

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})	Interrupting 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 dissipation (W)	Print color	Agency approvals	
								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 10I_n and rated voltage

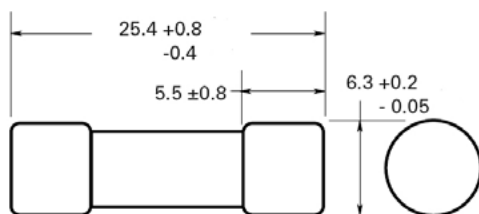
1. Part Number Definition: TDC180-xxA

TDC180 = Product code

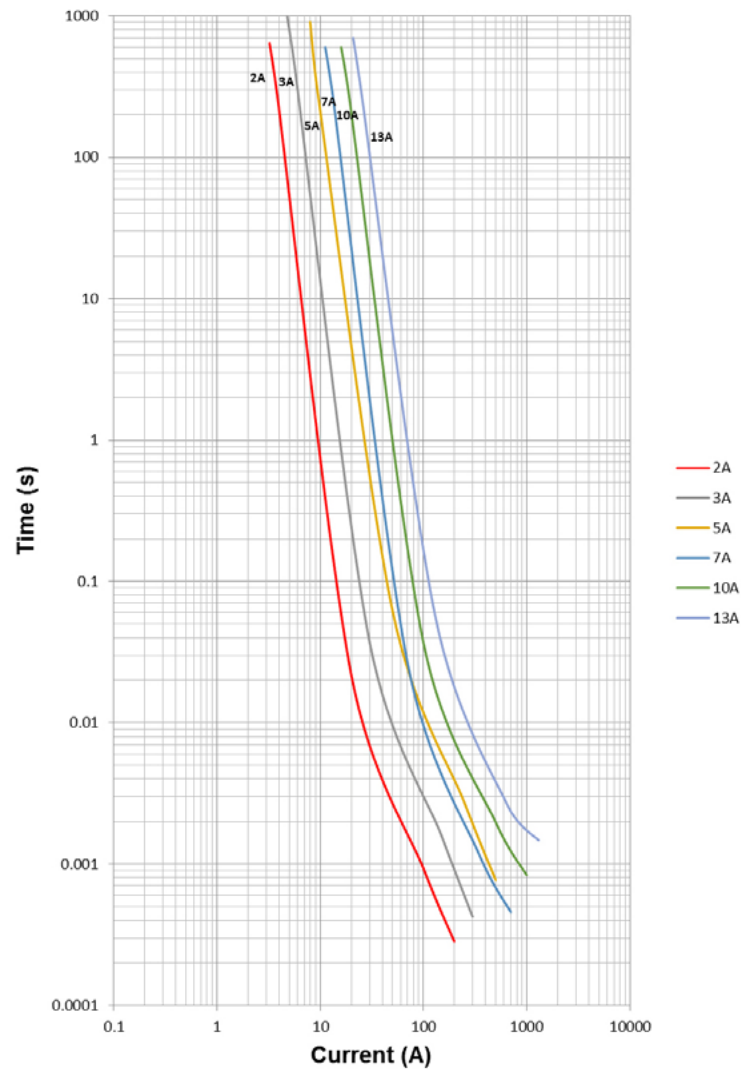
-xx = Ampere rating

-A = Ampere

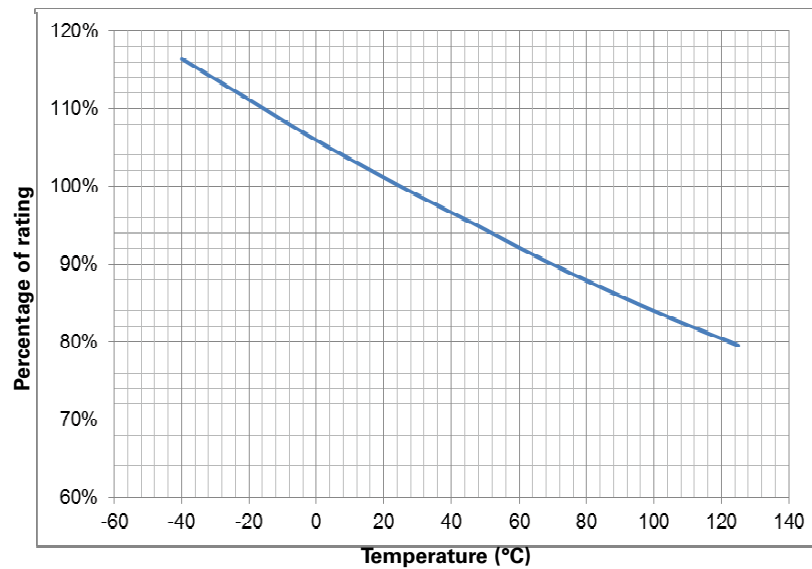
Dimensions—mm



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 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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