

# GDC

## 5 mm x 20 mm Time-delay glass tube fuses



### Agency information

- cURus Recognition: Guide JDYX2/JDYX8, File E19180
- IMQ Approval: File E1921, CA03.00530
- MITI/JET: File JET1641-31003-1005

### Ordering

- Specify packaging, product, and option code
- With TR2 packaging code, lead wire length is 19.05mm

### Product features

- Time-delay, low breaking capacity
- Optional axial leads available
- 5 x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to IEC 60127-2 (32mA-10A)

| Electrical Characteristics |                  |            |        |         |       |          |        |
|----------------------------|------------------|------------|--------|---------|-------|----------|--------|
| $I_n$                      | $2.1 I_n$<br>max | $2.75 I_n$ |        | $4 I_n$ |       | $10 I_n$ |        |
|                            |                  | min        | max    | min     | max   | min      | max    |
| 32mA-100mA                 | 2 min            | 200 ms     | 10 sec | 40 ms   | 3 sec | 10 ms    | 300 ms |
| 125mA-6.3A                 | 2 min            | 600 ms     | 10 sec | 150 ms  | 3 sec | 20 ms    | 300 ms |

| Specifications |                       |  |  |   |                                  |                  |     |          |
|----------------|-----------------------|--|--|---|----------------------------------|------------------|-----|----------|
| Product Code   | Voltage Rating<br>Vac | Interrupting Rating (amps)<br>at Rated Voltage (50Hz)<br>Vac | Typical DC<br>Cold Resistance<br>( $\Omega$ )* | Typical<br>Melting I <sup>2</sup> t<br>(amps) | Typical<br>Voltage<br>Drop (mV)‡ | Agency Approvals |     |          |
|                |                       |  |  |   |                                  | cURus            | IMQ | MITI/JET |
| GDC-32mA       | 250                   | 35   | 21.0   | 0.0051  | 1050                             | X                | X   |          |
| GDC-40mA       | 250                   | 35   | 13.90  | 0.0072  | 920                              | X                | X   |          |
| GDC-50mA       | 250                   | 35   | 9.24   | 0.0095  | 800                              | X                | X   |          |
| GDC-63mA       | 250                   | 35   | 6.96   | 0.021   | 760                              | X                | X   |          |
| GDC-80mA       | 250                   | 35   | 4.42   | 0.038   | 580                              | X                | X   |          |
| GDC-100mA      | 250                   | 35   | 2.80   | 0.045   | 490                              | X                | X   |          |
| GDC-125mA      | 250                   | 35   | 1.97   | 0.063   | 390                              | X                | X   |          |
| GDC-160mA      | 250                   | 35   | 1.27   | 0.093   | 320                              | X                | X   |          |
| GDC-200mA      | 250                   | 35   | 1.00   | 0.114   | 340                              | X                | X   |          |
| GDC-250mA      | 250                   | 35   | 0.640  | 0.265   | 270                              | X                | X   |          |
| GDC-315mA      | 250                   | 35   | 0.450  | 0.621   | 250                              | X                | X   |          |
| GDC-400mA      | 250                   | 35   | 0.31   | 0.872   | 210                              | X                | X   |          |
| GDC-500mA      | 250                   | 35   | 0.183  | 0.827   | 140                              | X                | X   |          |
| GDC-630mA      | 250                   | 35   | 0.186  | 1.33  | 150                              | X                | X   |          |
| GDC-800mA      | 250                   | 35   | 0.129  | 2.78  | 75                               | X                | X   |          |
| GDC-1A         | 250                   | 35   | 0.0757   | 6.45  | 87.5                             | X                | X   | X        |
| GDC-1.25A      | 250                   | 35   | 0.060  | 10.05   | 86                               | X                | X   | X        |
| GDC-1.6A       | 250                   | 35   | 0.0425   | 21.7  | 82                               | X                | X   | X        |
| GDC-2A         | 250                   | 35   | 0.03325  | 31.6  | 77                               | X                | X   | X        |
| GDC-2.5A       | 250                   | 35   | 0.0255   | 59.4  | 72.5                             | X                | X   | X        |
| GDC-3.15A      | 250                   | 35   | 0.0185   | 96.4  | 68.5                             | X                | X   | X        |
| GDC-4A         | 250                   | 40   | 0.0139   | 71.8  | 67                               | X                | X   | X        |
| GDC-5A         | 250                   | 50   | 0.00985  | 142.5   | 60.5                             | X                | X   | X        |
| GDC-6.3A       | 250                   | 63   | 0.0071   | 237.6   | 54                               | X                | X   | X        |

\* DC Cold Resistance (measured at <10% of rated current)

‡ Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)



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**Dimensions - mm**  
Drawing Not to Scale



**Nominal Time-Current Characteristics of GDC**



| Packaging Code        |   |
|-----------------------|---|
| Packaging Code Suffix | Description   |
| BK                    | 100 fuses packed into a cardboard carton                          |
| BK1                   | 1,000 fuses packed into a poly bag                                |
| TR2                   | 1,500 fuses packed into tape on a reel (19.05mm lead wire length) |

  

| Option Code |   |
|-------------|---|
| Option Code | Description   |
| V           | Axial leads - copper tinned wire with nickel plated brass endcaps |

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**Eaton**  
**Electronics Division**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
[www.eaton.com/electronics](http://www.eaton.com/electronics)

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