# 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
- High breaking capacity
- 240 Vac rated voltage
- Designed to BS1362, IEC60269-3, GB13539.3, GB13539.5
- · Ceramic tube fuse
- Single end cap construction
  1 A: Nickel-plated copper
  - 2 A 5 A: Nickel-plated brass
  - 7 A: Silver-plated copper
  - 10 A 13 A: Nickel-plated copper

# Applications

Primary circuit protection:

 British/UK BS1363 plug top commonly used for, but not limited to,

BUSSMANN SERIES

- 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**

I <u>.</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 Maximum pre- power		Agency approvals		
Part number⁴	rating (A)	rating (V <sub>AC</sub> )	Hz and rated voltage (A)	resistance² (mΩ )	arcing³ l²t (A²s)	dissapation (W)	Print color	ASTA	ccc
TDC180-1A	1.0	240	6000	169	0.9	1.0	Black		Х
TDC180-2A	2.0	240	6000	105.6	9.1	1.0	Black	Х	Х
TDC180-3A	3.0	240	6000	44.4	34.3	1.0	Red	Х	Х
TDC180-5A	5.0	240	6000	42.3	135	1.0	Black	Х	Х
TDC180-7A	7.0	240	6000	12.5	114	1.0	Black	Х	Х
TDC180-10A	10	240	6000	7.42	345	1.0	Black	Х	Х
TDC180-13A	13	240	6000	4.41	870	1.0	Brown	Х	Х

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  $^{\circ}\mathrm{C}$ 

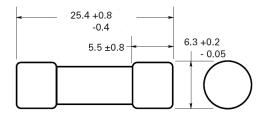
3. Typical pre-arcing  $l^2t$  measured at 10In and rated voltage  $% l^{2}$ 

1. Part Number Definition: TDC180-xxA

TDC180 = Product code -xx = Ampere rating

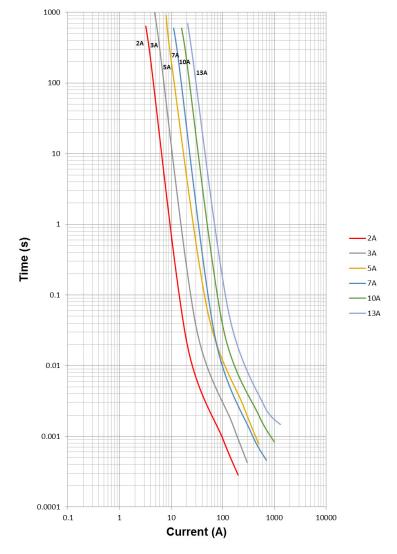
-A = Ampere

#### **Dimensions-mm**

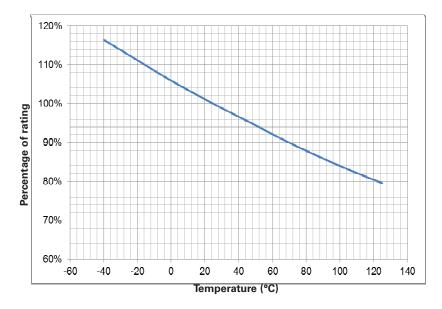


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# Time vs. current curve



# Temperature derating curve



#### **Environmental data**

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**

Powerina Business Worldwide

- · 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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