UL 4248-15

STANDARD FOR SAFETY

Fuseholders – Part 15: Class T

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

First Edition, Dated February 28, 2007

Summary of Topics

This revision of ANSI/UL 4248-15 dated May 25, 2023 is being issued to update the title page to reflect the most recent designation as a Reaffirmed American National Standard (ANS). No technical changes have been made.

As noted in the Commitment for Amendments statement located on the back side of the title page, ULSE, CSA Group, and ANCE are committed to updating this harmonized standard jointly. However, the revision pages dated May 25, 2023 will not be jointly issued by ULSE, CSA Group, and ANCE as these revision pages only address UL ANSI approval dates.

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

The requirements are substantially in accordance with Proposal(s) on this subject dated April 7, 2023.

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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
First Edition

ULSE Inc.
UL 4248-15
First Edition

Fuseholders – Part 15: Class T

February 28, 2007

(Title Page Reprinted: May 25, 2023)

ANSI/UL 4248-15-2007 (R2023)

Commitment for Amendments

This standard is issued jointly by the Association of Standardization and Certification (ANCE), the Canadian Standards Association (operating as "CSA Group"), and ULSE Inc. (ULSE). Comments or proposals for revisions on any part of the standard may be submitted to ANCE, CSA Group, or ULSE at any time. Revisions to this standard will be made only after processing according to the standards development procedures of ANCE, CSA Group, and ULSE. CSA Group and ULSE will issue revisions to this standard by means of a new edition or revised or additional pages bearing their date of issue. ANCE will incorporate the same revisions into a new edition of the standard bearing the same date of issue as the CSA Group and ULSE pages.

ISBN 1-55436-048-X © 2007 Canadian Standards Association

This Standard is subject to review within five years from the date of publication, and suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include "Proposal for change" in the subject line: Standard designation (number); relevant clause, table, and/or figure number; wording of the proposed change; and rationale for the change.

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This ANSI/UL Standard for Safety consists of the First Edition including revisions through May 25, 2023.

The most recent designation of ANSI/UL 4248-15 as a Reaffirmed American National Standard (ANS) occurred on May 25, 2023. 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 ULSE at any time. Proposals should be submitted via a Proposal Request in ULSE's Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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PREFACE

This is the common ANCE, CSA Group, and ULSE 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 ULSE. 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.

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 ULSE.

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".

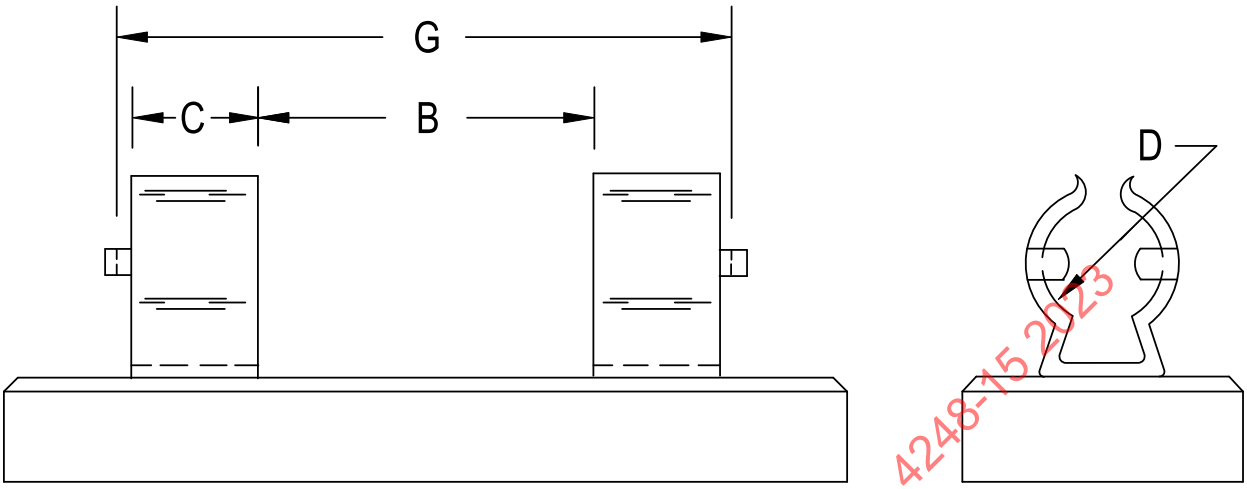
7 Construction

7.6 Contacts of a cartridge fuseholder

7.6.1 The dimensions of a Class T fuseholder shall be as specified in Figure 7.6A or Figure 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.