

Axial Lead & Cartridge Fuses

5×20 mm > Fast-Acting > 217 Series

217 Series, 5 × 20 mm, Fast-acting Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	Cartridge Certificates: NBK090205-E10480A NBK120802-E10480C Leaded Certificates: NBK090205-E10480B NBK120802-E10480D	1A – 5A 6.3A – 15A
	Certificates: 2002010207007600	32mA – 6.3A
	Certificates: SU05001-3004 SU05001-2005 SU05001-2006 SU05001-2007	32mA – 40mA 50mA – 315mA 400mA – 6.3A 8A & 10A
	E10480 JDYX2	32mA – 10A
	File: 029862 Acc. Class: LR1422-30	32mA – 6.3A
	File: 948103, 915516, 304518, 1214358	32mA – 6.3A
	License: 40014645	32mA – 6.3A, 8A*, 10A*
	License: 40016647	15A*
	License: KM41462	400mA – 6.3A
		32mA – 15A

*Approval for cartridge versions only

Description

5×20mm fast-acting glass body cartridge fuse designed to IEC specification.

Features

- Designed to International (IEC) Standards for use globally
- Meets the IEC 60127-2, Sheet 2 specification for fast-acting fuses
- Available in cartridge and axial lead form
- 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
150%	32mA–100mA	60 minutes, Minimum
	125mA–6.3A	60 minutes, Minimum
	8A–15A	30 minutes, Minimum
210%	32mA–100mA	30 minutes, Maximum
	125mA–6.3A	30 minutes, Maximum
	8A–15A	30 minutes, Maximum
275%	32mA–100mA	0.01 sec., Min.; .5 sec. Max.
	125mA–6.3A	0.05 sec., Min.; 2 sec. Max.
	8A–15A	0.05 sec., Min.; 2 sec. Max.
400%	32mA–100mA	.003 sec., Min.; 0.1 sec. Max.
	125mA–6.3A	.01 sec., Min.; 0.3 sec. Max.
	8A–15A	.01 sec., Min.; 0.4 sec. Max.
1000%	32mA–100mA	.02 second, Maximum
	125mA–6.3A	.02 second, Maximum
	8A–15A	.04 second, Maximum

Additional Information



Datasheet



Resources



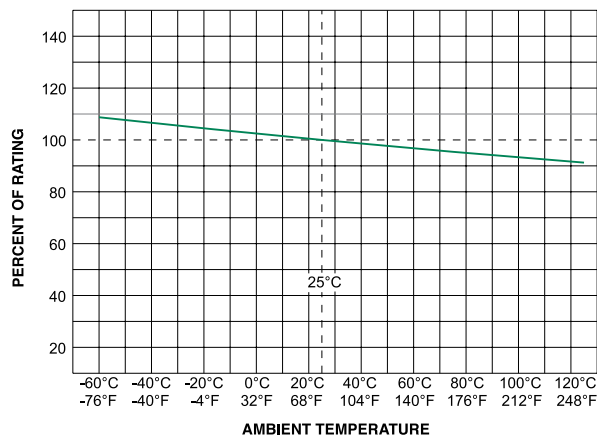
Samples

Electrical Characteristic Specifications by Item

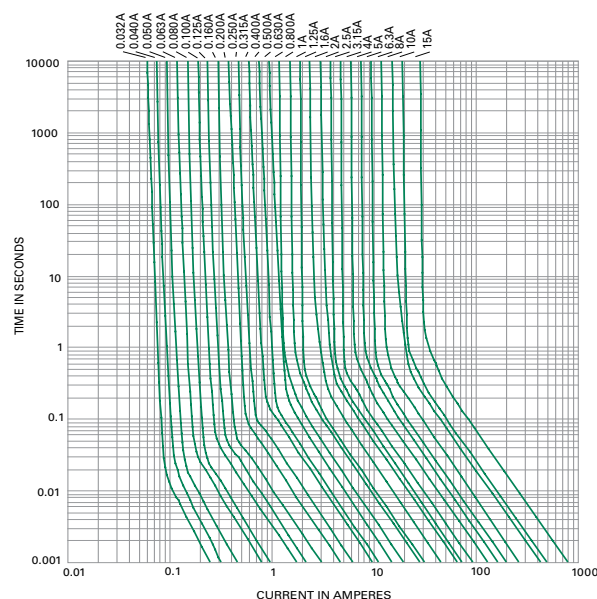
Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Maximum Voltage Drop at Rated Current (mV)	Maximum Power Dissipation At 1.5I _n (W)	Agency Approvals							
								UL	IEC	CCC	UL	UL	UL	UL	UL
.032	0.032	250	35A@250Vac	262.2000	0.00006	10000	1.6		x	x		x	x	x	x
.040	0.04	250		183.1500	0.00008	8000	1.6		x	x		x	x	x	x
.050	0.05	250		15.2000	0.00019	7000	1.6		x	x		x	x	x	x
.063	0.063	250		10.4500	0.00056	5000	1.6		x	x		x	x	x	x
.080	0.08	250		7.8900	0.00083	4000	1.6		x	x		x	x	x	x
.100	0.1	250		5.6965	0.00450	3500	1.6		x	x		x	x	x	x
.125	0.125	250		3.8200	0.00478	2000	1.6		x	x		x	x	x	x
.160	0.16	250		2.5250	0.01000	2000	1.6		x	x		x	x	x	x
.200	0.2	250		1.7000	0.02000	1700	1.6		x	x		x	x	x	x
.250	0.25	250		1.2325	0.04000	1400	1.6		x	x		x	x	x	x
.315	0.315	250		0.8800	0.11000	1300	1.6		x	x		x	x	x	x
.400	0.4	250		0.2770	0.12500	1200	1.6	x	x	x		x	x	x	x
.500	0.5	250		0.2065	0.21500	1000	1.6	x	x	x		x	x	x	x
.630	0.63	250		0.1900	0.41000	650	1.6	x	x	x		x	x	x	x
.800	0.8	250		0.1203	0.85000	240	1.6	x	x	x		x	x	x	x
001.	1	250		0.0964	1.04500	200	1.6	x	x	x	x	x	x	x	x
1.25	1.25	250		0.0701	2.23000	200	1.6	x	x	x	x	x	x	x	x
01.6	1.6	250		0.0528	4.61500	190	1.6	x	x	x	x	x	x	x	x
002.	2	250		0.0416	5.73000	170	1.6	x	x	x	x	x	x	x	x
02.5	2.5	250		0.0334	9.46000	170	1.6	x	x	x	x	x	x	x	x
3.15	3.15	250		0.0224	17.72000	150	2.5	x	x	x	x	x	x	x	x
004.	4	250	40A@250Vac	0.0165	29.16500	130	2.5	x	x	x	x	x	x	x	x
005.	5	250	50A@250Vac	0.0137	42.79500	130	2.5	x	x	x	x	x	x	x	x
06.3	6.3	250	63A@250Vac	0.0095	62.46500	130	2.5	x	x	x	x	x	x	x	x
008.	8	250	80A@250Vac	0.0068	198.16000	130	4		x		x	x		x	x*
010.	10	250	100A@250Vac	0.0063	217.63500	130	4		x		x	x		x	x*
015.	15	250	150A@250Vac	0.0040	607.13500	130	4				x			x	x*

* Approval for cartridge versions only.

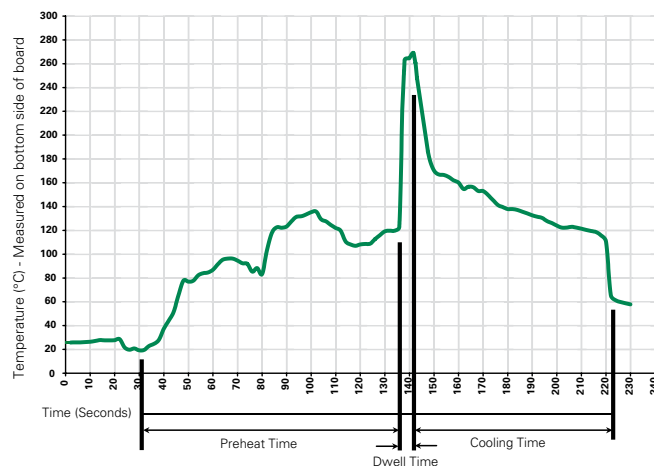
Temperature Rerating Curve



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.

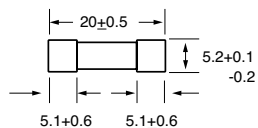
Product Characteristics

Material	Body: Glass Cap: Nickel-plated brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202G, Method 211A, Test Condition A
Solderability	Reference IEC 60127 Second Edition 2003-01 Annex A
Product Marking	Cap1: Brand logo, current and voltage ratings Cap2: Agency approval marks
Packaging	Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel)

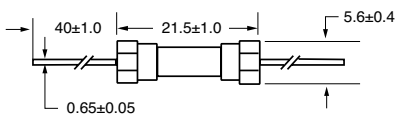
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202G, Method 201A
Humidity	MIL-STD-202G, Method 103B, Test Condition A. high RH (95%) and elevated temperature (40°C) for 240 hours.
Salt Spray	MIL-STD-202G, Method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

Dimensions

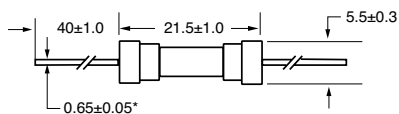
0217 000P



0217.032 XEP
to
0217.315 XEP



0217.400 XEP
to
0217015 XEP

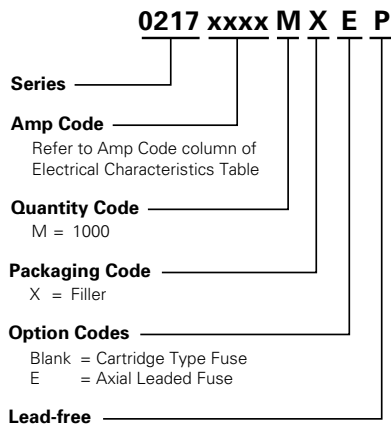


All dimensions in mm

Notes:

* Ratings above 6.3A have 0.8±0.05 diameter lead.

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
217 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A
Reel and Tape	EIA 296-E	1000	MRET1	T1=53mm (2.087")
Bulk	N/A	1000	MXG	N/A
Bulk	N/A	1000	MXB	N/A
Bulk	N/A	100	HX	N/A

Mouser Electronics

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