

487 Series, 5×20 mm, Fast-Acting Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	8-16A
	J 50293210	8-16A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	60 minutes, Minimum
210%	30 minutes, Maximum
275%	0.04 sec., Min.; 20 sec. Max.
400%	0.01 sec., Min.; 1.0 sec. Max.
1000%	0.03 sec., Max.

Description

The 487 Series is a 420VAC/420VDC rated 5×20mm fast-acting ceramic body fuse, designed to ensure the best coordination between a PSU (power supply unit) and an electrical circuit breaker panel during short-circuit and over-current faults. When installed in a PSU, the 487 series fuse opens faster than the circuit breaker and removes the problematic PSU while preventing the circuit breaker from shutting down other critical systems. With 420VAC characteristics, the 487 Series is well suited for high-energy applications like 3-phase power supplies, inverters, and ballasts. With 420VDC characteristics, it is optimal for high-voltage DC power grid in datacenters, telecom, and intelligent commercial buildings.

Features

- Lower I²t and faster tripping
- High current ratings up to 16A in a 5×20mm footprint
- Rated voltage @ 420VAC, 420VDC
- Available in cartridge and axial leaded versions
- RoHS compliant and Lead-free



Applications

- Telecom power supplies
- Data center server power supplies
- Higher energy and power efficient applications

Axial Lead & Cartridge Fuses

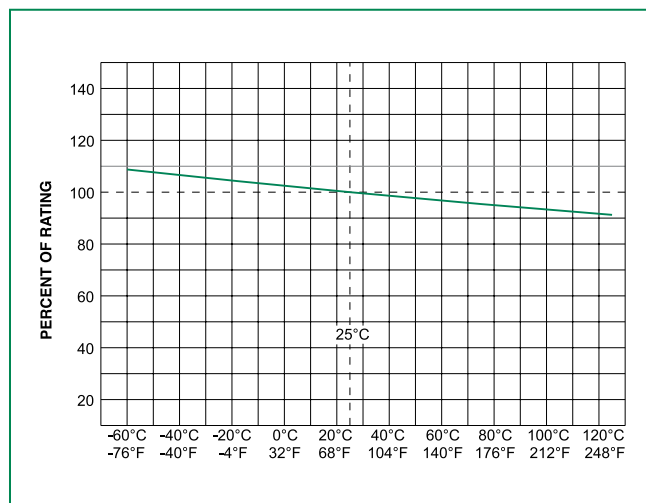
5×20 mm > Fast-Acting > 487 Series

Electrical Characteristic

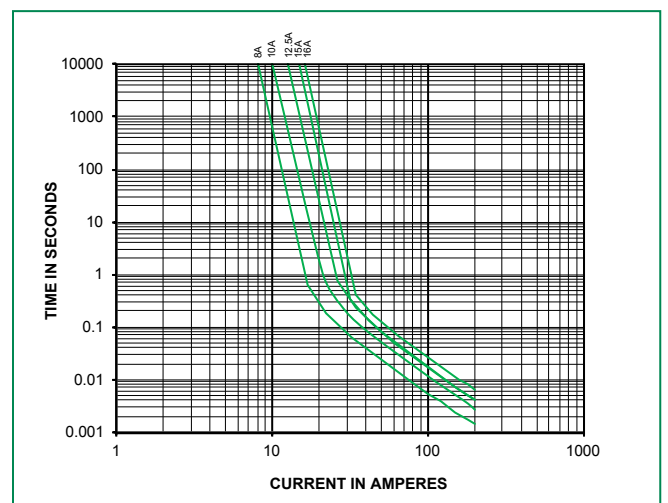
Amp Code	Amp Rating	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec.)	Agency Approvals	
							
008.	8	420VDC 420VAC	300A@420VDC 200A@420VAC	0.0134	65	x	x
010.	10			0.0093	130	x	x
12.5	12.5			0.0078	170	x	x
015.*	15			0.0075	190	x	x
016.	16			0.0064	260	x	x

* Additional 1000A @250Vac interrupting rating for 15A

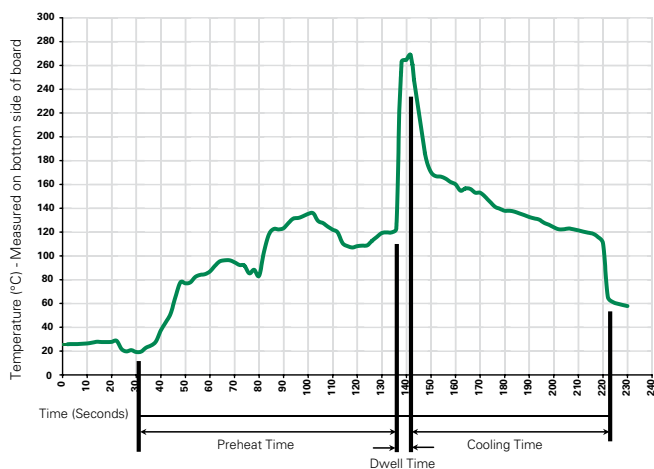
Temperature Derating Curve



Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	
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.

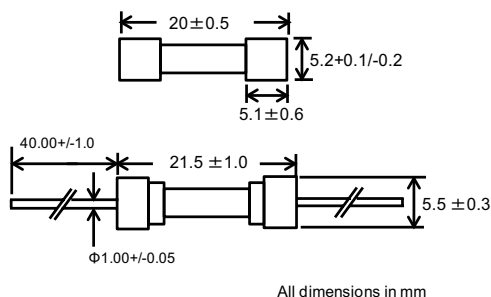
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

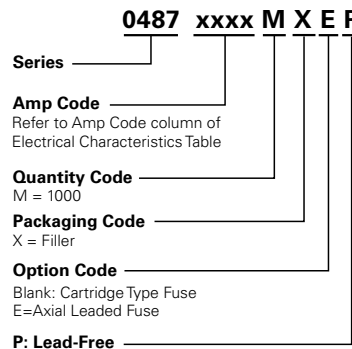
Materials	Body: Ceramic Cap: Nickel-plated Brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202G, Method 211A, Test Condition A
Solderability	Reference MIL-STD-202 method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings Cap 2: Series and agency approval markings

Operating Temperature	-55°C to +125°C
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B
Vibration	MIL-STD-202G, Method 201A
Moisture Resistance	MIL-STD-202G, Method 103B, Test Condition A
Salt Spray	MIL-STD-202G, Method 101E, Test Condition B

Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
487 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



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