TDC180
1/4” x 1.0” Fast/medium British plug top fuse

Product features
- 1/4” x 1.0” Fast/medium British plug top fuse
- Patent protected: GB2410626, China No 202010304090.9, No 101308744B
- High breaking capacity
- 240 Vac rated voltage
- Designed to BS1362, IEC60269-3, GB13539.3, GB13539.5
- Ceramic tube fuse
- Nickel plated single end cap construction

Applications
Primary circuit protection:
- British/UK BS1363 plug top commonly used for, but not limited to,
  - Hairdryers
  - Microwaves
  - Blenders
  - Crock pots
  - Kettles
  - Toasters
  - Baby bottle warmers
  - Televisions
  - Computers
  - Lamps

Agency information
- ASTA: 658,
- CCC: 2003010308039745

Ordering
- Use ordering number (see page 6 for details)

Packaging prefixes
- Blank (10 parts in a plastic bag)
- BK- (100 parts in a plastic bag)
- BK1- (1000 parts in plastic bag and box)
Electrical characteristics

<table>
<thead>
<tr>
<th>I₀</th>
<th>100% Rated Current</th>
<th>160% Rated Current</th>
<th>190% Rated Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC180-1A - 13 A</td>
<td>1000 hours minimum</td>
<td>30 minutes minimum</td>
<td>30 minutes maximum</td>
</tr>
</tbody>
</table>

Product specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Current rating (A)</th>
<th>Voltage rating (V)</th>
<th>Interrupting rating (A)</th>
<th>Typical DC resistance (mΩ)</th>
<th>Typical pre-arcing I²t (A²s)</th>
<th>Maximum power dissipation (W)</th>
<th>Print color</th>
<th>Agency approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC180-1A</td>
<td>1.0</td>
<td>240</td>
<td>6000</td>
<td>162</td>
<td>0.9</td>
<td>1.0</td>
<td>Black</td>
<td>X</td>
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<tr>
<td>TDC180-2A</td>
<td>2.0</td>
<td>240</td>
<td>6000</td>
<td>86</td>
<td>9.1</td>
<td>1.0</td>
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<td>X</td>
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<tr>
<td>TDC180-3A</td>
<td>3.0</td>
<td>240</td>
<td>6000</td>
<td>43.5</td>
<td>34.3</td>
<td>1.0</td>
<td>Red</td>
<td>X</td>
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<td>TDC180-5A</td>
<td>5.0</td>
<td>240</td>
<td>6000</td>
<td>21.3</td>
<td>135</td>
<td>1.0</td>
<td>Black</td>
<td>X</td>
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<td>TDC180-7A</td>
<td>7.0</td>
<td>240</td>
<td>6000</td>
<td>12.8</td>
<td>114</td>
<td>1.0</td>
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<td>TDC180-10A</td>
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<td>240</td>
<td>6000</td>
<td>7.4</td>
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<td>1.0</td>
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<td>X</td>
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<td>TDC180-13A</td>
<td>13</td>
<td>240</td>
<td>6000</td>
<td>4.4</td>
<td>870</td>
<td>1.0</td>
<td>Brown</td>
<td>X</td>
</tr>
</tbody>
</table>

1. Breaking Capacity tested at 264 Vac, 50 Hz, Power factor (PF) 0.3-0.4
2. DC cold resistance measured at <10% of rated current at ambient temperature of +20 ºC
3. Typical pre-arcing I²t measured at 10In and rated voltage

Dimensions—mm

![Dimensions Diagram]
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1/4” x 1.0” Fast/medium British plug top fuse

Time vs. current curve

Temperature derating curve
General specifications

- Operating ambient temperature: -5 °C to +35 °C
- Storage temperature: -5 °C to +35 °C
- Temperature inside an enclosure: < 15k of ambient temperature
- Altitude: < 2000 feet above sea level
- Atmospheric conditions: 50% relative humidity at maximum temperature of +40 °C
- Frequency range: 45 Hz to 62 Hz

Ordering codes

The ordering code is the part number plus adding the packaging prefix.

Packaging suffixes

- Blank (10 parts in a plastic bag)
- BK- (100 parts in a plastic bag)
- BK1- (1000 parts in plastic bag and box)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Ordering codes</th>
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<tbody>
<tr>
<td>Blank option</td>
<td>BK- option</td>
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<tr>
<td>TDC180-1A</td>
<td>TDC180-1A</td>
</tr>
<tr>
<td>TDC180-2A</td>
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<tr>
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<td>TDC180-10A</td>
</tr>
<tr>
<td>TDC180-13A</td>
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