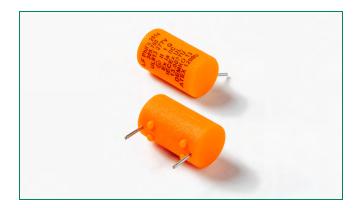


ROHS C THE US EX IEC RECEX

PICO® 305 Series - 277V Intrinsically Safe Fuse





Agency Approvals

Agency	Agency File Number	
€x>	DEMKO 13 ATEX 1200U	
c FL ° us	E358130	
IEC IEČEX	IECEx UL 13.0077U	

Reference Standards

Agency	Standards
ATEX	EN 60079-0, EN 60079-11, EN 60079-26
IECEx	IEC 60079-0, IEC 60079-11, IEC 60079-26
UL	UL 913, UL 60079-0, UL 60079-11
cUL	CAN/CSA C22.2 No. 157, CAN/CSA C22.2 No. 60079-0, CAN/CSA C22.2 No. 60079-11

Description

The PICO® 305 Series Fuse offers a range of encapsulated fuses certified under UL 913, the standard for intrinsically safe electrical equipment, to operate in hazardous locations. Ideal for use in oil, gas, mine, chemical, and pharmaceutical process industries, the PICO 305 Series fuse was designed to limit the energy and temperature generated during its operation. The fuse design and its encapsulant are suitable for use in an intrinsically safe apparatus and associated apparatus for peak voltage not exceeding 375V.

Features

- 1500A
- Well suited for 277V applications
- RoHS Compliant
- High Interrupting Rating of Designed for operation in a range of hazardous environments
 - Encapsulated and sealed (1mm minimum)
 - · Global hazardous location certifications

Applications

- Testing, measuring or processing electronic and electrical equipment
- Motor controllers
- Communication handsets
- · 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	
1000%	0.002 Seconds, Maximum	

Electrical Specifications by Items

Ampere	I Amn I Interrupting I			Minimum Cold		Nominal Cold	Agency Approvals		
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 TECEX
0.050	.050		0.00019	9.202	9.010	12.00	Х	Х	х
0.080	.080		0.00035	6.031	5.963	8.19	Х	Х	х
0.100	.100		0.00070	2.709	2.668	5.00	Х	Х	Х
0.160	.160	1500A @	0.00202	2.297	2.292	3.00	Х	Х	х
0.200	.200	277VAC/DC	0.00288	1.935	1.839	2.68	Х	Х	х
0.250	.250		0.060050	1.268	1.105	1.60	Х	Х	х
0.500	.500		0.127400	0.392	0.368	0.46	Х	Х	Х
0.750	.750		0.13448	0.219	0.196	0.27	х	х	x

- 1) The fuse must be mounted so that creepage and clearance distances aren't 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=80°C, 250mA = 84°C, 500mA = 56°C, and 750mA = 84°C.

Specifications are subject to change without notice

Special Application Fuses Intrinsically Safe > Radial Leaded > PICO® 305 Series Fuse

Product Characteristics

Operating Temperature		
Current Rating	AmbientTemperature	
≤ 0.200 A	- 40°C to +50°C	
0.250 A	- 40°C to +46°C	
0.500 A	- 40°C to +74°C	
0.750 A	- 40°C to +46°C	

Notes:

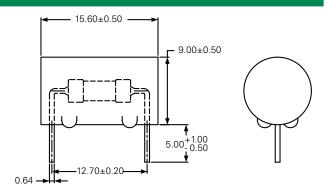
- 1) Any use of the 305 Series fuse outside of the ambient temperature ranges specified in the table is subject to additional investigation.
- 2) Specified ambient temperature range is for intrinsic safety certification.

Molding Material	Polyamide 6 CTI 175 volts minimum Continuous Operating Temperature: 130°C		
Thermal Shock	Withstands 5 cycles of –55°C to 125°C		
Vibration	Per MIL-STD-202		
Insulation Resistance (After Opening)	Greater than 10,000 ohms (at twice rated DC voltage)		

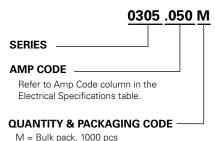
Soldering Parameters

Wave Soldering	260°C, 10 seconds max.

Dimensions



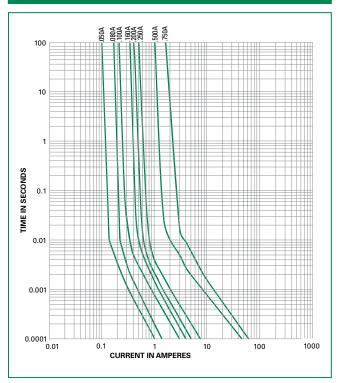
Part Numbering System



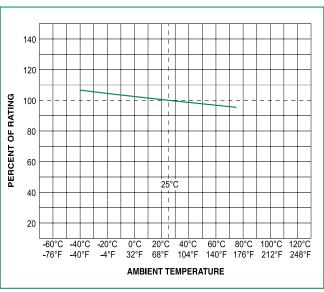
H = Bulk pack, 100 pcs

V = Bulk pack, 5 pcs

Average Time Current Curves



Temperature Rerating Curve



Notes:

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

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