

Motor Protection

Amp-Trap® and 9F60 Series

2.4kV, 2.54kV, 4.8kV, 5.08kV and 7.2kV Ferrule mounted fuses:

Mersen R-Rated fuses are current-limiting, high interrupting rating fuses intended for the short circuit protection of medium voltage motors and motor controllers. R-Rated fuses are back-up fuses that have a minimum interrupting rating, and must be coordinated with overload relays in combination motor starters. The motor starter manufacturer generally specifies the R-Rated fuse size. These fuses come with a 3 (size D) or 4 (size E) inch diameter barrels with ferrules and are mounted in spring reinforced clips.

Features/Benefits:

- The Amp-Trap and 9F60 R-Rated fuses are UL Recognized.
- Ferrule mounting for standard clips and interchangeability with other brands of fuses.
- Current-limiting for superior equipment protection.
- Metal embossed catalog number and manufacturing date for lasting identification.
- Hookeye for non load-break isolation by hookstick
 - On the 4.8kV an optional hookeye mounted in the factory is available.
 - On all other 3" barrel if a hookeye is required, use the operating eye 9F61AAW612. (See page E58)
- Blown-fuse indicator to give positive identification of open fuse.
 - Amp trap: 3" Barrel 2 lb tripped force - 0.50 Inch
 - 9F60: 0.125 lb tripped force – 0.20 Inch

Highlights:

- R-Rated
- UL recognized

Applications:

- Short circuit protection of medium voltage motors and motor controllers.

Definitions:

R-Rating: R-Rated fuses are back-up fuses that operate as follows (Per ANSI C37.46-2000): An R-Rated fuse will melt in the range of 15 to 35 seconds at a value of current equal to 100 times the "R" rating.

Back-up Current-Limiting Fuses: A back-up current-limiting fuse is a fuse that can interrupt any current between its rated minimum interrupting current and its maximum interrupting current. Back-up fuses are not designed or intended to open under overload conditions.

Continuous Ampere Rating at 40°C: The continuous amp rating defines the thermal capability of the fuse per ANSI C37.46 and should not be the sole factor in fuse selection.



Ratings:

Amp-Trap A240R

Volts : 2.4kV AC
Amps : 1 to 36R
IR : 65kA Sym

A480R

Volts : 4.8kV AC
Amps : 2 to 36R
IR : 50kA Sym

A072F

Volts : 7.2kV AC
Amps : 2 to 24R
IR : 50kA Sym

9F60 SERIES TYPE EJ-2

9F60

Volts : 2.54kV AC
: 5.08kV ac

Amps : 2 to 36R
IR : 50kA Sym

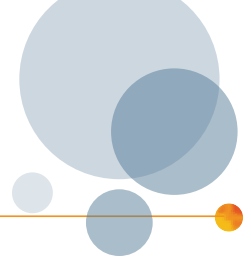
Approvals:

- Amp-Trap: UL File E93367
- 9F60: UL File E191980



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7.2kV Ferrule Mounted Fuses:

7.2kV R-Rated Amp-Trap Series

12.5" (317 mm) Clip Centers – Barrel diameter size D (3")



| Catalog No. | Size | Continuous Amp rating at 40°C | Minimum Interrupting Rating RMS Amp | No of Barrels | Fig. | Indicating | Dimension L Inches (mm) | 1 Phase Interrupting rating | |
|----------------|------|-------------------------------|-------------------------------------|---------------|------|------------|-------------------------|---|-----------------------------------|
| | | | | | | | | UL Component Recognition Max IR RMS Sym | Max Voltage Tested Max IR RMS Sym |
| A072F1D0R0-2R | 2R | 70 | 190 | 1 | A | Yes | 15.88 (403) | 50kA at 7.2kV | 50kA at 7.7kV |
| A072F1D0R0-3R | 3R | 100 | 225 | | | | | | |
| A072F1D0R0-4R | 4R | 130 | 330 | | | | | | |
| A072F1D0R0-5R | 5R | 150 | 400 | | | | | | |
| A072F1D0R0-6R | 6R | 170 | 500 | | | | | | |
| A072F1D0R0-9R | 9R | 200 | 740 | | | | | | |
| A072F1D0R0-12R | 12R | 230 | 955 | | | | | | |
| A072F2D0R0-18R | 18R | 390 | 1440 | 2 | B | | | | |
| A072F2D0R0-24R | 24R | 450 | 1910 | | | | | | |

Indicator Flush with Surface
2 Lb. Force (Tripped)

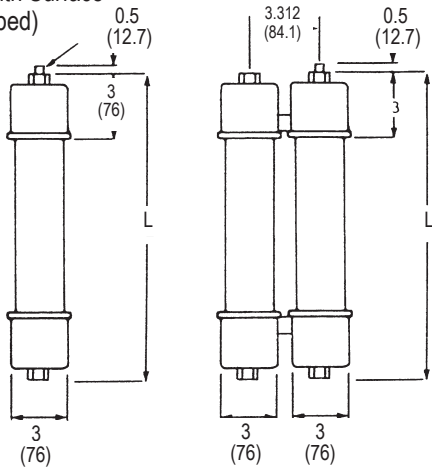


Figure A

Figure B