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



CURRENT IN AMPS



Data Sheet 9008

Time-Current Characteristics - Minimum Melt



Time-Current Characteristics - Total Clear

AVAILABLE CURRENT IN AMPS

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