Effective July 2017
Supersedes June 2017

## MDA

## l/4" x l l/4" Time-delay ceramic tube fuses



## Product features

- Time-delay
- Optional axial leads available
- $1 / 4^{\prime \prime} \times 1-1 / 4^{\prime \prime}(6.35 \times 31.75 \mathrm{~mm})$ physical size
- Ceramic tube, nickel-plated brass endcap construction
- UL Listed product meets standard 248-14

| Electrical Characteristics |  |  |
| :---: | :---: | :---: |
| Rated Current | Amp Rating | Opening Time |
| $1 / 4-30 \mathrm{~A}$ | $100 \%$ | None |
|  | $135 \%$ | 60 minutes Max. |
|  | $200 \%$ | 120 seconds Max. |

## Agency information

- UL Listed Card: MDA 1/4-20 A (Guide JDYX, File E19180)
- 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 $5 \mathrm{~g}, 500 \mathrm{~Hz}$ )


## Ordering

- Specify packaging, product and option code.

| Part <br> Number | Specifications |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Voltage Rating |  | AC Interrupting <br> Rating* (A) |  | DC Interrupting <br> Rating (A) 125 V | Typical DC Cold Resistance** $(\Omega)$ | Typical <br> Melting $\mathrm{l}^{2} \mathrm{t} \dagger \mathrm{AC}$ | Typical Voltage Drop $\ddagger$ |
|  | Vac | Vdc | 250 V | 125 V |  |  |  |  |
| 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 $25 \mathrm{~A}, 30 \mathrm{~A}$ were measured at $90 \%-100 \%$ power factor on AC ) **

DC Cold Resistance (Measured at _< $10 \%$ of rated current)
$\dagger$ Typical Melting $I^{2 t}\left(A^{2} s e c\right)\left(I^{2} t\right.$ was measured at listed interrupting rating and rated voltage)
$\ddagger$ Typical Voltage Drop (Voltage drop was measured at $+25^{\circ} \mathrm{C}$ ambient temperature at rated current)
E $\ddagger$ (•N
Powering Business Worldwide

Time-Current Curves (1/4 A-61/4 A)


Time-Current Curves (7 A - 30 A)


Dimensions - mm (in)
Drawing Not to Scale


|  | Packaging Code |
| :---: | :--- |
| Packaging Code Prefix | Description |
| BK- | 100 fuses packed into a cardboard carton |


| Option Code |  |
| :---: | :--- |
| Option Code | Description |
| B | Sealed to withstand aqueous cleaning (Board Washable) |
| V | Axial leads - copper tinned wire with nickel plated brass overcaps |

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