

## E-rated fuses: CL-14

### ECL155

#### Specifications

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

**Construction:** Filament wound, glass epoxy fuse tube, with silica filler, and silver-plated copper terminals and endcaps containing a silver element in a double concentric helical configuration.

#### Ratings:

Volts: — 15.5kV

Amps: — 10-300A

IR: — 63kA Sym. (10-200A)

— 50kA Sym. (250-300A)

**Agency Information:** Meets E requirements per ANSI C37.46, Meets General Purpose requirements per ANSI C37.40.

#### Features and Benefits

- Clip-lock double barrel fuse design assures positive installation
- The filament wound, glass epoxy fuse tube provides UV and moisture protection, making these medium voltage fuses suitable for both indoor and outdoor applications
- Open fuse indication (indicator travel distance is 16mm) easily integrates into automation schemes
- 50/60 Hz operating frequency make these fuses applicable world-wide

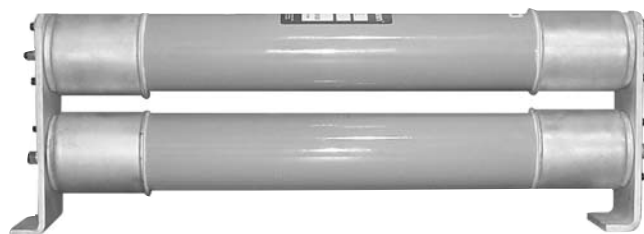
#### Typical Applications

- 15.0 kV Transformer Primary Protection
- 15.0 kV Feeder Circuit Protection
- 15.0 kV Voltage Switches
- 15.0 kV Metal-enclosed Switchgear

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

1. 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.

2. 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.



3. 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.

#### Catalog Numbers

Catalog Numbers	Amp Rating	Voltage	IR Voltage Max Sym.	# of Barrels	Style
ECL155-10E	10	15.5kV	63kA	1	Clip-Lock
ECL155-15E	15				
ECL155-20E	20				
ECL155-25E	25				
ECL155-30E	30				
ECL155-40E	40				
ECL155-50E	50				
ECL155-65E	65				
ECL155-80E	80				
ECL155-100E	100				
ECL155-125E	125	50kA	50kA	2	Clip-Lock
ECL155-150E	150				
ECL155-200E	200				
ECL155-250E	250				
ECL155-300E	300				

#### Catalog Number Construction (Example)

Catalog Number	Voltage Rating	Ampere Rating
ECL	155	300E
	155 = 15.5 kV	

#### Catalog Number Cross Reference

Cooper Bussmann Catalog Numbers	Ferraz-Shawmut New Catalog #	Ferraz-Shawmut Old Catalog #
ECL155-10E	A155C1DORO-10E	225-007-967
ECL155-15E	A155C1DORO-15E	225-007-968
ECL155-20E	A155C1DORO-20E	225-007-969
ECL155-25E	A155C1DORO-25E	225-007-970
ECL155-30E	A155C1DORO-30E	225-007-971
ECL155-40E	A155C1DORO-40E	225-007-972
ECL155-50E	A155C1DORO-50E	225-007-973
ECL155-65E	A155C1DORO-65E	225-007-974
ECL155-80E	A155C1DORO-80E	225-007-975
ECL155-100E	A155C1DORO-100E	225-007-976
ECL155-125E	A155C2DORO-125E	225-007-977
ECL155-150E	A155C3DORO-150E	225-007-978
ECL155-200E	A155C3DORO-200E	225-007-979
ECL155-250E	A155C3DORO-250E	225-007-980
ECL155-300E	A155C3DORO-300E	225-007-981

Data Sheet: 9004