BUSSMANN electronic fuses

COOPER Electronic Technologies

1/4" x 1-1/4" Fuses

MDA Series, Time Delay, Ceramic Tube

Description

- Time Delay, ceramic tube
- Optional leaded version available
- 1/4 x 1-1/4 (6.3mm x 32mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

ELECTRICAL CHARACTERISTICS		
Rated Current	**Amp Rating**	**Opening Time**
1/4 - 30A	100%	None
	135%	60 Minutes Max.
	200%	120 Seconds Max.

Approvals

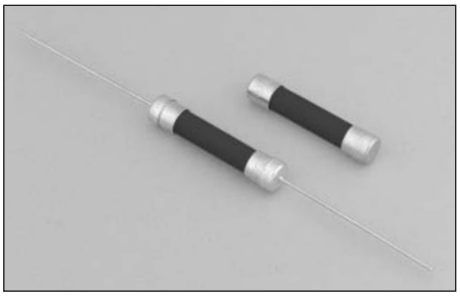
- UL Listed Card: MDA 2/10 - 20A (Guide JDYX, File E19180)
- UL Recognized Card: MDA 25 - 30A (Guide JDYX2, File E19180)
- CSA Certification Card: MDA 2/10 - 15 (Class No. 1422-01)

Environmental Data

- Shock: 1/100A and 8/10A – MIL-STD-202, Method 213, Test Condition I; 1A thru 30A – MIL-STD-202, Method 207, (HI Shock)
- Vibration: 1/100A and 8/10A – MIL-STD-202, Method 201; 1/4A thru 30A – MIL-STD-202, Method 204, Test Condition C (Except 5g, 500HZ)

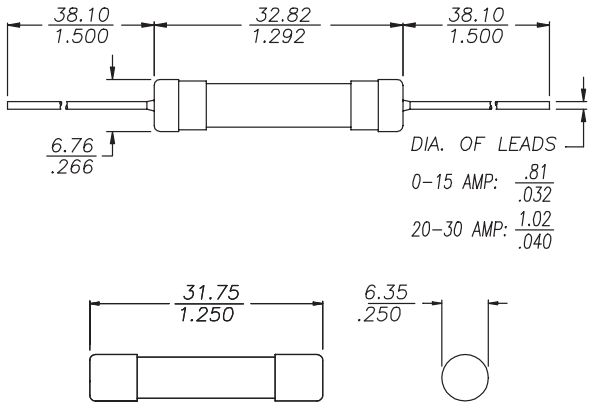
Ordering

- Specify product code, option code and packaging code



Dimensions (mm/in)

Drawing Not to Scale



SPECIFICATIONS

Product Code	Voltage Rating		AC Interrupting Rating*		DC Interrupting Rating	Typical DC Cold Resistance**	Typical Melting I^2t†	Typical Voltage
	AC	DC	250V	125V	125V	(ohms)	AC	Drop‡
MDA-1/4	250V	-	35A	10000A	-	9.325	0.68	4.00
MDA-1/2	250V	-	35A	10000A	-	1.925	2.3	1.42
MDA-3/4	250V	-	35A	10000A	-	0.8555	7.8	1.31
MDA-1	250V	-	35A	10000A	-	0.560	11.1	1.03
MDA-1-1/2	250V	-	100A	10000A	-	0.2585	25.0	0.691
MDA-2	250V	-	100A	10000A	-	0.1645	64.0	0.623
MDA-2-1/2	250V	-	200A	10000A	-	0.06685	28.9	0.213
MDA-3	250V	-	200A	10000A	-	0.0507	40.9	0.182
MDA-4	250V	-	200A	10000A	-	0.0346	134.0	0.162
MDA-5	250V	-	200A	10000A	-	0.02355	345.9	0.145
MDA-6	250V	-	200A	10000A	-	0.01850	534.3	0.141
MDA-7	250V	-	200A	10000A	-	0.01475	580.3	0.137
MDA-8	250V	-	200A	10000A	-	0.01230	944.0	0.134
MDA-10	250V	-	200A	10000A	-	0.00858	1491.3	N/A
MDA-15	250V	-	750A	10000A	-	0.00543	206.2	0.107
MDA-20	250V	125V	1500A	10000A	10000A	0.00405	439.5	0.095
MDA-25	250V	125V	1500A	10000A	10000A	0.00309	667.9	0.105
MDA-30	250V	125V	1500A	10000A	10000A	0.00243	997.0	0.110

* Interrupting Ratings (Measured at 70% - 80% power factor on AC. The interrupting ratings for 25Amp, 30Amp were measured at 90% - 100% power factor on AC)

** DC Cold Resistance (Measured at ≤10% of rated current)

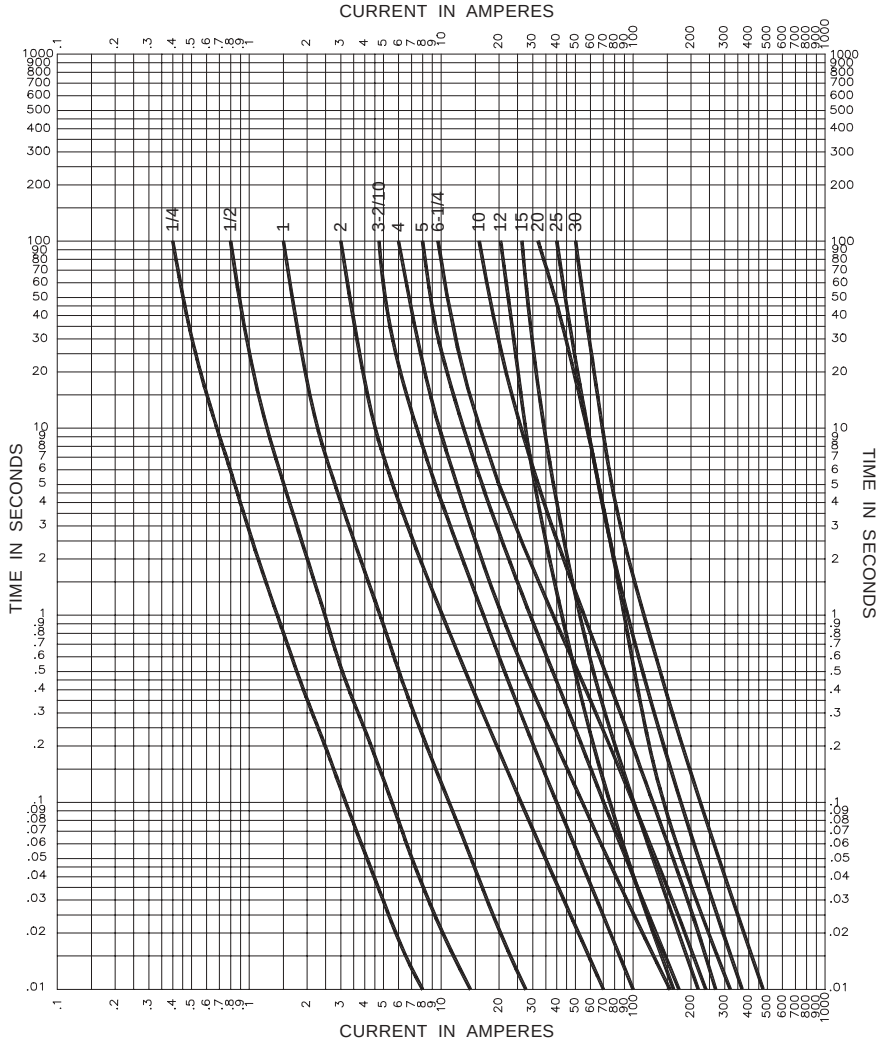
† Typical Melting I^2t (A^2Sec) (I^2t was measured at listed interrupting rating and rated voltage)

‡ Typical Voltage Drop (Voltage drop was measured at 25°C ambient temperature at rated current)

1/4" x 1-1/4" Fuses

MDA Series, Time Delay, Ceramic Tube

TIME CURRENT CURVE



OPTION CODE	
Option Code	**Description**
B	Board Washable - Hermetically sealed to withstand aqueous cleaning
V	Axial leads - brass overcaps with copper and nickel flash, plated in tin lead

PACKAGING CODE	
Packaging Code	**Description**
BK	100 pieces of fuses packed into a cardboard carton with flaps folded
BK1	1,000 pieces of fuses packed into a cardboard carton with flaps folded
BK8	8,000 pieces of fuses packed into a cardboard carton with flaps folded

OC-2545 10/01

© Cooper Electronic Technologies 2001

Visit us on the Web at www.cooperET.com

3601 Quantum Boulevard Boynton Beach, Florida 33426-8638

Tel: +1-561-752-5000 Toll Free: +1-888-414-2645 Fax: +1-561-742-1178

This bulletin is intended to present product design solutions and technical information that will help the end user with design applications. Cooper Electronic Technologies reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Electronic Technologies also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.