



Agency Approvals

Agency	Agency File Number	Ampere Rating		
⟨Ex⟩	DEMKO 13 ATEX 1200U	50 - 750mA		
c FU °us	E358130	50 - 750mA		
IEC IECEX	IECEx UL 13.0077U Ex ia IIC	50 - 750mA		
(€	NA	50 - 750mA		

Reference Standards

Agency	Standards			
ATEX	EN 60079-0, EN 60079-11, EN 60079-26			
IECEx	IEC 60079-0, IEC 60079-11, IEC 60079-26			
United States	UL 913, UL 60079-0, UL 60079-11, UL 248-1, UL 248-14			
Canada	CAN/CSA C22.2 No. 157, CAN/CSA C22.2 No. 60079-0,CAN/CSA C22.2 No. 60079-11, CSA 248-1, CSA 248-14			

Description

The PICO® 304 Series offers a range of suface mountable encapsulated fuses certified as intrinsically safe components that can be used in hazardous locations. Ideal for use in oil, gas, mine, chemical, pharmaceutical and process industries, the PICO® 304 Series surface mountable fuse was designed to limit the energy and temperature generated during its operation. The fuse design and its encapsulant are suitable for use in intrinsically safe apparatus and associated apparatus for peak voltage not exceeding 375V.

Features

- Surface Mountable
- Encapsulated and sealed (1mm minimum)
- High breaking capacity of 1500A at 277V AC/DC
- Current rating options from 0.050 to 0.750A
- Global hazardous location certifications
- Suitable for Class I, Class II, Class III, and Zone 0 Hazardous Location.
- RoHS-compliant

Applications

- Testing, measuring or processing electronic and electrical equipment
- Motor controllers
- Communication handsets/twoway radios
- Process control and automation
- Sensors
- Lighting
- Flow/gas meters

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
110%	4 Hours, Minimum
300%	10 Seconds, Maximum

Electrical Specifications by Items

Catalog	Ampere	Ampere Amp	Amp Interrupting	Nominal	Minimum Cold	Minimum Cold	Nominal Cold		Agency Ap	provals	
Number	Rating (A)	Code	Rating	Melting I ² t (A ² Sec.)	Resistance at -20°C (Ohms)	Resistance at -40°C (Ohms)	Resistance at 25°C (Ohms)	⟨£x⟩	c FL °us	IEC IECEX	Œ
0304.050	0.050	.050	1500A @ 277VAC/DC	0.00019	9.202	9.010	12.00	X	X	Χ	Χ
0304.080	0.080	.080		0.00035	6.031	5.963	8.19	X	X	X	Χ
0304.100	0.100	.100		0.00070	2.709	2.668	5.00	X	X	X	Χ
0304.160	0.160	.160		0.00202	2.297	2.292	3.00	X	X	X	Χ
0304.200	0.200	.200		0.00288	1.935	1.839	2.68	X	X	X	Χ
0304.250	0.250	.250		0.00662	1.268	1.105	1.60	Χ	X	X	Χ
0304.500	0.500	.500		0.04462	0.392	0.368	0.46	X	X	X	Χ
0304.750	0.750	.750		0.13448	0.219	0.196	0.27	Х	X	Х	X

Notes: 1. The fuse must be mounted so that creepage and clearance distances are not impaired in any way.

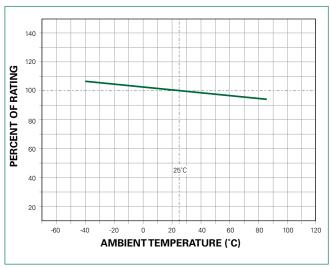
2. The fuse is suitable for use in intrinsically safe equipment and associated apparatus for voltage not exceeding 375V peak.

- 3. Maximum surface temperature rise at 170% rated current: ≤200mA = 88°C, 250mA = 52°C, 500mA = 52°C, and 750mA = 45°C.



304 Series PICO® 277V Intrinsically Safe Fuse

Temperature Rerating Curve



Notes:

- 1. Rerating depicted in this curve is in addition to the standard rerating of 25% for continuous operation.
- 2. The temperature rerating curve represents the nominal conditions. For questions about temperature rerating curve, please consult Littelfuse technical support for assistance.

Product Characteristics

Operating Temperature					
Current Rating	Ambient Temperature				
≤0.200A	-40°C to +60°C				
0.250A	-40°C to +56°C				
0.500A	-40°C to +84°C				
0.750A	-40°C to +56°C				

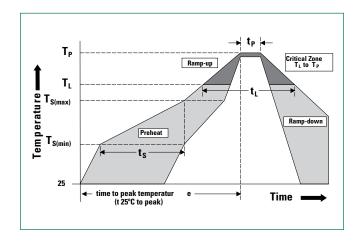
Notes:

- Any use of the 304 Series fuse outside of the ambient temperature ranges specified in the table is subject to additional investigation.
- 2. Specified ambient temperature range is for intrinsic safety certification.

Molding Material	Polyamide 6T/66 CTI 175 volts minimum Continuous Operating Temperature: 140°C		
Thermal Shock	Withstands 5 cycles of -55°C to 125°C		
Mechanical Shock	MIL-STD-202, Method 213		
Insulation Resistance (After Opening)	Greater than 10,000 ohms (at twice rated DC voltage)		
Resistance to Soldering Heat	MIL-STD-202, Method 210		
Moisture Resistance	MIL-STD-202, Method 106		
Salt Fog Test	MIL-STD-202, Method 101		

Soldering Parameters

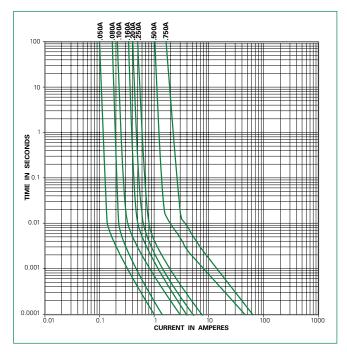
Reflow Condition	Pb-free assembly			
Pre Heat	-Temperature Min (Ts(min))	150°C		
	- Temperature Max (Ts(max))	200°C		
	-Time (Min to Max) (ts)	60 - 120 seconds		
Average Ramp- peak)	5°C/second max			
Ts(max) to TL - Ra	5°C/second max			
Reflow	- Temperature (TL) (Liquidus)	217°C		
	-Temperature (tL)	60 - 150 seconds		
Peak Temperatu	260+0/-5°C			
Time within 5°	20 - 40 seconds			
Ramp-down Ra	5°C/second max			
Time 25°C to Po	8 minutes max			
Do not exceed	260°C			
Ways Caldering				
Wave Soldering	260°C, 10 sec. max			



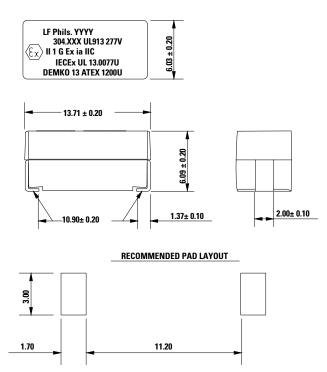


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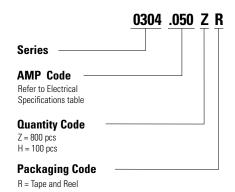
Average Time Current Curves



Dimensions (mm)



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	EIA 481-1	800	ZR
		100	HR

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