

# **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**

Effective June 2020

Supersedes April 2020

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**

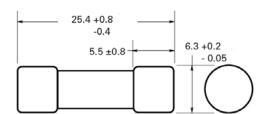
<u>l,</u>	100% Rated	160% Rated	190% Rated
	Current	Current	Current
TDC180-1A - 13 A	1000 hours	30 minutes	30 minutes
	minimum	minimum	maximum

## **Product specifications**

	Current	Voltage	Interuppting rating <sup>1</sup> at 50	Typical DC cold	Typical pre-	Maximum power		Agency appro	ovals
Part number <sup>4</sup>	rating (A)	rating (V <sub>AC</sub> )	Hz and rated voltage (A)	resistance² (mΩ)	arcing³ I²t (A²s)	dissapation (W)	Print color	ASTA	ссс
TDC180-1A	1.0	240	6000	162	0.9	1.0	Black		Х
TDC180-2A	2.0	240	6000	86	9.1	1.0	Black	Χ	X
TDC180-3A	3.0	240	6000	43.5	34.3	1.0	Red	Χ	X
TDC180-5A	5.0	240	6000	21.3	135	1.0	Black	Χ	X
TDC180-7A	7.0	240	6000	12.8	114	1.0	Black	X	Х
TDC180-10A	10	240	6000	7.4	345	1.0	Black	Χ	Х
TDC180-13A	13	240	6000	4.4	870	1.0	Brown	Х	Х

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

## Dimensions-mm



<sup>2.</sup> DC cold resistance measured at <10% of rated current at ambient temperature of +20  $^{\circ}$ C

<sup>3.</sup> Typical pre-arcing  $l^2t$  measured at 10ln and rated voltage

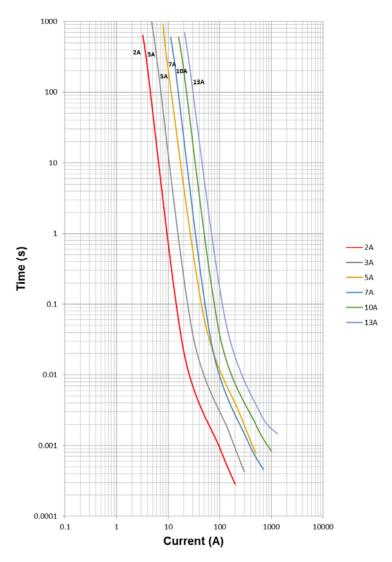
<sup>1.</sup> Part Number Definition: TDC180-xxA

TDC180 = Product code

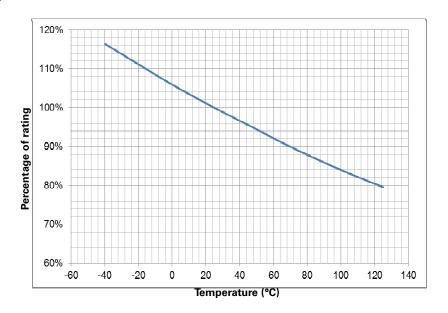
<sup>-</sup>xx = Ampere rating

<sup>-</sup>A = Ampere

## 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 enclsure: < 15k of amabient 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)

#### Ordering codes

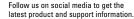
Part number	Blank option	BK- option	BK1- option			
TDC180-1A	TDC180-1A	BK-TDC180-1A	BK1-TDC180-1A			
TDC180-2A	TDC180-2A	BK-TDC180-2A	BK1-TDC180-2A			
TDC180-3A	TDC180-3A	BK-TDC180-3A	BK1-TDC180-3A			
TDC180-5A	TDC180-5A	BK-TDC180-5A	BK1-TDC180-5A			
TDC180-7A	TDC180-7A	BK-TDC180-7A	BK1-TDC180-7A			
TDC180-10A	TDC180-10A	BK-TDC180-10A	BK1-TDC180-10A			
TDC180-13A TDC180-13A		BK-TDC180-13A	BK1-TDC180-13A			

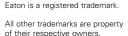
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BK/TDC180-13 BK1/TDC180-10A BK1/TDC180-13A BK1/TDC180-1A BK1/TDC180-2A BK1/TDC180-3A

BK1/TDC180-5A BK1/TDC180-7A BK/TDC180-5 BK/TDC180-1 BK/TDC180-10 BK/TDC180-2 BK/TDC180-3

BK/TDC180-7 BK/TDC180-13A BK/TDC180-5A BK/TDC180-3A BK/TDC180-7A BK/TDC180-10A BK/TDC180-2A

BK-TDC180-1A