



Additional Information



Electrical Characteristics

			Agency	Agency File Number	Ampere Ra
% of Ampere Rating Opening Time £ \$\$\mathcal{U}_{US}\$ E67006 0.1	% of Ampere Rating	g Opening Time	c FL us	E67006	0.125A -
300 2 Seconds, Max. K NA 0.1	300	2 Seconds, Max.	UK CA	NA	0.125A -

Electrical Characteristics

Description

248-14

Components and Assemblies.

Features & Benefits Recognized to UL/CSA/NMX

248-1 and UL/CSA/NMX

Highly defined cut-off times

Reduced PCB space

requirements

Applications Battery chargers

Consumer Electronics

Amp Rated M Code Current	Rated	Marking Volta	Voltage	Voltage Breaking	Nominal Cold	Cold Resistance	Power Disspation	Melting Integral	Agency Approvals	
	Code* Rating	Capacity	(Ohms) max. (m Ω)	1.0×l _N max. (mW)	10×I _N max. (A²s)	UK CA	c FL [°] us			
0125	125 mA	SP13	65 V		3.4000	3400	190	0.006	х	х
0160	160 mA	SP16	65 V		2.4800	2450	210	0.011	х	х
0200	200 mA	SP20	65 V		1.7500	1750	240	0.020	х	х
0250	250 mA	SP25	65 V		0.1950	195	52	0.012	х	х
0315	315 mA	SP32	65 V		0.1850	155	65	0.018	х	х
0400	400 mA	SP40	65 V		0.1200	120	85	0.038	х	х
0500	500 mA	SP50	65 V		0.0950	95	105	0.063	х	х
0630	630 mA	SP63	65 V		0.0750	75	135	0.105	х	х
0800	800 mA	SP80	65 V	@65VAC/VDC	0.0580	58	170	0.170	х	х
1100	1.00 A	SP100	65 V		0.0460	46	220	0.280	х	х
1125	1.25 A	SP125	65 V		0.0370	37	270	0.450	х	х
1160	1.60 A	SP160	65 V		0.0290	29	350	0.832	х	х
1200	2.00 A	SP200	65 V		0.0236	23	440	1.060	х	х
1250	2.50 A	SP250	65 V		0.0180	18	550	2.219	х	х
1315	3.15 A	SP315	65 V		0.0140	14	700	3.870	х	х
1400	4.00 A	SP400	65 V		0.0115	12	900	6.500	х	х

Notes:

1. * Physical Marking on top of the device.

2. Resistance is measured at 10% of rated current, 25°C.



- Low internal resistance Flame resistant encapsulated casing
- RoHS-compliant and Leadfree
- Available from 0.125A to 4A.
- Power supplies
- Industrial controllers

Agency Approvals

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

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

Temperature Re-rating Curve



Note:

-

Time (Seconds

20-

40-50-6070-80-90-100-120-120-130-130-

Preheat Time

Dwell Time

Temperature (°C) - Measured on bottom

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



Lead-Free Recommendation
(Typical Industry Recommendation)
100° C
150° C
60-180 seconds
260° C Maximum
2-5 seconds

Recommended Hand-Solder Parameters:

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

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



Cooling Time

Radial Lead Fuses Datasheet

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, \leq 3s. (Wave) 350° C, \leq 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, \leq 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



Holes in the printed circuit board

Part Numbering System



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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