

Axial Lead and Cartridge Fuses

Designed to UL/CSA Standards

RoHS  **5 x 20 mm** Medium-Acting Fuse 233 Series



- Designed to UL/ CSA/ANCE 248 Standard.
- Available in Cartridge, Axial and Radial Lead Format.
- Available in ratings of 1A to 10A.
- RoHS compliant and Lead-Free version available, add XP suffix to standard catalog number

ELECTRICAL CHARACTERISTICS:

| % of Ampere Rating | Ampere Rating | Opening Time |
|--------------------|---------------|---|
| 100% | 1–3.5 | 4 hours, Minimum |
| | 4–10 | 1 hour, Minimum |
| 135% | 1–10 | 3 sec., Min. ; 1 hour Max. |
| 200% | 1–10 | 0.4 sec., Min. ; 4 sec., Max. |

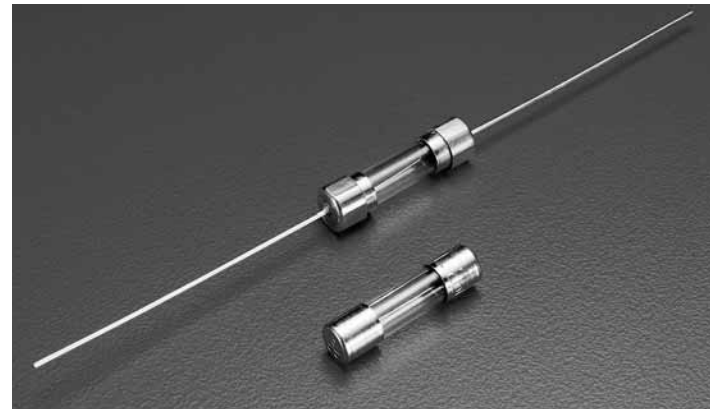
INTERRUPTING RATING:

10,000 amperes at 125 VAC, 0.7-0.8 power factor

ORDERING INFORMATION:

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

| Catalog Number | Ampere Rating | Voltage Rating | Nominal Resistance Cold Ohms | Nominal Melting I ² t A ² Sec |
|----------------|---------------|----------------|------------------------------|---|
| 0233 001 | 1 | 125 | 0.18 | 2.03 |
| 0233 1.25 | 1.25 | 125 | 0.13 | 3.48 |
| 0233 01.6 | 1.6 | 125 | 0.088 | 6.31 |
| 0233 002. | 2 | 125 | 0.068 | 10.2 |
| 0233 02.5 | 2.5 | 125 | 0.052 | 17.5 |
| 0233 003. | 3 | 125 | 0.043 | 27.0 |
| 0233 3.15 | 3.15 | 125 | 0.038 | 30.6 |
| 0233 03.5 | 3.5 | 125 | 0.034 | 37.3 |
| 0233 004. | 4 | 125 | 0.032 | 53.0 |
| 0233 005. | 5 | 125 | 0.022 | 92.4 |
| 0233 006. | 6 | 125 | 0.018 | 135 |
| 0233 06.3 | 6.3 | 125 | 0.017 | 156 |



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).

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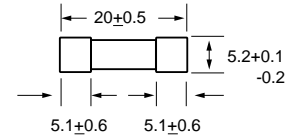
RoHS **Pb** **5 x 20 mm** Medium-Acting Fuse 233 Series



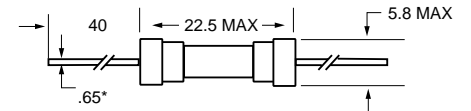
Agency Approvals

| Agency Approvals | | Ampere Range |
|------------------|---|--|
| | Certificate No. Cartridge NBK280602-E10480 C NBK290502-E10480 I Leaded NBK280602-E10480 D NBK290502-E10480 J | 1A – 5A 125V 10000A 6A & 6.3A 125V 500A |
| | Certificate No. SU05001-2010 | 1A – 6.3A |
| | Listed File No. E10480 Guide No. JDYX | |
| | File No. 029862 Cert. Class No. LR1422-01 | |
| | | |

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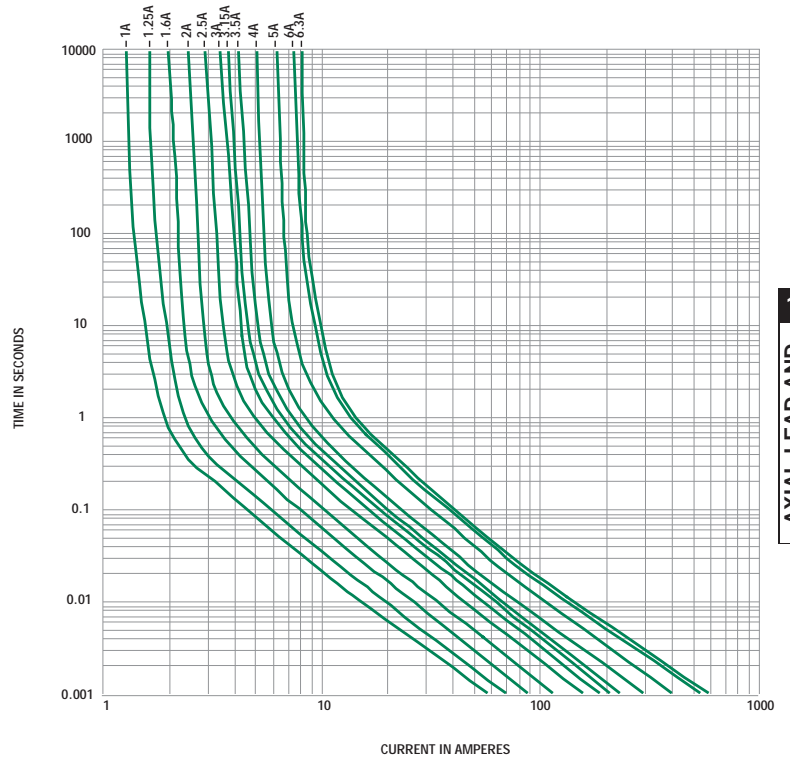


All dimensions in mm

Notes:

- * Ratings above 6.3A have 0.8 mm dia lead
- 1 For RoHS compliant parts add suffix 'XP'
- 2 For RoHS compliant parts add suffix 'P'

Average Time Current Curves



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AXIAL LEAD AND
CARTRIDGE FUSES