

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.

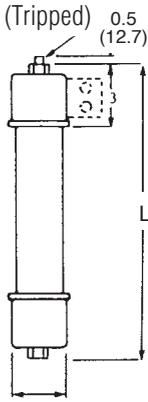
A480R

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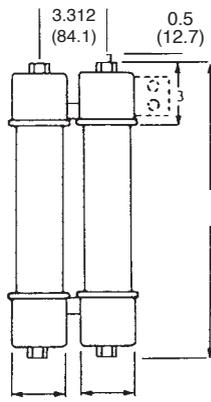
4.8kV Ferrule Style

Blown Fuse Indicator

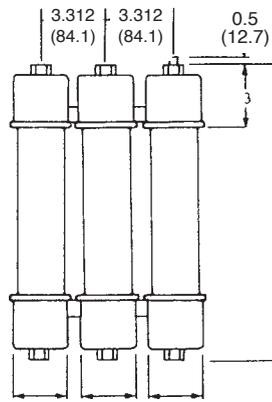
2Lb. Force (Tripped)



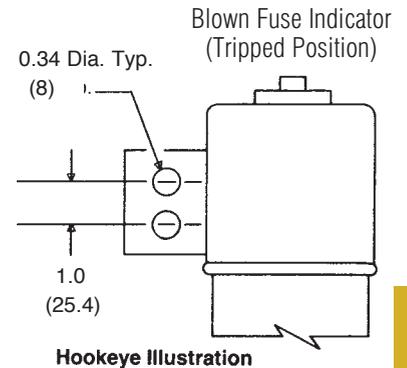
(76)
Figure A



(76) (76)
Figure B



(76) (76) (76)
Figure C



Catalog Numbering System, Ratings, Dimensions, 4.8kV

FIG.	CATALOG NUMBER STANDARD	SIZE	CONTINUOUS AMPERE RATING at 40 °C	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				
	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.

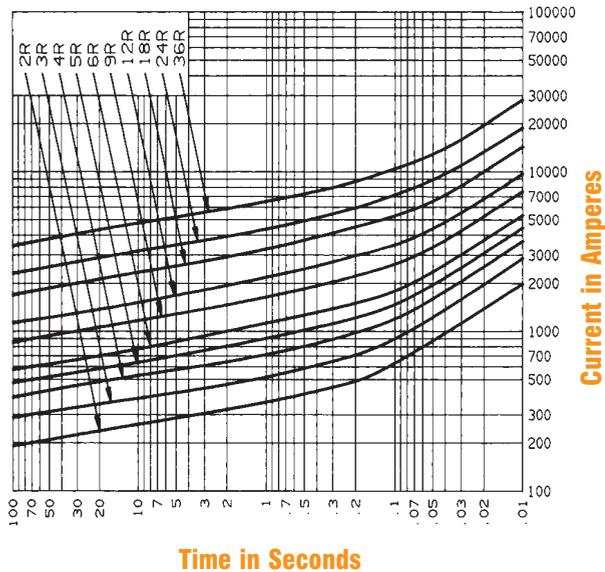
** Not recommended for use in fuse clips which grasp only one barrel.

A480R

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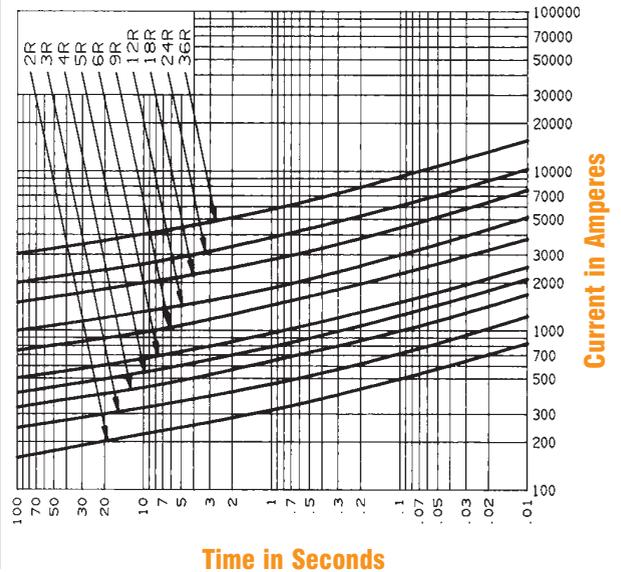
Total Clearing Time – Current Data, 4.8kV Fuses

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

