

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

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

Electrical characteristics

| I_n | 100% Rated Current | 160% Rated Current | 190% Rated Current |
|------------------|--------------------|--------------------|--------------------|
| TDC180-1A - 13 A | 1000 hours minimum | 30 minutes minimum | 30 minutes maximum |

Product specifications

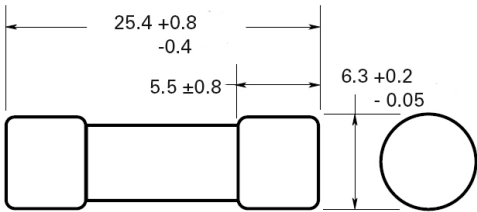
| Part number ⁴ | Current rating (A) | Voltage rating (V _{AC}) | Interuppting rating ¹ at 50 Hz and rated voltage (A) | Typical DC cold resistance ² (mΩ) | Typical pre-arcing ³ I ² t (A ² s) | Maximum power dissapation (W) | Agency approvals | | |
|--------------------------|--------------------|-----------------------------------|---|---|---|-------------------------------|------------------|------|-----|
| | | | | | | | Print color | ASTA | CCC |
| TDC180-1A | 1.0 | 240 | 6000 | 162 | 0.9 | 1.0 | Black | | X |
| TDC180-2A | 2.0 | 240 | 6000 | 86 | 9.1 | 1.0 | Black | X | X |
| TDC180-3A | 3.0 | 240 | 6000 | 43.5 | 34.3 | 1.0 | Red | X | X |
| TDC180-5A | 5.0 | 240 | 6000 | 21.3 | 135 | 1.0 | Black | X | X |
| TDC180-7A | 7.0 | 240 | 6000 | 12.8 | 114 | 1.0 | Black | X | X |
| TDC180-10A | 10 | 240 | 6000 | 7.4 | 345 | 1.0 | Black | X | X |
| TDC180-13A | 13 | 240 | 6000 | 4.4 | 870 | 1.0 | Brown | X | X |

1. Breaking Capacity tested at 264 Vac, 50 Hz, Power factor (PF) 0.3-0.4

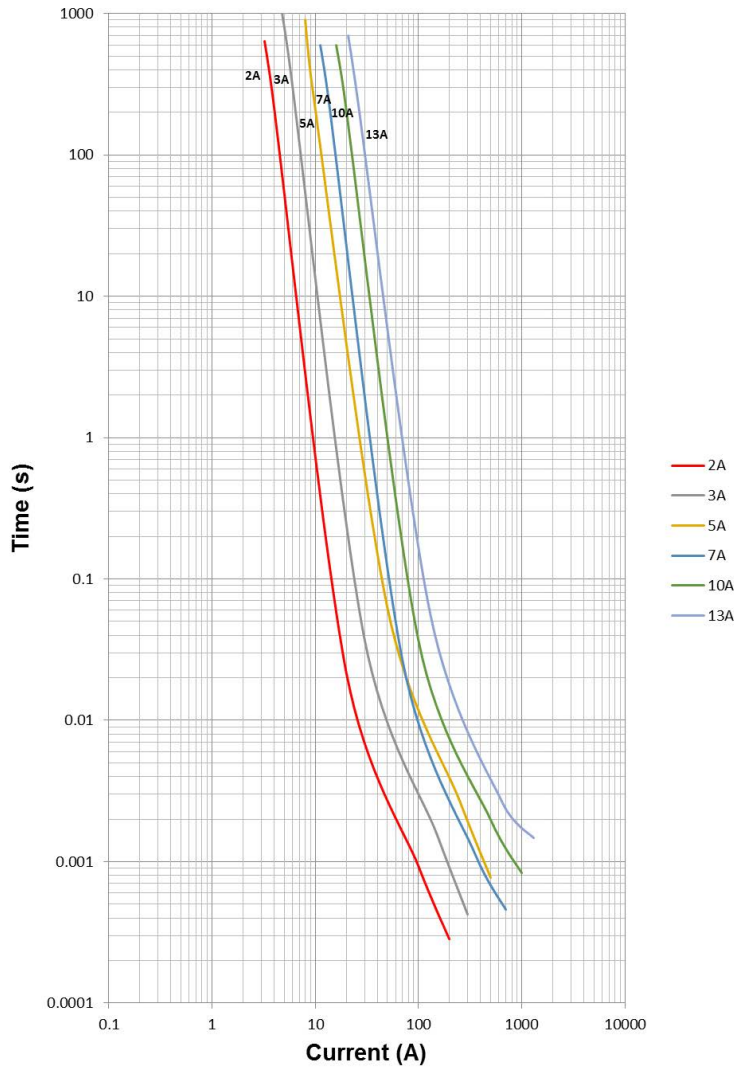
2. DC cold resistance measured at <10% of rated current at ambient temperature of +20 °C

3. Typical pre-arcing I²t measured at 10In and rated voltage
1. Part Number Definition: TDC180-xxA
TDC180 = Product code
-xx = Ampere rating
-A = Ampere

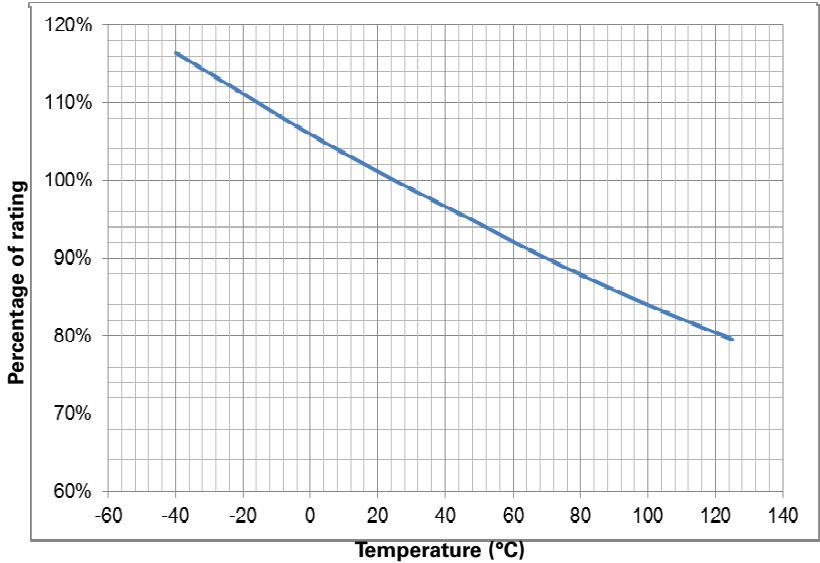
Dimensions–mm



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 prefixes

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

| Part number | Ordering codes | |
|-------------|----------------|----------------|
| | BK- option | BK1- option |
| TDC180-1A | BK-TDC180-1A | BK1-TDC180-1A |
| TDC180-2A | BK-TDC180-2A | BK1-TDC180-2A |
| TDC180-3A | BK-TDC180-3A | BK1-TDC180-3A |
| TDC180-5A | BK-TDC180-5A | BK1-TDC180-5A |
| TDC180-7A | BK-TDC180-7A | BK1-TDC180-7A |
| TDC180-10A | BK-TDC180-10A | BK1-TDC180-10A |
| TDC180-13A | BK-TDC180-13A | BK1-TDC180-13A |

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

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

© 2024 Eaton
All Rights Reserved
Printed in USA
Publication No. 2042 PCN24005
January 2024

Eaton is a registered trademark.

All other trademarks are property
of their respective owners.

Follow us on social media to get the
latest product and support information.

