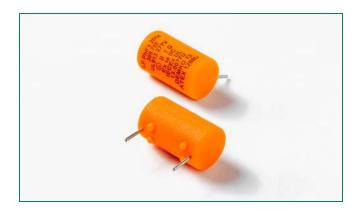


PICO® 305 Series - 277V UL913 Intrinsically Safe Fuse





Agency Approvals

Agency	Agency File Number
ATEX	DEMKO 13 ATEX 1200U
c FL ° us	E358130
IECEx	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 offer a range of encapsulated fuses approved under UL 913 standard for Intrinsically Safe Electrical Equipment to operate in hazardous locations. Ideal for use in oil, gas, mine, chemical, and pharmaceutical 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 voltage not exceeding

Features

- High Interrupting Rating of Designed for operation 1500A
- Well suited for 277V application
- Current rating options from 0.050 to 0.750A
- in a range of hazardous environments
- Sealed

Applications

- Testing, measuring or processing electronic and electrical equipment
- Motor controllers
- Communication handsets
- Process control and automations
- Sensors
- Lighting
- Flowmeters

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	latanian dia a Batia a	A C	Nominal	Nominal Melting I ² t (A ² Sec.)	Agency Approvals		
Rating (A)	Interrupting Rating	Amp Code	Cold Resistance (Ohms)		ATEX	c FL °us	IECEx
0.050	- 1500A @ 277VAC/DC	.050	11.34	0.00019	х	Х	×
0.080		.080	8.19	0.00035	х	X	×
0.100		.100	3.60	0.00138	х	Х	×
0.160		.160	3.00	0.00202	×	Х	X
0.200		.200	2.68	0.00288	X	Х	×
0.250		.250	1.6	0.00662	X	Х	X
0.500		.500	0.46	0.04462	х	Х	×
0.750		.750	0.27	0.13448	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.



Product Characteristics

Operating Temperature		
Current Rating	Ambient Temperature	
≤ 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	

Note:

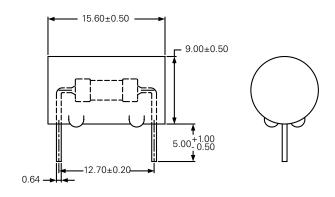
1) Any use of the 305 Series fuse outside of the ambient temperature ranges specified in the table is subject to additional investigation.

Thermal Shock	Withstands 5 cycles of –55°C to 125°C
Vibration	Per MIL-STD-202F
Insulation Resistance (After Opening)	Greater than 10,000 ohms (at twice rated DC voltage)

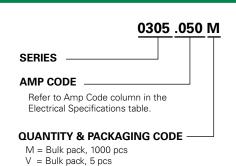
Soldering Parameters

Wave Soldering	260°C, 10 seconds max.

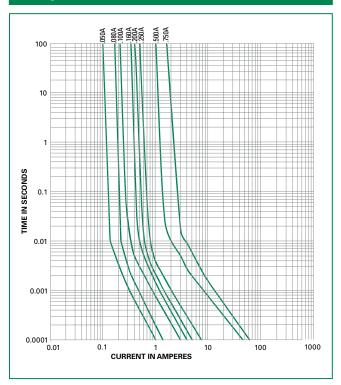
Dimensions



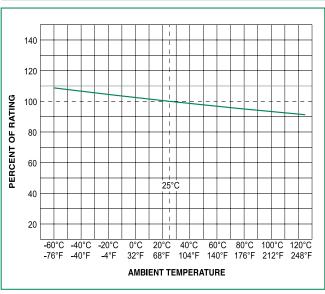
Part Numbering System



Average Time Current Curves



Temperature Rerating Curve



Note:

1) Rerating depicted in this curve is in addition to the standard rerating of 25% for continuous operation.