

American Fuses

R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B



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 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. The A072B is a bolt-in 7.2kV fuse.

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 equipment designs.
- **7.2kV** bolt-in design for improved design flexibility.
- Optional hookey on 4.8 kV for non load-break isolation by hookstick.

Ratings

A240R

AC: 2R to 36R
2750V, 45kA I.R. Sym.

A480R

AC: 2R to 36R
5500V, 63kA I.R. Sym.

A072F - A072B

AC: 2R to 24R
7200V, 50kA I.R. Sym.

Back-up type Current-Limiting Fuse:

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

Highlights

- R-Rated
- UL Recognized in 4.8 and 7,2 kV ratings



Applications

Short circuit protection of medium voltage motors and motor controllers

Approvals

- Ferraz Shawmut certified
 - A240R @ 2750V, 45kA Sym.
- UL Recognized Component
 - A480R @ 5080V, 50kA, Sym.
 - A072F @ 7200V, 50kA, Sym.
 - A072B @ 7200V, 50kA, Sym.
- UL file # E93367

Spring-reinforced clips

- 228-700-530 (one pair of clips) For 3" diameter, 2 barrels max.

Medium voltage fuses

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2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A240R 2.4kV Ferrule Style

Indicator flush with surface
2 lb. Force (Tripped)

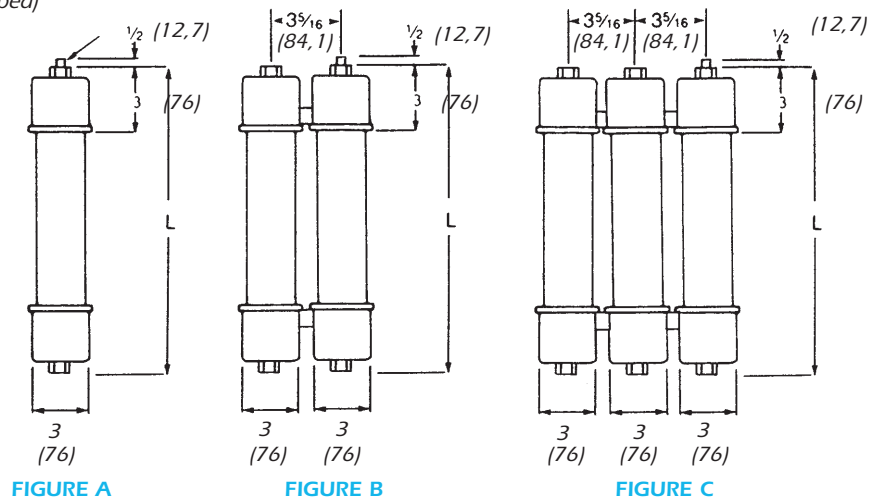


FIGURE A

FIGURE B

FIGURE C

Catalog and Reference Numbers, Ratings, Dimensions, 2.4kV

| Fig. | Catalog Number | Reference Number | Size | Continuous Ampere Rating at 40° | Dim. L | Minimum Interrupting Rating Rms Amperes | Maximum Tested | |
|--------------|----------------|------------------|-------|---------------------------------|-------------------|---|--------------------|--------------------|
| | | | | | | | RMS Asym | RMS Sym |
| A240R | | | | | | | | |
| A | A240R2R | J201557 | 2R | 70 | 10-7/8 (276mm) | 170 | 70kA @ 2750V | 45kA @ 2750V |
| | A240R3R | F211812 | 3R | 100 | | 250 | | |
| | A240R4R | E212846 | 4R | 130 | | 340 | | |
| | A240R6R | E213858 | 6R | 170 | | 500 | | |
| | A240R9R | P214373 | 9R | 200 | | 760 | | |
| B | A24OR12R | R219504 | 12R | 230 | 1000 | | | |
| | A24OR18R | N221962 | 18R | 390 | 1500 | | | |
| C | A24OR24R | L223225 | 24R | 450 | 1950 | | | |
| | A24OR36R | W211297 | 36R** | 650 | 2900 | | | |

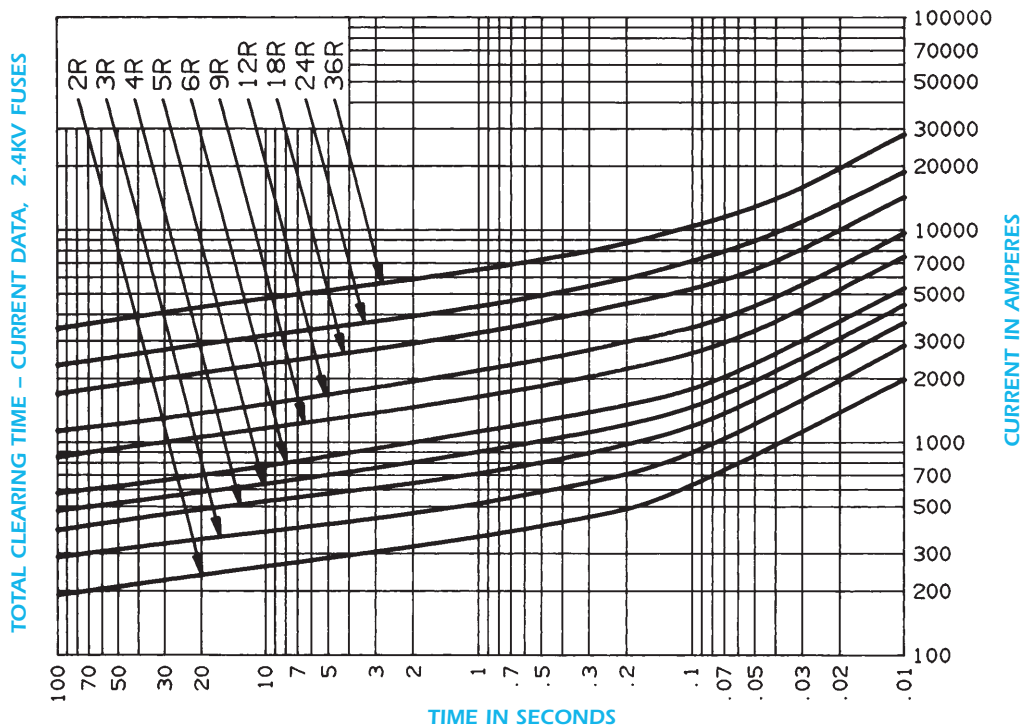
* This rating defines the fuse's long-term thermal capability per ANSI C37 46-1981 and should not be the sole factor for selecting a specific R-rating.

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

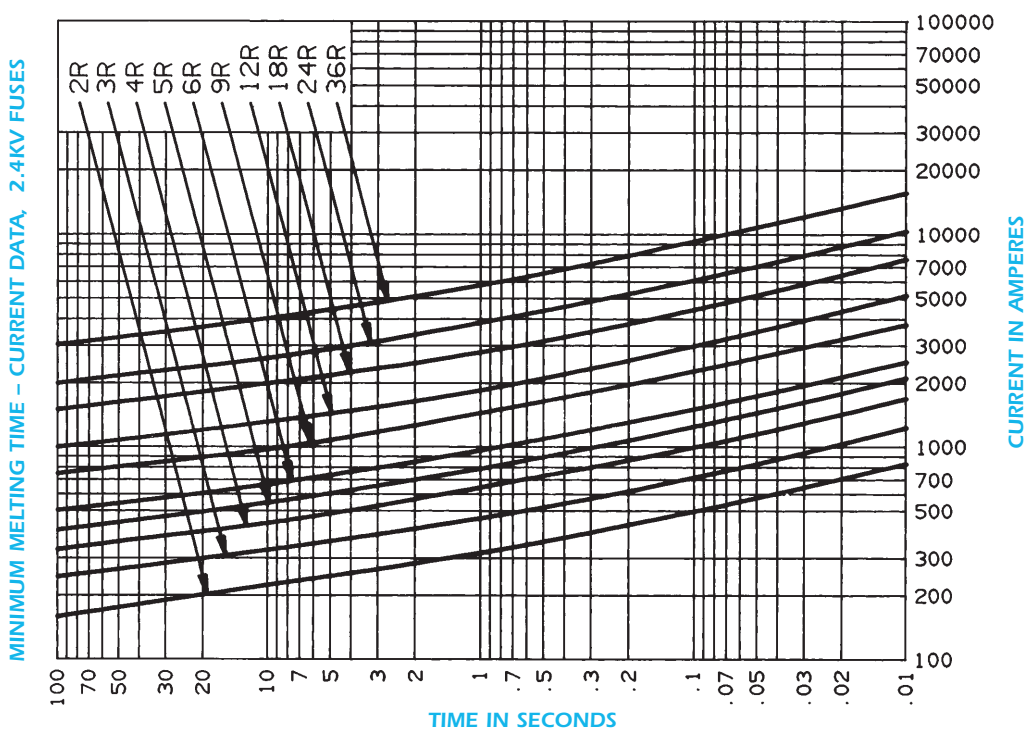
American Fuses
R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A240R2R to 36R, 2400 Volts



A240R2R to 36R, 2400 Volts



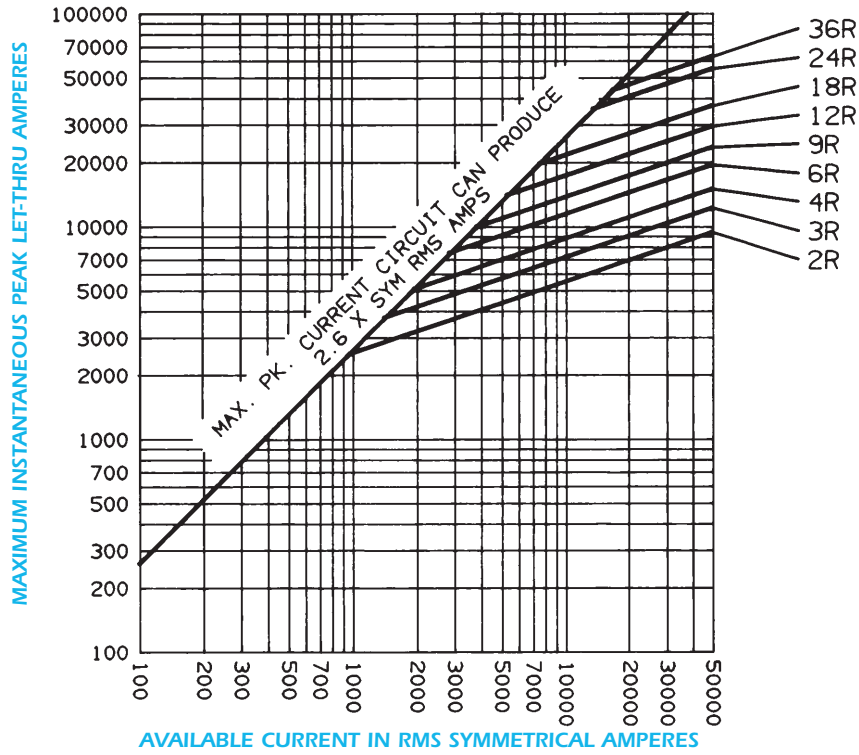
Medium voltage fuses

American Fuses

R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

**A240R2R to 36R, 2400 Volts
Peak Let-Through Current Data, R-Rated Fuses**



American Fuses R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A480R 4.8kV Ferrule Style

Indicator flush with surface
2 lb. Force (Tripped)

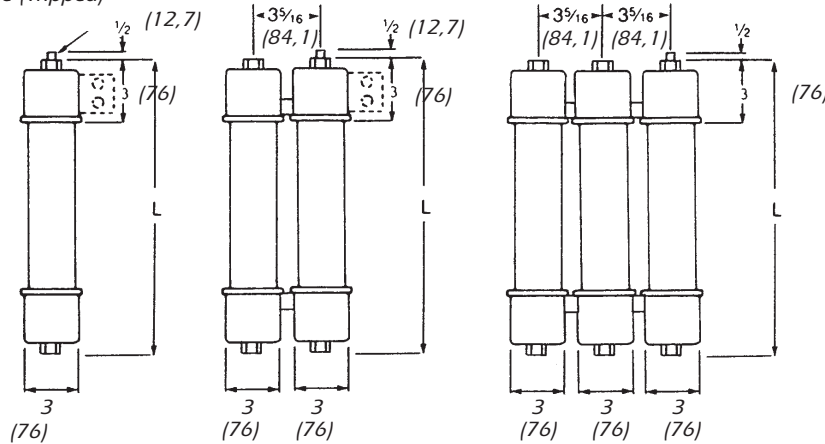
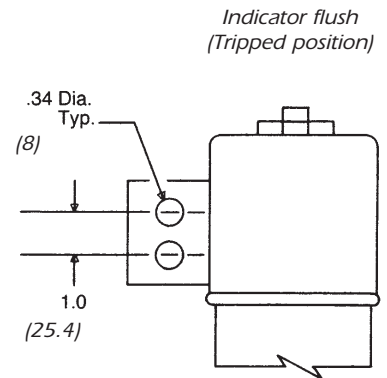


FIGURE A

FIGURE B

FIGURE C



Hookeye illustration

Catalog and Reference Numbers, Ratings, Dimensions, 4.8kV

| Fig. | Catalog Number | Reference Number | Size | Continuous Ampere Rating at 40° | Dim. L | Minimum Interrupting Rating Rms Amperes | 1 Phase Interrupting Rating | | | |
|------|----------------|------------------|------|---------------------------------|--------|---|-----------------------------|---------|----------------|---------|
| | | | | | | | UL Component Recognition | | Maximum Tested | |
| | | | | | | | RMS Asym | RMS Sym | RMS Asym | RMS Sym |

A480R-1

| | | | | | | | | | | | |
|---|------------|---------|-------|-----|-------------------|-----|--------------------|--------------------|---------------------|--------------------|-----|
| A | A480R2R-1 | P221963 | a2R | 70 | 15-7/8 (403mm) | 190 | 80kA @ 5080V | 50kA @ 5080V | 100kA @ 5500V | 63kA @ 5500V | |
| | A480R3R-1 | K201558 | 3R | 100 | | | | | | | 225 |
| | A480R4R-1 | G211813 | 4R | 130 | | | | | | | 330 |
| | A480R5R-1 | Q213362 | 5R | 150 | | | | | | | 400 |
| | A480R6R-1 | Q214374 | 6R | 170 | | | | | | | 500 |
| | A480R9R-1 | W215897 | 9R | 200 | | | | | | | 740 |
| B | A480R12R-1 | N214878 | 12R | 230 | 955 | | | | | | |
| | A480R18R-1 | Z216406 | 18R | 390 | 1440 | | | | | | |
| C | A480R24R-1 | H218461 | 24R | 450 | 1910 | | | | | | |
| | A480R36R-1 | C201045 | 36R** | 650 | 2810 | | | | | | |

A480R-1HE with hookeye

| | | | | | | | | | | | |
|---|--------------|---------|-----|-----|-------------------|-----|--------------------|--------------------|---------------------|--------------------|-----|
| A | A480R2R-1HE | X222706 | 2R | 70 | 16-1/8 (410mm) | 190 | 80kA @ 5080V | 50kA @ 5080V | 100kA @ 5500V | 63kA @ 5500V | |
| | A480R3R-1HE | S203428 | 3R | 100 | | | | | | | 225 |
| | A480R4R-1HE | R212328 | 4R | 130 | | | | | | | 330 |
| | A480R5R-1HE | F213859 | 5R | 150 | | | | | | | 400 |
| | A480R6R-1HE | P214879 | 6R | 170 | | | | | | | 500 |
| | A480R9R-1HE | A216407 | 9R | 200 | | | | | | | 740 |
| B | A480R12R-1HE | S215388 | 12R | 230 | 955 | | | | | | |
| | A480R18R-1HE | G216919 | 18R | 390 | 1440 | | | | | | |
| | A480R24R-1HE | A218983 | 24R | 450 | 1910 | | | | | | |

* 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.

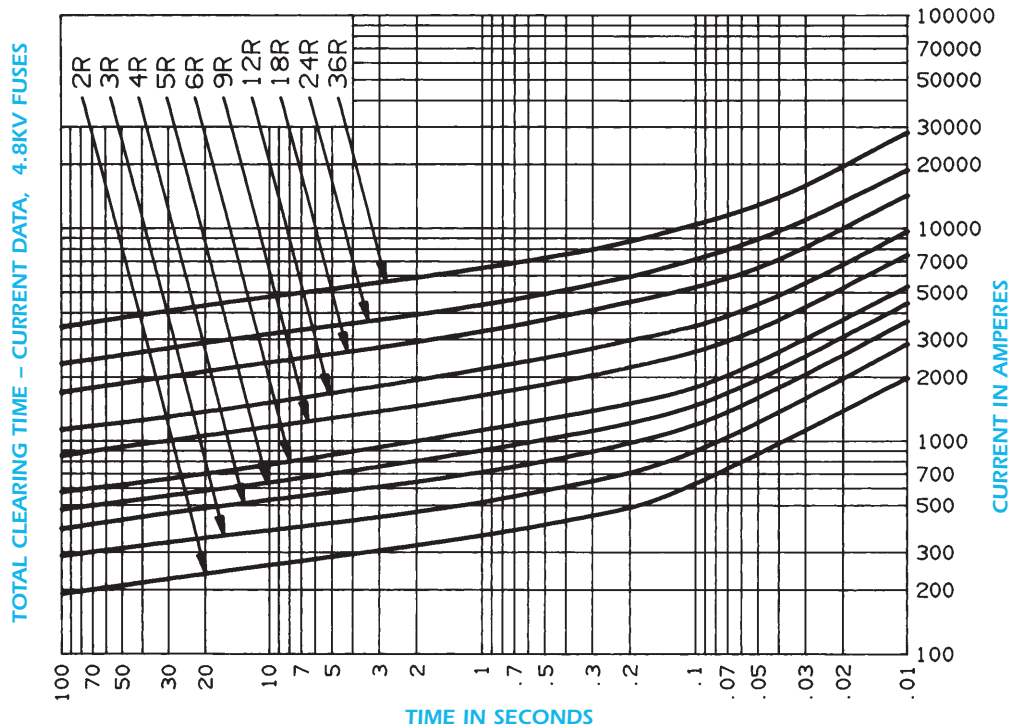
Medium voltage fuses

American Fuses

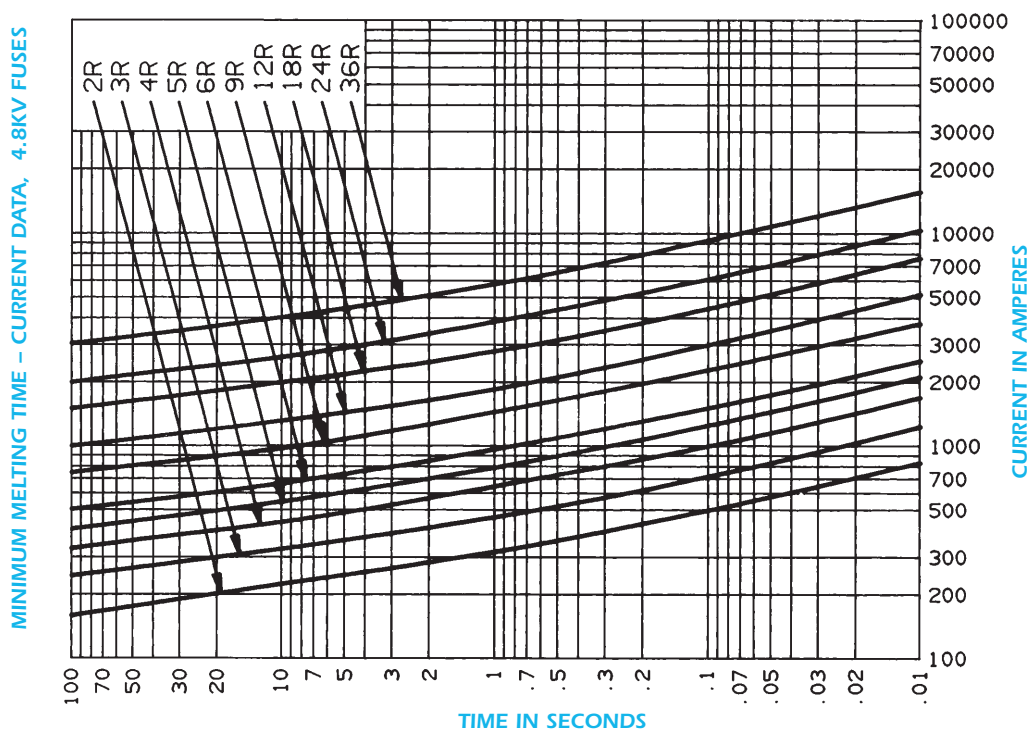
R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A480R-1, and A480R-1HE, 4800 Volts



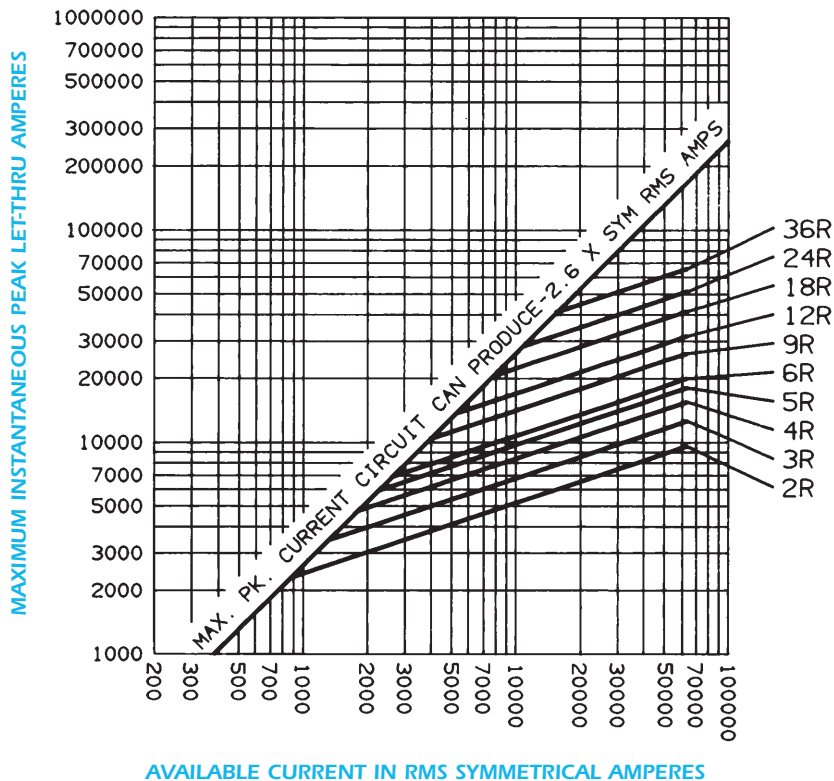
A480R-1, and A480R-1HE, 4800 Volts



American Fuses
R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A480R-1 and A480R-1HE, 4800 Volts Peak Let-Thru Current Data, R-Rated Fuses



Medium voltage fuses

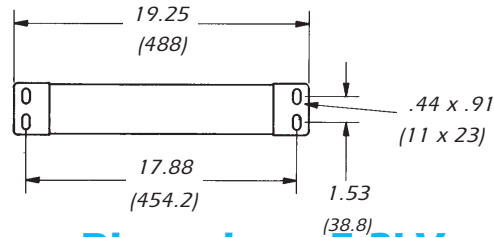
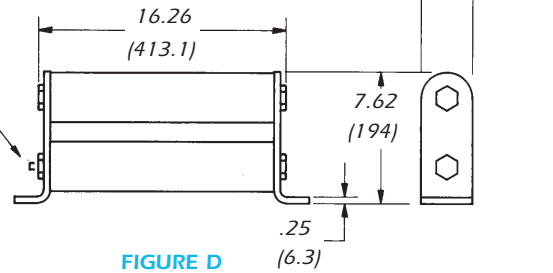
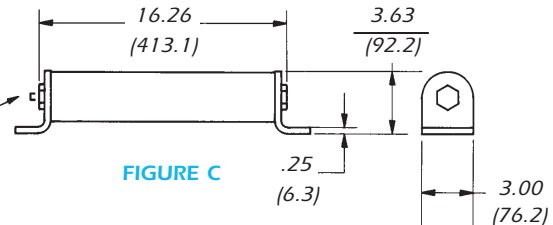
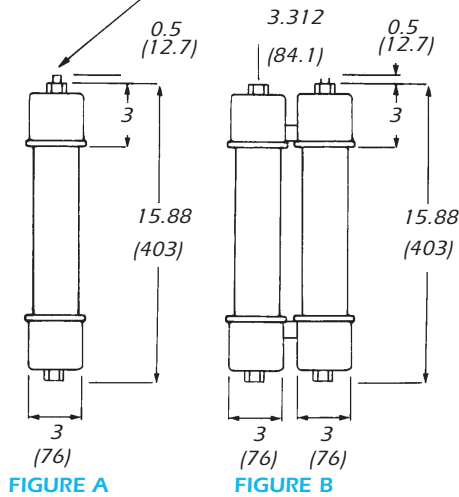
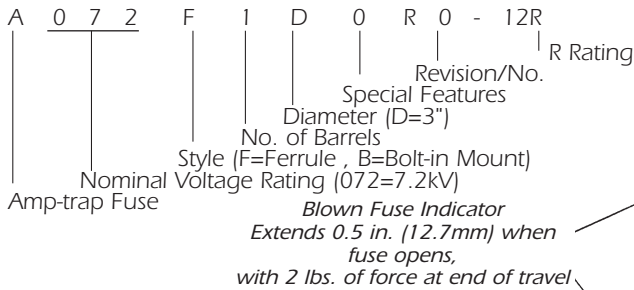
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2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

7.2kV Ferrule & Bolt-in Types

CATALOG NUMBERING SYSTEM



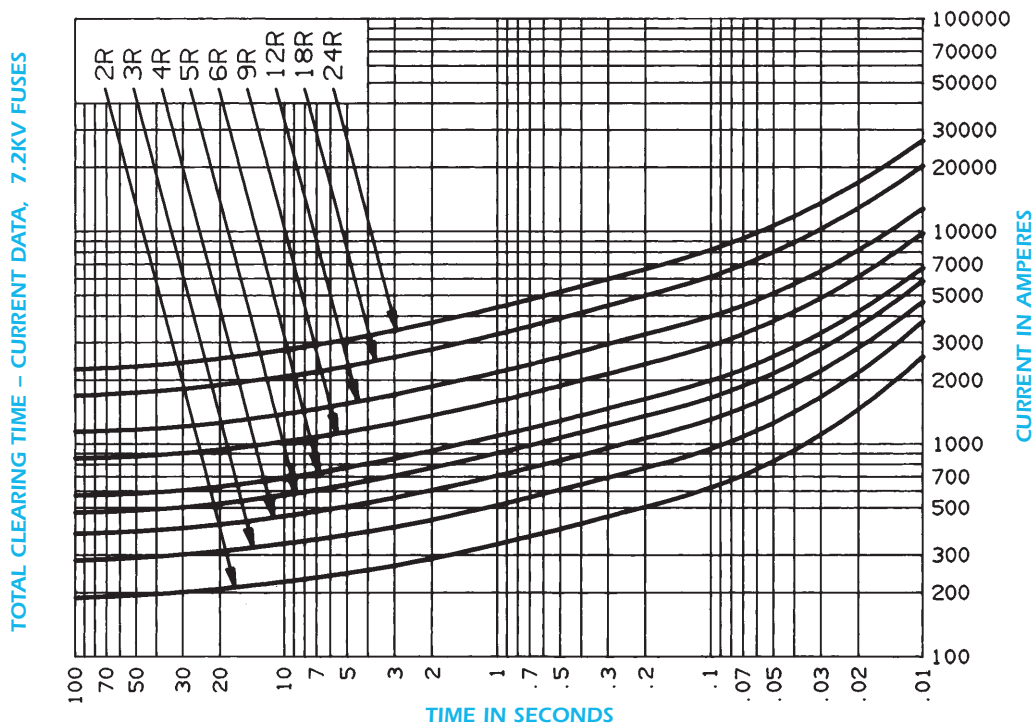
Reference and Catalog Numbers, Ratings, Dimensions, 7.2kV

| Figure | Catalog Number | Reference Number | Rating | Allowable Continuous Ampere Rating at 40°C | Minimum Interrupting Rating RMS Amperes | 1 Phase Interrupting Rating UL Component Recognition | |
|---------------------|----------------|------------------|--------|--|---|--|--------------|
| | | | | | | RMS Asym. | RMS Sym. |
| Ferrule Type | | | | | | | |
| A | A072F1DORO-2R | M214877 | 2R | 70 | 190 | 80kA @ 7200V | 50kA @ 7200V |
| | A072F1DORO-3R | R215387 | 3R | 100 | 225 | | |
| | A072F1DORO-4R | T215895 | 4R | 130 | 330 | | |
| | A072F1DORO-5R | Y216405 | 5R | 150 | 400 | | |
| | A072F1DORO-6R | F216918 | 6R | 170 | 500 | | |
| | A072F1DORO-9R | T217436 | 9R | 200 | 740 | | |
| B | A072F1DORO-12R | N214372 | 12R | 230 | 955 | | |
| | A072F2DORO-18R | G218460 | 18R | 390 | 1440 | | |
| | A072F2DORO-24R | Z218982 | 24R | 450 | 1910 | | |
| Bolt-in Type | | | | | | | |
| C | A072B1DARO-2R | H201556 | 2R | 70 | 190 | 80kA @ 7200V | 50kA @ 7200V |
| | A072B1DARO-3R | R203427 | 3R | 100 | 225 | | |
| | A072B1DARO-4R | V211296 | 4R | 130 | 330 | | |
| | A072B1DARO-5R | E211811 | 5R | 150 | 400 | | |
| | A072B1DARO-6R | P212326 | 6R | 170 | 500 | | |
| | A072B1DARO-9R | D212845 | 9R | 200 | 740 | | |
| D | A072B1DARO-12R | B201044 | 12R | 230 | 955 | | |
| | A072B2DARO-18R | N213360 | 18R | 390 | 1440 | | |
| | A072B2DARO-24R | D213857 | 24R | 450 | 1910 | | |

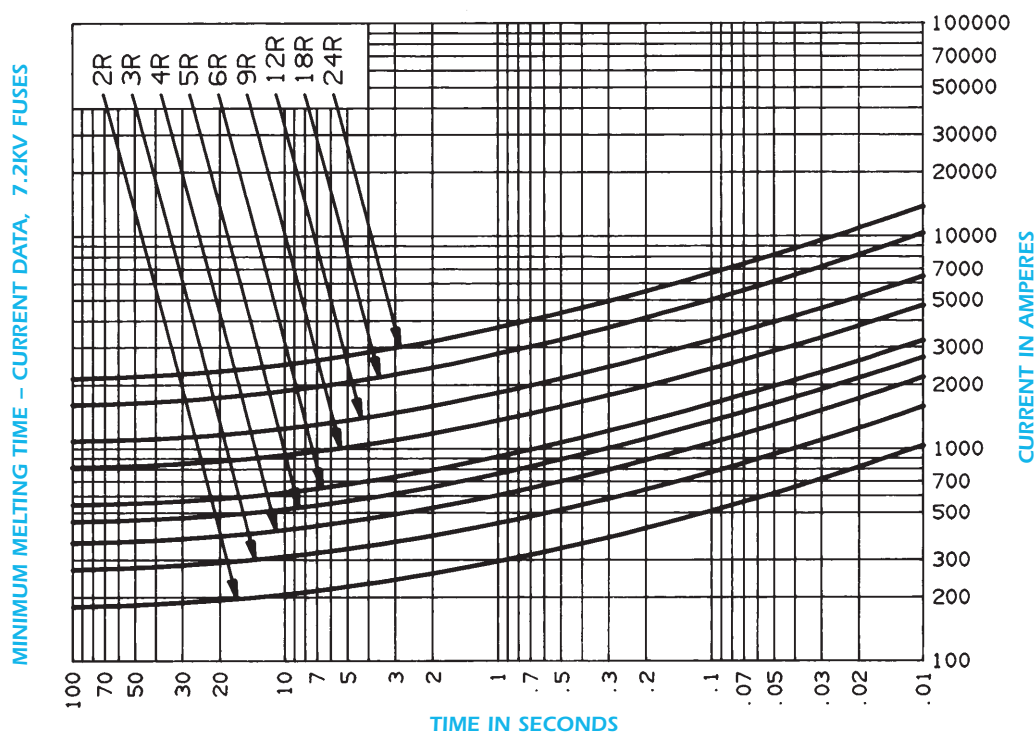
American Fuses
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2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

A072F and A072B, 7200 Volts



A072F2 and A072B, 7200 Volts



Medium voltage fuses

American Fuses

R-Rated

2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

AO72F and A072B2, 7200 Volts Peak Let-Thru Current Data, R-Rated Fuses

