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477 Series, 5x20 mm, Time-Lag Fuse



Description

400Vdc/500Vac rated, 5x20mm, time-lag, surge withstand ceramic body cartridge fuse.







Features

- Designed to International (IEC) Standard for use globally.
- Follow the IEC 60127-2, Sheet 5 specification for time-lag fuses
- Available in cartridge and axial lead form
- RoHS compliant and lead-free

Applications

High energy and power efficient applications.

Agency Approvals

Agency	Agency File Number	Ampere Range
	Cartridge: NBK040609-JP1021A NBK040609-JP1021C NBK100408-JP1021A	1A – 5A 6.3A – 12A 16A
	Leaded: NBK040609-JP1021B NBK040609-JP1021D NBK100408-JP1021B	1A – 5A 6.3A – 12A 16A
	1219190	0.500A – 8A
	E10480	0.5A – 5A(600VAC) 0.5A – 16A(400VDC) 6.3A – 16A(500VAC)
	40025413	1A, 3.15A (500VAC) 1A, 3.15A (400VDC)
	J50248089	10A/12A/16A
	N/A	0.500A – 16A

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
150%	.5 - .8	60 minutes, Minimum
	1 - 3.15	60 minutes, Minimum
	4 - 6.3	60 minutes, Minimum
210%	.5 - .8	30 minutes, Minimum
	1 - 3.15	30 minutes, Minimum
	4 - 6.3	30 minutes, Minimum
275%	.5 - .8	.25 sec., Min.; 80 sec. Max.
	1 - 3.15	.75 sec., Min.; 80 sec. Max.
	4 - 6.3	.75 sec., Min.; 80 sec. Max.
400%	.5 - .8	.75 sec., Min.; 80 sec. Max.
	1 - 3.15	.05 sec., Min.; 5 sec. Max.
	4 - 6.3	.095 sec., Min.; 5 sec. Max.
1000%	.5 - .8	.15 sec., Min.; 5 sec. Max.
	1 - 3.15	.15 sec., Min.; 5 sec. Max.
	4 - 6.3	.15 sec., Min.; 5 sec. Max.
1000%	.5 - .8	.005 sec., Min.; .15 sec. Max.
	1 - 3.15	.01 sec., Min.; .15 sec. Max.
	4 - 6.3	.01 sec., Min.; .15 sec. Max.
1000%	8 - 16	.01 sec., Min.; .15 sec. Max.

Additional Information



Datashheet



Resources



Samples

Electrical Characteristic

Amp Code	Amp Rating	Max Voltage Rating (V)		Interrupting Rating	Nominal Cold Resistance (Milli-ohms)	Nominal Melting I^2t (A ² sec.)	Agency Approvals				
		AC	DC				PS E	UL US	S	△	VDE
.500	0.5	500	400	100A@500VAC 1500A@400VDC	1055.900	0.300		X*	X**		
.800	0.8	500	400		430.000	0.909		X*	X**		
001.	1	500	400		139.400	1.800	X	X*	X**		X
002.	2	500	400		55.200	9.120	X	X*	X**		
3.15	3.15	500	400		27.700	50.109	X	X*	X**		X
004.	4	500	400	100A@500VAC 500A@400VDC	17.200	52.480	X	X*	X**		
005.	5	500	400		13.700	76.500	X	X*	X**		
06.3	6.3	500	400		10.970	121.451	X	X	X**		
008.	8	500	400		8.305	203.520	X	X	X**		
010.	10	500	400		4.950	509.000	X	X		X	
012.	12	500	400		4.730	576.000	X	X		X	
016.	16	500	400		100A@500VAC 400A@400VDC	3.100	1331.200	X	X		X***

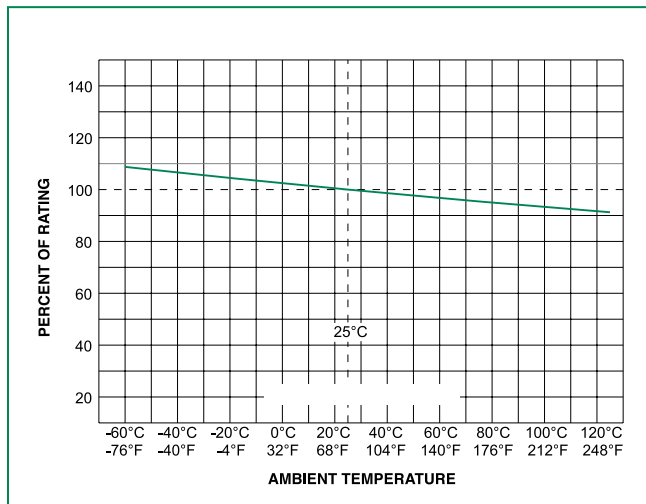
*100A @ 600Vac also available. Add suffix "MXE6P". Example: 0477004.MXE6P.

**Semko approval for 100A@500Vac & 200A@400Vdc.

I^2t test at 10x rated current.

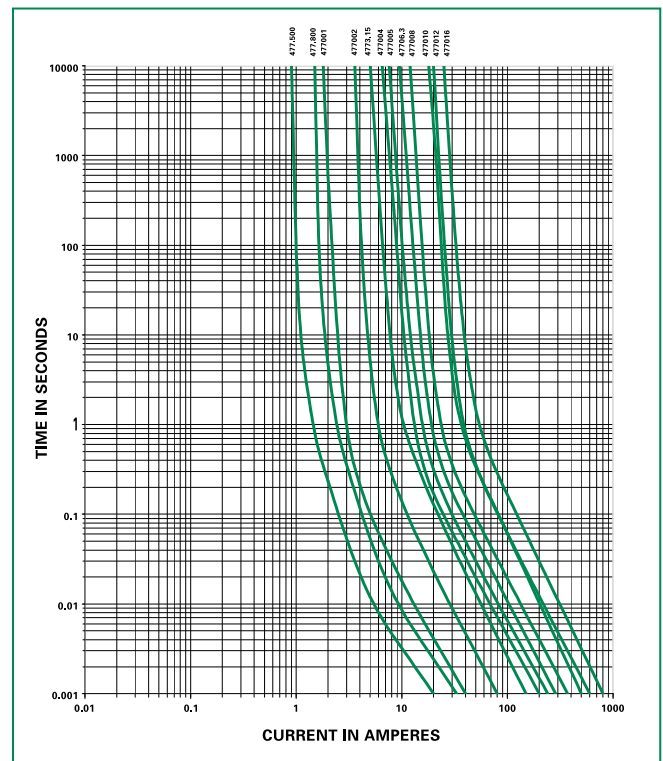
***100A@ 500Vac and 300A@400Vdc for 16A

Temperature Re-rating Curve

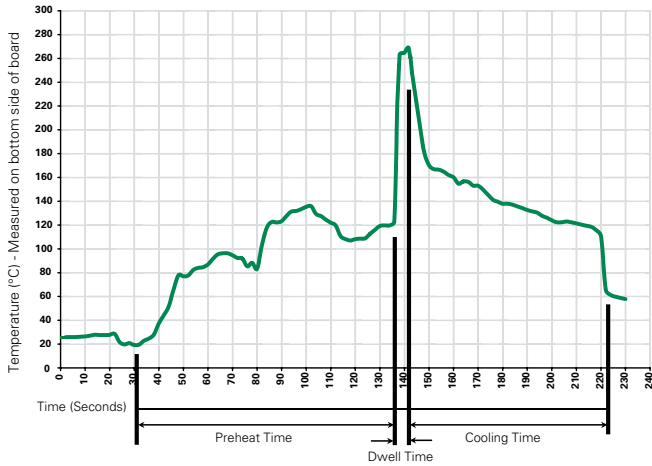


Note:
Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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.

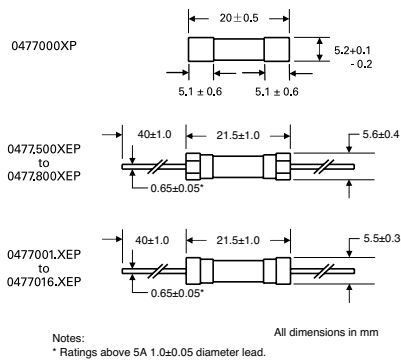
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

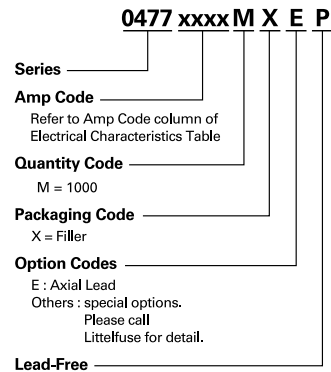
Materials	Body: Ceramic Cap: Nickel-plated Brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Series and agency approval markings
Packaging	Available in Bulk (M=1000 pcs/pkg)

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

Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
477 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A
Reel and Tape	N/A	1000	MRET1	T1=53mm (2.087")