# E-Rated CL-14 Medium Voltage Fuses for Transformer and Feeder Protection 8.3kV ECL083 Series



Electrical Characteristics							
			IR Max	# of	Figure		
Part Number	Amps	Volts	Sym.	Barrels	#	Style	
ECL083-65E	65	8.3kV	50kA	1	1	Clip-Lock	
ECL083-80E	80	8.3kV	50kA	1	1	Clip-Lock	
ECL083-100E	100	8.3kV	50kA	1	1	Clip-Lock	
ECL083-125E	125	8.3kV	50kA	1	1	Clip-Lock	
ECL083-150E	150	8.3kV	50kA	1	1	Clip-Lock	
ECL083-175E	175	8.3kV	50kA	1	1	Clip-Lock	
ECL083-200E	200	8.3kV	50kA	2	2	Clip-Lock	
ECL083-250E	250	8.3kV	50kA	2	2	Clip-Lock	
ECL083-300E	300	8.3kV	50kA	2	2	Clip-Lock	
ECL083-350E	350	8.3kV	50kA	2	2	Clip-Lock	

Part Number Construction						
	Catalog	Voltage	Amp			
	Symbol	Rating	Rating			
Example	ECL	083	300			
		083 = 8.3kV	300 = 300 Amps			

## Catalog Symbol: ECL083

**Description:** E-Rated medium voltage, current-limiting fuses for transformer and feeder protection.

## Ratings

Volts: 8.3kV

Amps: 65-350

IR: 50kA

**Agency Information:** E-Rated Medium Voltage Fuses: Meets E requirements per ANSI C37.46, and General Purpose requirements per ANSI C37.40

## **Construction:**

- Silver element in a double concentric helical configuration
- Silica filler
- Silver-plated copper terminals and endcaps
- Filament wound, glass epoxy fuse tube

# Features:

- General Purpose Fuses. Cooper Bussmann medium voltage fuses provide general purpose protection and are capable of interrupting fault currents up to 50kA RMS sym.
- Clip-Lock Double Barrel Fuse Design.
- The filament wound, glass epoxy fuse tube provides moisture protection for the fuse. This makes Cooper Bussmann medium voltage fuses suitable for both indoor and outdoor application (outdoor applications require installation inside an appropriate enclosure).
- Open Fuse Indication. Indicator travel distance is 16mm.
- Operating Frequency: 50/60Hz
- Dimensional Data: See page 2.
- Performance Curves: See pages 3-4.

# Current-limiting medium voltage fuses are classified into three categories:

- **Full Range -** Defined by ANSI as "a fuse capable of interrupting all currents from the maximum rated interrupting current down to the minimum continuous current that causes melting of the fusible element(s), when the fuse is applied at the maximum ambient temperature specified by the manufacturer." It is able to interrupt any normal 60 cycle current that will melt its element.
- **General Purpose -** Defined by ANSI C37.40 as "a fuse capable of interrupting all currents from the maximum rated interrupting current down to the current that causes melting of the fusible element in one hour." Not all currents fall within this range. It is possible to receive an overcurrent lower than the value given by the one hour criterion.
- **Back-up** Defined by ANSI C37.40 as "a fuse capable of interrupting all currents from the maximum rated interrupting current down to the rated minimum interrupting current." The minimum rated interrupting current is the lowest current that the fuse will be able to clear properly. This creates a need to place a low current interrupting device in series with the back-up rated fuse.



# Figure 1 Dimensions - in

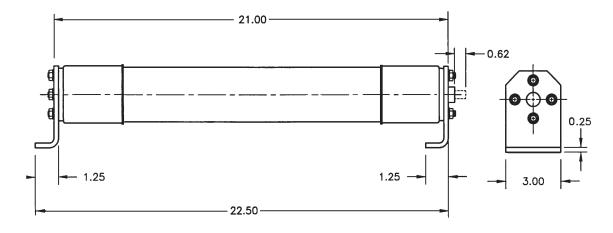
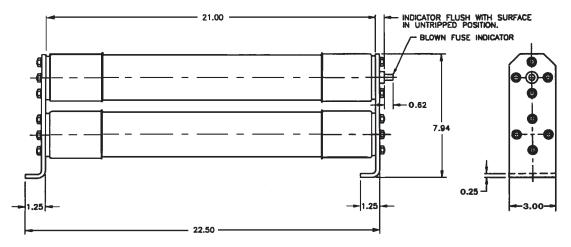


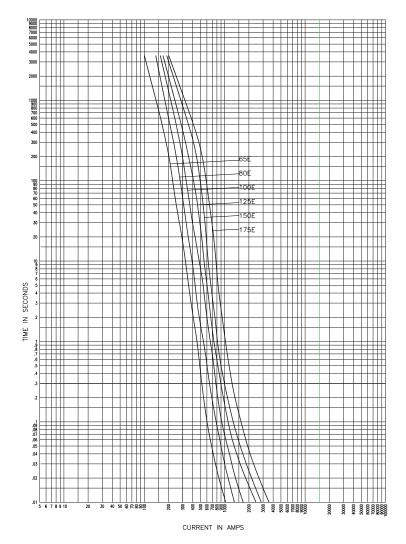
Figure 2 Dimensions - in



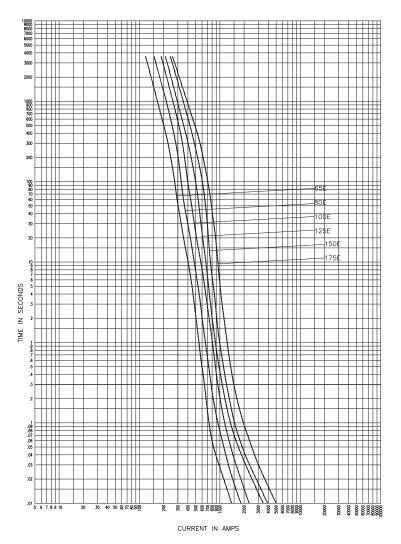


Data Sheet 9008

### **Time-Current Characteristics - Minimum Melt**



#### **Time-Current Characteristics - Total Clear**



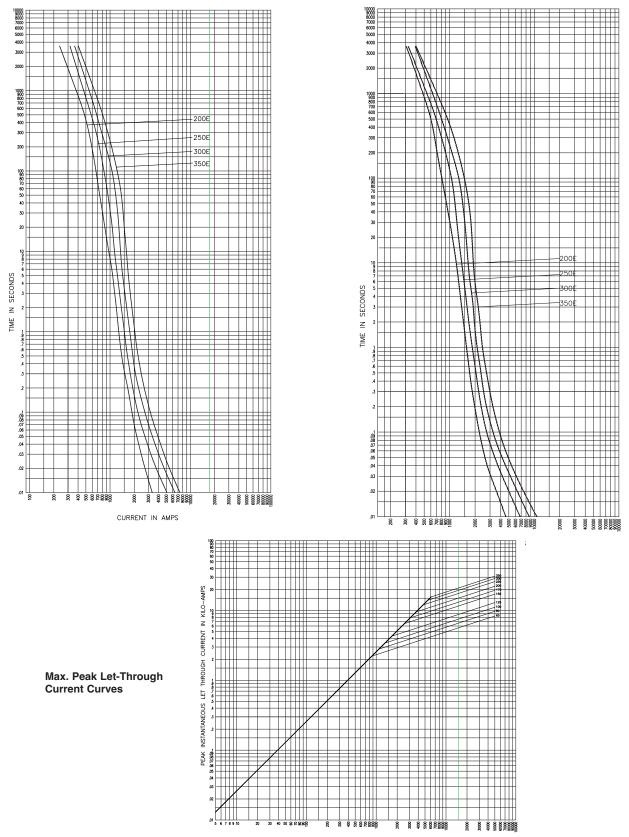
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**COOPER** Bussmann

### **Time-Current Characteristics - Minimum Melt**



**Time-Current Characteristics - Total Clear** 

AVAILABLE CURRENT IN AMPS

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