

# Axial Lead and Cartridge Fuses

Designed to IEC Standard

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

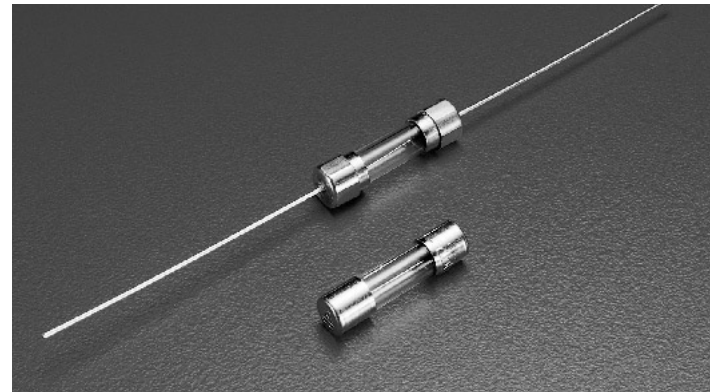


- Designed to International (IEC) Standards for use globally.
- Meets the IEC 60127-2, Sheet 2 specification for Fast-Acting Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.032 to 15 amperes.
- RoHS Compliant and Lead-Free

### 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>  |
| 1000%              | 8 - 15        | .01 sec., <b>Min.</b> ; 0.4 sec. <b>Max.</b>  |
|                    | .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.



### 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).

### ORDERING INFORMATION:

| Cartridge Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I <sup>2</sup> t A <sup>2</sup> Sec. |
|--------------------------|---------------|----------------|------------------------------|--|
| 217.032P                 | .032          | 250            | 262.2                        | 0.000060   |
| 217.040P                 | .040          | 250            | 183.2                        | 0.000085   |
| 217.050P                 | .050          | 250            | 15.20                        | 0.000190   |
| 217.063P                 | .063          | 250            | 10.45                        | 0.000555   |
| 217.080P                 | .080          | 250            | 7.890                        | 0.000828   |
| 217.100P                 | .100          | 250            | 5.775                        | 0.00450  |
| 217.125P                 | .125          | 250            | 3.820                        | 0.00477  |
| 217.160P                 | .160          | 250            | 2.525                        | 0.010  |
| 217.200P                 | .200          | 250            | 1.700                        | 0.024  |
| 217.250P                 | .250          | 250            | 1.233                        | 0.042  |
| 217.315P                 | .315          | 250            | 0.894                        | 0.112  |
| 217.400P                 | .400          | 250            | 0.277                        | 0.127  |
| 217.500P                 | .500          | 250            | 0.207                        | 0.219  |
| 217.630P                 | .630          | 250            | 0.190                        | 0.409  |
| 217.800P                 | .800          | 250            | 0.120                        | 0.847  |
| 217 001.P                | 1             | 250            | 0.096                        | 1.042  |
| 217 1.25P                | 1.25          | 250            | 0.070                        | 2.230  |
| 217 01.6P                | 1.6           | 250            | 0.053                        | 4.616  |
| 217 002P                 | 2             | 250            | 0.042                        | 5.726  |
| 217 02.5P                | 2.5           | 250            | 0.033                        | 9.460  |
| 217 3.15P                | 3.15          | 250            | 0.022                        | 17.722   |
| 217 004.P                | 4             | 250            | 0.016                        | 29.164   |
| 217 005.P                | 5             | 250            | 0.014                        | 42.796   |
| 217 06.3P                | 6.3           | 250            | 0.009                        | 62.466   |
| 217 008.P                | 8*            | 250            | 0.007                        | 198.158  |
| 217 010.P                | 10*           | 250            | 0.006                        | 217.633  |
| 217 015.P                | 15*           | 250            | 0.004                        | 607.133  |

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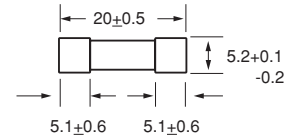


## Agency Approvals

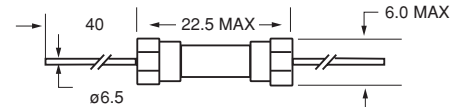
| Agency Approvals |  | Ampere Range  |
|------------------|--|---|
|                  | Cartridge<br>NBK120802-E10480 A&C<br>Leaded<br>NBK120802-E10480 B&D          | 1A – 15A  |
|                  | Certificate No. 2002010207007600<br>2002010207007599                         | 32mA – 800mA<br>1A – 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   |
|                  | Licence No. 40014645   | 32mA – 8A,<br>10A*                                      |
|                  | Licence No. 40016647   | 15A<br>32mA – 15A                                       |

\*Approval for cartridge versions only

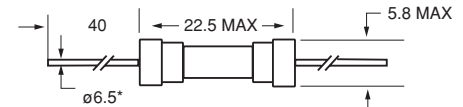
0217 000P



0217.032 XEP  
to  
0217.315 XEP



0217.400 XEP  
to  
0217015 XEP



All dimensions in mm

Notes:  
\* Ratings above 6.3A  
have 0.8 mm dia lead

## Average Time Current Curves

