Transformer Protection Amp-Trap[®] CS-3 Series and 9F60/9F62 Series

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.

Applications:

systems.

Protection for 2.4kV to 34.5kV

transformers or distribution

- 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 2 lb tripped force 0.50 Inch
- 9F60/9F62: 0.125 lb tripped force 0.20 Inch
- Accessories see page E53

Highlights:

- E-Rated
- UL listed
- Outdoor use

Definitions:

General Purpose Current-Limiting Fuses (Per IEEE Std C37.40-2003):

A general purpose current-limiting fuse is one that is capable of interrupting all currents from its rated interrupting current down to the current that causes melting of the fusible element(s) in one hour or more.

E-Rating: E-Rated fuses are general purpose fuses that operate as follow (Per ANSI C37.46-2000):

- 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.



Ratings

See page E3 for listing

Approvals:

UL listed to standard File
 E143362





Transformer Protection Amp-Trap[®] CS-3 Series and 9F60/9F62 Series

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 – 50kA I.R. Sym A155F: 15.5kV – AC: 5E to 200E – 50 kA I.R. Sym

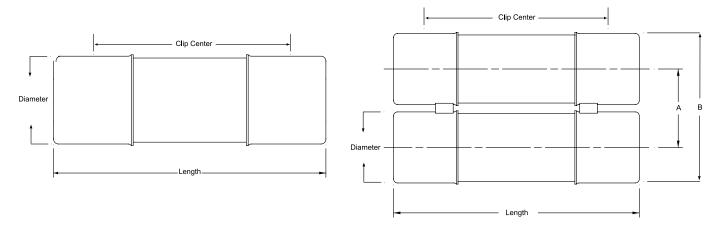
9F62 Series Type EJO-1: (Indoors and outdoors)							
9F62:	5.5kV – AC: 25A to 450A – 50kA IR Sym						
9F62:	8.3kV – AC: 20A to 250A – 50 kA IR Sym						
9F62:	15.5kV – AC: 20A to 200A – 50 kA IR Sym						



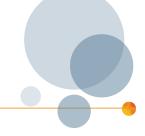
- **9F60 Series Type EJO-1:** (Indoors and outdoors) 9F60: 2.75kV – AC: 1E to 200E – 50kA IR Sym
- 9F60: 5.5kV AC: 0.5E to 200E 50kA IR Sym
- 9F60: 8.25kV AC: 0.5E to 200E 50kA IR Sym
- 9F60: 15.5kV AC: 0.5E to 100E 50kA to 120kA IR Sym
- 9F60: 25.8kV AC: 0.5E to 100E 25kA to 35kA IR Sym
- 9F60: 38kV 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 seriesA = 3.31 inches (84mm)9F seriesB = 6.16 inches (160mm)Amp-Trap series A = 3.63 inches (92 mm)Amp-Trap series B = 6.63 inches (169 mm)



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25.8kV Ferrule mounted fuses:

25.8kV Power Distribution fuses – 9F60 Series, E-Rated EJ-1

15" (381 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 (EK0-1)	Fuse Disconnect Indoor (EK-3)	Fuse Disconnect Outdoor (EK0-3)
9F60CMJ905	0.5E	1									
9F60CMJ001	1E		Yes	2 (50.8)	17.20 (437)	25.8 kV	35kA*	-	N/A	-	N/A
9F60CMJ002	2E										

* These fuses were designed and originally tested at a higher maximum interrupting rating value. Consult factory for further information.

25.8kV Power Distribution fuses – 9F60 Series, E-Rated EJO-1

21" (533 mm) Clip Centers - Suitable for use indoors or outdoors

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Catalog No.	Amp	No. of Indicating	Diameter	Length	Мах	Max IR	Fuse Support	Fuse Support	Fuse Disconnect	Fuse Disconnect		
	Rating	Barrels	indicating	Inches (mm)	Inches (mm)	Voltage	RMS Sym	Indoor (EK-1)	Outdoor (EK0-1)	Indoor (EK-3)	Outdoor (EK0-3)	
9F60DNJ905	0.5E	1 Yes										
9F60DNJ001	1E		Yes	2 (50.8)	23.18 (589)	25.8 kV	35kA*	9F61AHM201	9F61CHM209	9F61AHM205	9F61CHM210	
9F60DNJ002	2E											
9F60DNJ003	3E											
9F60DNJ005	5E											
9F60DNJ007	7E											
9F60DNJ010	10E											
9F60FNJ015	15E		1 Yes	3 (76.2)	24.81 (630)	25.8 kV	25kA	9F61AHM301	9F61CHM309	9F61AHM305	9F61CHM310	
9F60FNJ020	20E											
9F60FNJ025	25E	1										
9F60FNJ030	30E											
9F60FNJ040	40E											
9F60FNJ050	50E											
9F60HNJ065	65E	2										
9F60HNJ080	80E		Yes	3 (76.2)	24.81 (630)	25.8 kV	25kA	9F61AHM401	9F61CHM409	9F61AHM405	9F61CHM410	
9F60HNJ100	100E											

