## Technical Data 2016

Effective May 2017 Supersedes February 2009

# **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

BUSSMANN SERIES

#### **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)

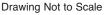
| Electrical Characteristics |                    |                     |        |                  |       |                   |        |
|----------------------------|--------------------|---------------------|--------|------------------|-------|-------------------|--------|
|                            | 2.1 l <sub>n</sub> | 2.75 l <sub>n</sub> |        | 4 I <sub>n</sub> |       | 10 l <sub>n</sub> |        |
| l In                       | max                | min                 | max    | min              | max   | min               | max    |
| 32mA-100m                  | A 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     |                          |            |                  |     |          |
|---------------------|------------------------------------|-------------------------|--------------------|--------------------------|------------|------------------|-----|----------|
|                     | Voltage Interrupting Rating (amps) |                         | Typical DC Typical |                          | Typical    | A                |     |          |
| Product Code Rating |                                    | at Rated Voltage (50Hz) | Cold Resistance    | Melting I <sup>2</sup> t | Voltage    | Agency Approvals |     |          |
|                     | Vac                                | Vac                     | (Ω)*               | (amps)                   | Drop (mV)‡ | cURus            | IMQ | MITI/JET |
| GDC-32mA            | 250                                | 35                      | 21.0               | 0.0051                   | 1050       | Х                | Х   |          |
| GDC-40mA            | 250                                | 35                      | 13.90              | 0.0072                   | 920        | Х                | Х   |          |
| 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        | Х                | Х   |          |
| GDC-100mA           | 250                                | 35                      | 2.80               | 0.045                    | 490        | Х                | Х   |          |
| GDC-125mA           | 250                                | 35                      | 1.97               | 0.063                    | 390        | Х                | Х   |          |
| GDC-160mA           | 250                                | 35                      | 1.27               | 0.093                    | 320        | Х                | Х   |          |
| GDC-200mA           | 250                                | 35                      | 1.00               | 0.114                    | 340        | Х                | Х   |          |
| GDC-250mA           | 250                                | 35                      | 0.640              | 0.265                    | 270        | Х                | Х   |          |
| GDC-315mA           | 250                                | 35                      | 0.450              | 0.621                    | 250        | Х                | Х   |          |
| GDC-400mA           | 250                                | 35                      | 0.31               | 0.872                    | 210        | Х                | Х   |          |
| GDC-500mA           | 250                                | 35                      | 0.183              | 0.827                    | 140        | Х                | Х   |          |
| GDC-630mA           | 250                                | 35                      | 0.186              | 1.33                     | 150        | Х                | Х   |          |
| GDC-800mA           | 250                                | 35                      | 0.129              | 2.78                     | 75         | Х                | Х   |          |
| GDC-1A              | 250                                | 35                      | 0.0757             | 6.45                     | 87.5       | Х                | Х   | Х        |
| GDC-1.25A           | 250                                | 35                      | 0.060              | 10.05                    | 86         | Х                | Х   | Х        |
| GDC-1.6A            | 250                                | 35                      | 0.0425             | 21.7                     | 82         | Х                | Х   | Х        |
| GDC-2A              | 250                                | 35                      | 0.03325            | 31.6                     | 77         | Х                | Х   | Х        |
| GDC-2.5A            | 250                                | 35                      | 0.0255             | 59.4                     | 72.5       | Х                | Х   | Х        |
| GDC-3.15A           | 250                                | 35                      | 0.0185             | 96.4                     | 68.5       | Х                | Х   | Х        |
| GDC-4A              | 250                                | 40                      | 0.0139             | 71.8                     | 67         | Х                | Х   | Х        |
| GDC-5A              | 250                                | 50                      | 0.00985            | 142.5                    | 60.5       | Х                | Х   | Х        |
| GDC-6.3A            | 250                                | 63                      | 0.0071             | 237.6                    | 54         | Х                | Х   | Х        |

\* DC Cold Resistance (measured at <10% of rated current)</li>
\* Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)



## Dimensions - mm



10mm 20mm

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Powerina Business Worldwide

\_5.2mm

5.54mn (±.20)

> 0.8mm (REF)

38.10mm

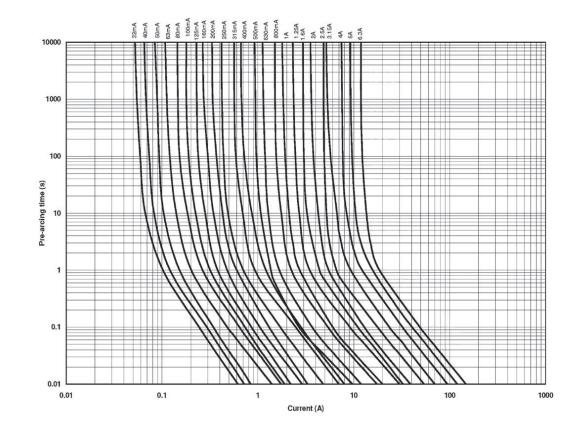
(±.38)

21.10mm (±.81)

38.10mm

(±.38)

### **Nominal Time-Current Characterisitics 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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