

Edition 5.0 2024-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Low-voltage fuses -

Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household or similar applications) – Examples of standardized systems of fuses A to F

Fusibles basse tension -

Partie 3: Exigences supplémentaires pour les fusibles destinés à être utilisés par des personnes non qualifiées (fusibles pour usages essentiellement 0269-3-2 domestiques et analogues) – Exemples de systèmes de fusibles normalisés A à F





THIS PUBLICATION IS COPYRIGHT PROTECTED Copyright © 2024 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester. If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

Droits de reproduction réservés. Sauf indication contraire, aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé, électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'IEC ou du Comité national de l'IEC du pays du demandeur. Si vous avez des questions sur le copyright de l'IEC ou si vous désirez obtenir des droits supplémentaires sur cette publication, utilisez les coordonnées ci-après ou contactez le Comité national de l'IEC de votre pays de résidence.

IEC Secretariat Tel.: +41 22 919 02 11

3, rue de Varembé info@iec.ch CH-1211 Geneva 20 www.iec.ch

Switzerland

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigendum or an amendment might have been published.

IEC publications search - webstore.iec.ch/advsearchform

The advanced search enables to find IEC publications by a variety of criteria (reference number, text, technical committee, ...). It also gives information on projects, replaced and withdrawn publications.

IEC Just Published - webstore.iec.ch/justpublished

Stay up to date on all new IEC publications. Just Published details all new publications released. Available online and once a month by email.

IEC Customer Service Centre - webstore.iec.ch/csc

If you wish to give us your feedback on this publication or need further assistance, please contact the Customer Service Centre: sales@iec.ch.

IEC Products & Services Portal - products.iec.ch

Discover our powerful search engine and read freely all the publications previews, graphical symbols and the glossary. With a subscription you will always have access to up to date content tailored to your needs.

Electropedia - www.electropedia.org

The world's leading online dictionary on electrotechnology, containing more than 22 500 terminological entries in English and French, with equivalent terms in 25 additional languages. Also known as the International Electrotechnical Vocabulary (IEV) online.

A propos de l'IEC

La Commission Electrotechnique Internationale (IEC) est la première organisation mondiale qui élabore et publie des Normes internationales pour tout ce qui a trait à l'électricité, à l'électronique et aux technologies apparentées.

A propos des publications IEC

Le contenu technique des publications IEC est constamment revu. Veuillez vous assurer que vous possédez l'édition la plus récente, un corrigendum ou amendement peut avoir été publié.

Recherche de publications IEC -

webstore.iec.ch/advsearchform

La recherche avancée permet de trouver des publications IEC en utilisant différents critères (numéro de référence, texte, comité d'études, ...). Elle donne aussi des informations sur les projets et les publications remplacées ou retirées.

IEC Just Published - webstore.iec.ch/justpublished

Restez informé sur les nouvelles publications IEC. Just Published détaille les nouvelles publications parues. Disponible en ligne et une fois par mois par email.

Service Clients - webstore.iec.ch/csc

Si vous désirez nous donner des commentaires sur cette publication ou si vous avez des questions contactez-nous: sales@iec.ch.

IEC Products & Services Portal - products.iec.ch

Découvrez notre puissant moteur de recherche et consultez gratuitement tous les aperçus des publications, symboles graphiques et le glossaire. Avec un abonnement, vous aurez toujours accès à un contenu à jour adapté à vos besoins.

Electropedia - www.electropedia.org

Le premier dictionnaire d'électrotechnologie en ligne au monde, avec plus de 22 500 articles terminologiques en anglais et en français, ainsi que les termes équivalents dans 25 langues additionnelles. Egalement appelé Vocabulaire Electrotechnique International (IEV) en ligne.



Edition 5.0 2024-08

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Low-voltage fuses - 11 eh Standard

Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household or similar applications) – Examples of standardized systems of fuses A to F

Fusibles basse tension -

Partie 3: Exigences supplémentaires pour les fusibles destinés à être utilisés par des personnes non qualifiées (fusibles pour usages essentiellement domestiques et analogues) – Exemples de systèmes de fusibles normalisés A à F

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 29.120.50 ISBN 978-2-8322-9107-8

Warning! Make sure that you obtained this publication from an authorized distributor.

Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.

CONTENTS

Г	OREWO		10
11	NTRODU	JCTION	13
1	Gene	eral Scope	14
2	Norm	native references	14
3	Term	is and definitions	15
F	use svs	tem A: D type fuse system	16
1	_	eral	
·	1.1	Scope	
2		is and definitions	
3		litions for operation in service	
4		sification	
5		acteristics of fuses	
5			
	5.2	Rated voltage	
	5.3.1 5.3.2		
	5.3.2		
	5.5	Rated power dissipation of a fuse-link and rated acceptable power	17
	0.0	dissipation of a fuse-holder	17
	5.6	Limits of time-current characteristics	17
	5.6.1	Time-current characteristics, time-current zones and overload curves	17
	5.6.2		
	5.6.3		
	5.7	Breaking range and breaking capacity	
	5.7.2	• • PLC 00209-3.2024	
ttps:6	_{star} Mark	ingsh	
	6.1	General	
	6.2	Marking of fuse-bases	
_	6.3	Marking of the gauge-pieces	
7	Stan	dard conditions for construction	
	7.1	Mechanical design	
	7.1.2	S .	
	7.1.3		
	7.1.4 7.1.6	3 3 1	
	7.1.0		
	7.1.7		
	7.1.9	· ·	
	7.2	Insulating properties and suitability for isolation	
	7.3	Temperature rise, power dissipation of the fuse-link and acceptable power dissipation of the fuse-holder	
	7 7		
	7.7	I^2t characteristics	
	7.7.1		
	7.7.2		
	7.8	Overcurrent discrimination of "gG" fuse-links	
	7.9	Protection against electric shock	24

8	3 Tes	ts	24
	8.1.	4 Arrangement of the fuse and dimensions	24
	8.2	Verification of the insulating properties and of the suitability for isolation	25
	8.2.	1 Arrangement of the fuse-holder	25
	8.2.	6 Creepage distances, clearances and distances through sealing compound	26
	8.3	Verification of temperature rise and power dissipation	26
	8.3	3	
	8.3	' '	
	8.3	,	
	8.5	5	
	8.5		
	8.5		
	8.5	,	
	8.7.		
	8.9	Verification of resistance to heat	
	8.9.		
	8.9.		
	8.10	Verification of non-deterioration of contacts	
	8.10		
	8.10		30
	8.10		31
	8.11	Mechanical and miscellaneous tests	
	8.1		
,		A (informative) Special test for cable overload protection (for fuse system A)	
	AA.1	Arrangement of the fuse	
	AA.2	Test method and acceptability of test results	
	-	stem B – Cylindrical fuses (NF cylindrical fuse system)	
•		neral	
	1.1	Scope	
2		ms and definitions	
;	3 Cor	ditions for operation in service	68
4	1 Cla	ssification	69
į	5 Cha	racteristics of fuses	69
	5.2	Rated voltage	69
	5.3	1 Rated current of the fuse-link	69
	5.3	2 Rated current of the fuse-holder	69
	5.5	Rated power dissipation of a fuse-link and rated acceptable power dissipation of a fuse-holder	69
	5.6	2 Conventional times and currents	69
	5.6	3 Gates	70
	5.7	2 Rated breaking capacity	70
(6 Mai	kings	70
-	7 Sta	ndard conditions for construction	70
	7.1	Mechanical design	71
	7.1.	-	
	7.1.	~	
	7.1.		

	7.1.8	Non-interchangeability	72
	7.1.9	Construction of a fuse-base	72
	7.2	Insulating properties and suitability for isolation	72
	7.3	Temperature rise, power dissipation of the fuse-link and acceptable power dissipation of the fuse-holder	73
	7.7	I^2t characteristics	73
	7.7.1	Pre-arcing I^2t values	73
	7.7.2	Operating I^2t values	74
	7.8	Overcurrent discrimination of "gG" fuse-links	
	7.9	Protection against electric shock	
8	Tests		
	8.1.6		
	8.3.1	Arrangement of the fuse	
	8.3.3	Measurement of the power dissipation of the fuse-link	
	8.4	Verification of operation	
	8.4.1	Arrangement of the fuse	
	8.5	Verification of the breaking capacity	
	8.5.1	Arrangement of the fuse	
	8.5.5	Test method	77
	8.5.8	Acceptability of test results	77
	8.7.4	Verification of overcurrent discrimination	77
	8.8	Verification of the degree of protection of enclosures	77
	8.8.1	Verification of protection against electric shock	77
	8.9	Verification of resistance to heat	
	8.10	Verification of non-deterioration of contacts	78
	8.10.	1 Arrangement of the fuse	78
	8.10.	2 Test method	78
	8.10.	3 Acceptability of test results	79
	8.12	Verification of the reliability of terminals	82
F	use sys	em C – Cylindrical fuses (BS cylindrical fuse system)	90
1	Gene	ral	90
	1.1	Scope	90
2	Term	s and definitions	90
3	Cond	itions for operation in service	90
4		ification	
5		acteristics of fuses	
J			
	5.2	Rated Voltage	
	5.3 5.3.1	Rated current of the fues link	
		Rated current of the fuse-link	
	5.3.2		91
	5.5	Rated power dissipation of a fuse-link and rated acceptable power dissipation of a fuse-holder	91
	5.6	Limits of time-current characteristics	
	5.6.1	Time-current characteristics, time-current curves and overload curves	
	5.6.2	Conventional times and currents	
	5.7	Breaking range and breaking capacity	
	5.7.2	Rated breaking capacity	
6		ings	
_	.,,,	a	

7	Stand	dard conditions for construction	92
	7.1	Mechanical design	92
	7.1.2	Connections including terminals	92
	7.1.6	Construction of a fuse-carrier	92
	7.1.7	Construction of a fuse-link	92
	7.1.8	Non-interchangeability	92
	7.1.9	Construction of a fuse-base	92
	7.2	Insulating properties and suitability for isolation	93
	7.3	Temperature rise, power dissipation of the fuse-link and acceptable power	
		dissipation of the fuse-holder	
	7.7	<i>I</i> ² <i>t</i> characteristics	93
	7.9	Protection against electric shock	93
8	Tests	S	93
	8.1	General	93
	8.1.4	Arrangement of the fuse	93
	8.3	Verification of temperature rise and power dissipation	93
	8.3.1	Arrangement of the fuse	93
	8.3.3	Measurement of the power dissipation of the fuse-link	93
	8.4	Verification of operation	94
	8.4.1	Arrangement of fuse	94
	8.5	Verification of breaking capacity	94
	8.5.1	Arrangement of the fuse	94
	8.5.2	Characteristics of the test circuit	94
	8.5.5	Test method	94
	8.5.8	Acceptability of test results	94
	8.10	Verification of non-deterioration of contacts	94
	8.10.	<u> </u>	
	8.10.	2 iteh Test method and ards/iec/2673a01h-946h-4e6f-90f1-4076ca2888e7/iec-6	.026.94
	8.10.	3 Acceptability of test results	95
Fυ	ise sys	tem F – Cylindrical fuse-links for use in plugs (BS plugtop system)	103
1	Gene	ral	103
	1.1	Scope	103
2	Term	s and definitions	103
3	Cond	litions for operation in service	103
4		sification	
5		acteristics of fuses	
Ü	5.2	Rated voltage	
	5.3.1	Rated current of the fuse-link	
	5.3.1		
	5.5	Rated power dissipation of a fuse-link and rated acceptable power	104
	0.0	dissipation of a fuse-holder	104
	5.6.1	Time-current characteristics, time-current zones and overload curves	104
	5.6.2	Conventional times and currents	104
	5.6.3	Gates	104
	5.7.2	Rated breaking capacity	104
6	Mark	ings	
7	Stan	dard conditions for construction	105
	7.1.7	Construction of a fuse-link	105

	7.1.8	Non-interchangeability	105
	7.2	Insulating properties and suitability for isolation	105
	7.3	Temperature rise, power dissipation of the fuse-link and acceptable power dissipation of the fuse-holder	105
	7.7	I^2t characteristics	105
	7.7.1	0	
	7.9	Protection against electric shock	
8		S	
·	8.1.4		
	8.1.5	-	
	8.2.4	-	
	8.3	Verification of temperature rise and power dissipation	
	8.3.1		
	8.3.4	3	
	8.3.5		
	8.4	Verification of operation	
	8.4.1	•	
	8.5	Breaking-capacity tests	
	8.5.1		
	8.5.2		
	8.5.4		
	8.5.5		
	8.5.8		109
	8.7	Verification of I^2t characteristics and overcurrent discrimination	
	8.7.3 8.10	Verification of compliance for fuse-links at 0,01 s Verification of non-deterioration of contacts	
tps://	8.11.	.1 Mechanical strength	110 0269-3-202
N	nnex Be lo. 2 of T	able 20 of IEC 60269-1:2024	115
	BB.1	Test method	
	BB.1	Test No. 1	
	BB.3	Test No. 2	
	nnex CC	(informative) Recommendations for future designs of fuses (for all fuse	
9	•	Overview	
	CC.1	Overview	
	CC.2	Fuse contacts	
Ь	CC.3	Protection against electric shock	
ь	ibilograp	bhy	118
	•	1 – Time-current zones for "gG" fuse-links	
F	igure 10	2 – Time-current zones for "gG" fuse-links	36
F	igure 10	3 – Time-current zone for "gG" fuse-links 13 A and 32 A	37
F	igure 10	4 – Dummy fuse-links according to 8.3 and 8.9.1.1	38
F	igure 10	5 – Test rigs for fuse-links	39
	_	6 – Test rigs for fuse-links	
	•	-	
	•	7 – Test arrangement for fuse-bases according to 8.9.1.2	
F	ıgure 10	8 – Example of a torque wrench according to 8.9.2	42

rigure 109 – Measuring points according to 6.5.5, 6.5.4.1 and 6.10.2 or fuse system A	43
Figure 110 – Fuse-link, D-type. Sizes D01-D03	44
Figure 111 – Fuse-link, D-type. Sizes DII-DIV	46
Figure 112 – Fuse-carrier, D-type. Sizes D01-D03	47
Figure 113 – Fuse-carrier, D-type. Sizes DII-DIII	48
Figure 114 – Fuse-carrier, D-type. Size DIV	49
Figure 115 – Edison thread for D-type fuses; limit dimensions	50
Figure 116 – Gauges for Edison thread for D-type fuses for screwed shells of fuse-carrier go ring gauges	51
Figure 117 – Gauges for Edison thread, D-type fuses, go and not-go plug gauges for screwed shells of fuse-bases	53
Figure 118 – Fuse-base, D-type. Sizes D01-D03	54
Figure 119 – Fuse-base, D-type. Sizes DII-DIV	55
Figure 120 – Fuse-base, D-type for push-in gauge pieces. Size DII-DIII	56
Figure 121 – Gauge-piece and hand-key, D-type. Sizes D01-D03	58
Figure 122 – Gauge-piece and hand-key, D-type. Sizes DII-DIV	60
Figure 123 – Gauge-piece and hand-key, D-type push-in gauge rings. Size DII-DIII	62
Figure 124 – Whitworth thread W 3/16 for screw-in gauge rings and corresponding fuse-bases of sizes DII and DIII	63
Figure 125 – Gauges C 17 for concentricity of fuse-bases	64
Figure 126 – Test dummies DII, DIII, D01, D02 and D03 for fuse-carrier test	65
Figure 127 – Time-current zone for "gG" fuse-links 40 A	
Figure 201 – Fuse-link	83
Figure 202 – Dummy fuse-link	84
Figure 203 – Test-rig and ferrules for the measurement of the voltage drop and the verification of operating characteristics of the cartridge	.6.985
Figure 204 – Fuse-base, A-type and B-type	86
Figure 205 – Housing for verification of operation of the fuse-links with a test rig according to Figure 203	
Figure 206 – Test rig and ferrules for verification of breaking capacity	88
Figure 207 – Gauge for verification of the upholding of the cartridge in the fuse-carrier during withdrawal	89
Figure 301 – Details of cylindrical fuse-links	96
Figure 302 – Typical outline dimensions of carriers and bases for 230 V cylindrical fuse-links	97
Figure 303 – Typical carrier and base for 400 V cylindrical fuse-links	97
Figure 304 – Time-current zones for "gG" fuse-link	98
Figure 305 – Time-current zones for "gG" fuse-link	99
Figure 306 – Standard test rig for power-dissipation test	100
Figure 307 – Breaking-capacity test rig	102
Figure 601 – Dimensions for cylindrical fuse-links (primarily used in plugs)	111
Figure 602 – Time-current zones for "gG" fuse-links	112
Figure 603 – Test fuse-base	113
Figure 604 – Typical diagram of the circuit used for breaking-capacity tests	114
Figure BB 1 – Instant of making for Test No. 1	116

Table 101 – Maximum values of power dissipation	17
Table 102 – Conventional time and current for "gG" fuse-links	18
Table 103 – Gates for specified pre-arcing times of "gG" fuse-links with rated currents 2 A, 4 A, 6 A, 10 A, 13 A and 35 A	18
Table 104 – Cross-sections of rigid (solid or stranded) or flexible copper conductors	
Table 105 – Creepage distances, clearances and distances through sealing compound	
Table 106 – Temperature-rise limits for terminals	
Table 107 – Pre-arcing I^2t values at 0,01 s for "gG" fuse-links	23
Table 108 – I^2t values for the discrimination with circuit breakers	23
Table 109 – Survey of tests on fuse-links	
Table 110 – Survey of tests on fuse-bases, fuse-carriers and gauge-pieces	25
Table 111 – Test torque for verification of temperature rise and power dissipation	26
Table 112 – Test according to 8.5.5.1	27
Table 113 – Test currents and I^2t limits for the discrimination test	28
Table 114 – Power dissipation of a dummy fuse-link at rated and conventional fusing currents including tolerances	
Table 115 – Test-torque for mechanical strength	
Table 116 – Mechanical strength of screw-thread	
Table 201 – Maximum values of rated power dissipation and values of rated acceptable power dissipation	
Table 202 – Conventional times and currents for "gG" fuse-links	
Table 203 – Gates for specified pre-arcing times of "gG" fuse-links with rated currents lower than 16 A	70
Table 204 – Minimum rated breaking capacities	
Table 205 – Nominal section of copper conductors that the terminals shall accept	
Table 206 – Creepage distances and clearances	73
Table 207 – Temperature rise limits for terminals	73
Table 208 – Pre-arcing I^2t values at 0,01 s for "gG" fuse-links	73
Table 209 – Survey of tests on fuse-link	74
Table 210 – Survey of tests on fuse-holder and number of fuse-holders to be tested	75
Table 211 – Screw-thread diameters and applied torques	75
Table 212 – Values concerning the choice and the adjustment of the test base	76
Table 213 – Values for adjustment of the test base	77
Table 214 – Hammer and height of fall for test for verification of resistance to shocks	80
Table 215 – Torque to be applied to the fuse-carrier	81
Table 216 – Mechanical strength of screw-thread	82
Table 301 – Conventional time and current for "gG" fuse-links	91
Table 302 – Temperature-rise limits for terminals	93
Table 303 – Mechanical strength of screw-thread	95
Table 601 – Conventional times and conventional currents	104
Table 602 – Gates for specified pre-arcing times of "gG" fuse-links for use in plugs	
Table 603 – Temperature-rise limits for terminals	105

Table 604 – Pre-arcing $\mathit{I}^2\mathit{t}$ values at 0,01 s for "gG" fuse-links	105
Table 605 – Survey of tests on fuse-links	107
Table 606 – Values for breaking-capacity tests	109
Table BB.1 – Approximate values of prospective currents for breaking capacity test No. 2	115

iTeh Standards (https://standards.iteh.ai) Document Preview

IEC 60269-3:2024

https://standards.iteh.ai/catalog/standards/iec/2673a01b-946b-4e6f-90f1-4076ca2888e7/iec-60269-3-2024

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LOW-VOLTAGE FUSES -

Part 3: Supplementary requirements for fuses for operation by unskilled persons (fuses mainly for household and similar applications) – Examples of standardized systems of fuses A to F

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 60269-3 has been prepared by subcommittee 32B: Low-voltage fuses, of IEC technical committee 32: Fuses. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2010, Amendment 1:2013 and Amendment 2:2019. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Introduction and general scope fully updated;
- b) Normative references updated and editorial changes;

- c) Terms "ordinary person", "operation" and "non-interchangeability" defined;
- d) In System A: Parts defined for removal;
- e) In System A: Marking of fuse-bases added for direction of current flow;
- f) In System A: Clarifications added for connection;
- g) In System A: Clarification of construction of fuse-carrier and fuse-link;
- h) In System A: Clarification of voltage drop measurement.

The text of this International Standard is based on the following documents:

Draft	Report on voting
32B/745/FDIS	32B/754/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This part is to be used in conjunction with IEC 60269-1:2024, Low-voltage fuses — Part 1: General requirements.

This Part 3 supplements or modifies the corresponding clauses or subclauses of Part 1.

Where no change is necessary, this Part 3 indicates that the relevant clause or subclause applies.

Tables and figures which are additional to those in Part 1 are numbered starting from 101. Additional annexes are numbered AA, BB, etc.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

IEC 60269 consists of the following parts, under the general title Low-voltage fuses:

- Part 1: General requirements
- Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) Examples of standardized systems of fuses A to K
- Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) Examples of standardized systems of fuses A to F
- Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
- Part 5: Guidance for the application of low-voltage fuses

A list of all parts of the IEC 60269 series, under the general title, *Low-voltage fuses*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- · reconfirmed,
- · withdrawn, or
- revised.

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

iTeh Standards (https://standards.iteh.ai) Document Preview

EC 60269-3:2024

https://standards.iteh.ai/catalog/standards/iec/2673a01b-946b-4e6f-90f1-4076ca2888e7/iec-60269-3-2024