Motor Protection

Amp-Trap® Bolt-In Series

MEDIUM VOLTAGE FUSES

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 control centers (MCC). R-Rated fuses are backup fuses that have a minimum interrupting rating, and must be coordinated with overload relays in MCCs. 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. Used in and requested for replacement in MCCs from many manufacturers.

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 (0.38 inch for -DHRO part numbers)
 - 9F60: 0.125 lb tripped force 0.2 inch

Ratings: Amp-Trap

A051B

- Volts: 5.08kV AC
- Amps: 2 to 38R
- IR: 50kA Sym, 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

9F60 Series Type EJ-2

- Volts: 5.08kV
- **Amps:** 2 to 24R
- IR: 50kA Sym

APPLICATIONS:

- Short circuit protection of medium voltage motors and motor controllers.
- Bolt-in equipment for secure mechanical connection in blast-proof equipment
- Many parts offered in nonindicating versions for use in Class 1, Div 2 locations

APPROVALS:

• UL Recognized File E93367



DEFINITIONS:

R-Rating: R-Rated fuses are back-up fuses that operate as follows (Per IEEE C37.42-2016): 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 IEEE C37.42-2016 and should not be the sole factor in fuse selection.

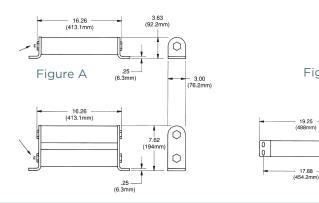
5.08kV / 7.2kV BOLT-IN FUSES:

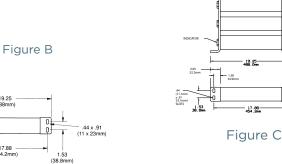
Catalog No.		Continuous	Minimum Interrupting Rating RMS Amp	No of Barrels	Fig.		1 Phase interrupting rating		
	Size	Amp rating at 40°C				Indicating	UL Component Recognition Max IR RMS Sym	Max Voltage Tested Max IR RMS Sym	
A051B1DAR0-2R	2R	70	190						
A051B1DAR0-3R	3R	100	225			Yes	65kA at 5.08kV	65kA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

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

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

		Continuous	Minimum	No			1 Phase interrupting rating		
Catalog No.	Size	Continuous Amp rating at 40°C	Interrupting Rating RMS Amp	of Barrels	Fig.	Indicating	UL Component Recognition Max IR RMS Sym	Max Voltage Tested Max IR RMS Sum	
A072B1DAR0-2R	2R	70	190						
A072B1DAR0-3R	3R	100	225	1 A					
A072B1DAR0-4R	4R	130	330		A	Yes			
A072B1DAR0-5R	5R	150	400						
A072B1DAR0-6R	6R	170	500				65kA at 7.2kV	65kA at 7.7kV	
A072B1DAR0-9R	9R	200	740						
A072B1DAR0-12R	12R	230	955						
A072B2DAR0-18R	18R	390	1440	2	_				
A072B2DAR0-24R	24R	450	1910	2	В				





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5.08kV / 7.2kV BOLT-IN FUSES:

5.08kV R-Rated 9F60, EJ-2 Bolt-In Series, for use in Mebane Style Switchgear

Catalog No.	Size	Continuous Amp rating at 40°C	Rated Minimum Interrupting Current	No of Barrels	Figure	Indicating	Dimension L Inches/ (mm)	UL Component Recognition Max IR RMS Sym	Max Voltage Tested Max IR RMS Sym
9F60LXD702	2R	70	195	2	D	Yes		50kA at 5.08kV	50kA at 5.08kV
9F60LXD703	ЗR	100	270						
9F60LXD704	4R	130	370						
9F60LXD706	6R	170	580						
9F60LXD709	9R	200	820						
9F60LXD712	12R	230	1150						
9F60MXD718	18R	390	1800		_				
9F60MXD724	24R	450	2400		E				

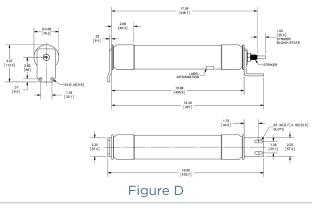
** All part numbers available without indication by substituting "DHRO" w/ "DHRN". Example: A051B1DHR<u>N</u>-24R

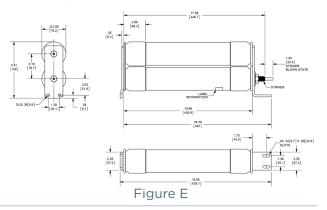
5.08kV R-Rated 9F60, EJ-2 Bolt-In Series, for use in Mebane Style Switchgear - Alternate Bolt Configuration

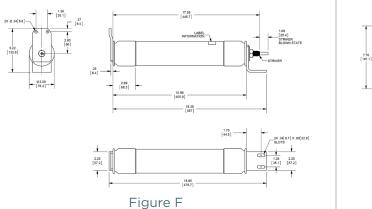
Catalog No.	Size	Continuous Amp rating at 40°C	Rated Minimum Interrupting Current	No of Barrels	Figure	Indicating	Dimension L Inches/ (mm)	UL Component Recognition Max IR RMS Sym	Max Voltage Tested Max IR RMS Sym
9F60LXD402	2R	70	195	1	F			50kA at 5.08kV	50kA at 5.08kV
9F60LXD403	3R	100	270						
9F60LXD404	4R	130	370						
9F60LXD406	6R	170	580			Yes			
9F60LXD409	9R	200	820						
9F60LXD412	12R	230	1150						
9F60MXD418	18R	390	1800		G				
9F60MXD424	24R	450	2400	2					

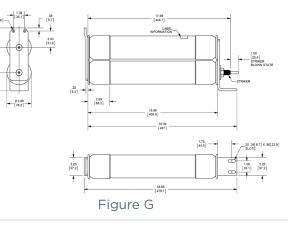
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** All part numbers available without indication by substituting "DHR0" w/ "DHRN". Example: A051B1DHR<u>N</u>-24R







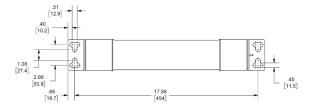


5.08kV / 7.2kV BOLT-IN FUSES:

5.08kV R-Rated Amp-Trap Bolt-In Series, for use in Ampgard Switchgear

Catalog No.	Size	Continuous Amp rating at 40°C	Rated Minimum Interrupting Current	No of Barrels	Fig.	Indicating	Dimension L Inches/ (mm)	UL Component Recognition Max IR RMS Sym	Max Voltage Tested Max IR RMS Sym
A051B1DHR0 – 2R	2R	70	200	1	н	Yes**	15.88 (403.2)	50kA @5.08kV	50kA @5.08kV
A051B1DHR0 - 3R	3R	100	290						
A051B1DHR0 - 4R	4R	130	360						
A051B1DHR0 – 5R	5R	150	450						
A051B1DHR0 - 6R	6R	170	600						
A051B1DHR0 – 9R	9R	200	900						
A051B1DHR0 - 12R	12R	230	1200						
A051B2DHR0 – 18R	18R	390	1500						
A051B2DHR0 – 24R	24R	450	2200	2					

** All part numbers available without indication by substituting "DHR0" w/ "DHRN". Example: A051B1DHRN-24R



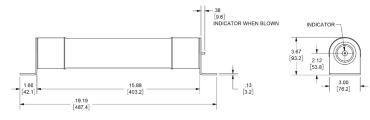
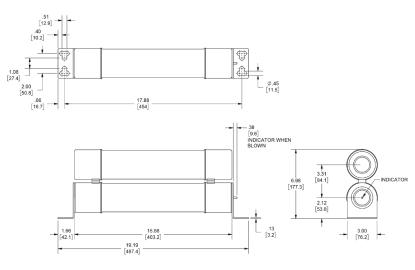


Figure H



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