

# 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, <b>Minimum</b>
	4–10	1 hour, <b>Minimum</b>
135%	1–10	3 sec., <b>Min.</b> ; 1 hour <b>Max.</b>
200%	1–10	0.4 sec., <b>Min.</b> ; 4 sec., <b>Max.</b>

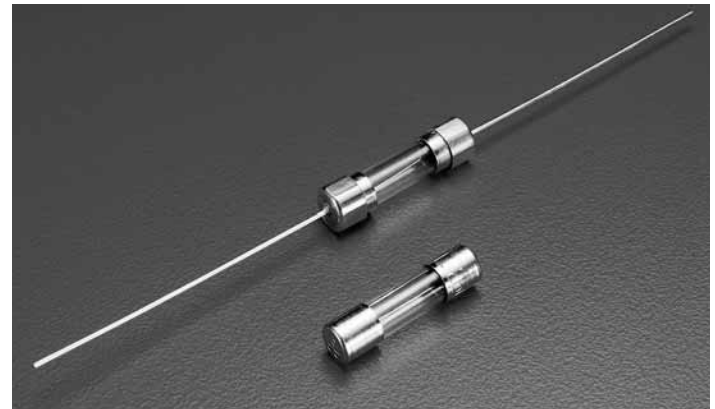
## INTERRUPTING RATING:

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 <sup>2</sup> t A <sup>2</sup> 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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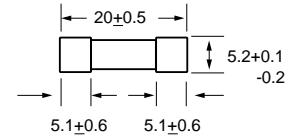
**RoHS** **Pb** **5 x 20 mm** Medium-Acting Fuse 233 Series



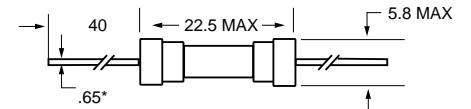
## Agency Approvals

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	

**0233 000<sup>1</sup>**



**0233000XE<sup>2</sup>**

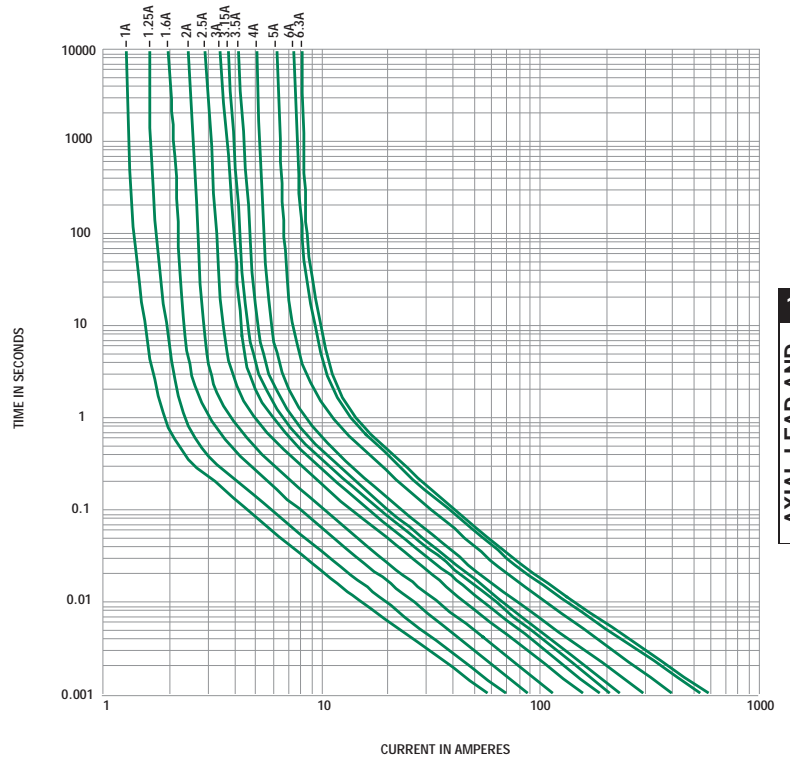


All dimensions in mm

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