# **Motor Protection**

# **Amp-Trap® Bolt-In Series**

# 5.08kV, 7.2kV and 15.5kV Bolt-In fuses:

Mersen 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. These fuses are single, double, triple or quadruple barrels 3 inches diameter with end mounts designed for bolting directly to equipment bus or terminal pads.

### Features/Benefits:

- · The Amp-Trap Bolt-in series are UL Recognized.
- · Bolt-in mounting for direct connection to bus or terminals.
- · Current-limiting for superior equipment protection.
- Metal embossed catalog number and manufacturing date for lasting identification.
- Blown-fuse indicator to give positive identification of open fuse.
   Amp-Trap: 3" Barrel 2 lb tripped force 0.50 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.



### Ratings:

### Amp-Trap

#### A051B

Volts : 5.08kV AC
Amps : 2 to 38R
IR : 65kA Sym

#### A072B

Volts : 7.2kV AC
Amps : 2 to 24R
: 19R to 57X
IR : 50kA Sym
: 65kA Sym

#### A155B

Volts : 15.5kV AC
Amps : 9 to 38X
IR : 50kA Sym

#### **Approvals:**

• UL Recognized File E93367





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# **Amp-Trap® Bolt-In Series**

### 5.08kV / 7.2kV Bolt-In fuses:

#### 5.08kV R-Rated Amp-Trap Bolt-In Series

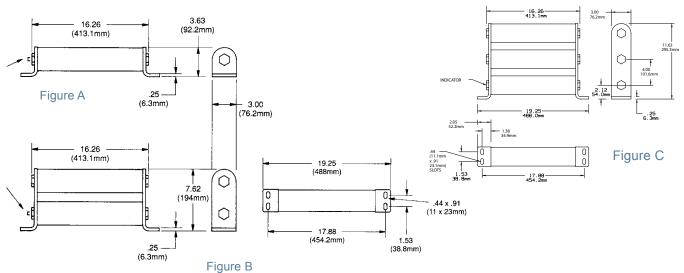


	Size	Continuous Amp rating at 40°C	Minimum Interrupting Rating RMS Amp	No of Barrels	Fig.	Indicating	1 Phase interrupting rating		
Catalog No.							UL Component Recognition Max IR RMS Sym	Max Voltage Tested  Max IR RMS Sym	
A051B1DAR0-2R	2R	70	190		A	Yes	65kA at 5.08kV		
A051B1DAR0-3R	3R	100	225						
A051B1DAR0-4R	4R	130	330	1					
A051B1DAR0-6R	6R	170	500						
A051B1DAR0-9R	9R	200	740					65kA at 5.5kV	
A051B1DAR0-12R	12R	230	955					OSKA dt S.SKV	
A051B2DAR0-18R	18R	390	1440		В	Yes			
A051B2DAR0-24R	24R	450	1910	0					
A051B2DAR0-32R	32R	600	2500	2					
A051B2DAR0-38R	38R	700	3100						
A051B3DAR0-48X	48X	750	3600	3	0	V	50kA at 5.08kV	50LA -4 5 0LA/	
A051B3DAR0-57X	57X	900	4500		С	Yes		50kA at 5.2kV	

#### 7.2kV R-Rated Amp-Trap Bolt-In Series



		Continuous  Amp rating  at 40°C	Minimum Interrupting Rating RMS Amp	.,		Indicating	1 Phase interrupting rating		
Catalog No.	Size			No of Barrels	Fig.		UL Component Recognition Max IR RMS Sym	Max Voltage Tested  Max IR RMS Sym	
A072B1DAR0-2R	2R	70	190						
A072B1DAR0-3R	3R	100	225		A	Yes	50kA at 7.2kV		
A072B1DAR0-4R	4R	130	330						
A072B1DAR0-5R	5R	150	400	1				50kA at 7.7kV	
A072B1DAR0-6R	6R	170	500						
A072B1DAR0-9R	9R	200	740						
A072B1DAR0-12R	12R	230	955						
A072B2DAR0-18R	18R	390	1440	2	В				
A072B2DAR0-24R	24R	450	1910						



Shah & Shah Enterprise

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## 7.2kV / 15.5kV Bolt-In fuses:

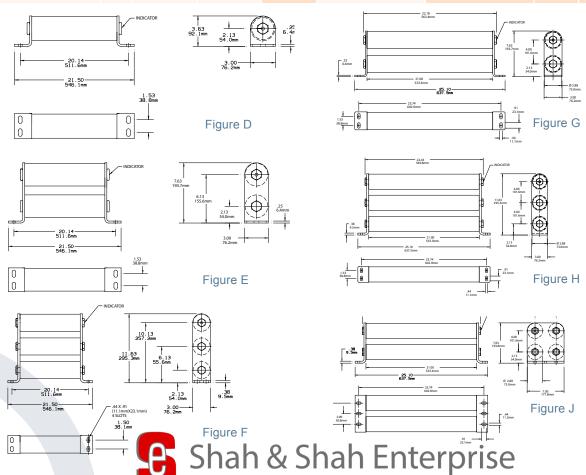
#### 7.2kV R-Rated Amp-Trap Bolt-In Series



Catalog No.	Size	Continuous Amp rating at 40°C	Minimum Interrupting Rating RMS Amp	Indicating	1 Phase inter	N-			
					UL Component Recognition Max IR RMS Sym	Max Voltage Tested  Max IR RMS Sym	No of Barrels	Fig.	
A072B1D0R0-19R	19R	300	1560	Yes		65kA at 7.5kV	1	D	
A072B2D0R0-32R	32R	540	3070			65kA at 7.66kV	2	Е	
A072B2D0R0-38R	38R	600	3480		65kA at 7.2kV				
A072B3DBR0-48X	48X	750	4360			65kA at 7.66kV	3	F	
A072B3DBR0-57X	57X	900	5000			65kA at 7.2kV	3	F	
15.5kV R-Rated Amp-Trap Bolt-In Series									

#### 15.5kV R-Rated Amp-Trap Bolt-In Series

					1 Phase inter			
Catalog No.	Size	Continuous Amp rating	Minimum Interrupting Rating	Indicating	UL Component Recognition	Max Voltage Tested	No of	Fig.
		at 40°C	RMS Amp		Max IR RMS Sym	Max IR RMS Sym	Barrels	
A155B2D0R0-9R	9R	200	888	Yes	50 kA at 15.5kV	50 kA at 15.5kV	0	0
A155B2D0R0-12R	12R	230	1200				2	G
A155B3D0R0-18X	18X	390	1900				3	
A155B3D0R0-24X	24X	450	2633				3	Н
A155B4D0R0-32X	32X	600	3510				4	
A155B4D0R0-38X	38X	700	4000				4	J



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