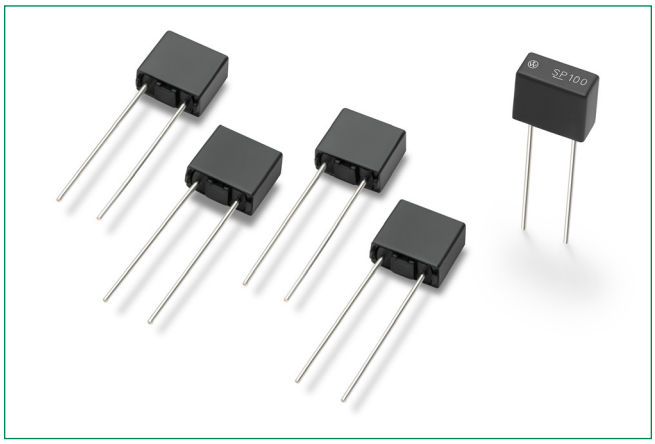
391 Series
TE5® Fast-Acting Fuse



Description

The 391 Series are TE5® short circuit protector, fast-acting type, 65V rated fuses. For Short Circuit Protection of Sensitive Electronic Components and Assemblies.

Features & Benefits

- Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Reduced PCB space requirements
- Highly defined cut-off times
- Low internal resistance
- Flame resistant encapsulated casing
- RoHS-compliant and Lead-free
- Available from 0.125A to 4A.

Additional Information

Resources | Accessories | Samples

Applications

- Battery chargers
- Consumer Electronics
- Power supplies
- Industrial controllers

Electrical Characteristics

% of Ampere Rating	Opening Time
300	2 Seconds, **Max.**

Agency Approvals

Agency	Agency File Number	Ampere Range
c UL us	E67006	0.125A - 4A
UK CA	NA	0.125A - 4A

Electrical Characteristics

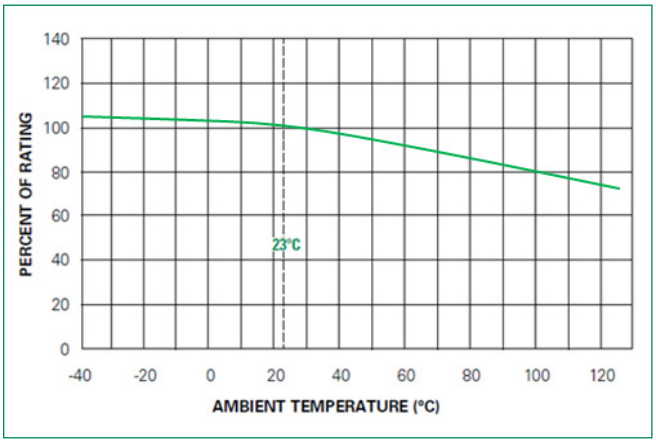
Amp Code	Rated Current	Marking Code*	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Cold Resistance 0.1×I_N max. (mΩ)	Power Disspation 1.0×I_N max. (mW)	Melting Integral 10×I_N max. (A^2s)	Agency Approvals	
									UK CA	c UL us
0125	125 mA	SP13	65 V	50A @65VAC/VDC	3.4000	3400	190	0.006	x	x
0160	160 mA	SP16	65 V		2.4800	2450	210	0.011	x	x
0200	200 mA	SP20	65 V		1.7500	1750	240	0.020	x	x
0250	250 mA	SP25	65 V		0.1950	195	52	0.012	x	x
0315	315 mA	SP32	65 V		0.1850	155	65	0.018	x	x
0400	400 mA	SP40	65 V		0.1200	120	85	0.038	x	x
0500	500 mA	SP50	65 V		0.0950	95	105	0.063	x	x
0630	630 mA	SP63	65 V		0.0750	75	135	0.105	x	x
0800	800 mA	SP80	65 V		0.0580	58	170	0.170	x	x
1100	1.00 A	SP100	65 V		0.0460	46	220	0.280	x	x
1125	1.25 A	SP125	65 V		0.0370	37	270	0.450	x	x
1160	1.60 A	SP160	65 V		0.0290	29	350	0.832	x	x
1200	2.00 A	SP200	65 V		0.0236	23	440	1.060	x	x
1250	2.50 A	SP250	65 V		0.0180	18	550	2.219	x	x
1315	3.15 A	SP315	65 V		0.0140	14	700	3.870	x	x
1400	4.00 A	SP400	65 V		0.0115	12	900	6.500	x	x

Notes:
1. * Physical Marking on top of the device.
2. Resistance is measured at 10% of rated current, 25°C.

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Revised: GD.12/07/22

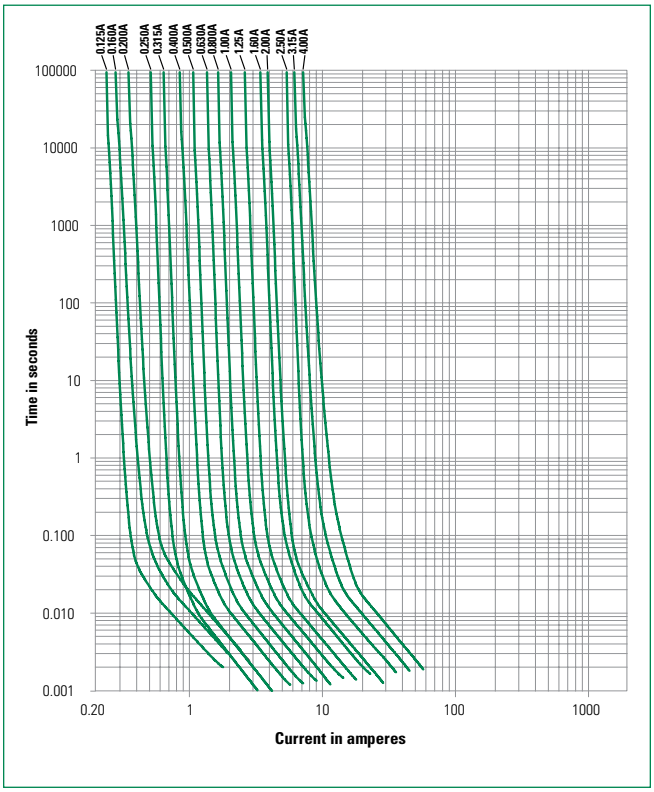
391 Series
TE5® Fast-Acting Fuse

Temperature Re-rating Curve

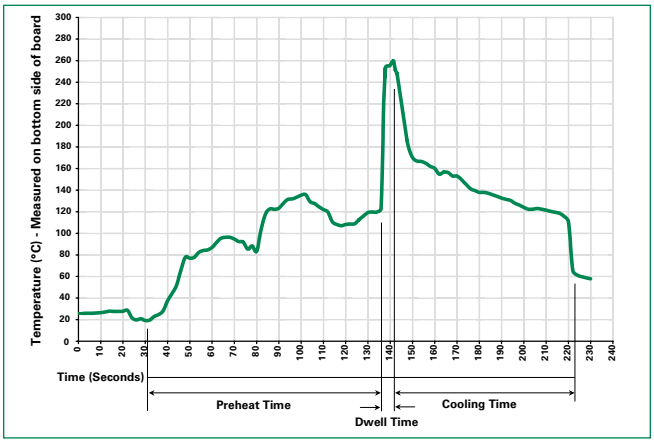


Note:
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260° C Maximum
Solder Dwell Time:	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350° C +/- 5°C
Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process.

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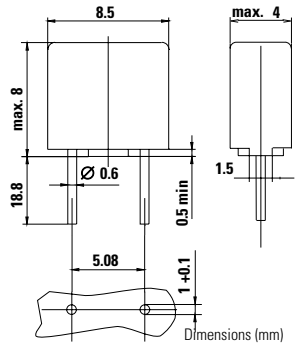
391 Series
TE5® Fast-Acting Fuse

Product Characteristics

Materials	Base/Cap: Thermoplastic Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated
Lead Pull Strength	10 N (EN 60068-2-21)
Solderability	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

Operating Temperature	-40°C to +125°C (consider re-rating)
Climatic Category	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-78)
Stock Conditions	+10 °C to +60 °C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration

Dimensions



Holes in the printed circuit board

Part Numbering System

391 xxxx 0000

Series

Amp Code

Refer to Amp Code column of Electrical Characteristics Table

Packaging Code

0000 Tape/Ammopack (1,400 pcs.)

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
		391 Series		
Tape & Ammopack	N/A	1,400	0000	N/A

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