

Medium Voltage Fuses

E-rated fuses: CL-14 & bolt-In

ECL055 & EBI055

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: — 5.5 kV

Amps: — 10-900A

IR: — 63kA Sym. Max

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

Features and Benefits

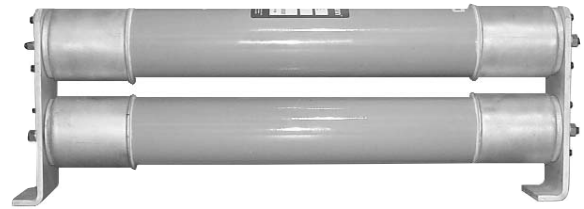
- Clip-lock and bolt-in style available in double and triple barrel fuse designs for application flexibility
- The filament wound, glass epoxy fuse tube provides UV and moisture protection, making these medium voltage fuses suitable for both indoor and outdoor applications
- Open fuse indication (indicator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

Typical Applications

- 5.0 kV Transformer Primary Protection
- 5.0 kV Feeder Circuit Protection
- 5.0 kV Voltage Switches
- 5.0 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 Max Sym.	# of Barrels	Style
ECL055-10E	10	5.5kV	63kA	1	Clip-Lock
ECL055-15E	15	—			
ECL055-20E	20	—			
ECL055-25E	25	—			
ECL055-30E	30	—			
ECL055-40E	40	—			
ECL055-50E	50	—			
ECL055-65E	65	—			
ECL055-80E	80	—			
ECL055-100E	100	—			
ECL055-125E	125	—			
ECL055-150E	150	—			
ECL055-200E	200	—			
ECL055-250E	250	—			
ECL055-300E	300	—			
ECL055-400E	400	—			
ECL055-450E	450	—			
ECL055-500E	500	—			
ECL055-600E	600	—			
ECL055-750E	750	—		3	Bolt-In
ECL055-900E	900	—			

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Catalog Number Construction (Example)

Catalog Number	Voltage Rating	Ampere Rating
ECL	055	500E
	055 = 5.5 kV	

Catalog Number Cross Reference

Cooper Bussmann Catalog Numbers	Ferraz-Shawmut New Catalog #	Ferraz-Shawmut Old Catalog #
ECL055-10E	A055C1DORO-10E	225-007-937
ECL055-15E	A055C1DORO-15E	225-007-938
ECL055-20E	A055C1DORO-20E	225-007-939
ECL055-25E	A055C1DORO-25E	225-007-940
ECL055-30E	A055C1DORO-30E	225-007-941
ECL055-40E	A055C1DORO-40E	225-007-942
ECL055-50E	A055C1DORO-50E	225-007-943
ECL055-65E	A055C1DORO-65E	225-007-944
ECL055-80E	A055C1DORO-80E	225-007-945
ECL055-100E	A055C1DORO-100E	225-007-946
ECL055-125E	A055C1DORO-125E	225-007-947
ECL055-150E	A055C1DORO-150E	225-007-948
ECL055-200E	A055C1DORO-200E	225-007-949
ECL055-250E	A055C1DORO-250E	225-007-950
ECL055-300E	A055C1DORO-300E	225-007-951
ECL055-400E	A055C1DORO-400E	225-007-952
ECL055-450E	A055C2DORO-450E	225-007-953
ECL055-500E	A055C2DORO-500E	225-007-954
ECL055-600E	A055C2DORO-600E	225-007-955
ECL055-750E	A055B3DORO-750E	A055X750E-4
ECL055-900E	A055B3DORO-900E	A055X900E-4

Data Sheet: 9002