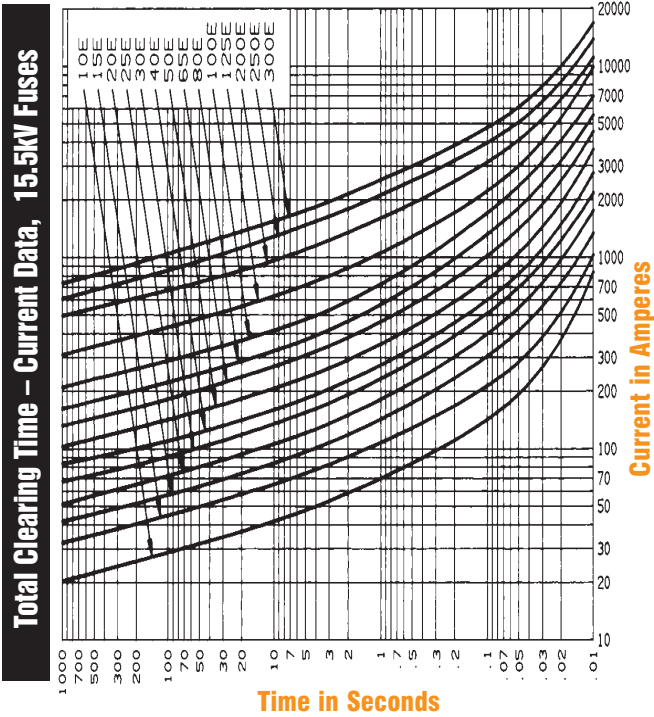
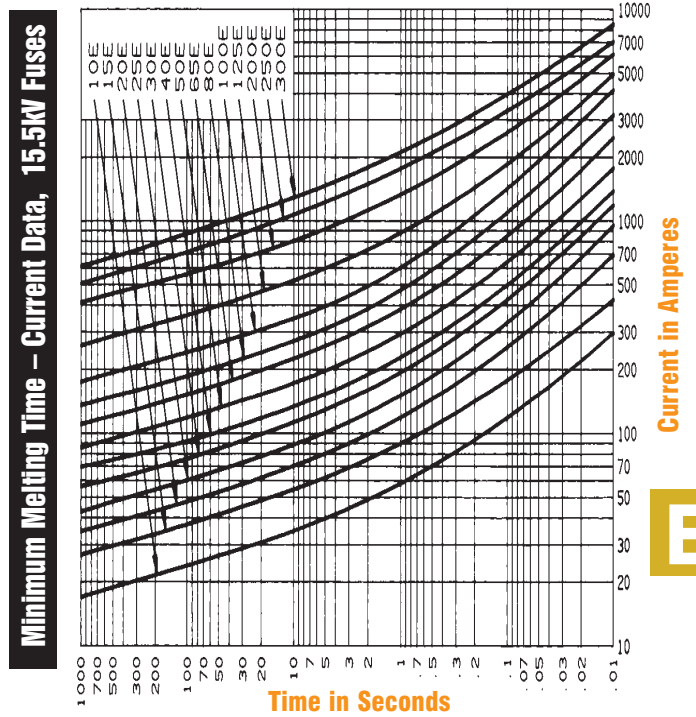
Catalog Numbers, Ratings, Dimensions, CL-14 Series, 15.5kV

NEW CATALOG NUMBER	OLD CATALOG NUMBER	AMPERE RATING	NUMBER OF BARRELS	FIG.	DIMENSIONS Inches (mm)			INTERRUPTING RATING RMS SYM.* AMPERES
					A	B	C	
15.5kV Max. – Clip-Lock Style – 18.25" (464mm) Clip Centers – 3" (76.2mm) Barrel Diameter								
A155C1DORO-10E 15E 20E 25E 30E 40E 50E	225-007-967 968 969 970 971 972 973	10E 15E 20E 25E 30E 40E 50E	1	A	19.81 (504)	19.12 (486)	0.5 (13) Tripped Force 2 lbs.	50,000
15.5kV Max. – Clip-Lock Style – 21.25" (540mm) Clip Centers – 3" (76.2mm) Barrel Diameter								
A155C1DORO-65E 80E 100E	225-007-974 975 976	65E 80E 100E	1	A	22.81 (580)	22.12 (562)	0.5 (13) Tripped Force 2 lbs	50,000
A155C2DORO-125E	977	125E	2	B				
A155C3DORO-150E 200E 250E 300E	978 979 980 981	150E 200E 250E 300E	3	C				

* RMS ASYM. AMPERES = RMS SYM. AMPERES x 1.6

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E-RATED/MEDIUM VOLTAGE FUSES/A155C

A155C1DORO – 10E to 100E / A155C2DORO –
125E / A155C3DORO – 150E to 300EA155C1DORO – 10E to 100E / A155C2DORO –
125E / A155C3DORO – 150E to 300EA155C1DORO – 10E to 100E
A155C2DORO – 125E, A155C3DORO – 150E to 300E
Peak Let-Thru Current Data, 15.5kV CL-14 Fuses