

# Axial Lead and Cartridge Fuses

Designed to IEC Standard

**RoHS** **Pb** **5 x 20 mm** Fast-Acting Fuse 216 Series



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 60127-2, Sheet 1 specification for Fast Acting Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.050 to 10 amperes.
- High breaking capacity.
- RoHS compliant and Lead-Free version available, add XP suffix to standard catalog number

## ELECTRICAL CHARACTERISTICS:

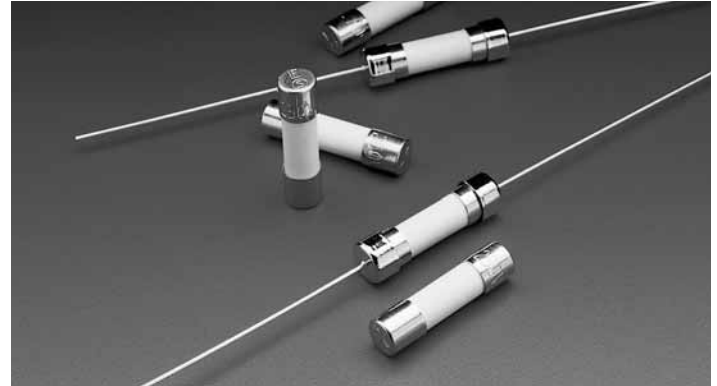
| % of Ampere Rating | Ampere Rating | Opening Time                                  |
|--------------------|---------------|-----------------------------------------------|
| 150%               | .05–6.3       | 60 minutes, <b>Minimum</b>                    |
|                    | 8-10          | 30 minutes, <b>Minimum</b>                    |
| 210%               | .05–10        | 30 minutes, <b>Maximum</b>                    |
| 275%               | .05–4         | 0.01 sec., <b>Min.</b> ; 2 sec. <b>Max.</b>   |
|                    | 5–6.3         | 0.01 sec., <b>Min.</b> ; 3 sec. <b>Max.</b>   |
|                    | 8-10          | 0.04 sec., <b>Min.</b> ; 20 sec. <b>Max.</b>  |
| 400%               | .05–6.3       | .003 sec., <b>Min.</b> ; 0.3 sec. <b>Max.</b> |
|                    | 8-10          | .01 sec., <b>Min.</b> ; 1.0 sec. <b>Max.</b>  |
| 1000%              | .05–6.3       | .02 seconds, <b>Maximum</b>                   |
|                    | 8-10          | .03 seconds, <b>Maximum</b>                   |

**INTERRUPTING RATING:** 1500 amperes @ 250 VAC, 0.7-0.8 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. |
|--------------------------|---------------|----------------|------------------------------|------------------------------------------------------|
| 216.050                  | .050          | 250            | 15.90                        | 0.00019                                              |
| 216.063                  | .063          | 250            | 10.45                        | 0.00055                                              |
| 216.080                  | .080          | 250            | 7.89                         | 0.00086                                              |
| 216.100                  | .100          | 250            | 5.42                         | 0.0033                                               |
| 216.125                  | .125          | 250            | 3.68                         | 0.0056                                               |
| 216.160                  | .160          | 250            | 5.20                         | 0.0018                                               |
| 216.200                  | .200          | 250            | 3.35                         | 0.0045                                               |
| 216.250                  | .250          | 250            | 2.35                         | 0.0092                                               |
| 216.315                  | .315          | 250            | 1.85                         | 0.015                                                |
| 216.400                  | .400          | 250            | 1.67                         | 0.028                                                |
| 216.500                  | .500          | 250            | 1.20                         | 0.045                                                |
| 216.630                  | .630          | 250            | 0.790                        | 0.097                                                |
| 216.800                  | .800          | 250            | 0.588                        | 0.18                                                 |
| 216.001                  | 1             | 250            | 0.228                        | 0.19                                                 |
| 216 1.25                 | 1.25          | 250            | 0.153                        | 0.49                                                 |
| 216 01.6                 | 1.6           | 250            | 0.108                        | 1.04                                                 |
| 216 002                  | 2             | 250            | 0.0770                       | 1.92                                                 |
| 216 02.5                 | 2.5           | 250            | 0.0575                       | 2.77                                                 |
| 216 3.15                 | 3.15          | 250            | 0.0333                       | 7.85                                                 |
| 216 004                  | 4             | 250            | 0.0243                       | 15.4                                                 |
| 216 005                  | 5             | 250            | 0.0168                       | 28.2                                                 |
| 216 06.3                 | 6.3           | 250            | 0.0125                       | 57.9                                                 |
| 216 008                  | 8*            | 250            | 0.0120                       | 66.1                                                 |
| 216 010                  | 10*           | 250            | 0.00775                      | 158.5                                                |



## 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: Ceramic

Cap: Nickel Plated Brass

Leads: Tin Plated Copper

Filler Sand (160mA – 10A)

**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).

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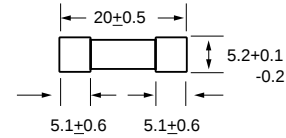
**5 x 20 mm** Fast-Acting Fuse 216 Series



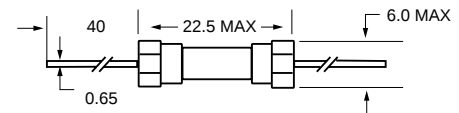
## Agency Approvals

| Agency Approvals |                                                                                                                                     | Ampere Range              |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                  | Certificate No. Cartridge<br>NBK250702-E10480 A & C<br>NBK250702-E10480 E<br>Leaded<br>NBK250702-E10480 B & D<br>NBK250702-E10480 F | 1A – 10A                  |
|                  | Certificate No. 2003010207079960<br>2002010207007594                                                                                | 50mA – 800mA<br>1A – 6.3A |
|                  | Certificate No. SU05001-2013                                                                                                        | 1A – 10A                  |
|                  | Recognised File No. E10480<br>Guide No. JDYX2                                                                                       | 50mA – 10A                |
|                  | File No. 029862<br>Acc. Class No. LR1422-30                                                                                         |                           |
|                  | Licence No. KM41462                                                                                                                 | 1A – 6.3A                 |
|                  | File No. 9848103, 9931059<br>304518 & 304555                                                                                        | 32mA – 6.3A               |
|                  |                                                                                                                                     | 50mA – 10A                |

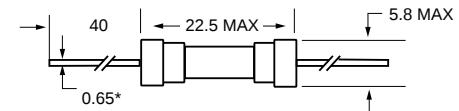
**0216 000<sup>2</sup>**



**0216.050 XE<sup>1</sup>  
to  
0216.100 XE<sup>1</sup>**



**0216001.XE<sup>1</sup>  
to  
0216010.XE<sup>1</sup>**



All dimensions in mm

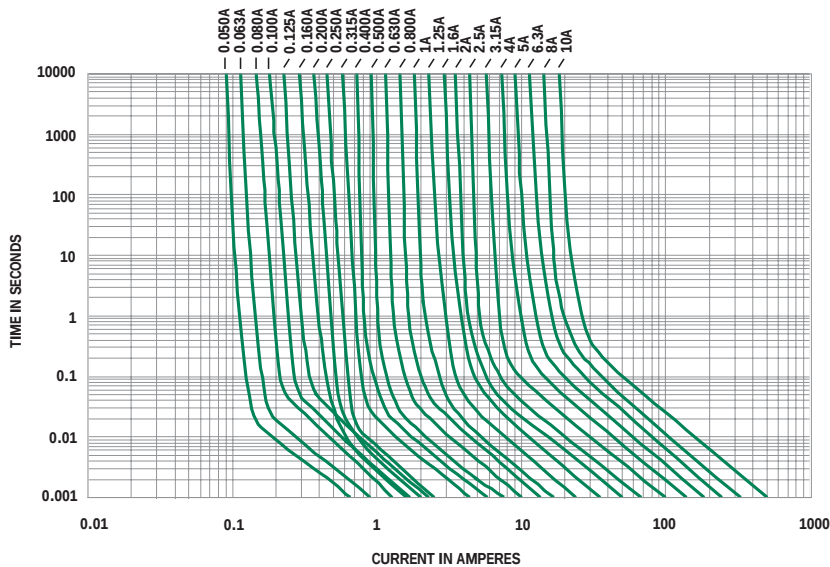
Notes:

\* 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'

## Average Time Current Curves





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