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Special Application Fuses

PICO® 259 Series Safe-T-Plus Fuse for Hazardous Locations

PICO® 259 Series Safe-T-Plus Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	Baseefa02ATEX0071U	0.062A - 5A
	IECEx BAS 10.0098U	0.062A - 5A
	E10480	0.062A - 5A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hours, Minimum
200%	5 Seconds, Maximum

Reference Standards

Agency	Standards
ATEX	EN 60079-0, EN 60079-11
IECEx	IEC 60079-0, IEC 60079-11

Electrical Specifications by Items

Ampere Rating (A)	Amp Code	Interrupting Rating	Nominal Melting I ² t (A ² Sec.)	Minimum Cold Resistance at -20°C (Ohms)	Minimum Cold Resistance at -40°C (Ohms)	Nominal Cold Resistance at 25°C (Ohms)	Agency Approvals		
0.062	.062	50A @ 125 VAC 300A @ 125 VDC	0.00011	4.89	4.39	7.00	x	x	x
0.125	.125		0.0012	1.35	1.26	1.70	x	x	x
0.250	.250		0.0095	0.51	0.48	0.665	x	x	x
0.375	.375		0.025	0.32	0.29	0.395	x	x	x
0.500	.500		0.0598	0.24	0.22	0.302	x	x	x
0.750	.750		0.153	0.14	0.12	0.175	x	x	x
1.00	001.		0.256	0.10	0.07	0.128	x	x	x
3.00	003.		1.27	0.03	0.01	0.03	x	x	x
5.00	005.	50A @ 125 VAC 300A @ 63 VDC	4.14	0.01	0.005	0.0158	x	x	x

1) The fuse must be so mounted that creepage and clearance distances aren't impaired in any way.

2) The fuse is suitable for use in intrinsically safe equipment for voltages not exceeding 190V peak.

3) Maximum surface temperature rise at 170% rated current: $\leq 750mA = 40^\circ C$, $1A = 55^\circ C$, $3A = 118^\circ C$ and $5A = 135^\circ C$.

Description

The Safe-T-Plus 259 Series offers a range of encapsulated fuses designed to enable greater safety for operating electronic equipment within potentially explosive environments. Originally designed to serve the needs of gas plants, petrochemical and processing industries, these fuses are certified for use within intrinsically safe apparatus with ATEX and IECEx certifications.

The fuse design and its encapsulant are suitable for use in intrinsically safe apparatus and associated apparatus for voltage not exceeding 125V rms (190V peak).

Features

- Encapsulated and sealed (1mm minimum)
- ATEX and IECEx certified components
- 0.062A - 5A range options
- RoHS compliant
- Designed to operate within environments where there is danger of gas explosion from faulty circuits

Applications

- Testing, measuring or processing electronic and electrical equipment

Additional Information



Datasheet



Resources



Samples

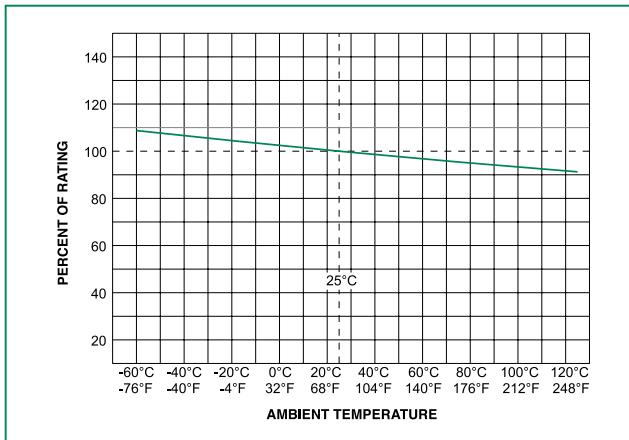
Special Application Fuses

PICO® 259 Series Safe-T-Plus Fuse for Hazardous Locations

Product Characteristics

Materials	Body : Polyamide Terminals - Tin Plated Copper Alloy Max. operating temperature of materials 130°C
Operating Temperature	Operating temperature depends on fuse rating and max. allowed fuse surface temperature. (Consider re-rating)
Thermal Shock	Withstands 5 cycles of -55°C to 125°C
Vibration	Per MIL-STD-202, Method 201
Insulation Resistance (After Opening)	Greater than 10,000 ohms

Temperature Re-rating Curve



Note:

1. Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Soldering Parameters

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 Soldering Parameters:

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

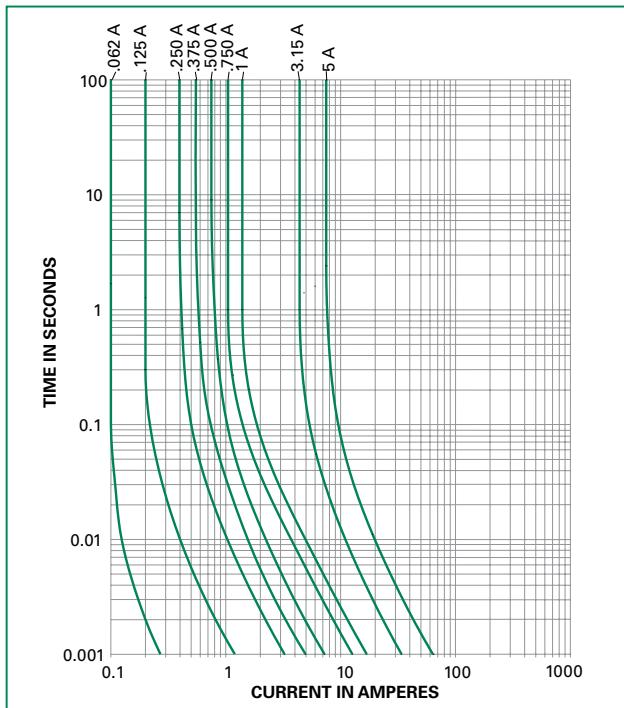
Heating Time: 5 seconds max.

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

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Bulk	N/A	1000	M = Bulk 1000 pieces, T = Bulk 10 pieces
Bulk	N/A	10	Please refer to available quantities above in "Part Numbering System"

Average Time Current Curves



Part Numbering System

0259.062M

SERIES _____

AMP Code _____

The dot is positioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings. Refer to Amp Code column in the Electrical Specifications table.

PACKAGING Code _____

M = Bulk pack, 1000 pcs
T = Bulk pack, 10 pcs

Example:
1 amp product is
0259**001**.M
(.062 amp product shown).

Dimensions

