

Axial Lead and Cartridge Fuses

Designed to IEC Standard

RoHS **Pb** **5 x 20 mm** Time Lag Fuse (Slo-Blo®) Fuse 213 Series



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 60127-2, Sheet 3 specification for Time Lag Fuses.
- Available in Cartridge and Axial Lead Form.
- Available in ratings of 0.200 to 6.3 amperes.
- RoHS compliant and Lead-Free version available, add XP suffix to standard catalog number

ELECTRICAL CHARACTERISTICS (213 Series):

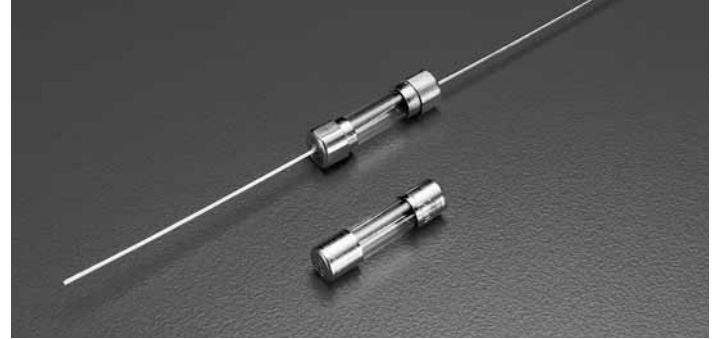
| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|---|
| 150% | .032–6.3 | 60 minutes, Minimum |
| | 8 - 15 | 30 minutes, Minimum |
| 210% | .032–15 | 2 minutes, Maximum |
| 275% | .032–.100 | 0.2 sec., Min. ; 10 sec. Max. |
| | .125–15 | 0.6 sec., Min. ; 10 sec. Max. |
| 400% | .032–.100 | .04 sec., Min. ; 3 sec. Max. |
| | .125–15 | .15 sec., Min. ; 3 sec. Max. |
| 1000% | .032–.100 | .01 sec., Min. ; 0.3 sec. Max. |
| | .125–15 | 0.02 sec., Min. ; 0.3 sec. Max. |

INTERRUPTING RATINGS: 35 amperes or 10 x rated current; (whichever is greater) to a maximum 100A @ 250 VAC, unity power factor.

ORDERING INFORMATION:

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

| 213 Surge Withstand | | | | |
|--------------------------|---------------|----------------|------------------------------|---------------------------|
| Cartridge Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting Pt A°Sec. |
| 0213.200 | .200 | 250 | 1.60 | 0.350 |
| 0213.250 | .250 | 250 | 1.05 | 0.555 |
| 0213.315 | .315 | 250 | 0.848 | 1.14 |
| 0213.400 | .400 | 250 | 0.535 | 1.35 |
| 0213.500 | .500 | 250 | 0.370 | 2.90 |
| 0213.630 | .630 | 250 | 0.275 | 4.80 |
| 0213.800 | .800 | 250 | 0.165 | 9.42 |
| 0213 001 | 1 | 250 | 0.117 | 19.20 |
| 0213 1.25 | 1.25 | 250 | 0.081 | 27.15 |
| 0213 01.6 | 1.6 | 250 | 0.055 | 44.2 |
| 0213 002. | 2 | 250 | 0.044 | 92.7 |
| 0213 02.5 | 2.5 | 250 | 0.030 | 138.0 |
| 0213 3.15 | 3.15 | 250 | 0.022 | 226.5 |
| 0213 004 | 4 | 250 | 0.017 | 202 |
| 0213 005. | 5 | 250 | 0.011 | 314 |
| 0213 06.3 | 6.3 | 250 | 0.008 | 600 |



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

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 IEC Standard

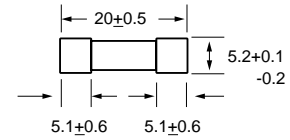
RoHS **Pb** **5 x 20 mm** Time Lag Fuse (Slo-Blo®) Fuse 213 Series



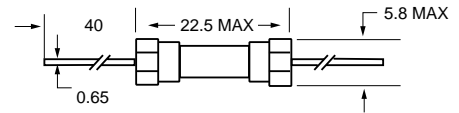
Agency Approvals

| Agency Approvals | | Ampere Range |
|------------------|---|--------------------|
| | Certificate No. Cartridge NBK120802-E10480 A&C Leaded NBK120802-E10480 B&D | 1A – 6.3A |
| | Certificate No. 2002010207007597 2003010207045592 | 200mA – 6.3A 5A |
| | Recognised File No. E10480 Guide No. JDYX2 | 200mA – 6.3A |
| | File No. 029862 Acc. Class No. LR1422-30 | |
| | Licence No. KM41462 | |
| | File No. 9905092, 9923025, 304515 | |
| | | |

0213 000²



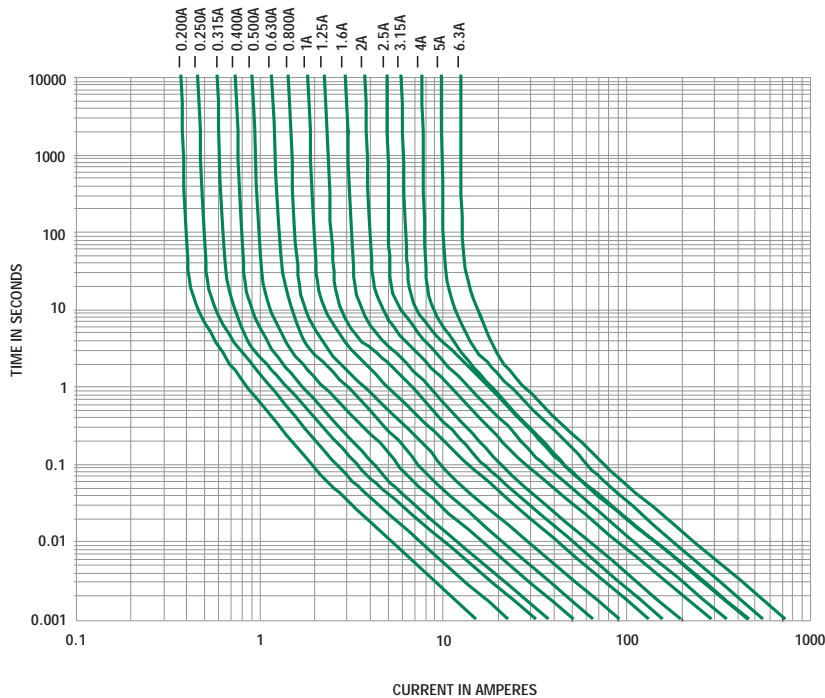
0213 000 XE¹



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



Axial Lead and Cartridge Fuses

Designed to IEC Standard

RoHS 5 x 20 mm Time Lag Fuse (Slo-Blo®) Fuse 218 Series



- Designed to International (IEC) Standards for use globally.
- Meets the IEC 60127-2, Sheet 3 specification for Time Lag 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 (218 Series):

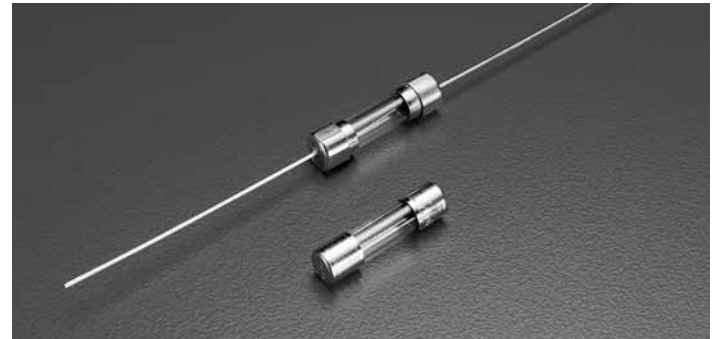
| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|---|
| 150% | .032–6.3 | 60 minutes, Minimum |
| | 8 - 15 | 30 minutes, Minimum |
| 210% | .032–15 | 2 minutes, Maximum |
| 275% | .032–.100 | 0.2 sec., Min. ; 10 sec. Max. |
| | .125–15 | 0.6 sec., Min. ; 10 sec. Max. |
| 400% | .032–.100 | .04 sec., Min. ; 3 sec. Max. |
| | .125–15 | .15 sec., Min. ; 3 sec. Max. |
| 1000% | .032–.100 | .01 sec., Min. ; 0.3 sec. Max. |
| | .125–15 | 0.02 sec., Min. ; 0.3 sec. Max. |

INTERRUPTING RATINGS: 35 amperes or 10 x rated current; (whichever is greater) to a maximum 100A @ 250 VAC, unity power factor.

ORDERING INFORMATION:

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

| 218 | | | | |
|--------------------------|---------------|----------------|------------------------------|--|
| Cartridge Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I ² t A ² Sec. |
| 218.032 | .032 | 250 | 58.45 | 0.00305 |
| 218.040 | .040 | 250 | 35.70 | 0.0055 |
| 218.050 | .050 | 250 | 23.30 | 0.0071 |
| 218.063 | .063 | 250 | 18.1 | 0.012 |
| 218.080 | .080 | 250 | 12.6 | 0.0265 |
| 218.100 | .100 | 250 | 8.95 | 0.0495 |
| 218.125 | .125 | 250 | 4.41 | 0.150 |
| 218.160 | .160 | 250 | 2.44 | 0.225 |
| 218.200 | .200 | 250 | 1.60 | 0.350 |
| 218.250 | .250 | 250 | 1.05 | 0.555 |
| 218.315 | .315 | 250 | 0.848 | 1.14 |
| 218.400 | .400 | 250 | 0.535 | 1.35 |
| 218.500 | .500 | 250 | 0.370 | 2.90 |
| 218.630 | .630 | 250 | 0.275 | 4.80 |
| 218.800 | .800 | 250 | 0.073 | 1.99 |
| 218 001 | 1 | 250 | 0.055 | 3.33 |
| 218 1.25 | 1.25 | 250 | 0.042 | 5.80 |
| 218 01.6 | 1.6 | 250 | 0.032 | 10.61 |
| 218 002 | 2 | 250 | 0.029 | 14.80 |
| 218 02.5 | 2.5 | 250 | 0.022 | 23.85 |
| 218 3.15 | 3.15 | 250 | 0.017 | 39.20 |
| 218 004 | 4 | 250 | 0.013 | 70.95 |
| 218 005 | 5 | 250 | 0.010 | 114.0 |
| 218 06.3 | 6.3 | 250 | 0.0075 | 204.0 |
| 218 008 | 8 | 250 | 0.0059 | 350.5 |
| 218 010 | 10 | 250 | 0.0045 | 583.0 |
| 218 015 | 15 | 250 | 0.0030 | 1441.0 |



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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Designed to IEC Standard

RoHS **Pb** **5 x 20 mm** Time Lag Fuse (Slo-Blo®) Fuse 218 Series

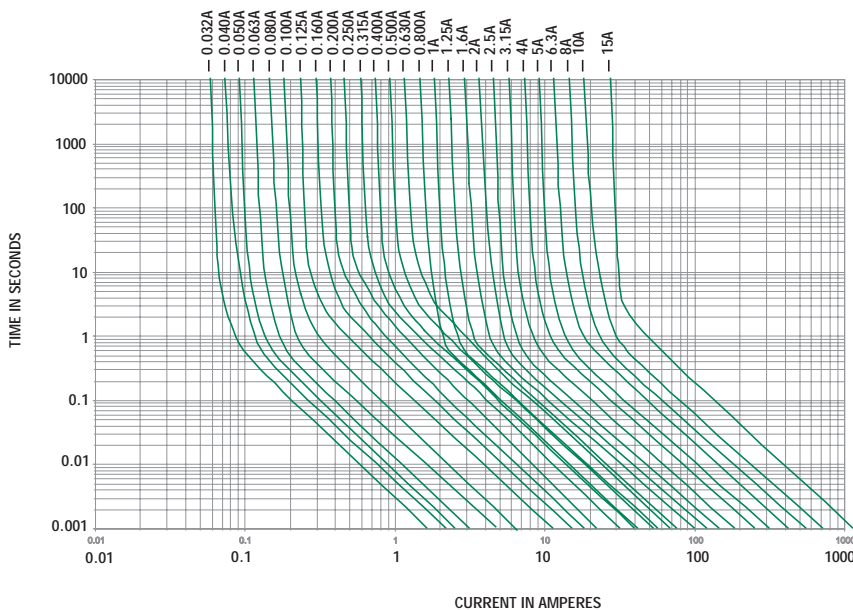


Agency Approvals

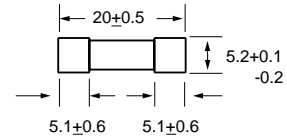
| Agency Approvals | | Ampere Range |
|------------------|---|---|
| | Certificate No. Cartridge NBK120802-E10480 A&C Leaded NBK120802-E10480 B&D | 1A – 15A |
| | Certificate No. 2002010207007596 | 32mA – 6.3A |
| | Certificate No. SU05001-3005 SU05001-2008 SU05001-2009 | 32mA – 40mA 50mA – 800mA 1A – 10A |
| | Recognised File No. E10480 Guide No. JDYX2 | 32mA – 15A |
| | File No. 029862 Acc. Class No. LR1422-30 | |
| | Licence No. KM41462 | 80mA – 6.3A |
| | File No. 9850004, 9840179, 9446070, 9708209, 9843043, 312377 & 304650 | 32mA – 6.3A |
| | | 32mA – 15A |

Note: 8A and 10A are under consideration by IEC(125V).

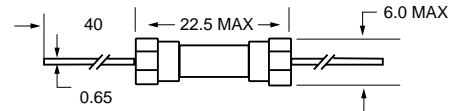
Average Time Current Curves



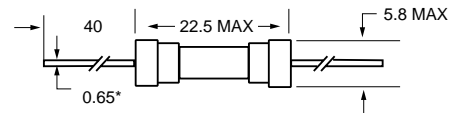
0218 000²



0218.032 XE¹
to
0218.100XE¹



0218.125 XE¹
to
0218015. XE¹



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'

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[218.2](#) [218.63](#) [213.4](#) [218010XE](#) [218008XE](#) [218.125](#) [218.315](#) [218001](#) [2181.25](#) [21801.6](#) [218002](#) [21802.5](#)
[2183.15](#) [2133.15](#) [218004](#) [218005](#) [21806.3](#) [218008](#) [218010](#) [21801.6XE](#) [02181.25MXE-](#) [0213.400M-](#) [0218002.H-](#)
[0213002.MXE-](#) [02131.25MXE-](#) [021301.6MXE-](#) [0218008.M-](#) [0218.080H-](#) [0213.315M-](#) [0218015.MXE-](#) [0218.032MXE-](#)
[0213005.M-](#) [0218.315M-](#) [02131.25M-](#) [02133.15M-](#) [0218.125H-](#) [0213005.MXE-](#) [0218.800H-](#) [0213001.MXE-](#)
[021802.5MXE-](#) [021801.6M-](#) [0218010.M-](#) [0218.063MXE-](#) [0218008.MXE-](#) [0213.800M-](#) [0218.800M-](#) [02181.25H-](#)
[021801.6H-](#) [0218010.H-](#) [0218.040M-](#) [0218.160MXE-](#) [0218.315H-](#) [0218008.H-](#) [218.400](#) [0213.630M-](#) [0218.050M-](#)
[0218.160M-](#) [021306.3MXE-](#) [0218.250MXE-](#) [0218004.M-](#) [0218.250M-](#) [02183.15M-](#) [0218.200M-](#) [021806.3M-](#)
[0213.630MXE-](#) [218.100](#) [0213001.M-](#) [021802.5H-](#) [021302.5M-](#) [0218.063M-](#) [0218.630H-](#) [21306.3](#) [218.16](#) [218.25](#)
[218.5](#) [218.8](#) [213005](#) [218.050](#) [218.032](#) [2133.15XE](#) [021806.3H-](#) [0218002.MXE-](#) [0218004.MXE-](#) [0213.500MXE-](#)
[021301.6M-](#) [0218.160H-](#) [0218015.M-](#) [0213.200MXE-](#) [0218.500M-](#) [0218005.H-](#) [0218001.MXE-](#) [0218.040MXE-](#)
[0213.250MXE-](#) [0218.100H-](#) [0218001.M-](#) [021802.5M-](#) [0218.125MXE-](#) [0218.080M-](#) [021306.3M-](#) [0218.125M-](#)