

GMC

## 5 mm x 20 mm Medium time-delay glass tube fuses



## Product features

- Medium time-delay, low breaking capacity
- Available with optional axial leads
- 5 mm x 20 mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to UL/CSA 248-14

## Agency information

- UL Listed, Guide JDYX, File E19180, 63mA-6.3A
- UL Recognized Card: (7A-10A) Guide JDYX2, File E19180
- CSA Certified, Class 1422-01, File E65063, 63mA-6.3A
- MITI Approval, 1A-10A
- KC-Mark: Certificate SU05011-4001 (63mA~250mA); SU05011-4002 (300mA~800mA); SU05011-4003 (1A~3.15A); SU05011-4004 (3.5A~6.3A)

## Ordering

- Specify packaging code prefix, product number and option code suffix

| Electrical Characteristics |                 |                    |
|----------------------------|-----------------|--------------------|
| Rated Current              | % of Amp Rating | Opening Time       |
| 63mA - 10A                 | 100%            | None               |
|                            | 135%            | 60 minutes maximum |
|                            | 200%            | 2 minutes maximum  |

| Specifications |                    |                             |        |                                  |                        |                            |
|----------------|--------------------|-----------------------------|--------|----------------------------------|------------------------|----------------------------|
| Product Number | Voltage Rating Vac | Interrupting Rating (Amps)* |        | Typical DC Cold Resistance (Ω)** | Typical Pre-Arc Pt AC† | Maximum Voltage Drop (mV)‡ |
|                |                    | 250Vac                      | 125Vac |                                  |                        |                            |
| GMC-63-R       | 250                | 35                          | 10,000 | 10.350                           | 0.0027                 | 1400                       |
| GMC-80-R       | 250                | 35                          | 10,000 | -                                | 0.0050                 | 1400                       |
| GMC-100-R      | 250                | 35                          | 10,000 | 4.775                            | 0.0094                 | 1200                       |
| GMC-125-R      | 250                | 35                          | 10,000 | 3.400                            | 0.014                  | 1000                       |
| GMC-150-R      | 250                | 35                          | 10,000 | 2.555                            | 0.022                  | 800                        |
| GMC-160-R      | 250                | 35                          | 10,000 | 2.295                            | 0.022                  | 730                        |
| GMC-200-R      | 250                | 35                          | 10,000 | 1.395                            | 0.032                  | 650                        |
| GMC-250-R      | 250                | 35                          | 10,000 | 0.965                            | 0.046                  | 490                        |
| GMC-300-R      | 250                | 35                          | 10,000 | 0.838                            | 0.081                  | 580                        |
| GMC-315-R      | 250                | 35                          | 10,000 | 0.685                            | 0.081                  | 480                        |
| GMC-400-R      | 250                | 35                          | 10,000 | 0.615                            | 0.18                   | 510                        |
| GMC-500-R      | 250                | 35                          | 10,000 | 0.335                            | 0.41                   | 370                        |
| GMC-600-R      | 250                | 35                          | 10,000 | 0.282                            | 0.60                   | 360                        |
| GMC-630-R      | 250                | 35                          | 10,000 | 0.246                            | 0.66                   | 360                        |
| GMC-700-R      | 250                | 35                          | 10,000 | 0.213                            | 0.85                   | 340                        |
| GMC-750-R      | 250                | 35                          | 10,000 | 0.213                            | 0.85                   | 320                        |
| GMC-800-R      | 250                | 35                          | 10,000 | 0.180                            | 0.85                   | 290                        |
| GMC-1-R        | 250                | 35                          | 10,000 | 0.156                            | 1.8                    | 250                        |
| GMC-1.25-R     | 250                | 100                         | 10,000 | 0.098                            | 3.4                    | 200                        |
| GMC-1.5-R      | 250                | 100                         | 10,000 | 0.076                            | 5.4                    | 190                        |
| GMC-1.6-R      | 250                | 100                         | 10,000 | 0.067                            | 5.8                    | 160                        |
| GMC-2-R        | 250                | 100                         | 10,000 | 0.043                            | 8.9                    | 130                        |
| GMC-2.5-R      | 250                | 100                         | 10,000 | 0.035                            | 13                     | 130                        |
| GMC-3-R        | 250                | 100                         | 10,000 | 0.026                            | 19                     | 130                        |
| GMC-3.15-R     | 250                | 100                         | 10,000 | 0.025                            | 23                     | 130                        |
| GMC-3.5-R      | 125                | -                           | 10,000 | 0.022                            | 25                     | 130                        |
| GMC-4-R        | 125                | -                           | 10,000 | 0.019                            | 36                     | 120                        |
| GMC-5-R        | 125                | -                           | 10,000 | 0.014                            | 58                     | 120                        |
| GMC-6-R        | 125                | -                           | 10,000 | 0.013                            | 88                     | 120                        |
| GMC-6.3-R      | 125                | -                           | 10,000 | 0.012                            | 110                    | 120                        |
| GMC-7-R        | 125                | -                           | 200    | 0.012                            | 150                    | 120                        |
| GMC-8-R        | 125                | -                           | 200    | 0.009                            | 200                    | 110                        |
| GMC-10-R       | 125                | -                           | 200    | 0.007                            | 300                    | 110                        |

\* Interrupting ratings: Interrupting ratings for 63mA - 6.3A were measured at 70% - 80% power factor on AC. The interrupting ratings for 7A - 10A were measured at 100% power factor on AC.

\*\* DC Cold Resistance (Measured at &lt;10% of rated current)

† Typical Pre-Arching (It was measured at listed interrupting rating and rated voltage)

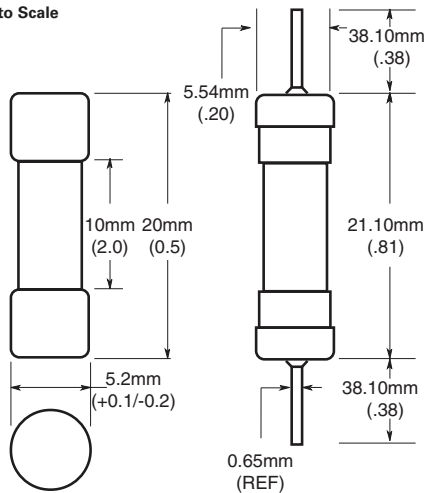
‡ Maximum Voltage drop (Voltage drop was measured at 20°C ambient temperature at rated current)

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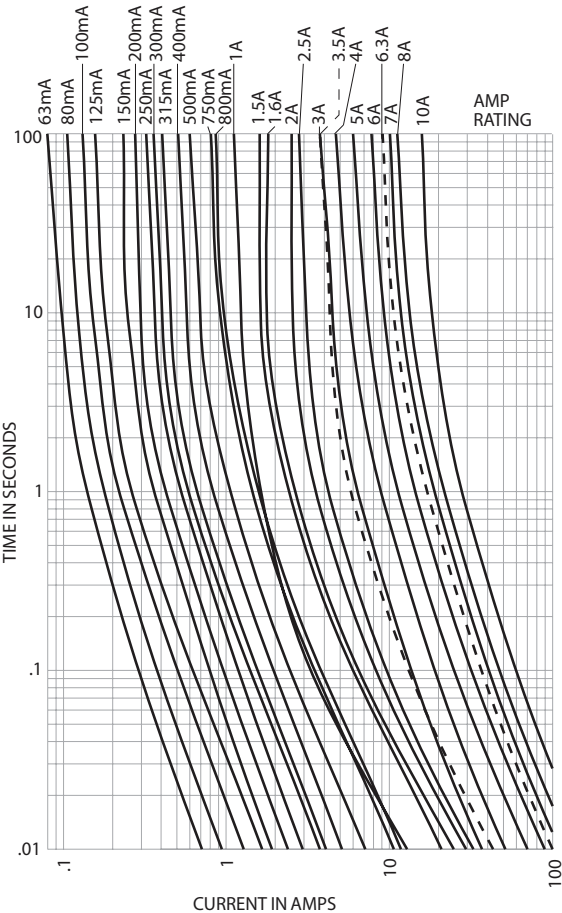
Dimensions - mm

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

Time-Current Curves



| Packaging Code        |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Product Number Prefix | Description                                                                 |
| BK-                   | 100 fuses packed into a cardboard carton                                    |
| BK1-                  | 1000 fuses packed into a poly bag                                           |
| TR2-                  | 1500 Axial lead fuses packed into tape on a reel (19.05mm lead wire length) |

| Option Code           |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| Product Number Suffix | Description                                                                                                 |
| -V                    | Axial leads - copper tinned wire with nickel plated brass overcaps (place before amp rating; e.g., GMC-V-2) |

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

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