

5×20 mm > Fast-Acting Fuse > 216SP Series

216SP Series, 5×20 mm, Fast-Acting Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range			
PS E	NBK080205-E10480B NBK250702-E10480F	1A – 5A 6.3A – 10A			
)	CCC self-declaration No.: 2020970207000049	1A – 10A			
<u>کا</u>	SU05001-11001A SU05001-11002A	1A – 2.5A 3.15A – 6.3A			
c A us	E10480	1A – 10A			
۹.	29862	1A – 10A			
DYE	40013834	1 – 6.3A			
A	J50248090	8A, 10A			
Œ	N/A	1A – 10A			

Additional Information









Samples

Description

The 216SP Series is a 5×20 mm fast-acting ceramic body cartridge fuse designed to IEC specification.

RoHS @ @ @ CCA us & A CCA

Features

- Conforms with the international IEC 60127-2 for use globally
- High breaking capacity
- Meets Standard Sheet 1 of IEC 60127-2 as a Fast-Acting fuse
- RoHS compliant and lead-free

Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
	1A – 4A	30 minutes, Maximum
210%	5A - 6.3A	30 minutes, Maximum
	8A – 10A	30 minutes, Maximum
	1A – 4A	0.01 sec, Min.; 2 sec. Max.
275%	5A - 6.3A	0.01 sec, Min.; 3 sec. Max.
	8A – 10A	0.04 sec., Min.; 20 sec. Max.
	1A – 4A	0.003 sec., Min.; 0.3 sec. Max.
400%	5A – 6.3A	0.003 sec., Min.; 0.3 sec. Max.
	8A – 10A	0.01 sec, Min.; 1.0 sec. Max.
	1A – 4A	0.02 seconds, Maximum
1000%	5A - 6.3A	0.02 seconds, Maximum
	8A – 10A	0.03 seconds, Maximum

Electrical Characteristic Specifications by Item

				Nominal		. Maximum Maximu		Agency Approvals							
Amp Code	Amp Rating	Voltage Rating	Interrupting Rating⁺	Resistance Cold Ohms (Ohms)	Nominal Melting I²t (A² sec)*	Voltage Drop at Rated Current (mV)	Power Dissapation at 1.5In (W)	PS L	۲	ß	c N us	SP.	OE	4	Œ
001.	1	250		0.2370	0.18000	1000	2.5	х	х	х	х	х	х	-	х
01.6	1.6	250		0.1112	1.00500	600	4	х	х	х	х	х	х	-	х
002.	2	250		0.0764	1.87000	500	4	х	х	х	х	х	х	-	х
02.5	2.5	250		0.0584	3.67200	400	4	х	х	х	х	х	х	-	х
3.15	3.15	250	1500 A @	0.0368	6.70000	350	4	Х	х	x	х	х	X	-	х
004.	4	250	250 VAC	0.0247	14.99500	300	4	х	х	x	х	х	X	-	х
005.	5	250		0.0183	27.46000	250	4	х	х	х	х	х	х	-	х
06.3	6.3	250		0.0137	56.43000	200	4	х	х	х	х	х	х	-	х
008.	8	250		0.0123	64.31500	200	4	Х	Х	-	х	х	-	х	х
010.	10	250		0.0079	154.34000	200	4	х	х	-	х	x	-	х	х

* - I²t test at 10x rated current

+ - Interrupting Rating may differ based on Agency Approval. See Agency Approval certificate for more details.

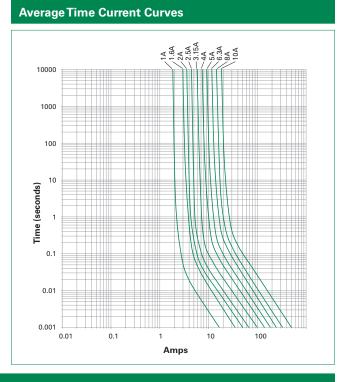


Axial Lead & Cartridge Fuses

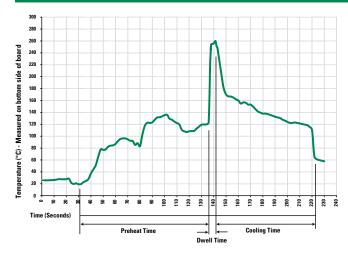
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Temperature Re-rating Curve





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

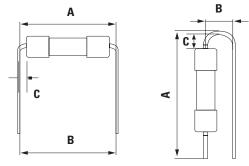
Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

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

Different values of A and B available, please contact the Littelfuse sales representative in your region:



For the pigtailed fuse, please follow the recommendations below for axial lead forming and mounting into PCB:

Lead forming:

The distance C between cap flat surface and axial lead shall be greater than 1.0 mm.

PCB mounting:

According to the standard of IPC-A-610, the distance between PCB and fuse cap is recommended to be a minimum of 1.5 mm.



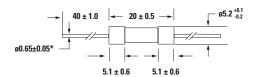
Axial Lead & Cartridge Fuses 5×20 mm > Fast-Acting Fuse > 216SP Series

Product Characteristics

Materials	Body: Ceramic Cap: Nickel–plated Brass Leads: Tin–plated Copper			
Terminal Strength	MIL-STD-202, Method 211, Test Condition A			
Solderability	MIL-STD-202 Method 208			
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Agency approval marks			

Dimensions

All dimensions in mm



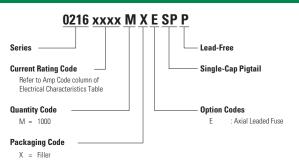
Notes:

* Ratings 8A and 10A have 0.8 ± 0.05 diameter lead.

Packaging					
Packaging Option	Packaging Specification	Quantity	Packaging Code	Reel Size	
216SP Series					
Bulk	N/A	1000	MXE	N/A	

Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B (5 cycles, –65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A (High RH (95%) and elevated temp (40°C) for 240 hours)
Salt Spray	MIL-STD-202, Method 101, Test Condition B

Part Numbering System



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