

A240R/A480R/A072F/A072B

MED. VOLTAGE FUSES/R-RATED



R-RATED MOTOR STARTER FUSES

Amp-trap® 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. Amp-trap® R-rated fuses are rated 2R to 36R, at 2.4, 4.8, and 7.2kV. 4.8 and 7.2kV fuses are UL Recognized. The 4.8kV (A480R) is available with hookey tab. The 7.2kV (A072F) series has the same dimensions as the 4.8kV (A480R), allowing smaller 7.2kV equipment or 4.8kV upgrades, and is available as a bolt in version.

Features/Benefits

- **Ferrule mounting** for standard clips and interchangeability with other brands of fuses
- **7.2kV series** has the same dimensions as 4.8kV fuses, allowing compact, higher voltage rated designs
- **7.2kV bolt-in design** is available for improved design flexibility
- **Optional hookey on 4.8kV** for non load-break isolation by hookstick

HIGHLIGHTS:

- R-Rated
- All voltage ratings UL Recognized

APPLICATIONS:

- Short circuit protection of medium voltage motors and motor controllers



DEFINITIONS:

R-Rating:

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 type Current-Limiting Fuse:

A current limiting fuse which can interrupt any current between it’s rated minimum interrupting current and it’s maximum interrupting current. Backup fuses are not designed or intended to open under overload conditions.

Ratings

- **A240R**
AC: 1R to 36R
2750V, 65kA I.R. Sym.
- **A480R**
AC: 2R to 36R
5500V, 63kA I.R. Sym.
- **A072F, A072B**
AC: 2R to 24R

Approvals

- UL Recognized Component A240R @ 2600V, 65kA, Sym.
A480R @ 5080V, 50kA, Sym.
A072 @ 7200V 50kA, Sym.
UL File #E93367

Spring-Reinforced Clips

228-700-530 (One pair of clips)
For 3” Diameter, 2 barrels max.

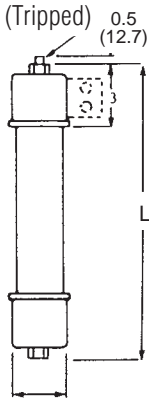
A480R

MEDIUM VOLTAGE FUSES/R-RATED

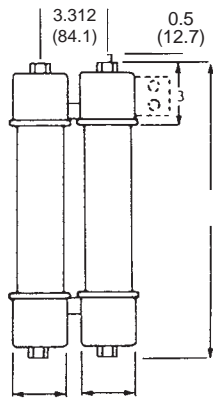
4.8kV Ferrule Style

Blown Fuse Indicator

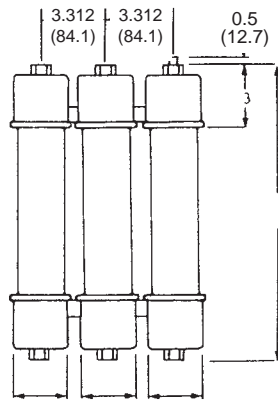
2Lb. Force (Tripped)



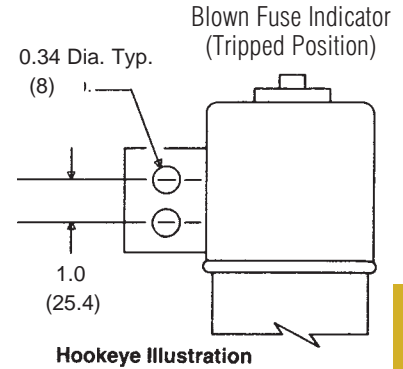
(76)
Figure A



(76) (76)
Figure B



(76) (76) (76)
Figure C



Catalog Numbering System, Ratings, Dimensions, 4.8kV

| FIG. | CATALOG NUMBER | SIZE | CONTINUOUS AMPERE RATING at 40 °C | DIM. L | MINIMUM INTERRUPTING RATING RMS AMPERES | 1 PHASE INTERRUPTING RATING | | | |
|-------------------------------|----------------|----------|-----------------------------------|----------------|---|-----------------------------|--------------|----------------|--------------|
| | | | | | | UL COMPONENT RECOGNITION | | MAXIMUM TESTED | |
| | STANDARD | RMS Asym | RMS Sym | RMS Asym | RMS Sym | | | | |
| A480R-1 | | | | | | | | | |
| A | A480R2R-1 | 2R | 70 | 15-7/8 (403mm) | 190 | 80kA @ 5080V | 50kA @ 5080V | 100kA @ 5500V | 63kA @ 5500V |
| | A480R3R-1 | 3R | 100 | | 225 | | | | |
| | A480R4R-1 | 4R | 130 | | 330 | | | | |
| | A480R5R-1 | 5R | 150 | | 400 | | | | |
| | A480R6R-1 | 6R | 170 | | 500 | | | | |
| | A480R9R-1 | 9R | 200 | | 740 | | | | |
| B | A480R12R-1 | 12R | 230 | 955 | 1440 | 1910 | 2810 | | |
| | A480R18R-1 | 18R | 390 | | | | | | |
| C | A480R24R-1 | 24R | 450 | | | | | | |
| | A480R36R-1 | 36R** | 650 | | | | | | |
| A480R-1HE with hookeye | | | | | | | | | |
| A | A480R2R-1HE | 2R | 70 | 16-1/8 (410mm) | 190 | 80kA @ 5080V | 50kA @ 5080V | 100kA @ 5500V | 63kA @ 5500V |
| | A480R3R-1HE | 3R | 100 | | 225 | | | | |
| | A480R4R-1HE | 4R | 130 | | 330 | | | | |
| | A480R5R-1HE | 5R | 150 | | 400 | | | | |
| | A480R6R-1HE | 6R | 170 | | 500 | | | | |
| | A480R9R-1HE | 9R | 200 | | 740 | | | | |
| B | A480R12R-1HE | 12R | 230 | 955 | 1440 | 1910 | | | |
| | A480R18R-1HE | 18R | 390 | | | | | | |
| | A480R24R-1HE | 24R | 450 | | | | | | |
| | | | | | | | | | |

* This rating defines the fuse's long-term thermal capability per ANSI C37 46-1981 and should not be the sole factor for selecting a specific R rating.

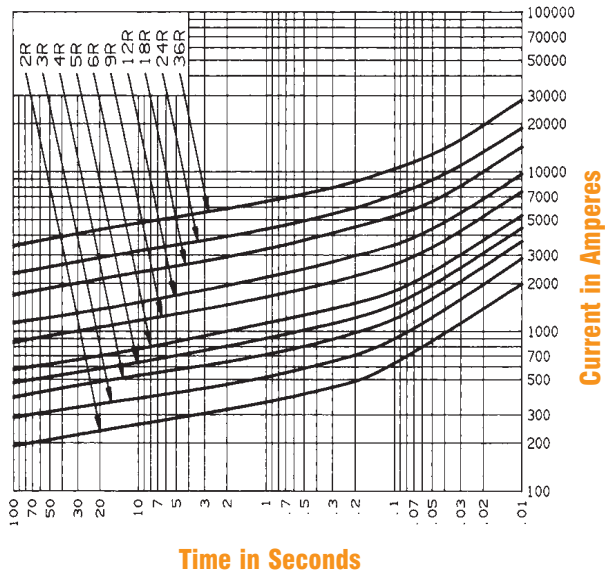
** Not recommended for use in fuse clips which grasp only one barrel.

A480R

MEDIUM VOLTAGE FUSES/R-RATED

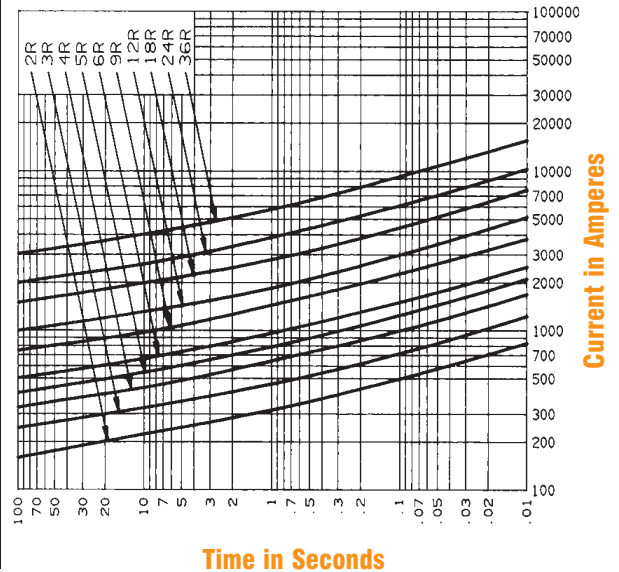
Total Clearing Time – Current Data, 4.8kV Fuses

A480R-1, A480R-1HE, 4800 Volts



Minimum Melting Time – Current Data, 4.8kV Fuses

A480R-1, A480R-1HE, 4800 Volts



A480R-1 and A480R-1HE, 4800 Volts

Peak Let-Through Current Data, R-Rated Fuses

