

# Axial Lead and Cartridge Fuses

Designed to IEC Standard

**RoHS** **Pb** **5 x 20 mm** Fast-Acting Fuse 217 Series



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 60127-2, Sheet 2 specification for Fast-Acting Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.032 to 15 amperes.
- RoHS compliant and Lead-Free version available, add XP suffix to standard catalog number

## ELECTRICAL CHARACTERISTICS:

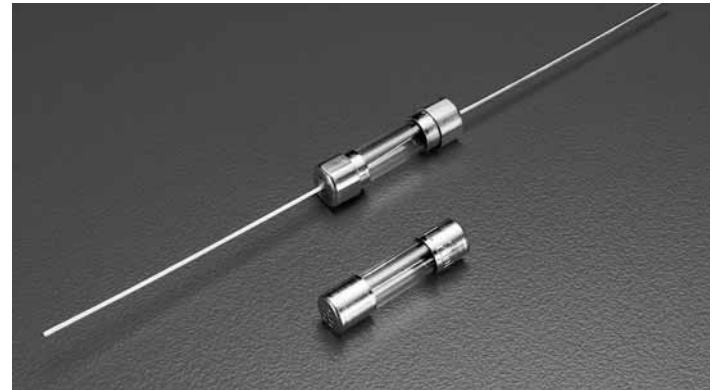
| % of Ampere Rating | Ampere Rating | Opening Time                                  |
|--------------------|---------------|-----------------------------------------------|
| 150%               | .032–6.3      | 60 minutes, <b>Minimum</b>                    |
|                    | 8–15          | 30 minutes, <b>Minimum</b>                    |
| 210%               | .032–15       | 30 minutes, <b>Maximum</b>                    |
| 275%               | .032–.100     | 0.01 sec., <b>Min.</b> ; .5 sec. <b>Max.</b>  |
|                    | .125–15       | 0.05 sec., <b>Min.</b> ; 2 sec. <b>Max.</b>   |
| 400%               | .032–.100     | .003 sec., <b>Min.</b> ; 0.1 sec. <b>Max.</b> |
|                    | .125–6.3      | .01 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b>  |
|                    | 8 - 15        | .01 sec., <b>Min.</b> ; 0.4 sec. <b>Max.</b>  |
| 1000%              | .032–6.3      | .02 second, <b>Maximum</b>                    |
|                    | 8–15          | .04 second, <b>Maximum</b>                    |

**INTERRUPTING RATING:** 35 amperes or 10 x rated current; (whichever is greater) to a maximum 100 amperes @ 250VAC, unity Power Factor.

## ORDERING INFORMATION:

RoHS compliant and Lead-Free version available, add XP suffix to standard catalog number

| Cartridge Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec. |
|--------------------------|---------------|----------------|------------------------------|------------------------------------------------------|
| 217.032                  | .032          | 250            | 262.2                        | 0.000048                                             |
| 217.040                  | .040          | 250            | 183.2                        | 0.000074                                             |
| 217.050                  | .050          | 250            | 15.20                        | 0.00020                                              |
| 217.063                  | .063          | 250            | 10.43                        | 0.00057                                              |
| 217.080                  | .080          | 250            | 7.88                         | 0.00085                                              |
| 217.100                  | .100          | 250            | 5.10                         | 0.0034                                               |
| 217.125                  | .125          | 250            | 3.68                         | 0.0049                                               |
| 217.160                  | .160          | 250            | 2.53                         | 0.011                                                |
| 217.200                  | .200          | 250            | 1.65                         | 0.025                                                |
| 217.250                  | .250          | 250            | 1.18                         | 0.043                                                |
| 217.315                  | .315          | 250            | 0.810                        | 0.110                                                |
| 217.400                  | .400          | 250            | 0.277                        | 0.130                                                |
| 217.500                  | .500          | 250            | 0.210                        | 0.225                                                |
| 217.630                  | .630          | 250            | 0.168                        | 0.420                                                |
| 217.800                  | .800          | 250            | 0.134                        | 0.870                                                |
| 217 001                  | 1             | 250            | 0.096                        | 1.07                                                 |
| 217 1.25                 | 1.25          | 250            | 0.070                        | 2.29                                                 |
| 217 01.6                 | 1.6           | 250            | 0.046                        | 4.74                                                 |
| 217 002                  | 2             | 250            | 0.040                        | 5.88                                                 |
| 217 02.5                 | 2.5           | 250            | 0.033                        | 9.72                                                 |
| 217 3.15                 | 3.15          | 250            | 0.022                        | 18.2                                                 |
| 217 004                  | 4             | 250            | 0.016                        | 30.0                                                 |
| 217 005                  | 5             | 250            | 0.013                        | 43.9                                                 |
| 217 06.3                 | 6.3           | 250            | 0.0098                       | 64.2                                                 |
| 217 008                  | 8*            | 250            | 0.0068                       | 203.5                                                |
| 217 010                  | 10*           | 250            | 0.0060                       | 223.5                                                |
| 217 015                  | 15*           | 250            | 0.0040                       | 607.0                                                |



## 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 217 Series

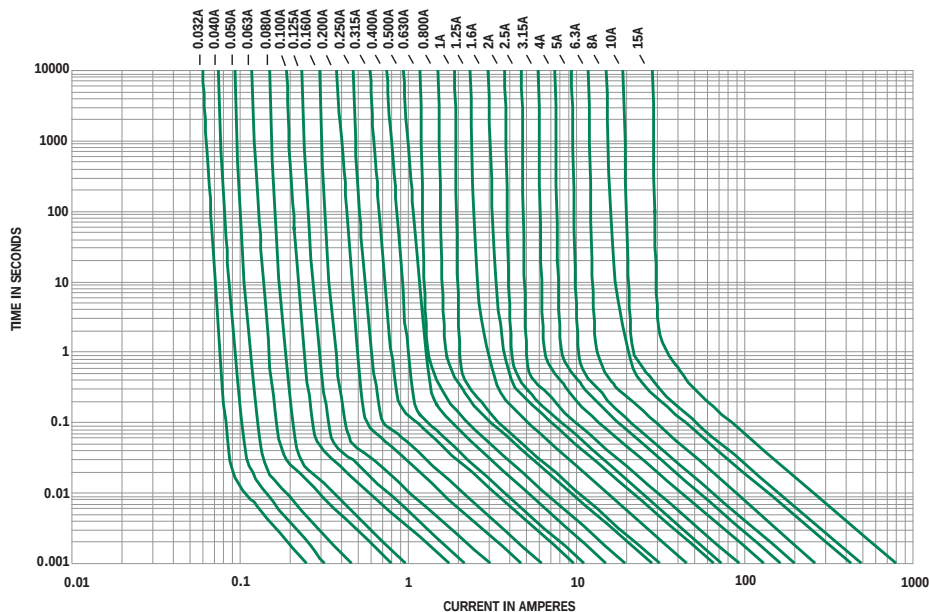


## Agency Approvals

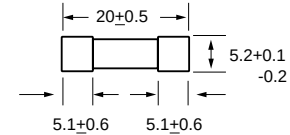
| Agency Approvals                                                                   |                                                                              | Ampere Range                                            |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|
|    | Cartridge<br>NBK120802-E10480 A&C<br>Leaded<br>NBK120802-E10480 B&D          | 1A – 15A                                                |
|    | Certificate No. 2002010207007600<br>2002010207007599                         | 32mA – 800mA<br>1A – 6.3A                               |
|    | Certificate No. SU05001-3004<br>SU05001-2005<br>SU05001-2006<br>SU05001-2007 | 32mA – 40mA<br>50mA – 315mA<br>400mA – 6.3A<br>8A & 10A |
|    | Recognised File No. E10480<br>Guide No. JDYX2                                | 32mA – 6.3A                                             |
|    | File No. 029862<br>Acc. Class No. LR1422-30                                  |                                                         |
|    | Licence No. KM41462                                                          | 400mA – 6.3A                                            |
|  | File No. 9848103, 9931059<br>304518 & 304555                                 | 32mA – 6.3A                                             |
|  | Pending                                                                      | 32mA – 10A                                              |
|  |                                                                              | 32mA – 15A                                              |

**Note:** 600mA, 1.5A and 3A ratings are available with UL recognition and CSA acceptance only. 8A and 10A are under consideration by IEC(125V).

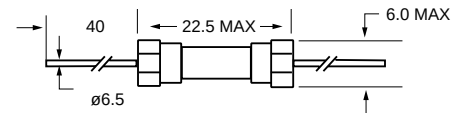
## Average Time Current Curves



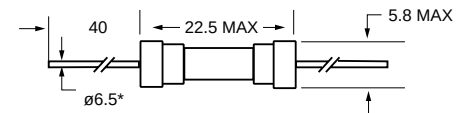
**0217 000<sup>2</sup>**



**0217.032 XE<sup>1</sup>**  
to  
**0217.315 XE<sup>1</sup>**



**0217.400 XE<sup>1</sup>**  
to  
**0217.015 XE<sup>1</sup>**



All dimensions in mm

Notes:

- \* Ratings above 6.3A have 0.8 mm dia lead
- 1 For RoHS compliant parts replace XE with XEP
- 2 For RoHS compliant parts add suffix 'XP'



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