

# Axial Lead and Cartridge Fuses

Designed to UL/CSA Standards

**RoHS** **Pb** **5 x 20 mm** Fast-Acting Fuse 235 Series



- Designed to UL/CSA/ANCE 248 Standard.
- Available in Cartridge and Axial Lead Format.
- Available in ratings of 0.100 to 6 amperes.
- RoHS compliant and Pb-free version available, add XP suffix to standard catalog number

## ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Opening Time             |
|--------------------|--------------------------|
| 100%               | 4 hours, <b>Minimum</b>  |
| 135%               | 1 hour, <b>Maximum</b>   |
| 200%               | 5 second, <b>Maximum</b> |

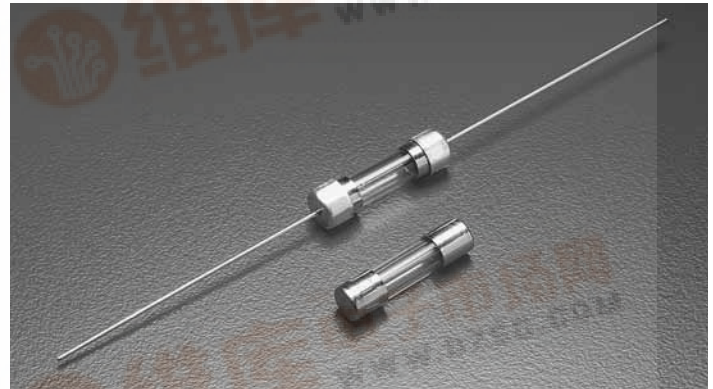
## INTERRUPTING RATING:

|             |                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------|
| 0.10-1A     | 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-6A       | 10,000 amperes at 125 VAC, 0.7-0.8 power factor                                                 |

## ORDERING INFORMATION:

RoHS compliant and Pb-free version available, add XP suffix to standard catalog number

| Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec. |
|----------------|---------------|----------------|------------------------------|------------------------------------------------------|
| 235.100        | .100          | 250            | 8.40                         | 0.00160                                              |
| 235.125        | .125          | 250            | 5.75                         | 0.00280                                              |
| 235.200        | .200          | 250            | 3.15                         | 0.00890                                              |
| 235.250        | .250          | 250            | 2.25                         | 0.0170                                               |
| 235.300        | .300          | 250            | 1.60                         | 0.0330                                               |
| 235.400        | .400          | 250            | 1.08                         | 0.0600                                               |
| 235.500        | .500          | 250            | 0.455                        | 0.0710                                               |
| 235.600        | .600          | 250            | 0.318                        | 0.115                                                |
| 235.700        | .700          | 250            | 0.263                        | 0.160                                                |
| 235.800        | .800          | 250            | 0.195                        | 0.260                                                |
| 235 001        | 1             | 250            | 0.153                        | 0.480                                                |
| 235 1.25       | 1.25          | 250            | 0.106                        | 1.12                                                 |
| 235 01.6       | 1.6           | 250            | 0.0775                       | 2.08                                                 |
| 235 002        | 2             | 250            | 0.0600                       | 2.72                                                 |
| 235 02.5       | 2.5           | 250            | 0.0438                       | 5.59                                                 |
| 235 003        | 3             | 250            | 0.0348                       | 8.62                                                 |
| 235 004        | 4             | 125            | 0.0248                       | 17.60                                                |
| 235 005        | 5             | 125            | 0.0185                       | 28.15                                                |
| 235 006        | 6             | 125            | 0.0150                       | 48.60                                                |



## 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

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

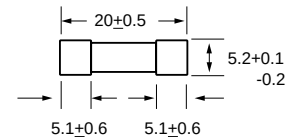
**RoHS** **Pb** **5 x 20 mm** Fast-Acting Fuse 235 Series



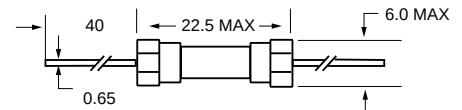
## Agency Approvals

| Agency Approvals                                                                    |                    | Ampere Range        |
|-------------------------------------------------------------------------------------|--------------------|---------------------|
|    | Certificate No.    | Cartridge           |
|                                                                                     | NBK290502-E10480 G | 1A – 3A 250V 100A   |
|                                                                                     | NBK280602-E10480 C | 4A & 5A 125V 10000A |
|                                                                                     | NBK290502-E10480 I | 6A 125V 500A        |
|                                                                                     | Leaded             |                     |
|    | Certificate No.    | SU05001-3007        |
|                                                                                     | SU05001-2002       | 100mA – 400mA       |
|                                                                                     | SU05001-2003       | 500mA – 3A          |
|                                                                                     |                    | 4A – 6A             |
|    | Listed File No.    | E10480              |
|                                                                                     | Guide No.          | JDYX                |
|   | File No.           | 029862              |
|                                                                                     | Cert. Class No.    | LR1422-01           |
|  |                    | 100mA – 6A          |

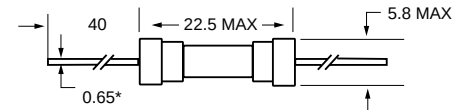
**0235000<sup>1</sup>**



**0235.100 XE<sup>2</sup>**  
to  
**0235.400 XE<sup>2</sup>**



**0235.500 XE<sup>2</sup>**  
to  
**0235006.XE<sup>2</sup>**



All dimensions in mm

### Notes:

\* Ratings above 6.3A

ø0.8 mm dia lead

1 For RoHS compliant parts  
add suffix 'XP'

2 For RoHS compliant parts  
add suffix 'P'

## Average Time Current Curves

