# **Motor Protection**

## **Amp-Trap® DIN-Style Fuses**



Amp-Trap® R-Rated DIN style fuses are current-limiting, high interrupting rating fuses, intended for the short circuit protection of medium voltage motors and motor controllers. This product range offers North American R-Rated performance in the IEC 282-1 DIN mounting configuration of 442mm. R-Rated fuses are applied as back up fuses that have a minimum interrupting rating, and must be coordinated with overload relays in combination motor starters. Amp-Trap R-Rated, DIN type fuses are offered in voltage ratings of 3.3kV, 5.3kV and 7.2kV in ratings from 2R to 19R. All fuses within this product group are UL component recognized.

## Features/Benefits:

- Clip mount DIN 45: R-Rated fuses with North American ANSI characteristics in a standard DIN 442mm size.
- Current-limiting for superior equipment protection
- Blown fuse indicator provides positive identification of open fuse.
   4.5lb tripping force 1.0" inch.

## **Highlights:**

- R-Rated
- · UL recognized

## **Applications:**

 Short circuit protection of medium voltage motors and motor controllers.

### **Definitions:**

**R-Rating:** R-Rated fuses are back-up fuses that operate as follows (Per ANSI C37.46-2000): 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 Current-Limiting Fuses:** A back-up current-limiting fuse is a fuse that can interrupt any current between its rated minimum interrupting current and its maximum interrupting current. Back-up fuses are not designed or intended to open under overload conditions.

**Continuous Ampere Rating at 40°C:** The continuous amp rating defines the thermal capability of the fuse per ANSI C37.46 and should not be the sole factor in fuse selection.

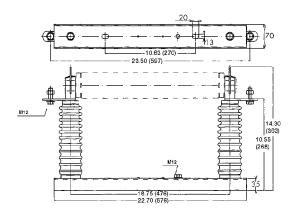
#### **Spring-Reinforced Clip**

MR45 & Spring Ref.# L096472

Fuse-Holder: SI 24/442 Ref # K209424

In compliance with IEC 282-1, DIN standard 43625.

\* Note: Ratings above 19R may be achieved by paralleling fuses. Please consult factory for details.





## Ratings:

## A033D1

Volts : 3300V AC
Amps : 2 to 19R\*
IR : 65kA Sym

#### A055D1

Volts : 5300V AC
Amps : 2 to 19R\*
IR : 65kA Sym

#### A072D1

Volts : 7200V AC Amps : 2 to19R\* IR : 65kA Sym

## **Approvals:**

 UL recognized component File E93367





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# Amp-Trap® DIN-Style Fuses



Fig.	Catalog Number	Size	Continuous Amp Rating 55ºC**	Continuous Amp Rating 40°C**	Minimum Interrupting Rating RMS Rating	1 Phase Interrupting Rating	
						Maximum Tested	
						RMS Asym	RMS Sym
3.3kv N	Max. DIN IEC Style 442	mm					
Α	A033D1DSRO-2R	2R	63	70	190	100kA @ 3300V	65kA @ 3300V
Α	A033D1DSRO-3R	3R	90	100	225		
А	A033D1DSRO-4R	4R	115	130	225		
A	A033D1DSRO-5R	5R	135	150	400		
Α	A033D1DSRO-6R	6R	150	170	540		
Α	A033D1DSRO-9R	9R	180	200	780		
A	A033D1DSRO-12R	12R	210	230	955		
A	A033D1DSRO-13R	13R*	230	260	1050		
Α	A033D1DSRO-16R	16R*	270	300	1200		
Α	A033D1DSRO-19R	19R*	280	310	1280		
5.5kV	Max. DIN IEC Style 442	mm					
A	A055D1DSRO-2R	2R	63	70	190	100kA @ 5500V	65kA @ 5500V
A	A055D1DSRO-3R	3R	90	100	225		
A	A055D1DSRO-4R	4R	115	130	225		
A	A055D1DSRO-5R	5R	135	150	400		
A	A055D1DSRO-6R	6R	150	170	540		
Α	A055D1DSRO-9R	9R	180	200	780		
A	A055D1DSRO-12R	12R	210	230	955		
Α	A055D1DSRO-13R	13R*	230	260	1050		
A	A055D1DSRO-16R	16R*	270	300	1200		
А	A055D1DSRO-19R	19R*	280	310	1280		
7.2kV	Max. DIN IEC Style 442	mm					
A	A072D1DSRO-2R	2R	63	70	190	100kA @ 7200V	65kA @ 7200V
A	A072D1DSRO-3R	3R	90	100	225		
А	A072D1DSRO-4R	4R	115	130	400		
Α	A072D1DSRO-5R	5R	135	150	540		
A	A072D1DSRO-6R	6R	150	170	550		
Α	A072D1DSRO-9R	9R	180	200	780		
Α	A072D1DSRO-12R	12R	210	230	955		
Α	A072D1DSRO-13R	13R*	230	260	1050		
Α	A072D1DSRO-16R	16R*	270	300	1200		
Α	A072D1DSRO-19R	19R*	280	310	1280		

<sup>\* 13</sup>R, 16R and 19R are not standard ratings defined in ANSI C37.46.

\*\* This rating defines the thermal capability of the fuse per ANSI 37.46 and should not be the sole factor in fuse selection.

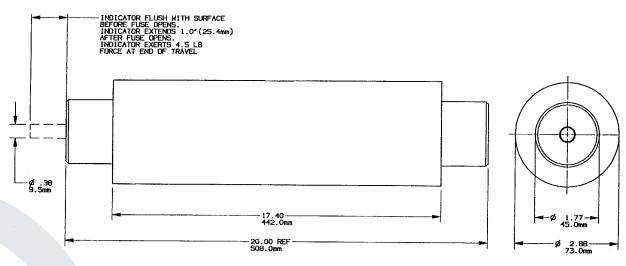


Figure A