



UL 4248-15

STANDARD FOR SAFETY

Fuseholders – Part 15: Class T

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UL Standard for Safety for Fuseholders – Part 15: Class T, UL 4248-15

First Edition, Dated February 28, 2007

Summary of Topics

This revision to ANSI/UL 4248-15, Standard for Safety for Fuseholders – Part 15: Class T, is being issued to reaffirm approval as an American National Standard. No changes in requirements are involved.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The editorial reaffirmation updates are substantially in accordance with Proposal(s) on this subject dated February 16, 2018.

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Association of Standardization and Certification
NMX-J-009/4248/15-ANCE
First Edition



CSA Group
CSA C22.2 No. 4248.15-07
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This ANSI/UL Standard for Safety consists of the First Edition including revisions through April 4, 2018.

The most recent designation of ANSI/UL 4248-15 as a Reaffirmed American National Standard (ANS) occurred on April 4, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page (front and back), or the Preface.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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PREFACE

This is the common ANCE, CSA Group, and UL standard for Fuseholders – Part 15: Class T. It is the first edition of NMX-J-009/4248/15-ANCE, the first edition of CSA C22.2 No. 4248-15, and the first edition of UL 4248-15.

This common standard was prepared by the Association of Standardization and Certification (ANCE), CSA Group, and Underwriters Laboratories Inc. (UL). The efforts and support of the CANENA Technical Harmonization Subcommittee 32B – Fuseholders are gratefully appreciated.

This standard is considered suitable for use for conformity assessment within the stated scope of the standard.

This standard was reviewed by the CSA Subcommittee on Low voltage fuses, under the jurisdiction of the CSA Technical Committee on Industrial Products and the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the CSA Technical Committee.

This standard will be submitted to the Standards Council of Canada for approval as a National Standard of Canada.

This standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

A UL standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

Where reference is made to a specific number of samples to be tested, the specified number shall be considered a minimum quantity.

Note: Although the intended primary application of this standard is stated in its scope, it is important to note that it remains the responsibility of the users of the standard to judge its suitability for their particular purpose.

Level of harmonization

This standard is published as an identical standard for ANCE, CSA Group, and UL.

An identical standard is a standard that is exactly the same in technical content except for national differences resulting from conflicts in codes and governmental regulations. Presentation is word for word except for editorial changes.

Interpretations

The interpretation by the standards development organization of an identical or equivalent standard is based on the literal text to determine compliance with the standard in accordance with the procedural rules of the standards development organization. If more than one interpretation of the literal text has been identified, a revision is to be proposed as soon as possible to each of the standards development organizations to more accurately reflect the intent.

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Fuseholders – Part 15: Class T

1 General

This Part is intended to be read together with the Standard for Fuseholders – Part 1: General Requirements, hereafter referred to as Part 1. The numbering of the Clauses in this Part corresponds to like numbered Clauses in Part 1. The requirements of Part 1 apply unless modified by this Part. For Clauses not shown below, refer to the Standard for Fuseholders – Part 1: General Requirements, NMX-J-009-4248-ANCE ♦ CSA C22.2 No. 4248.1 ♦ UL 4248-1.

1.1 Scope

1.1.2 These requirements cover fuseholders intended for use with Class T Fuses as described in NMX-J-009/248/15-2000-ANCE, CSA C22.2 No. 248.15, UL 248-15, Low-Voltage Fuses – Part 15: Class T Fuses.

4 Classification

4.1 Class T fuseholders have a short-circuit withstand rating of 200 000 A. Class T fuseholders are rated 300 V or 600 V and are divided into eight body sizes in each voltage rating corresponding to the Class T fuse body sizes.

5 Characteristics

5.1 Summary of characteristics

5.1.3 Voltage and current rating

5.1.3.1 Class T fuseholders shall be rated 300 V or 600 V.

5.1.3.2 Class T fuseholders shall be rated 30, 60, 100, 200, 400, 600 A, 800 A or 1200 A.

5.1.4 Withstand rating

5.1.4.1 Class T fuseholders shall have a short-circuit withstand rating of a 200 000A.

6 Marking

6.1 Marking of fuseholder

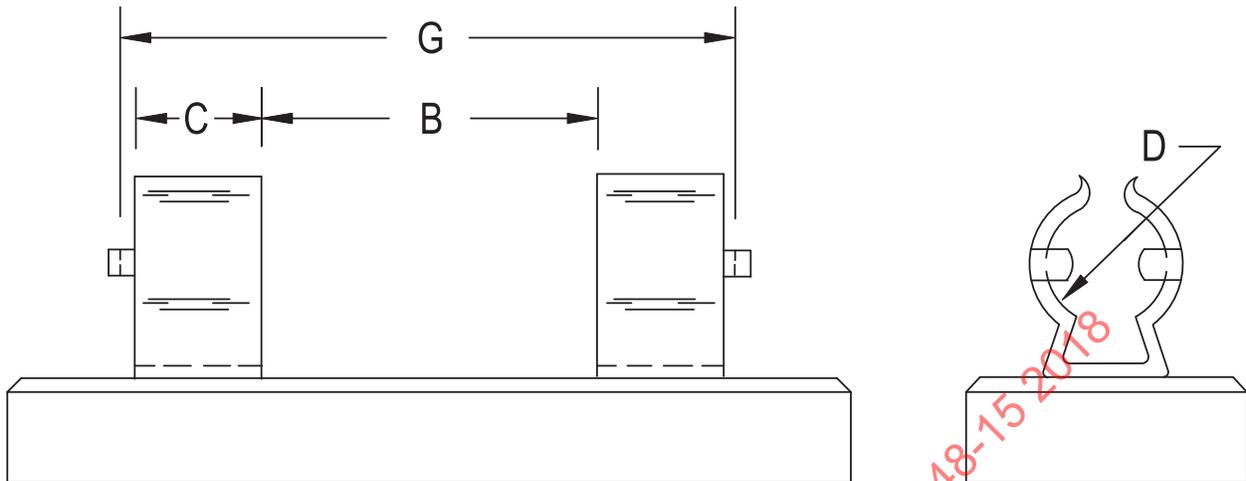
6.1.1.1 In addition to the requirements of Part 1, the fuseholder shall be marked "Use Class T Fuses".

7 Construction

7.6 Contacts of a cartridge fuseholder

7.6.1 The dimensions of a Class T fuseholder shall be as specified in Figures 7.6A or 7.6B, whichever is applicable.

Figure 7.6A
Class T fuseholder – Fuse not bolted in place



SB0574B

Class of fuse	Potential rating of fuse, volts	Current rating of fuse, amperes	Dimensions of a Class T fuseholder – Fuse not bolted in place					
			Dimensions, mm (in)					
			B	C	D	E	G	
			Distance between contact clips	Minimum width of contact clip	Diameter of ferrule	Thickness of blade	Distance between end stops	
						Minimum	Maximum	
T (Fuse not Bolted in Place)	300	30	7.619 (0.330) ^a	7.37 (0.290)	10.31 (0.406)	–	22.86 (0.900)	23.62 (0.930)
		60	7.619 (0.300) ^a	7.37 (0.290)	14.3 (0.563)	–	22.86 (0.900)	23.62 (0.930)
		100	23.114 (0.910) ^b	13.08 (0.515)	–	3.18 (0.125)	–	–
		200	23.114 (0.910) ^b	16.64 (0.655)	–	4.74 (0.188)	–	–
		400	23.365 (0.920) ^b	20.4 (0.803)	–	6.35 (0.250)	–	–
		600	23.875 (0.940) ^b	24.26 (0.955)	–	9.52 (0.375)	–	–
	600	30	23.622 (0.930) ^c	7.37 (0.290)	14.3 (0.563)	–	39.12 (1.540)	40.13 (1.580)
		60	18.796 (0.740) ^a	9.91 (0.390)	20.62 (0.812)	–	40.64 (1.6) ^d	41.4 (1.630) ^d

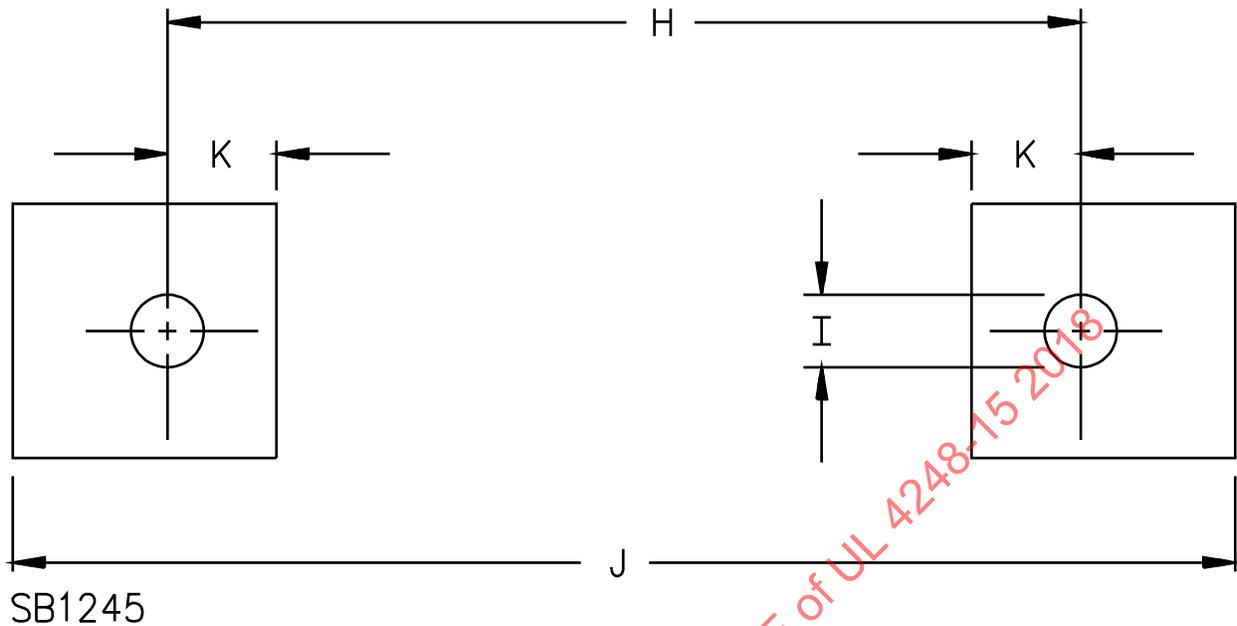
^a Tolerances ± 0.51 mm (0.020 in)

^b Tolerances ± 1.3 mm (0.050 in)

^c Tolerances ± 0.76 mm (0.030 in)

^d Minimum of 1.78 mm (0.070 in) clearance at one end shall be provided for plate. Distance may be 42.42 – 43.18 (1.670 – 1.700) with clearance at each end for plate.

Figure 7.6B
Class T fuseholder – Fuse bolted in place



Class of fuse	Potential rating of fuse, volts	Current rating of fuse, amperes	Dimensions of a Class T fuseholder – fuse bolted in place			
			Dimensions, mm (in)			
			Center-to-center of studs or threaded holes ^a	Size of stud or threaded hole ^b	Minimum unobstructed clearance	End-of-terminal to center of stud or threaded hole - maximum
			H	I	J	K
T	300	100	39.52 (1.556)	6.35 (0.250)	55.27 (2.176)	8.64 (0.340)
		200	43.05 (1.695)	7.94 (0.312)	62.46 (2.458)	10.41 (0.410)
		400	46.84 (1.844)	9.53 (0.375)	70.87 (2.790)	12.19 (0.480)
		600	51.59 (2.031)	11.11 (0.437)	78.82 (3.103)	14.22 (0.560)
		800	56.36 (2.219)	12.70 (0.5)	86.74 (3.415)	16.51 (0.650)
		1200	64.29 (2.531)	14.29 (0.562)	102.62 (4.040)	10.03 (0.710)
	600	100	59.74 (2.352)	6.35 (0.250)	76.02 (2.993)	8.64 (0.340)
		200	63.68 (2.507)	7.94 (0.312)	83.57 (3.290)	10.41 (0.410)
		400	69.06 (2.719)	9.53 (0.375)	93.09 (3.665)	12.19 (0.480)
		600	75.01 (2.953)	11.11 (0.437)	102.21 (4.024)	14.22 (0.560)
		800	80.57 (3.172)	12.70 (0.5)	110.96 (4.368)	16.00 (0.630)

^a Tolerance is ± 0.38 mm (0.015 in) for rigid studs or threaded holes.

^b End stops that prevent insertion of larger case size fuse in a smaller fuseholder are required if captive stud floats in fuseholder or if stud or threaded hole dimension 1 is 1.59 mm (1/16 in) smaller size than specified.