

A240R/A480R/A072F/A072B MED. VOLTAGE FUSES / R-RATED



HIGHLIGHTS:

- R-Rated
- UL Recognized in 4.8 and 7.2kV ratings



APPLICATIONS:

- Short circuit protection of medium voltage motors and motor controllers

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 hookeye 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 available as a bolt in version

E

Features/Benefits

- **Ferrule mounting** for standard clips and interchangeability with other brands of fuses
- **7.2kV A072F series** has the same dimensions as 4.8kV fuses, allowing compact, higher voltage rated designs
- **A072B optional bolt-in design** for improved design flexibility
- **Optional hookeye on A480R** 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.

Approvals

- Ferraz Shawmut Certified A240R @ 2750V, 45kA, Sym.
- UL Recognized Component A480R @ 5080V, 50kA, Sym. A072 @ 7200V, 50kA, Sym.

A240R

MEDIUM VOLTAGE FUSES / R-RATED

2.4kV Ferrule Style

Indicator Flush with Surface
2 Lb. Force (Tripped)

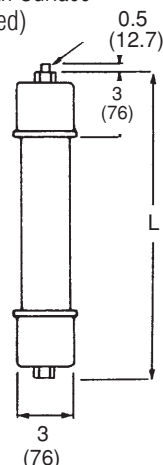


Figure A

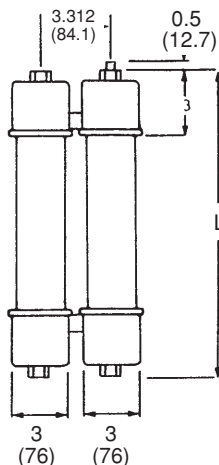


Figure B

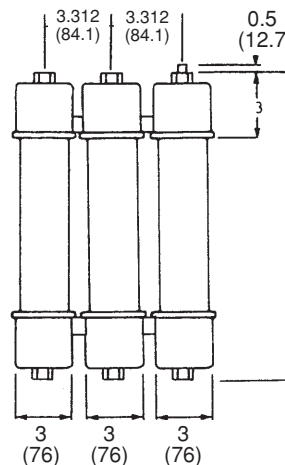


Figure C

Catalog Numbering System, Ratings, Dimensions, 2.4kV

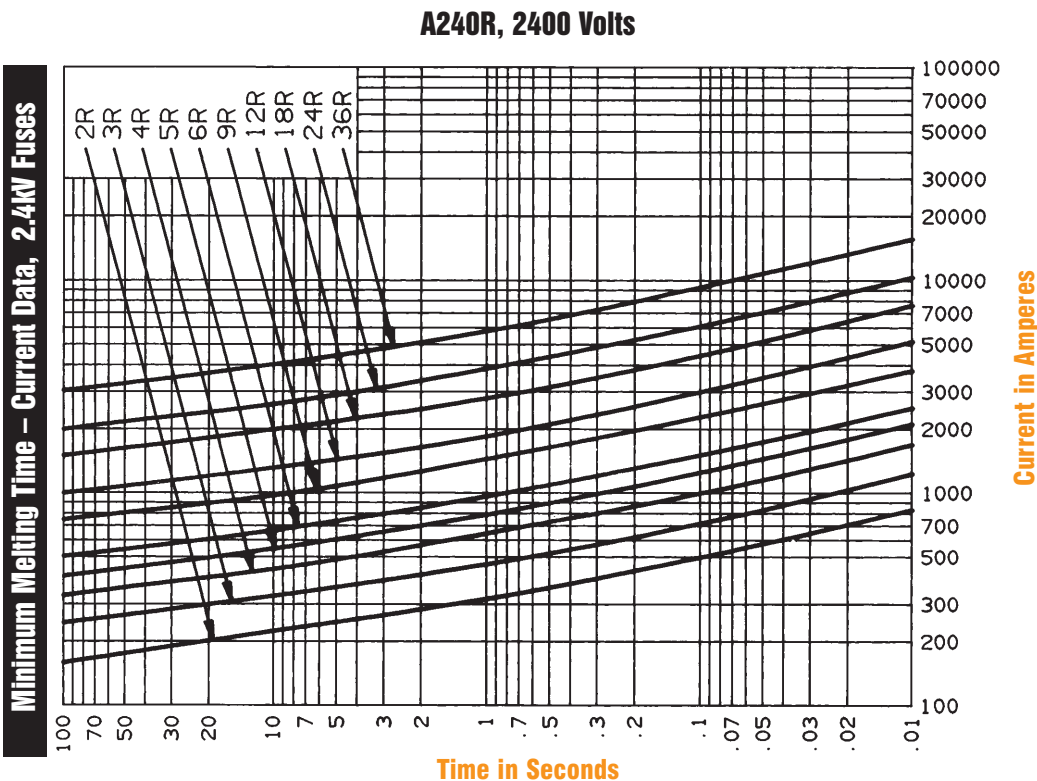
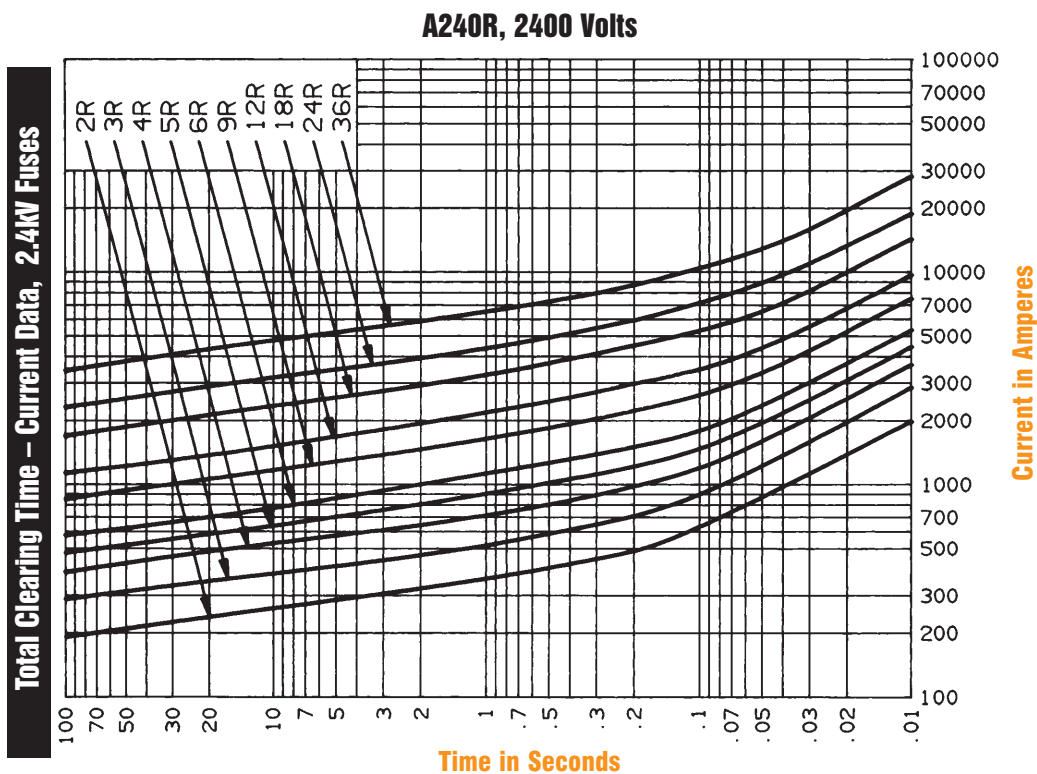
FIG.	CATALOG NUMBER	SIZE	CONTINUOUS AMPERE RATING at 40°	DIM. L	MINIMUM INTERRUPTING RATING RMS AMPERES	1 PHASE INTERRUPTING RATING	
	STANDARD					MAXIMUM TESTED	
						RMS Asym	RMS Sym
A240R							
A	A240R2R	2R	70	10-7/8 (276mm)	170	70kA @ 2750V	45kA @ 2750V
	A240R3R	3R	100		250		
	A240R4R	4R	130		340		
	A240R6R	6R	170		500		
	A240R9R	9R	200		760		
	A240R12R	12R	230		1000		
B	A240R18R	18R	390		1500		
	A240R24R	24R	450		1950		
C	A240R36R	36R**	650		2900		

* This rating defines the fuse's long-term thermal capability per ANSI C37. 46-1 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.

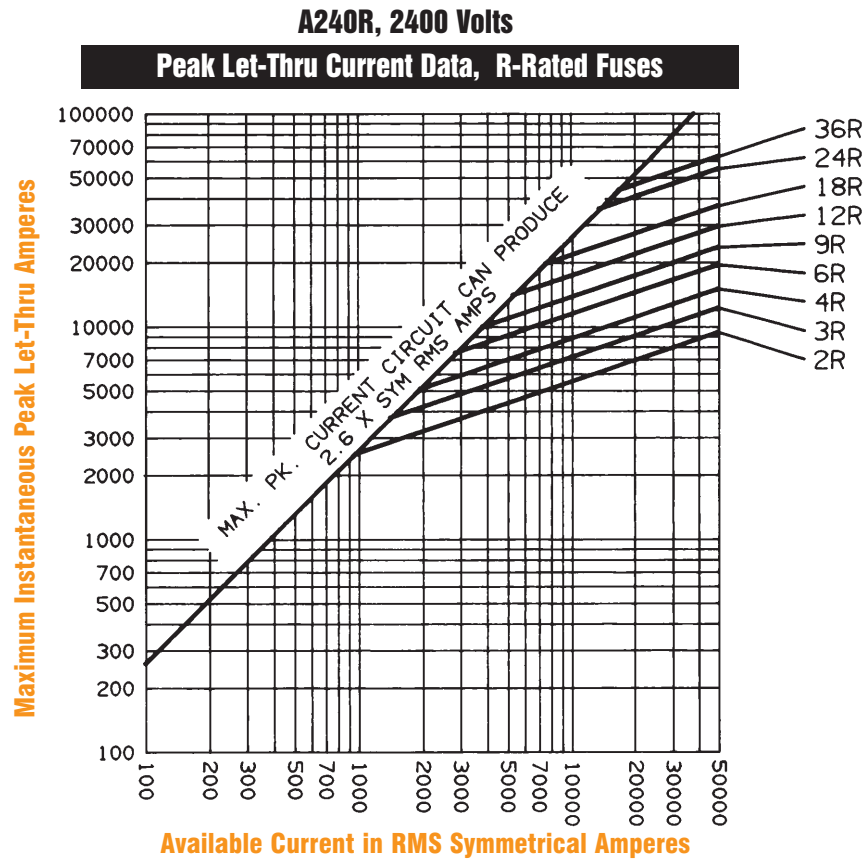
A240R

MEDIUM VOLTAGE FUSES / R-RATED

**E**

A240R

MEDIUM VOLTAGE FUSES / R-RATED



A480R

MEDIUM VOLTAGE FUSES / R-RATED

4.8kV Ferrule Style

Blown Fuse Indicator

2Lb. Force (Tripped)

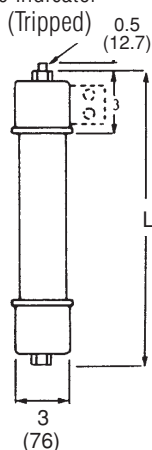


Figure A

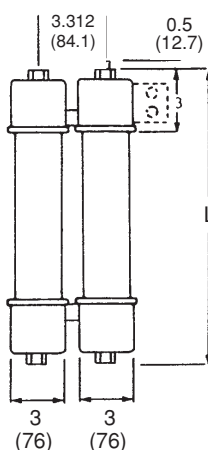


Figure B

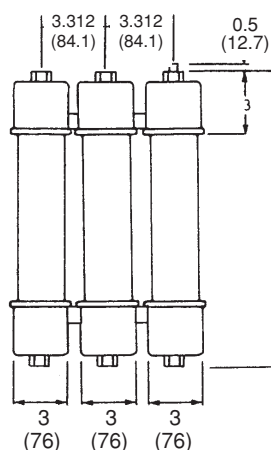
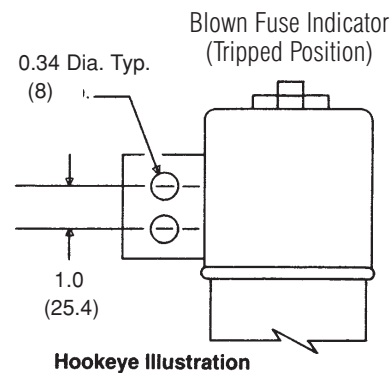


Figure C



Hookeye Illustration

E

Catalog Numbering System, Ratings, Dimensions, 4.8kV

FIG.	CATALOG 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	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				
B	A480R6R-1	6R	170		500				
	A480R9R-1	9R	200		740				
	A480R12R-1	12R	230		955				
	A480R18R-1	18R	390		1440				
C	A480R24R-1	24R	450		1910				
	A480R36R-1	36R**	650		2810				
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				
B	A480R6R-1HE	6R	170		500				
	A480R9R-1HE	9R	200		740				
	A480R12R-1HE	12R	230		955				
	A480R18R-1HE	18R	390		1440				
C	A480R24R-1HE	24R	450		1910				

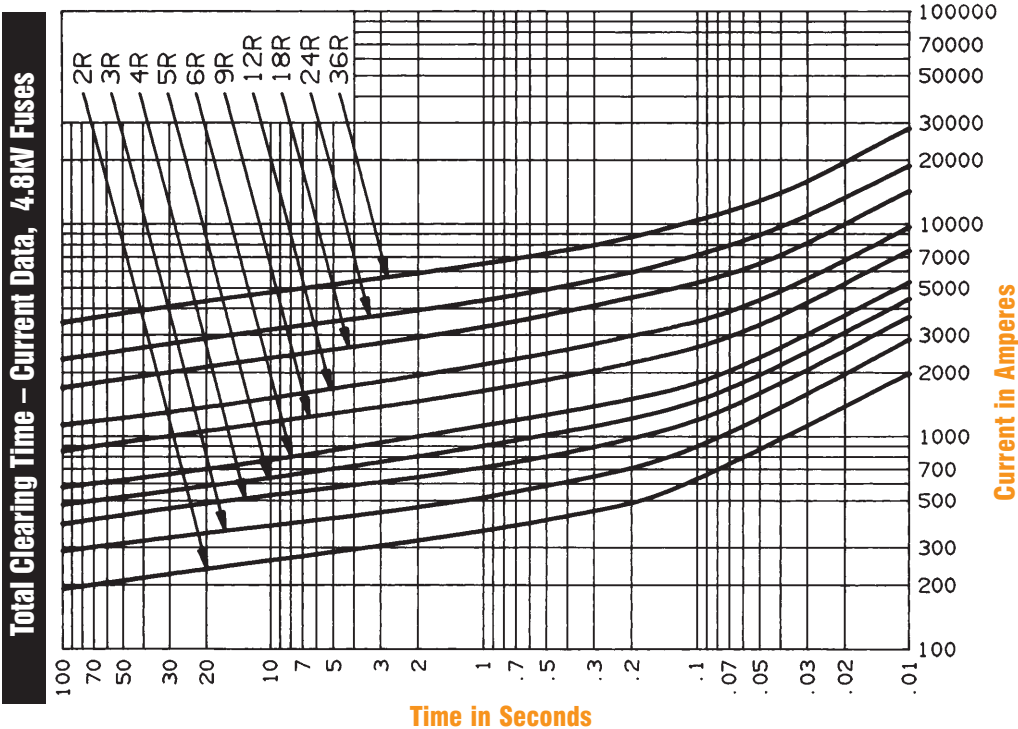
* This rating defines the fuse's long-term thermal capability per ANSI C37 46-1981 and should not be the sole factor for selecting a specific R rating.

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

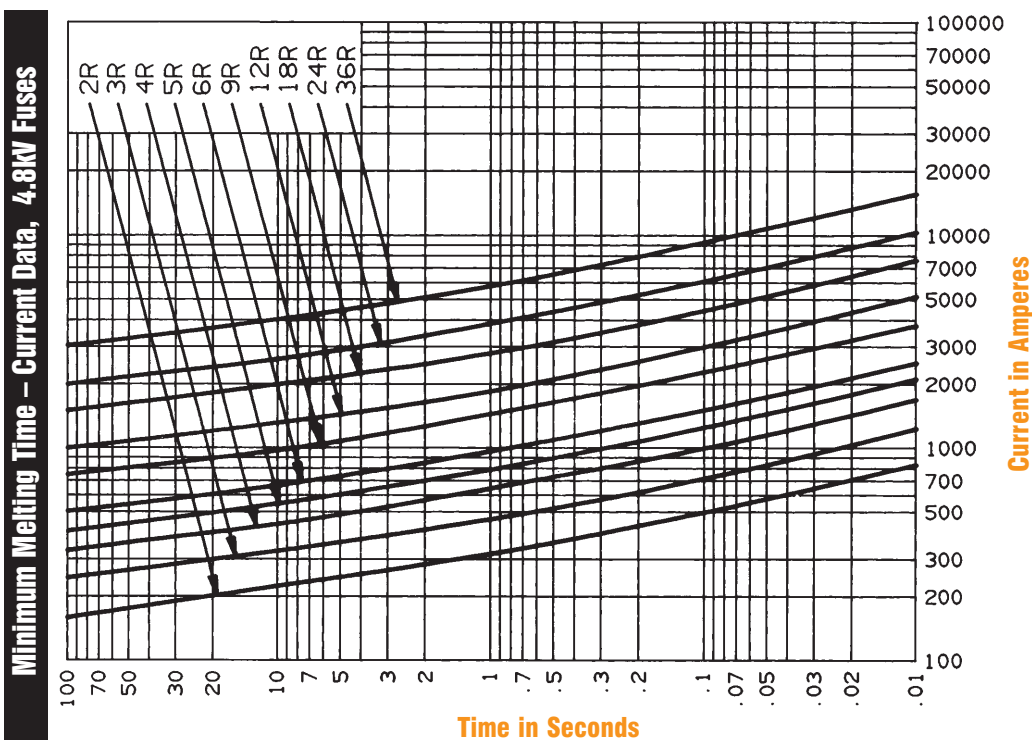
A480R

MEDIUM VOLTAGE FUSES / R-RATED

A480R-1, A480R-1HE, 4800 Volts

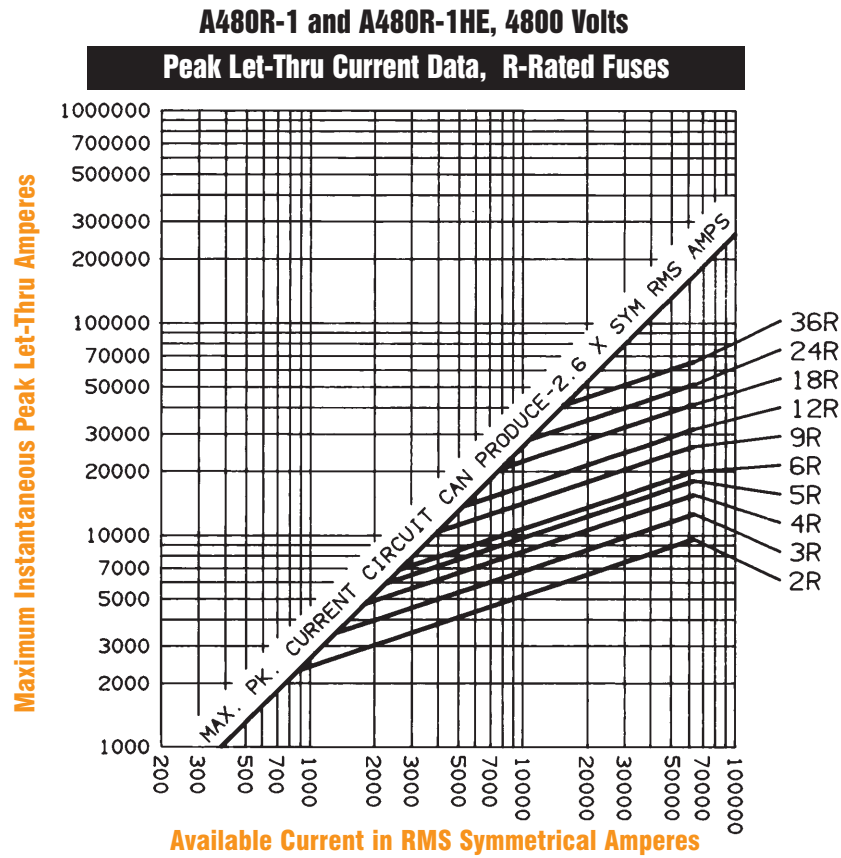


A480R-1, A480R-1HE, 4800 Volts



A480R

MEDIUM VOLTAGE FUSES / R-RATED




A072F/A072B

MEDIUM VOLTAGE FUSES / R-RATED

Catalog Numbering System

A	0	7	2	F	1	D	0	R	0	-	12R
Amp-trap Fuse	Nominal Voltage Rating (072=7.2kV)	Style (F=Ferrule, B=Bolt-in Mount)	No. of Barrels	Diameter (D=3")	Special Features	Revision/No.	R Rating				

7.2kV Ferrule & Bolt-in Types

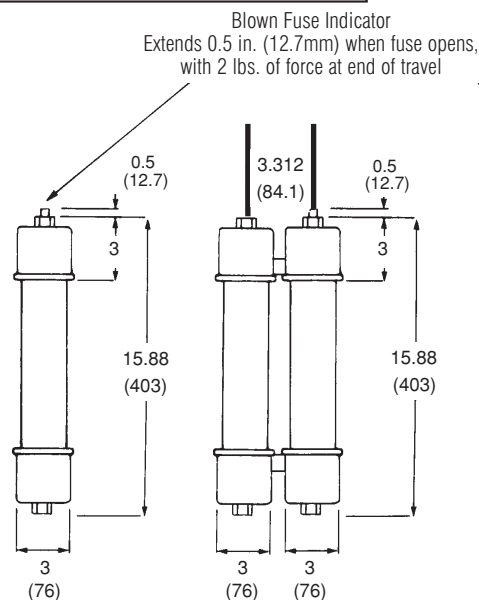


Figure A

Figure B

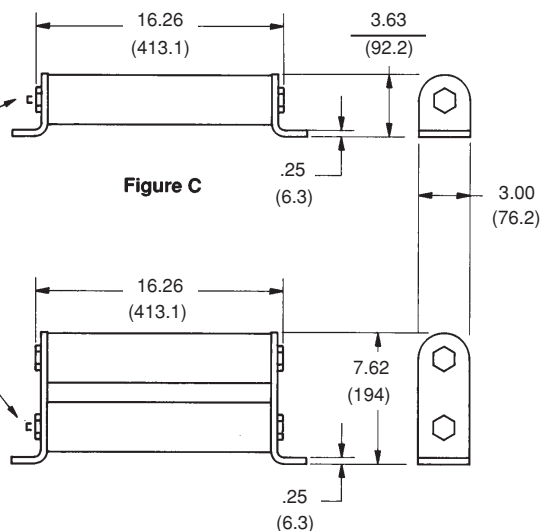


Figure C

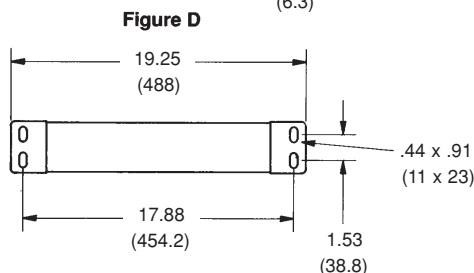


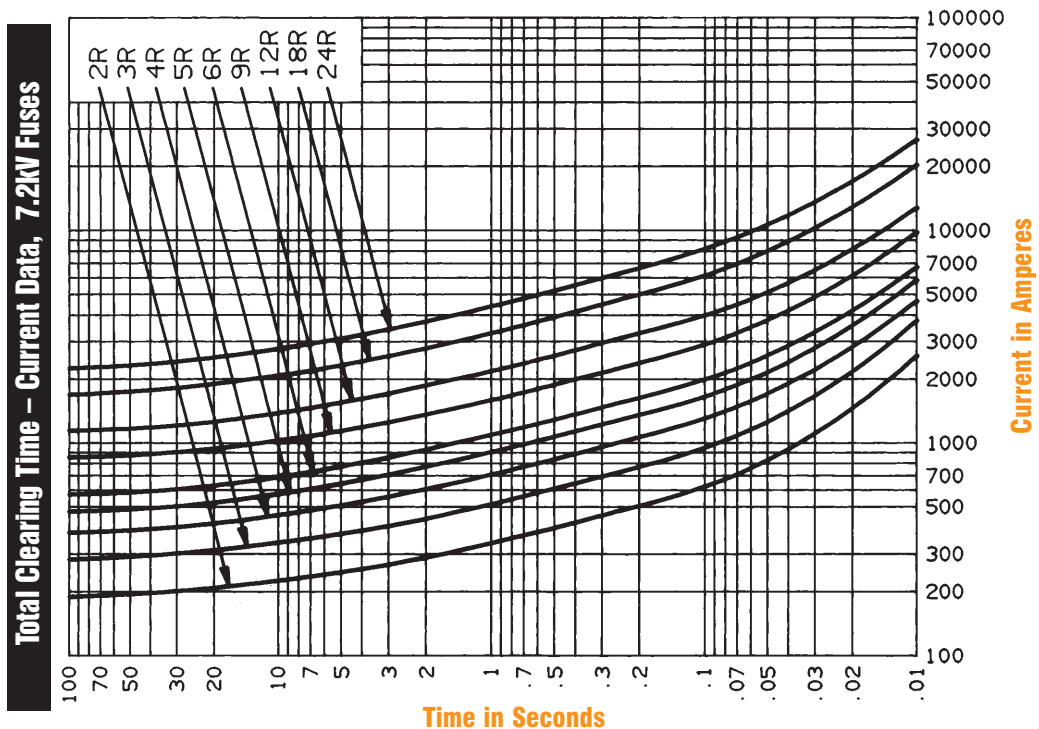
Figure D

Catalog Numbers, Ratings, Dimensions, 7.2kV

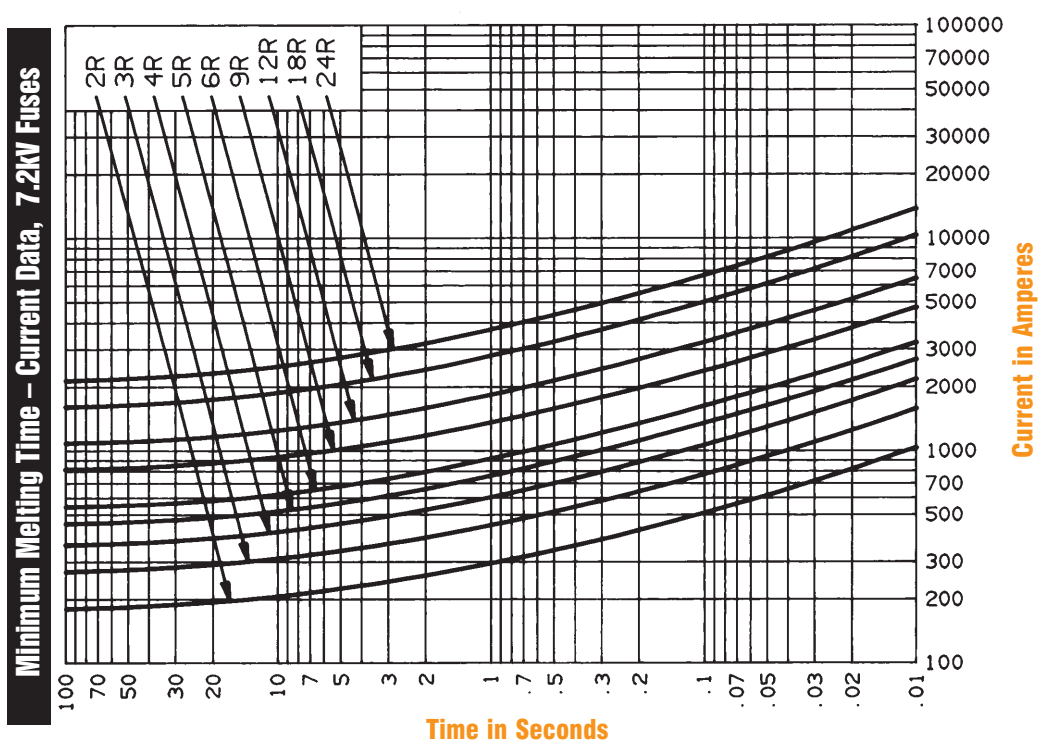
FIG.	CATALOG NUMBER	RATING	ALLOWABLE CONTINUOUS AMPERE RATING at 40°	MINIMUM INTERRUPTING RATING RMS AMPERES	1 PHASE INTERRUPTING RATING UL COMPONENT RECOGNITION	
					RMS Asym.	RMS Sym.
Ferrule Type						
A	A072F1DOR0-2R	2R	70	190	80kA @ 7200V	50kA @ 7200V
	A072F1DOR0-3R	3R	100	225		
	A072F1DOR0-4R	4R	130	330		
	A072F1DOR0-5R	5R	150	400		
	A072F1DOR0-6R	6R	170	500		
	A072F1DOR0-9R	9R	200	740		
	A072F1DOR0-12R	12R	230	955		
B	A072F2DOR0-18R	18R	390	1440		
	A072F2DOR0-24R	24R	450	1910		
Bolt-in Type						
C	A072B1DAR0-2R	2R	70	190	80kA @ 7200V	50kA @ 7200V
	A072B1DAR0-3R	3R	100	225		
	A072B1DAR0-4R	4R	130	330		
	A072B1DAR0-5R	5R	150	400		
	A072B1DAR0-6R	6R	170	500		
	A072B1DAR0-9R	9R	200	740		
	A072B1DAR0-12R	12R	230	955		
D	A072B2DAR0-18R	18R	390	1440		
	A072B2DAR0-24R	24R	450	1910		

A072F/A072B MEDIUM VOLTAGE FUSES / R-RATED

A072F and A072B, 7200 Volts



A072F2 and A072B, 7200 Volts



A072F/A072B MEDIUM VOLTAGE FUSES / R-RATED

A072F and A072B2, 7200 Volts

Peak Let-Thru Current Data, R-Rated Fuses

