

## 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.

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### A240R 2.4kV Ferrule Style

Indicator flush with surface  
2 lb. Force (Tripped)

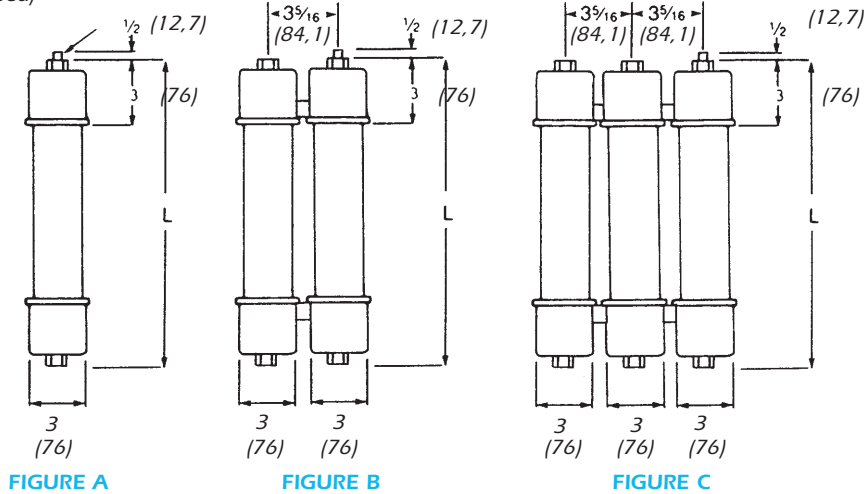


FIGURE A

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
<b>A240R</b>								
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			

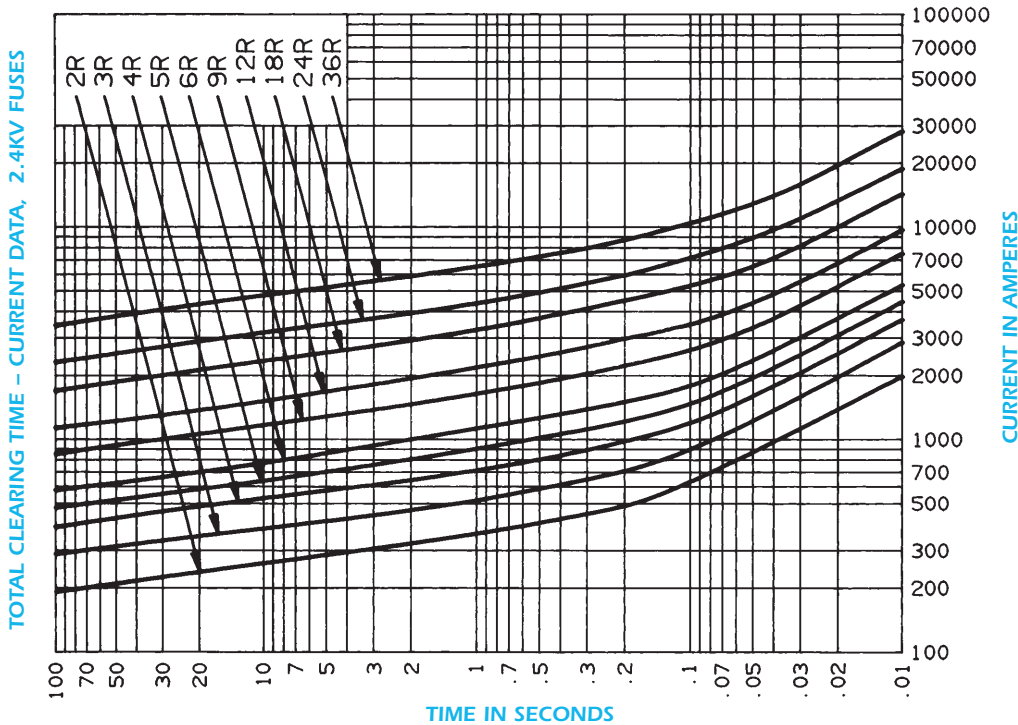
\* This rating defines the fuse's long-term thermal capability per ANSI C37 46-1981 and should not be the sole factor for selecting a specific R-rating.

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

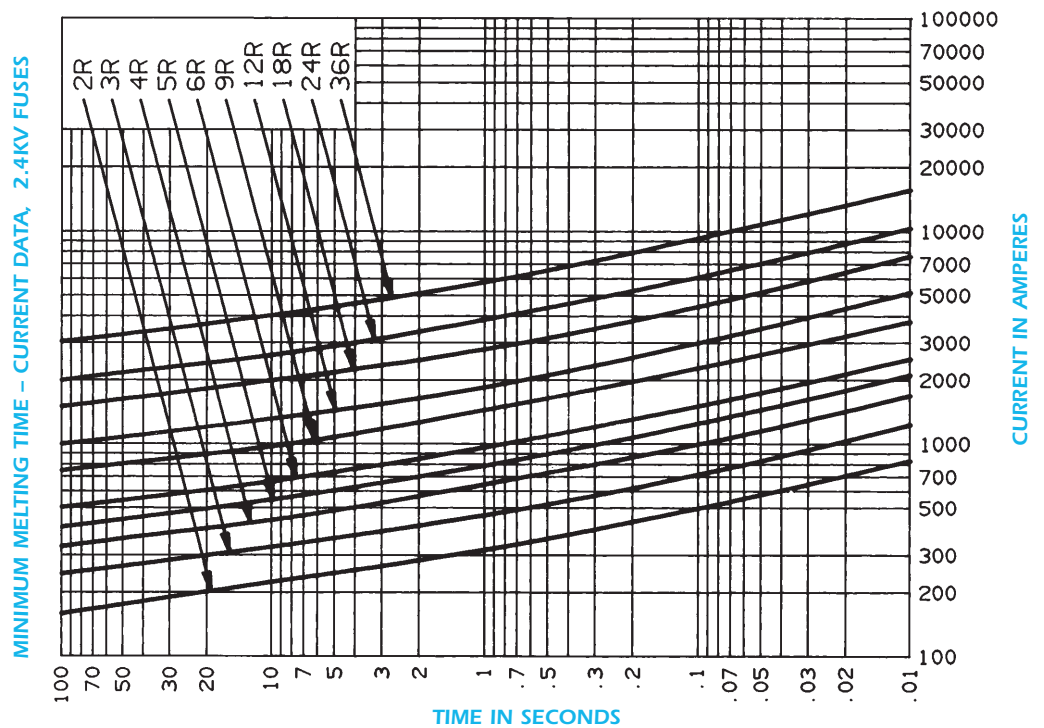
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2.4kV - 4.8kV/7.2kV - A 240R/A 480R/A 072F/A 072B

## A240R2R to 36R, 2400 Volts



## A240R2R to 36R, 2400 Volts



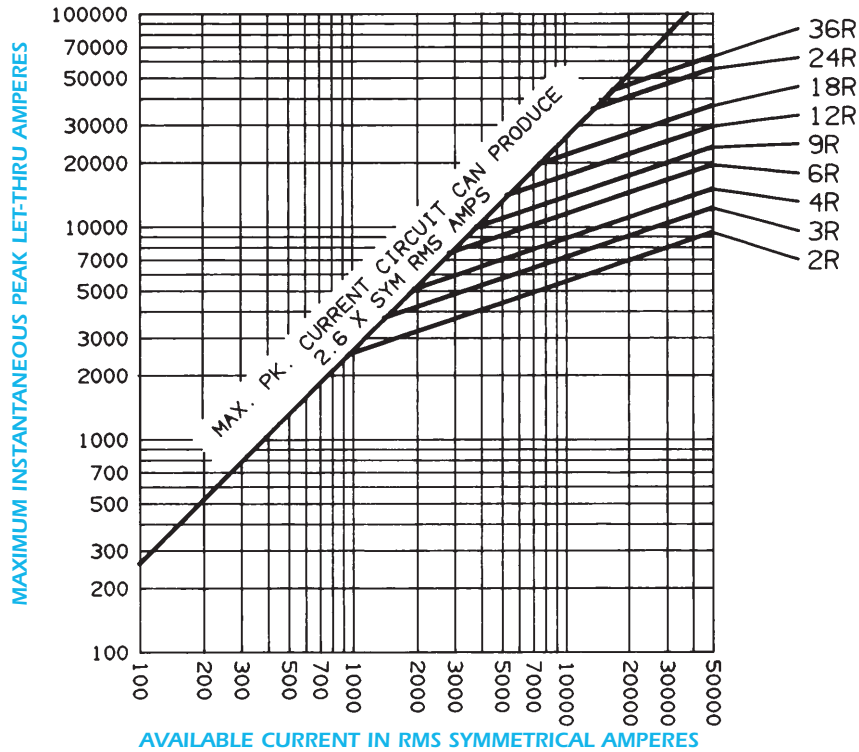
# Medium voltage fuses

## 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)

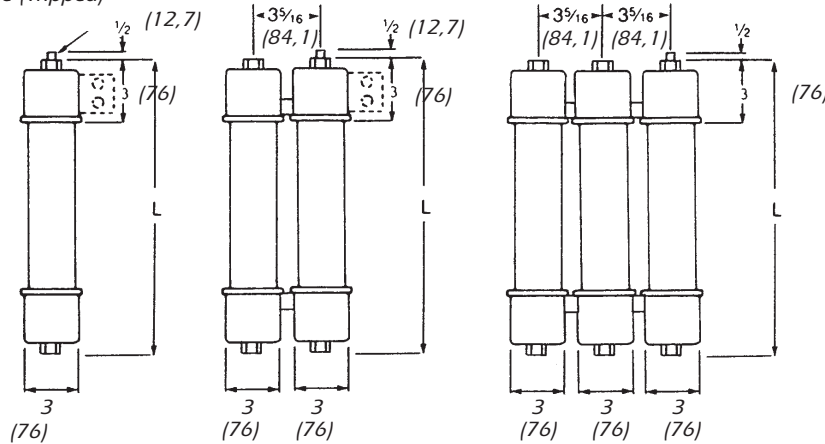
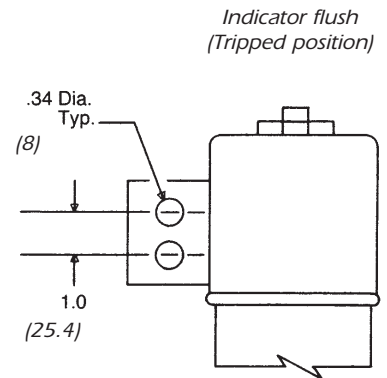


FIGURE A

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.

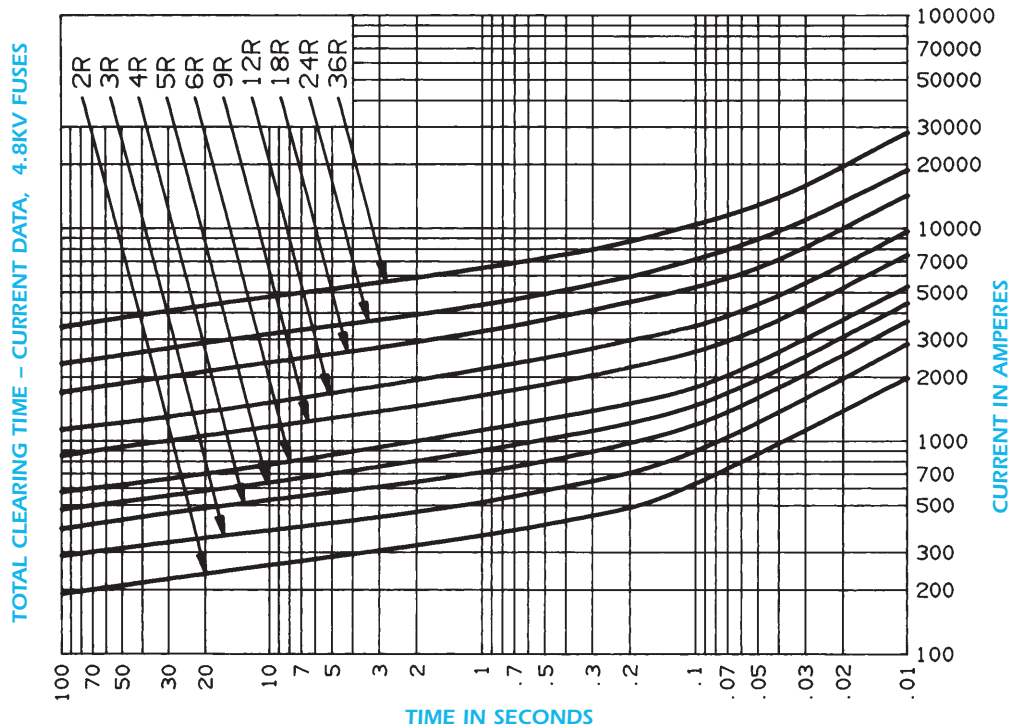
# Medium voltage fuses

## American Fuses

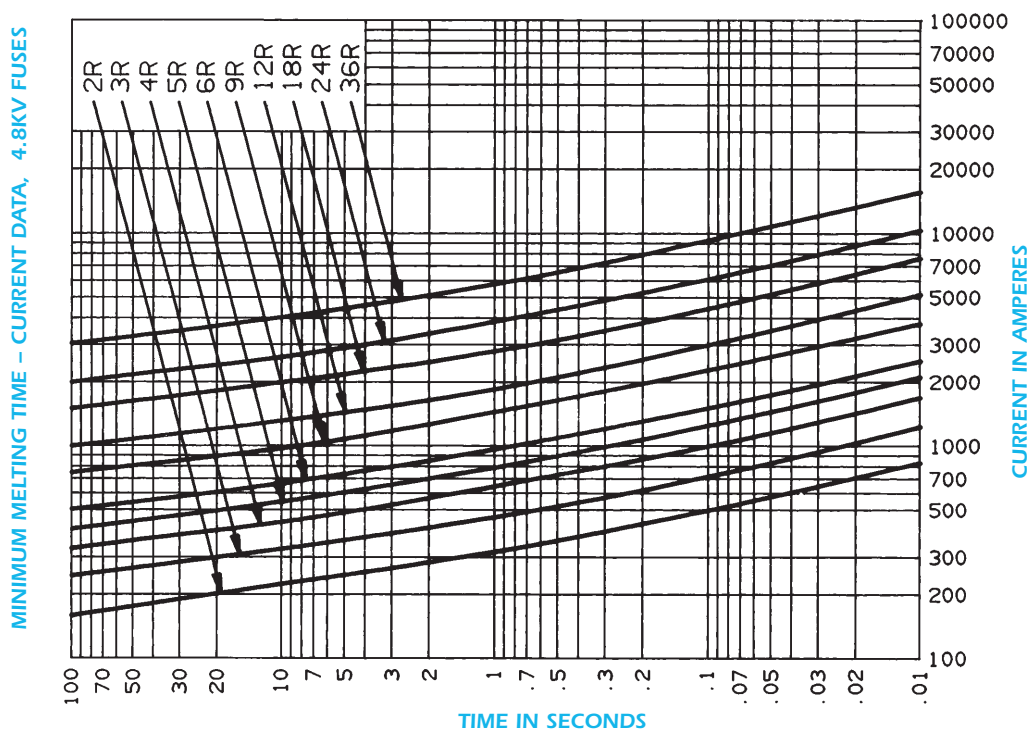
### R-Rated

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

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



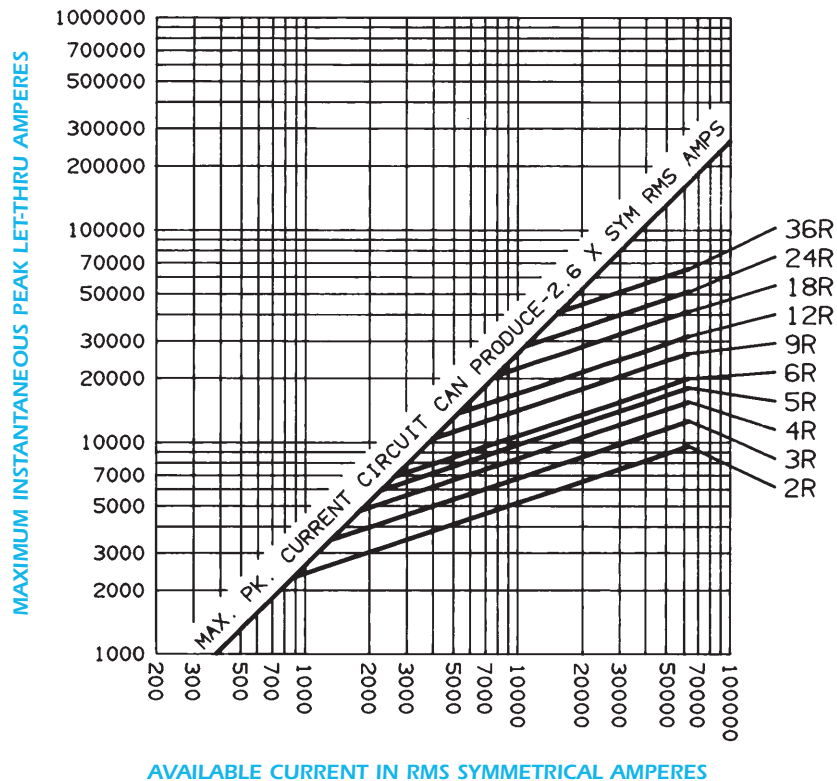
#### A480R-1, and A480R-1HE, 4800 Volts



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

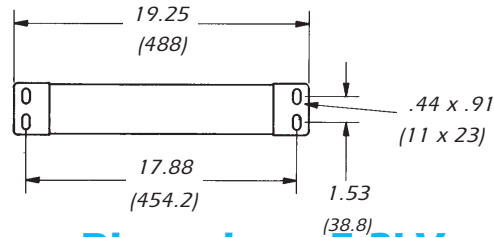
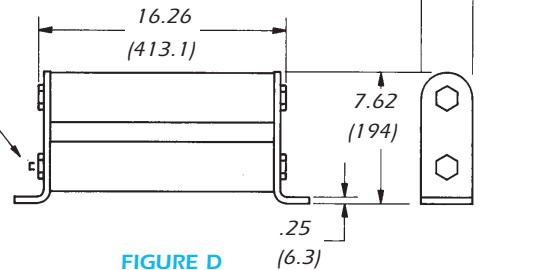
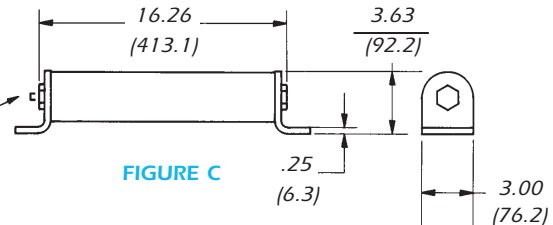
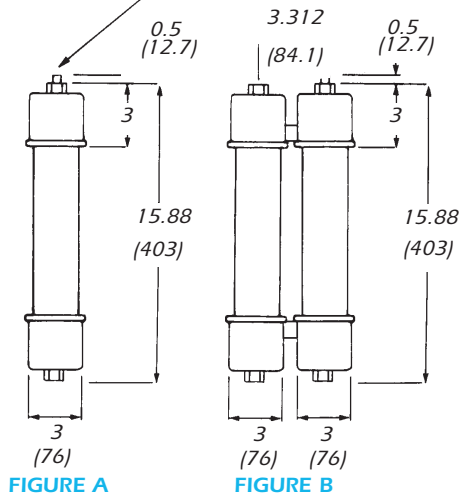
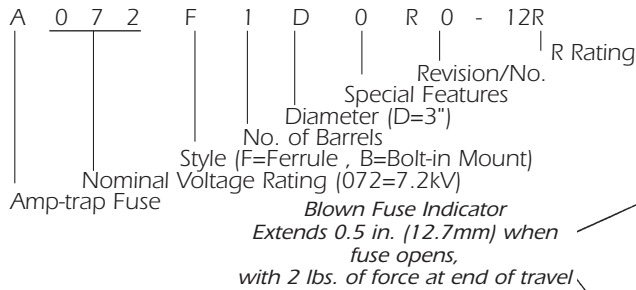
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## 7.2kV Ferrule & Bolt-in Types

### CATALOG NUMBERING SYSTEM



## Reference and Catalog Numbers, Ratings, Dimensions, 7.2kV

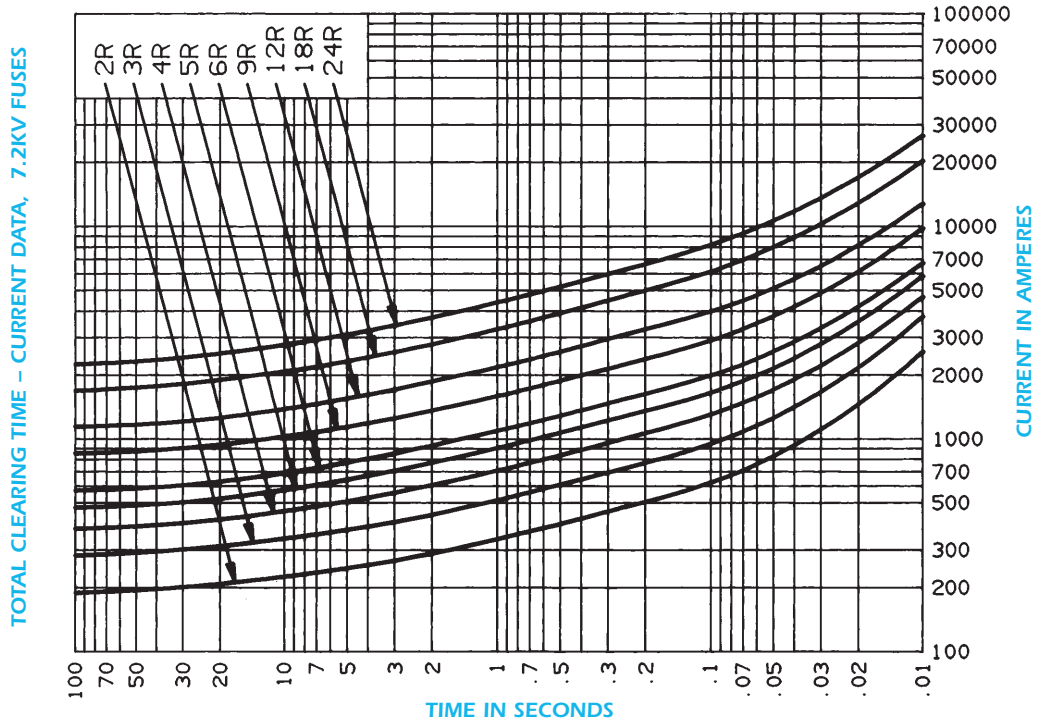
Figure	Catalog Number	Reference Number	Rating	Allowable Continuous Ampere Rating at 40°C	Minimum Interrupting Rating RMS Amperes	1 Phase Interrupting Rating UL Component Recognition	
						RMS Asym.	RMS Sym.
<b>Ferrule Type</b>							
A	A072F1DORO-2R	M214877	2R	70	190	80kA @ 7200V	50kA @ 7200V
	A072F1DORO-3R	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		
<b>Bolt-in Type</b>							
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		



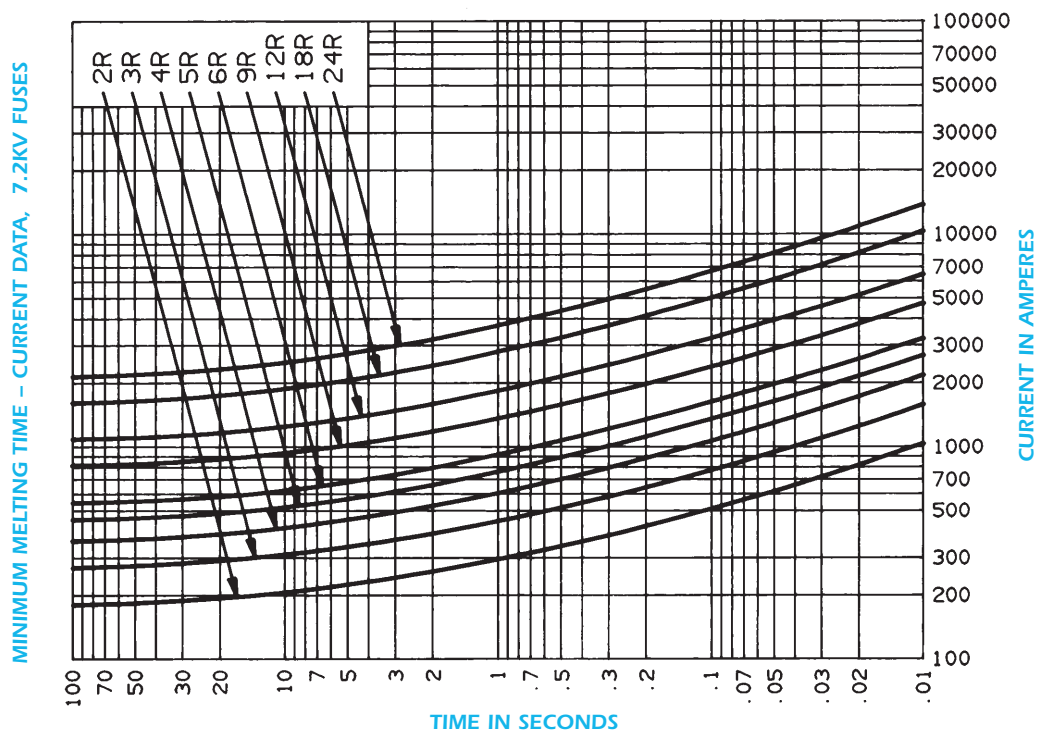
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### A072F and A072B, 7200 Volts



### A072F2 and A072B, 7200 Volts



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

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

