



Association of Standardization and Certification
NMX-J-009/4248/1-2022-ANCE
Third Edition



CSA Group
CSA C22.2 No. 4248.1:22
Third Edition



Underwriters Laboratories Inc.
UL 4248-1
Third Edition

Fuseholders – Part 1: General Requirements

March 31, 2022

ULNORM.COM : Click to view the full PDF of UL 4248-1 2022



ANSI/UL 4248-1-2022

Standard for Safety for Fuseholders – Part 1: General Requirements

Third Edition, Dated March 31, 2022

Summary of Topics

This Third Edition of the Standard for Fuseholders – Part 1: General Requirements dated March 31, 2022 incorporates editorial updates including renumbering and reformatting to align with current style.

ULNORM.COM : Click to view the full PDF of UL 4248-1 2022

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 Underwriters Laboratories Inc. (UL). Comments or proposals for revisions on any part of the standard may be submitted to ANCE, CSA Group, or UL at anytime. Revisions to this standard will be made only after processing according to the standards development procedures of ANCE, CSA Group, and UL. CSA Group and UL 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 UL pages

Copyright © 2022 ANCE

Rights reserved in favor of ANCE.

ISBN 978-1-4883-3696-6 © 2022 Canadian Standards Association

All rights reserved. No part of this publication may be reproduced in any form whatsoever without the prior permission of the publisher.

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.

To purchase CSA Group Standards and related publications, visit CSA Group's Online Store at www.csagroup.org/store/ or call toll-free 1-800-463-6727 or 416-747-4044.

Copyright © 2022 Underwriters Laboratories Inc.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

This ANSI/UL Standard for Safety consists of the Third Edition.

The most recent designation of ANSI/UL 4248-1 as an American National Standard (ANSI) occurred on March 31, 2022. 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>.

To purchase UL Standards, visit UL's Standards Sales Site at <http://www.shopulstandards.com/HowToOrder.aspx> or call toll-free 1-888-853-3503.

CONTENTS

Preface	5
1 Scope	7
2 Referenced Publications	7
3 Units of Measurement	8
4 Definitions	8
4.1 General	8
4.2 Ratings	9
4.3 Wiring terminals	10
5 General	10
6 Service Conditions	10
7 Classification	10
8 Characteristics	11
9 Markings	11
10 Construction	12
10.1 Fuseholder components	12
10.2 Bases and supports – insulating material	13
10.3 Sealing	13
10.4 Current carrying parts	14
10.5 Wiring terminals	14
10.6 Contacts of cartridge fuseholders	16
10.7 Creepage and clearance	17
10.8 Open fuse indicator	17
11 Tests	17
11.1 General	17
11.2 Verification of electric shock protection (IEC 60529 IP Code) categories	18
11.3 Verification of insulating materials	18
11.4 Verification of temperature rise	19
11.5 Verification of withstand rating	20
11.6 Open fuse indicating current test	22
 ANNEX A (Informative) – End-Use Fuseholder Spacings	
 ANNEX B (Normative) – Circuit Calibration for Verification of Withstand Rating Test	
B1 Galvanometers	24
B2 Circuit Calibration	25
B3 Alternating Current Circuits Greater than 10,000 A	26

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 4248-1 2022