



Description

These series provides protection for printed circuit boards and is used in a large variety of applications that need fuses with high interrupting rating and voltage rating characteristics. This miniature device is constructed of a ceramic tube and base with copper caps (tin plated copper lead wire optional). It offers excellent mounting characteristics and is 100% tested for cold resistance.

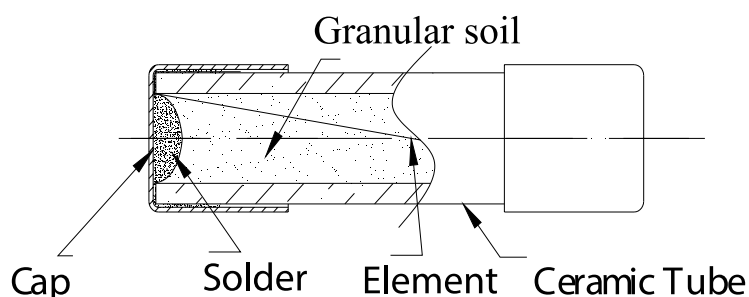
Features

- Miniature fuse with high interrupting and high voltage ratings.
- Small size, tubular design
- Copper caps / ceramic fuse body.
- 1.0mm or 1.2mm lead wires made of tin plated copper.
- Protection against harmful over-currents in primary and secondary applications.
- Lead-free, Halogen-free, RoHS compliant
- Designed according to UL-248-14
- High surge withstand: 20 cycles of 1.2/50 us-8/20us, 20kV/10kA surg

Specifications

Operating Temperature	: -55°C to 125°C
Storage Conditions	: +55°C to +85°C
Relative humidity	: ≤ 75% yearly average without dew, maximum 30 days at 95%
Vibration Resistance	: 24 cycles at 15 min. each (60068-6) 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

Construction And Mechanical Characteristics



Dimensions : Millimetres

Electrical Specifications

Time vs Current Characteristics Table

(measured with constant current power supply) (According to UL 248-14)

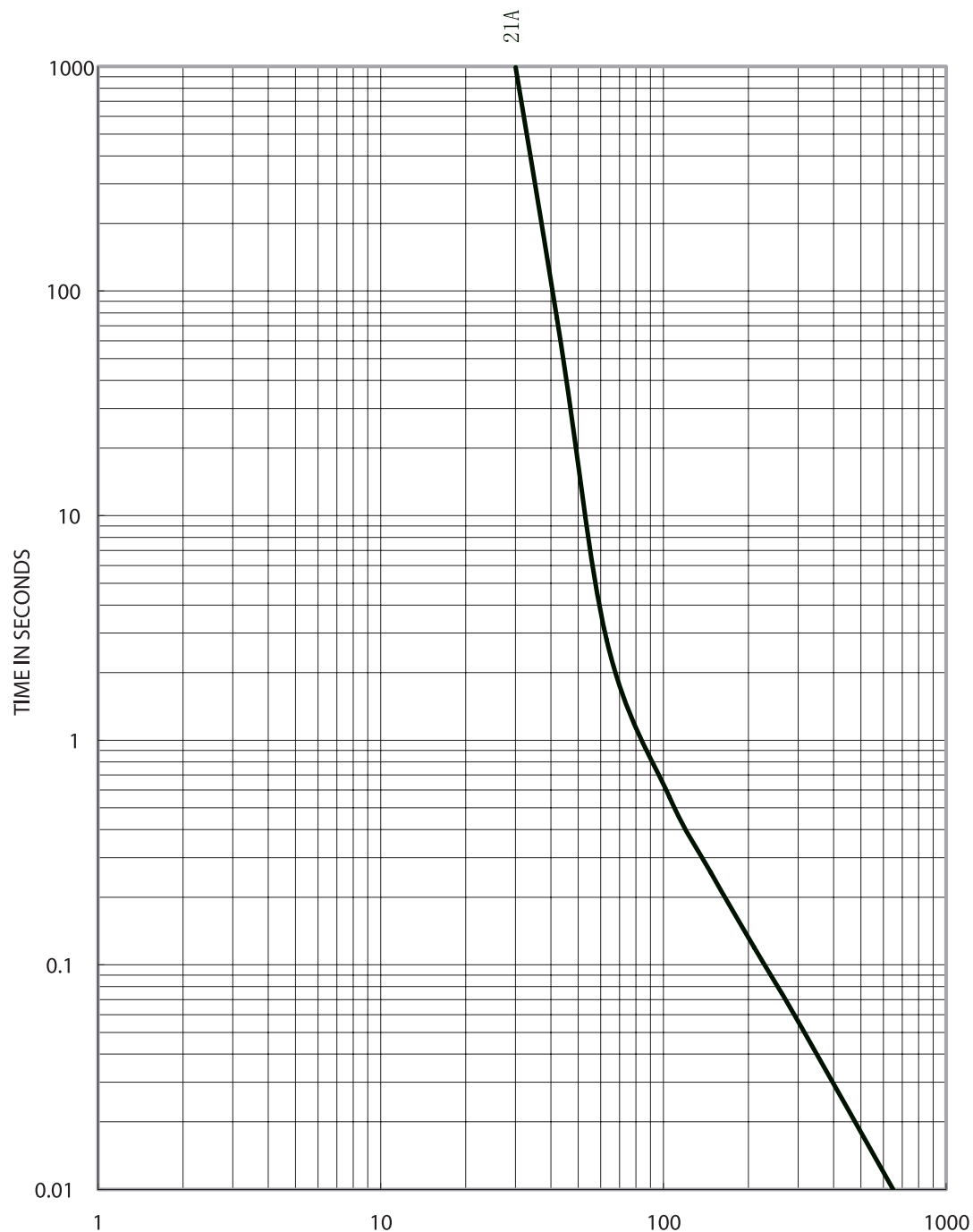
Rated Current	100 %	200%
21A	>4h	<120s

Electrical characteristics

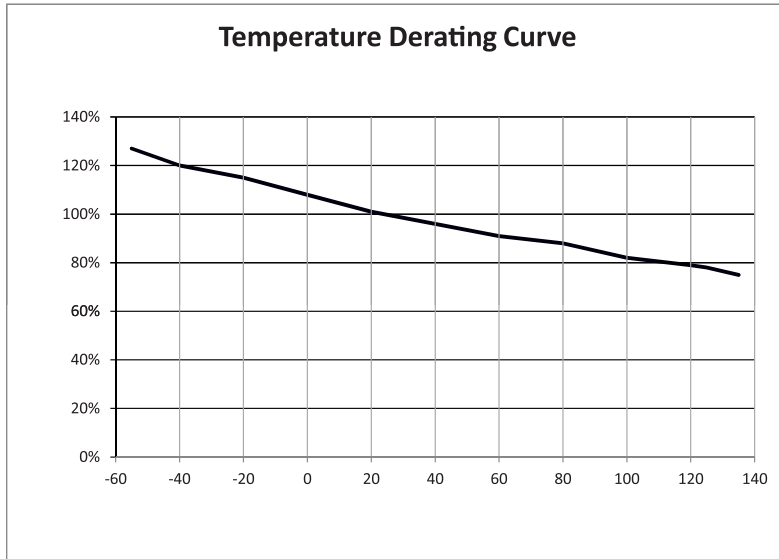
Electrical Characteristics at 25°C						
Amp Code	Rated Current	Rated Voltage	Voltage drop Max. (mV)	Typical Cold Resistance (mΩ)	Nominal Melting I ² t (A ² sec)	Breaking Capacity
MP013391	21A	125V AC 250V AC	100	2.45	5261	200A @ 600V AC 200A @ 150V DC

Notes: The current values used for calculating I²T should be at 10I_n.

Average Time Current (I-T) Curves



Temperature Derating Curve



$$\text{Calculation for ideal fuse selection} = \frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$$

Part Number Table

Description	Part Number
Cartridge Fuse, 21A, 600V AC, Lead Wire 38mm	MP013391

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