

# Axial Lead and Cartridge Fuses

Designed to UL/CSA Standards



**5 x 20 mm** Time Lag Fuse (Slo-Blo®) Fuse 239P Series



- Designed to UL/CSA/ANCE 248 Standard.
- Available in Cartridge and Axial Lead Format.
- Available in ratings of 0.200 to 7 amperes.
- RoHS compliant and Lead-Free

## ELECTRICAL CHARACTERISTICS:

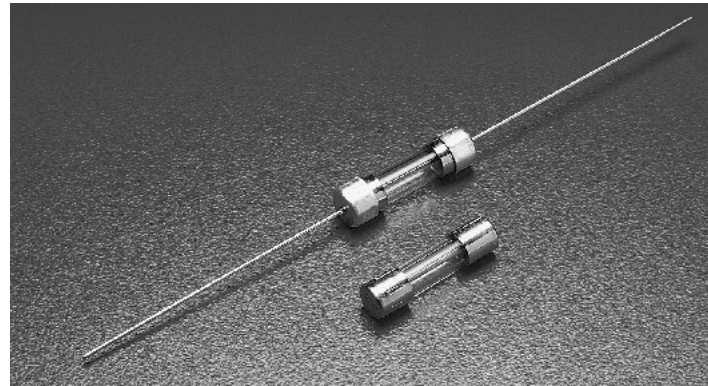
| % of Ampere Rating | Opening Time                                 |
|--------------------|----------------------------------------------|
| 100%               | 4 hours, <b>Minimum</b>                      |
| 135%               | 1 hour, <b>Maximum</b>                       |
| 200%               | 5 seconds, <b>Min.</b> ; 2 min., <b>Max.</b> |

## INTERRUPTING RATING:

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| 0.20-1A     | 10,000 amperes at 125 VAC, 0.7-0.8 power factor<br>35 amperes at 250 VAC, 0.7-0.8 power factor  |
| 1.25A-3.15A | 10,000 amperes at 125 VAC, 0.7-0.8 power factor<br>100 amperes at 250 VAC, 0.7-0.8 power factor |
| 4A-7A       | 10,000 amperes at 125 VAC, 0.7-0.8 power factor                                                 |

## ORDERING INFORMATION:

| Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec. |
|----------------|---------------|----------------|------------------------------|------------------------------------------------------|
| 239.200P       | .200          | 250            | 3.873                        | 0.166                                                |
| 239.250P       | .250          | 250            | 3.070                        | 0.341                                                |
| 239.300P       | .300          | 250            | 2.300                        | 0.613                                                |
| 239.400P       | .400          | 250            | 1.475                        | 1.490                                                |
| 239.500P       | .500          | 250            | 0.909                        | 1.986                                                |
| 239.600P       | .600          | 250            | 0.699                        | 2.415                                                |
| 239.700P       | .700          | 250            | 0.538                        | 4.119                                                |
| 239.750P       | .750          | 250            | 0.471                        | 5.424                                                |
| 239.800P       | .800          | 250            | 0.416                        | 7.566                                                |
| 239 001.P      | 1             | 250            | 0.297                        | 11.296                                               |
| 239 1.25P      | 1.25          | 250            | 0.198                        | 19.524                                               |
| 23901.6P       | 1.60          | 250            | 0.120                        | 30.430                                               |
| 239002.P       | 2             | 250            | 0.094                        | 50.586                                               |
| 23902.5P       | 2.50          | 250            | 0.058                        | 79.701                                               |
| 239003.P       | 3             | 250            | 0.0480                       | 129.509                                              |
| 2393.15P       | 3.15          | 250            | 0.0410                       | 128.048                                              |
| 239004.P       | 4             | 125            | 0.0310                       | 270.703                                              |
| 239005.P       | 5             | 125            | 0.0200                       | 302.836                                              |
| 239007.P       | 7             | 125            | 0.0114                       | 305.758                                              |



## ENVIRONMENTAL SPECIFICATIONS:

**Operating temperature:** -55°C to 125°C

**Thermal Shock:** MIL-STD-202F Method 107G, Test Condition B: (5 cycles -65°C to +125°C)

**Vibration:** MIL-STD-202F Method 201A

**Humidity:** MIL-STD-202F Method 103B, Test Condition A. high relative humidity (95%) and elevated temperature (40°C) for 240 hours.

**Salt Spray:** MIL-STD-202F Method 101D, Test Condition B

## PHYSICAL SPECIFICATIONS:

**Material:** Body: Glass  
Cap: Nickel Plated Brass  
Leads: Tin Plated Copper

**Terminal Strength:** MIL-STD-202F Method 211A, Test Condition A

**Solderability:** Reference IEC 60127 Second Edition 2003-01 Annex A

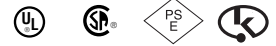
**Product Marking:** Cap 1: current and voltage rating.  
Cap 2: Agency approval markings.

**Packaging:** Available in Bulk (V=5, H=100, M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel).

# Axial Lead and Cartridge Fuses

Designed to UL/CSA Standards

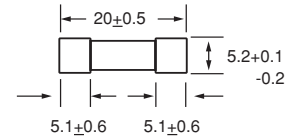
**RoHS** **Pb** **5 x 20 mm** Time Lag Fuse (Slo-Blo®) Fuse 239P Series



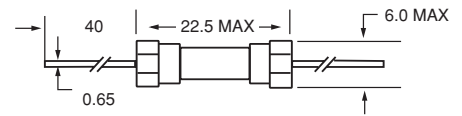
## Agency Approvals

| Agency Approvals                                                                  |                               | Ampere Range         |
|-----------------------------------------------------------------------------------|-------------------------------|----------------------|
|  | Certificate No. Cartridge     |                      |
|                                                                                   | NBK290502-E10480 G            | 1A – 3.15A 250V 100A |
|                                                                                   | NBK280602-E10480 C            | 4A & 5A 125V 10000A  |
|                                                                                   | NBK290502-E10480 I            | 7A 125V 500A         |
|                                                                                   | Leaded                        |                      |
|  | NBK290502-E10480 H            | 1A – 3.15A 250V 100A |
|                                                                                   | NBK280602-E10480 D            | 4A & 5A 125V 10000A  |
|                                                                                   | NBK290502-E10480 J            | 7A 125V 500A         |
|                                                                                   |                               |                      |
|  | Certificate No. SU05001-2004A | 200mA – 3.15A        |
|                                                                                   | SU05001-2014A                 | 4A – 7A              |
|  | Listed File No. E10480        | 200mA – 7A           |
|                                                                                   | Guide No. JDYX                |                      |
|  | File No. 029862               |                      |
|                                                                                   | Cert. Class No. LR1422-01     |                      |
|  |                               |                      |

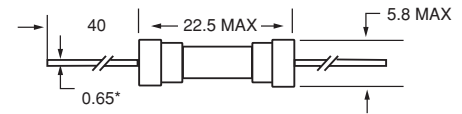
**0235000P**



**0235.100 XEP  
to  
0235.400 XEP**



**0235.500 XEP  
to  
0235006.XEP**



All dimensions in mm

## Average Time Current Curves

