Transformer Protection

Amp-Trap® CS-3 Series and 9F60/9F62 Series

MEDIUM VOLTAGE FUSES

2.75kV, 5.5kV, 8.25kV, 15.5kV, 25.8kV AND 38kV FERRULE MOUNTED FUSES

Mersen fuses for the protection of transformers and distribution lines deliver overload and short circuit protection. These current-limiting fuses will melt at current that can be as low as 1.7 times the fuse current ratings up to its maximum interrupting rating. These fuses are designed to withstand the transformer magnetizing inrush current. They have 2 (size C), 3 (size D) and 4 (size E) inch diameter barrels with ferrules and are mounted in spring reinforced clips.

FEATURES/BENEFITS:

- Amp-Trap CS-3 and 9F62 series are UL listed for compatibility with UL listed equipment.
- Ferrule mounting for standard clips and interchangeability with other brands of fuses.
- Current-limiting for superior equipment protection.
- Non-venting for silent operation.
- Metal embossed catalog number and manufacturing date for lasting identification.
- Outdoor usage for the 9F62 and 9F60 type EJO.
- Blown-fuse indicator to give positive identification of open fuse:
    - Amp-Trap, 2″ Barrel: 1 lb tripped force - 0.19 inch
    - Amp-Trap, 3″ Barrel: 1 lb tripped force - 0.44 inch
    - Amp-Trap, 3″ Barrel, Striker: 5 lb tripped force - 1 inch
    - 9F60/9F62: 0.125 lb tripped force – 0.20 inch
- Accessories - see Section FB

RATINGS

- See next page for listing

HIGHLIGHTS:

- E-Rated
- UL listed
- Outdoor use

APPLICATIONS:

- Protection for 2.4kV to 34.5kV transformers or distribution systems.

APPROVALS:

- Some UL listed to standard File E143362

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DEFINITIONS:

General Purpose Current-Limiting Fuses (Per IEEE Std C37.41-2016):

A general purpose current-limiting fuse is one that is capable of interrupting all currents, from its rated maximum interrupting current down to a low value equal to the current that causes melting of the fuse elements in one hour or more, under specified conditions.

E-Rating: E-Rated fuses operate as follows (per IEEE C37.42-2016):

- 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.

Power Distribution Fuses:

Defines fuses designed prior to the time where the ANSI standards defined the term "General Purpose" and do not meet all of the general purpose definition. These fuses are capable of interrupting all currents above 2.2 to 3 times the fuse's rated current up to its maximum interrupting rating.

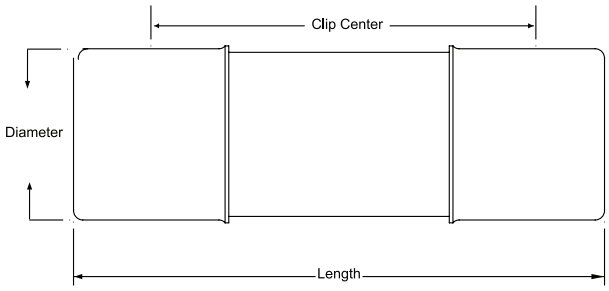
FERRULE MOUNTED FUSES

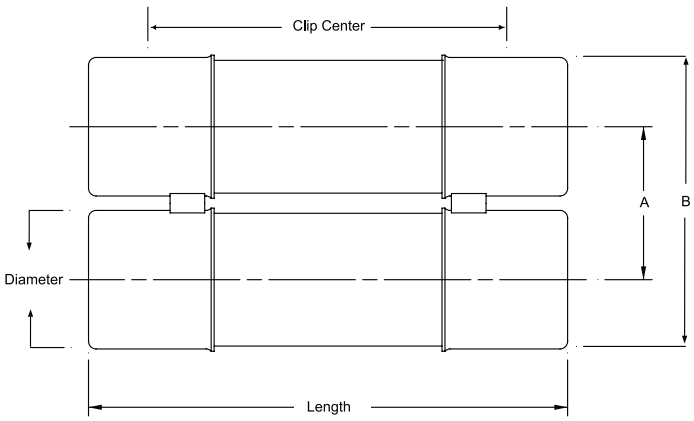
Amp-Trap CS-3 Series: (Indoors or outdoors in a weatherproof enclosure)
A055F: 5.5kV – AC: 5E to 450E – 63kA I.R. Sym
A825X: 8.25kV – AC: 10E to 200E – 70kA I.R. Sym
A155F: 15.5kV – AC: 5E to 200E – 50 kA I.R. Sym

9F62 Series Type EJO-1: (Indoors and outdoors, to 80kA)
9F62: 5.5kV – AC: 25A to 450A – 50kA IR Sym
9F62: 8.3kV – AC: 20A to 250A – 50 kA IR Sym
9F62: 15.5kV – AC: 20A to 200A – 50 kA IR Sym

9F60 Series Type EJO-1: (Indoors and outdoors)
9F60: 2.75kV – AC: 1E to 200E – 50kA IR Sym
9F60: 5.5kV – AC: 0.5E to 200E – 50kA IR Sym
9F60: 8.25kV – AC: 0.5E to 200E – 50kA IR Sym
9F60: 15.5kV – AC: 0.5E to 100E – 50kA to 120kA IR Sym
9F60: 25.8kV – AC: 0.5E to 100E – 25kA to 35kA IR Sym
9F60: 38kV – AC: 1E to 80E – 13kA to 26kA IR Sym

9F60 Series Type EJ-1: (Indoors or outdoors in a weatherproof enclosure)
9F60: 2.75kV – AC: 1E to 200E – 47kA to 52kA IR Sym
9F60: 5.5kV – AC: 0.5E to 25E – 63kA IR Sym
9F60: 15.5kV – AC: 2E to 175E – 31kA to 82kA IR Sym
9F60: 25.8kV – AC: 0.5E to 2E – 35kA IR Sym





9F series A = 3.31 inches (84mm)

9F series B = 6.3 inches (160mm)

Amp-Trap series A = 3.63 inches (92 mm)

Amp-Trap series B = 6.63 inches (169 mm)

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8.25kV / 8.3kV FERRULE MOUNTED FUSES:

8.25kV E-Rated Amp-Trap CS-3 Series

12″ (305 mm) Clip Centers - Suitable for use indoors or in an enclosure only

Catalog No.	Amp Rating	No. of Barrels	Indicating	Diameter Inches (mm)	Length Inches (mm)	Max Voltage	Max IR RMS Sym	Fuse Support Indoor (EK-1)	Fuse Support Outdoor (EKO-1)	Fuse Disconnect Indoor (EK-3)	Fuse Disconnect Outdoor (EKO-3)
A825X10E-1	10E	1	Yes	3 (76.2)	15.88 (403)	8.25kV	70kA	9F61AEG301	N/A	9F61AEG305	N/A
A825X15E-1	15E										
A825X20E-1	20E										
A825X25E-1	25E										
A825X30E-1	30E										
A825X40E-1	40E										
A825X50E-1	50E										
A825X65E-1	65E										
A825X80E-1	80E										
A825X100E-1	100E										
A825X125E-1	125E	2	Yes	3 (76.2)	15.88 (403)	8.25kV	70kA	–	N/A	–	N/A
A825X150E-1	150E										
A825X200E-1	200E										

8.3kV General Purpose fuses – 9F62 Series, EJO-1 – UL Listed

12″ (305 mm) Clip Centers - Suitable for use indoors or outdoors

Catalog No.	Amp Rating	No. of Barrels	Indicating	Diameter Inches (mm)	Length Inches (mm)	Max Voltage	Max IR RMS Sym	Fuse Support Indoor (EK-1)	Fuse Support Outdoor (EKO-1)	Fuse Disconnect Indoor (EK-3)	Fuse Disconnect Outdoor (EKO-3)
9F62HCC020	20A	1	Yes	2 (50.8)	14.18 (360)	8.3 kV	50kA	9F61AEG201	9F61CEF209	9F61AEG205	9F61CEF210
9F62HCC025	25A										
9F62HCC030	30A										
9F62HCC040	40A										
9F62HCC050	50A										
9F62DCC065	65A	1	Yes	3 (76.2)	15.88 (403)	8.3 kV	50kA	9F61AEG301	9F61CEF309	9F61AEG305	9F61CEF310
9F62DCC080	80A										
9F62DCC100	100A										
9F62DCC125	125A										
9F62DCC150	150A										
9F62FCC175	175A	2	Yes	3 (76.2)	15.88 (403)	8.3 kV	50kA	9F61AEG401	9F61CEF409	9F61AEG405	9F61CEF410
9F62FCC200	200A										
9F62FCC250	250A										

8.25kV Power Distribution fuses – 9F60 Series, E-Rated EJO-1

12″ (305 mm) Clip Centers - Suitable for use indoors or outdoors

Catalog No.	Amp Rating	No. of Barrels	Indicating	Diameter Inches (mm)	Length Inches (mm)	Max Voltage	Max IR RMS Sym	Fuse Support Indoor (EK-1)	Fuse Support Outdoor (EKO-1)	Fuse Disconnect Indoor (EK-3)	Fuse Disconnect Outdoor (EKO-3)
9F60DJE905	0.5E	1	Yes	2 (50.8)	14.18 (360)	8.25 kV	50kA	9F61AEG201	9F61CEF209	9F61AEG205	9F61CEF210
9F60DJE001	1E										
9F60DJE002	2E										
9F60DJE003	3E										
9F60DJE005	5E										
9F60DJE007	7E										
9F60DJE010	10E										
9F60DJE015	15E										
9F60FJE020	20E	1	Yes	3 (76.2)	15.88 (403)	8.25 kV	50kA	9F61AEG301	9F61CEF309	9F61AEG305	9F61CEF310
9F60FJE025	25E										
9F60FJE030	30E										
9F60FJE040	40E										
9F60FJE050	50E										
9F60FJE065	65E										
9F60FJE080	80E										
9F60FJE100	100E										
9F60HJE125	125E	2	Yes	3 (76.2)	15.88 (403)	8.25 kV	50kA	9F61AEG401	9F61CEF409	9F61AEG405	9F61CEF410
9F60HJE150	150E										
9F60HJE200	200E										

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