

217 Series

5 × 20 mm, Fast-acting Fuse

Electrical Characteristic Specifications by Item

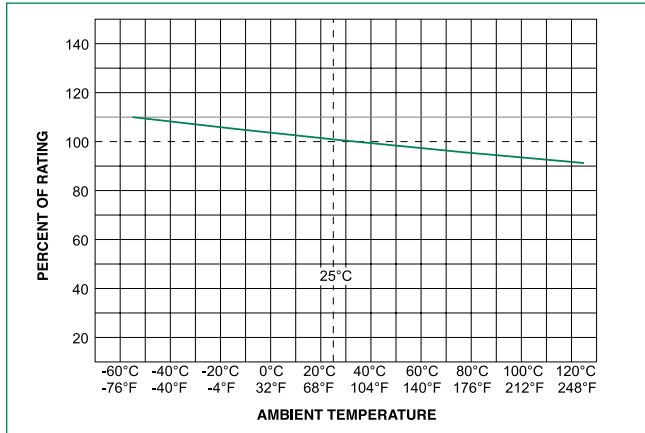
Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² sec)	Maximum Voltage Drop at Rated Current (mV)	Maximum Power Dissipation At 1.5In(W)	Agency Approvals									
																	
.032	0.032	250	35A @ 250VAC	262.2000	0.00015	10000	1.6	-	x	x	-	x	x	x	x	x	
.04	0.04	250		183.1500	0.00008	8000	1.6	-	x	x	-	x	x	x	x	x	
.05	0.05	250		15.2000	0.00049	7000	1.6	-	x	x	-	x	x	x	x	x	
.063	0.063	250		10.4500	0.00056	5000	1.6	-	x	x	-	x	x	x	x	x	
.08	0.08	250		7.8900	0.00132	4000	1.6	-	x	x	-	x	x	x	x	x	
.1	0.1	250		5.6965	0.0026	3500	1.6	-	x	x	-	x	x	x	x	x	
.125	0.125	250		3.8200	0.00478	2000	1.6	-	x	x	-	x	x	x	x	x	
.16	0.16	250		2.5250	0.01	2000	1.6	-	x	x	-	x	x	x	x	x	
.2	0.2	250		1.7000	0.02	1700	1.6	-	x	x	-	x	x	x	x	x	
.25	0.25	250		1.2325	0.04	1400	1.6	-	x	x	-	x	x	x	x	x	
.315	0.315	250		0.8800	0.11	1300	1.6	-	x	x	-	x	x	x	x	x	
.4	0.4	250		0.2770	0.125	1200	1.6	x	x	x	-	x	x	x	x	x	
.5	0.5	250		0.2065	0.215	1000	1.6	x	x	x	-	x	x	x	x	x	
.63	0.63	250		0.1900	0.41	650	1.6	x	x	x	-	x	x	x	x	x	
.8	0.8	250		0.1203	0.85	240	1.6	x	x	x	-	x	x	x	x	x	
1.	1	250		0.0964	1.045	200	1.6	x	x	x	x	x	x	x	x	x	
1.25	1.25	250		0.0701	2.23	200	1.6	x	x	x	x	x	x	x	x	x	
1.6	1.6	250		0.0528	4.615	190	1.6	x	x	x	x	x	x	x	x	x	
2.	2	250	35A@250VAC 70A@60VDC 70A@75VDC	0.0416	5.73	170	1.6	x	x	x	x	x	x	x	x	x	
2.5	2.5	250		0.0334	9.46	170	1.6	x	x	x	x	x	x	x	x	x	
3.15	3.15	250		0.0224	17.72	150	2.5	x	x	x	x	x	x	x	x	x	
4.	4	250	40A@250VAC 70A@60VDC	0.0165	29.165	130	2.5	x	x	x	x	x	x	x	x	x	
5.	5	250	50A@250VAC 70A@60VDC	0.0137	42.795	130	2.5	x	x	x	x	x	x	x	x	x	
6.3	6.3	250	63A@250VAC 70A@60VDC	0.0095	62.465	130	2.5	x	x	x	x	x	x	x	x	x	
8.	8	250	80A @ 250VAC	0.0068	198.16	130	4	-	x	-	x	x	-	-	x	x*	
10.	10	250	100A @ 250VAC	0.0063	217.635	130	4	-	x	-	x	x	-	-	x	x*	
15.	15	250	150A @ 250VAC	0.0040	607.135	130	4	-	-	-	x	-	-	-	x	x*	

* Approval for cartridge versions only.

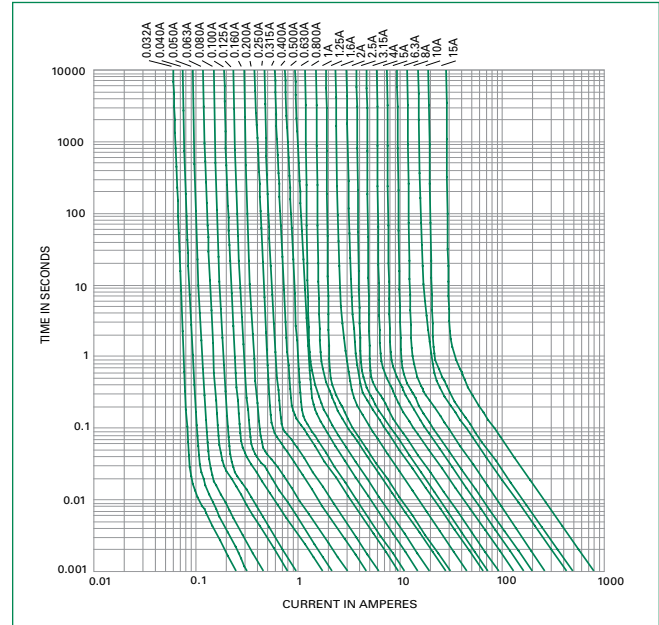
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5 × 20 mm, Fast-acting Fuse

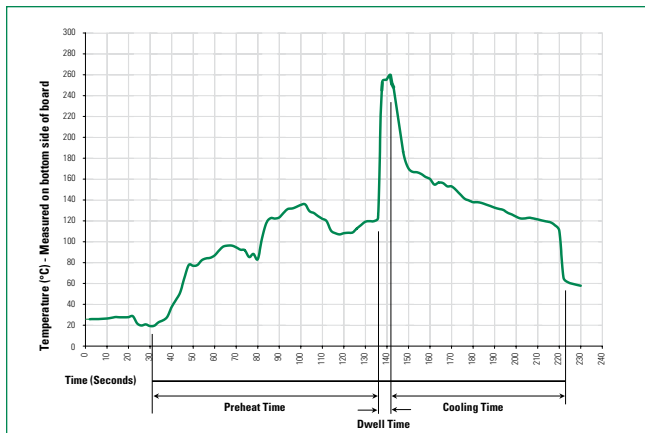
Temperature Re-rating Curve



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-202, Method 211, Test Condition A
Solderability	MIL-STD-202 method 208
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)

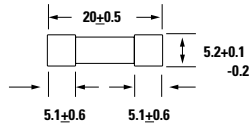
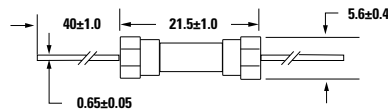
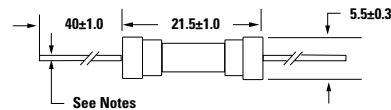
Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A. high RH (95%) and elevated temperature (40°C) for 240 hours.
Salt Spray	MIL-STD-202, Method 101,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

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Dimensions

0217 000P

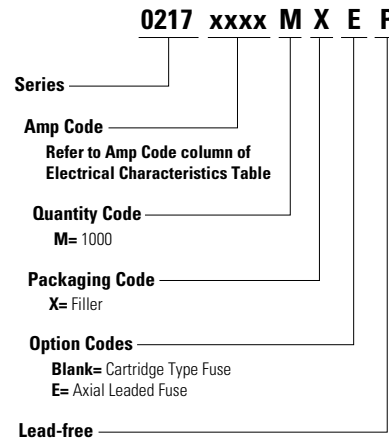
0217.032 XEP
to
0217.315 XEP0217.400 XEP
to
0217015 XEP

All dimensions in mm

Notes:

- * 0.032A-6.3A have 0.65±0.05 diameter lead
- * 8A-15A 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")
PGT With Color Code Bulk	N/A	1000	MXG	N/A
Cartridge With Color Code Bulk	N/A	1000	MXB	N/A
Bulk	N/A	100	HX	N/A

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	345_ISF	Panel Mount Shock-Safe Fuseholder	250	20
	345	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options		20
	830	PC Mount Shock-Safe Miniature Fuseholder		16
Block	520	Metric OMNI-BLOK® Fuse Block		10
	646	PC Mount Miniature Fuse Block		6.3
	658	Surface Mount Miniature Fuse Block		10
Clip	520_W	PC Mount Miniature Fuse Clip		6.3
	111	PC Board Mount Fuse Clip		10
	445	PC Board Mount Fuse Clip		10

Notes:

- Do not use in applications above rating.
- Please refer to fuseholder data sheet for specific re-rating information.
- Please contact factory for applications greater than the max voltage and amperage shown.

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