# Technical Data 2002

Effective July 2017 Supersedes June 2017

# MDA 1/4" x 1 1/4" Time-delay ceramic tube fuses



## **Product features**

- Time-delay
- Optional axial leads available
- 1/4" x 1-1/4" (6.35 x 31.75 mm) physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

#### **Agency information**

• UL Listed Card: MDA 1/4 - 20 A (Guide JDYX, File E19180)

BUSSMANN SERIES

- UL Recognized Card: MDA 25 30 A (Guide JDYX2, File E19180)
- CSA Certification Card: MDA 1/4 20 A (Class No. 1422-01)
- CSA Component Acceptance: MDA 25-30 A (Class No. 1422-30)

#### **Environmental data**

- Shock: 1 A thru 30 A MIL-STD-202, Method 213, Test Condition J
- Vibration: 1/4 A thru 30 A MIL-STD-202, Method 204, Test Condition C (Except 5 g, 500 Hz)

### Ordering

• Specify packaging, product and option code.

Electrical Characteristics					
Rated Current	Amp Rating	Opening Time			
1/4 - 30 A	100%	None			
	135%	60 minutes Max.			
	200%	120 seconds Max.			

Specifications								
	AC Interrupting				-			
Part	Voltage	e Rating	Rating* (A)		DC Interrupting	Typical DC Cold	Typical	Typical Voltage
Number	Vac	Vdc	250 V	125 V	Rating (A) 125 V	Resistance <sup>**</sup> (Ω)	Melting I <sup>2</sup> t† AC	Drop‡
MDA-1/4-R	250	-	35	10000	-	8.7	0.748	4.00
MDA-1/2-R	250	-	35	10000	-	1.78	2.53	1.42
MDA-3/4-R	250	-	35	10000	-	0.82	8.58	1.31
MDA-1-R	250	-	35	10000	-	0.56	12.21	1.03
MDA-1-1/2-R	250	-	100	10000	-	0.2565	27.5	0.691
MDA-2-R	250	-	100	10000	-	0.17	70.4	0.623
MDA-2-1/2-R	250	-	200	10000	-	0.068	31.79	0.213
MDA-3-R	250	-	200	10000	-	0.0525	44.99	0.182
MDA-4-R	250	-	200	10000	-	0.03575	147.4	0.162
MDA-5-R	250	-	200	10000	-	0.0256	380.49	0.145
MDA-6-R	250	-	200	10000	-	0.02035	587.73	0.141
MDA-7-R	250	-	200	10000	-	0.0165	638.33	0.137
MDA-8-R	250	-	200	10000	-	0.013	1038.4	0.134
MDA-10-R	250	-	200	10000	-	0.00925	1620.43	0.135
MDA-12-R	250	-	750	10000	-	0.00755	125.18	0.128
MDA-15-R	250	-	750	10000	-	0.00565	336.82	0.107
MDA-20-R	250	125	1500	10000	10000	0.004065	483.45	0.095
MDA-25-R	250	125	1500	10000	10000	0.0031	734.69	0.105
MDA-30-R	250	125	1500	10000	10000	0.002465	1096.7	0.110

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

DC Cold Resistance (Measured at \_<10% of rated current)

† Typical Melting I<sup>2</sup>t (A<sup>2</sup>sec) (I<sup>2</sup>t 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					
	Option Code	Description			
	В	Sealed to withstand aqueous cleaning (Board Washable)			
	V	Axial leads - copper tinned wire with nickel plated brass overcaps			
l	V	Axial leads - copper tinned wire with nickel plated brass overcaps			

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton Electronics Division 1000 Eaton Boulevard Cleveland, OH 44122 United States www.eaton.com/electronics

© 2017 Eaton All Rights Reserved Printed in USA Publication No. 2002 BU-SB11875 July 2017

Powerina Business Worldwide

Eaton is a registered trademark.

All other trademarks are property of their respective owners.