

# 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> |

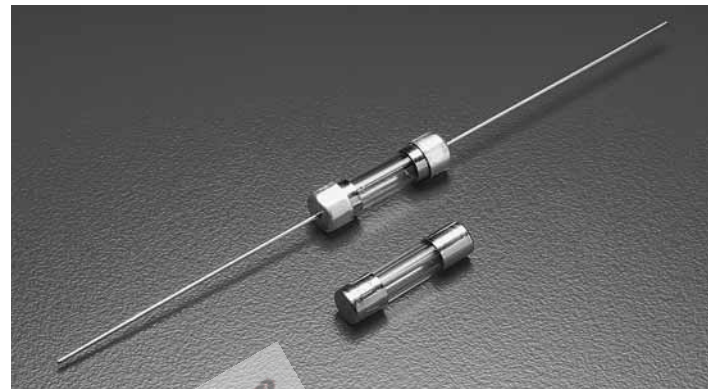
### INTERRUPTING RATING:

|             |   |
|-------------|---|
| 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).

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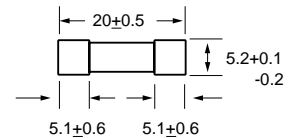
**RoHS** **Pb** **5 x 20 mm** Fast-Acting Fuse 235 Series



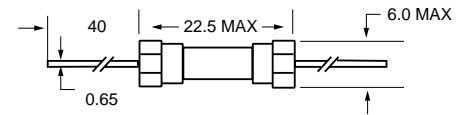
## Agency Approvals

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

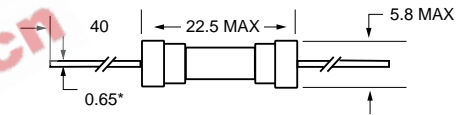
**0235000**<sup>1</sup>



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



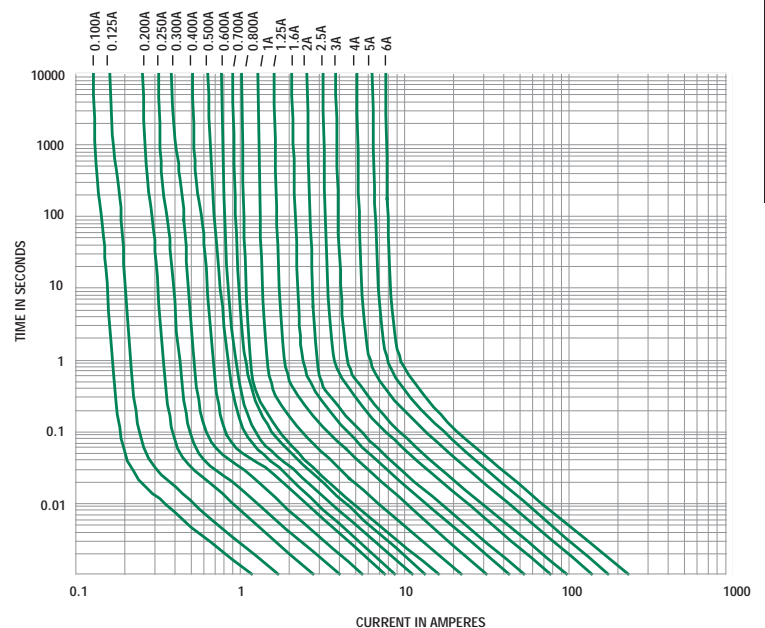
**0235.500 XE**<sup>2</sup>  
to  
**0235006.XE**<sup>2</sup>



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



11  
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CARTRIDGE FUSES