

BUREAU OF INDIAN STANDARDS

Program of Work

ETD 39 : Fuses

Scope: To prepare standards regarding specification for all types of fuses, with the object of determining : a) The characteristics which are essential in specifying the conditions for installation and operation of the fuses b) The requirements to be met by the fuses and the tests designed to ascertain their compliance with such requirements as well as the procedures to be followed for these tests c) Markings To prepare for these fuses standards, standard values of:
1) Characteristics, rated voltages, currents and breaking capacities: 2) Dimensions in connections with the fixing and interchangeability of high voltage and low voltage fuses

Liaison: **IEC TC-32 (P): Fuses IEC TC-32 SC-32A (P): High-voltage fuses IEC TC-32 SC-32B (P): Low-voltage fuses IEC TC-32 SC-32C (O): Miniature fuses IEC TC-32 (P): Fuses IEC TC-32 SC-32 (P): High-voltage fuses IEC TC-32 SC-32 (P): Low-voltage fuses IEC TC-32 SC-32 (O): Miniature fuses**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10624:2024 IEC 60644:2009+A MD1:2019 (CSV) IEC 60644:2009+A MD1:2019 (CSV)	High-Voltage Fuse-Links for Motor Circuit Applications " Specification (First Revision)		-	Identical under dual numbering
2	IS/IEC 60127-5:2016 IEC 60127-5 : 2016 IEC 60127-5 : 2016	Miniature Fuses Part 5 Quality Assessment of Miniature Fuse-Links - Guidelines (First Revision)		-	Identical under single numbering
3	IS/IEC 60127-6:2023 IEC 60127-6:2023 IEC 60127-6:2023	Miniature Fuses Part 6 Fuse-Holders for Miniature Fuse-Links (First Revision)		-	Identical under single numbering
4	IS 13703 (Part 4):1993 IEC Pub 269-4 : 1980 Reviewed In : 2019 iec 269-4:1980	Specification for low - Voltage fuses for voltages not exceeding 1000 v ac or 1500 v dc: Part 4 supplementary requirements for fuse links for the protection of semiconductor devices	June, 2019	-	Identical under dual numbering
5	IS 2086:1993 Reviewed In : 2024	Carriers and bases in rewirable type electric fuses for voltages up to 650 v - Specification (Third Revision)	May, 2024	1	Indigenous
6	IS/IEC 60127-1:2023 IEC 60127-1:2023 IEC 60127-1:2023	Miniature Fuses Part 1 Definitions for Miniature Fuses and General Requirements for Miniature Fuse-Links (Second Revision)		-	Identical under single numbering
7	IS/IEC	Miniature fuses Part 2 Cartridge		-	Identical under single

	60127-2:2014 IEC 60127-2:2014 and Amd 1:2020 IEC 60127-2:2014 and Amd 1:2020	fuse-links (Second Revision)			numbering
8	IS 60127 (Part 3):2015 IEC 60127-3:2015 and Amd 1:2020 IEC 60127-3:2015 and Amd 1:2020	Miniature Fuses Part 3 Sub- Miniature Fuse-Links		-	Identical under single numbering
9	IS/IEC 60127-4:2005 Reviewed In : 2024 IEC 60127-4 : 2005	Miniature fuses Part 4 universal modular fuse - Links (Umf) - Through - Hole and surface mount types	May, 2024	-	Identical under single numbering
10	IS/IEC 60127-7:2015 IEC 60127-7:2015 IEC 60127-7:2015	Miniature Fuses Part 7 Miniature fuse-Links for Special Applications		-	Identical under single numbering
11	IS/IEC 60127-8:2018 IEC 60127-8:2018 IEC 60127-8:2018	Miniature Fuses Part 8 Fuse Resistors with Particular Overcurrent Protection		-	Identical under single numbering
12	IS/IEC 60127-10:2001 IEC 60127-10:2001 IEC 60127-10:2001	Miniature Fuses Part 10 User Guide for Miniature Fuses		-	Identical under single numbering
13	IS/IEC 60269-1:2014 IEC 60269-1 : 2014 Reviewed In : 2024 IEC 60269-1 : 2014	Low-Voltage Fuses Part 1 General Requirements	May, 2024	-	Identical under single numbering
14	IS/IEC 60269-2:2016 IEC 60269-2 : 2016 Reviewed In : 2024 IEC 60269-2 : 2013	Low-Voltage Fuses 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	May, 2024	-	Identical under single numbering
15	IS/IEC 60269-3:2010 IEC 60269-3 : 2013 IEC 60269-3 : 2013	Low-Voltage Fuses Part 3 Supplementary Requirements for Fuses for Use by Unskilled Persons (Fuses Mainly for Household and Similar Applications) “ Examples of Standardized Systems of Fuses A to F		-	Identical under dual numbering
16	IS/IEC 60269-4:2009 IEC 60269-4 : 2009 + Amd 1 : 2012 + Amd 2 : 2016 IEC 60269-4 : 2009 + Amd 1 : 2012 + Amd 2 : 2016	Low-Voltage Fuses Part 4 Fuse- Links for the Protection of Semiconductor Devices - Supplementary Requirements		-	Identical under single numbering
17	IS/IEC/TR 60269-5:2014 IEC/TR 60269-5 : 2014 Reviewed In : 2024	Low-Voltage Fuses Part 5 Guidance for the Application of Low-Voltage Fuses	May, 2024	1	Identical under single numbering

	IEC/TR 60269-5 : 2014				
18	IS/IEC 60269-6:2010 IEC 60269-6 : 2010 Reviewed In : 2024 IEC 60269-6 : 2010	Low-Voltage Fuses Part 6 Supplementary Requirements for Fuse-Links for the Protection of Solar Photovoltaic Energy Systems	May, 2024	1	Identical under single numbering
19	IS/IEC 60269-7:2021 IEC 60269-7:2021 IEC 60269-7:2021	Low Voltage Fuses Part 7 Fuse-Links for the Protection of Batteries and Battery Systems - Supplementary Requirements		-	Identical under single numbering
20	IS/IEC :2023 IEC 60691:2023 IEC 60691:2023	Thermal-Links - Requirements and Application Guide (Second Revision)		-	Identical under single numbering
21	IS/IEC/TR 62655:2013 IS/IEC 62655:2013 IS/IEC 62655:2013	Tutorial and application guide for high-voltage fuses		-	Identical under single numbering
22	IS 9385 (Part 1):2024 IS/IEC 60282 (Part 1) IS/IEC 60282 (Part 1)	High-Voltage Fuses Part 1 Current-Limiting Fuses (Second Revision)		-	Identical under dual numbering
23	IS 9385 (Part 2):2018 IEC 60282-2 : 2008 Reviewed In : 2024 IEC 60282-2:2008	High - Voltage fuses: Part 2 expulsion fuses (First Revision)	May, 2024	-	Identical under dual numbering
24	IS 9385 (Part 4):1983 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 282	Specification for high voltage fuses: Part 4 determination of short - Circuit power factor for testing high voltage fuses	May, 2024	-	Modified/Technically Equivalent
25	IS 9385 (Part 6):2025 IS/IEC 60282 (Part 4) :2020 IS/IEC 60282 (Part 4) :2020	High-Voltage Fuses Part 6 Additional Testing Requirements for High-Voltage Expulsion Fuses Utilizing Polymeric Insulators		-	Identical under dual numbering
26	IS 9402:2024 IEC 60549:2013 IEC 60549:2013	High-Voltage Fuses for the External Protection of Shunt Capacitors (First Revision)		-	Identical under dual numbering
27	IS 9926:1981 Reviewed In : 2021	Specification for fuse - Wire used in rewirable type electric fuses up to 650 volts	March, 2021	-	Indigenous

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
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No Records Found

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 39 (10038) Revision of: IS/IEC 691:1993	Thermal-Links Requirements And Application Guide
2	ETD 39 (10039) Revision of: IS 13703:1993	Low voltage fuses Part 1 General requirements
3	ETD 39 (10040) Revision of: IS 13703:1993	Low-voltage fuses 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
4	ETD 39 (10041)	Low-voltage fuses Part 3 Supplementary requirements for fuses for use by unskilled persons fuses mainly for household and similar applications Examples of standardized systems of fuses A to F
5	ETD 39 (10042)	Low-voltage fuses Part 5 Guidance for the application of low-voltage fuses
6	ETD 39 (10043)	Low-voltage fuses Part 6 Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems
7	ETD 39 (10044) Revision of: IS 13703:1993	Low-voltage fuses Part 4 Supplementary requirements for fuse-links for the protection of semiconductor devices
8	ETD 39 (10045) Revision of: IS 9385:2018	SPECIFICATION FOR HIGH VOLTAGE FUSES PART I CURRENT LIMITING FUSES
9	ETD 39 (10046) Revision of: IS 9385:2018	SPECIFICATION FOR HIGH VOLTAGE FUSES PART II EXPULSION AN ₂ SIMILAR FUSES
10	ETD 39 (15631)	Tutorial and application guide for high-voltage fuses
11	ETD 39 (18460) Revision of: IS 9385:2018	High-Voltage Fuses Part 1 Current-Limiting Fuses Second Revision
12	ETD 39 (18582)	High-Voltage Fuses Part 6 Additional Testing Requirements for High-Voltage Expulsion Fuses Utilizing Polymeric Insulators
13	ETD 39 (21262) Revision of: IS/IEC 127:1988	Miniature Fuses Part 5 Quality Assessment of Miniature Fuse-Links Guidelines First Revision
14	ETD 39 (21264) Revision of: IS 9402:1980	High-Voltage Fuses for the External Protection of Shunt Capacitors First Revision
15	ETD 39 (21267) Revision of: IS 10624:1983	High-Voltage Fuse-Links for Motor Circuit Applications - Specification First Revision
16	ETD 39 (21270)	Low-Voltage Fuses Part 4 Fuse-Links for the Protection of Semiconductor Devices - Supplementary Requirements
17	ETD 39 (24474) Revision of: IS/IEC 60127:2006	Miniature Fuses Part 1 Definitions for Miniature Fuses and General Requirements for Miniature Fuse-Links Second Revision
18	ETD 39 (24475) Revision of: IS/IEC 60127:2003	Miniature fuses Part 2 Cartridge fuse-links Second Revision
19	ETD 39 (24476)	Miniature Fuses Part 3 Sub-Miniature Fuse-Links
20	ETD 39 (24477)	Miniature Fuses Part 7 Miniature fuse-Links for Special Applications
21	ETD 39 (24478) Revision of: IS/IEC 127:1994	Miniature Fuses Part 6 Fuse-Holders for Miniature Fuse-Links First Revision

22	ETD 39 (24479)	Miniature Fuses Part 8 Fuse Resistors with Particular Overcurrent Protection
23	ETD 39 (24481)	Miniature Fuses Part 10 User Guide for Miniature Fuses
24	ETD 39 (24482)	Low Voltage Fuses Part 7 Fuse-Links for the Protection of Batteries and Battery Systems - Supplementary Requirements
25	ETD 39 (24483) Revision of: IS/IEC 60691:2015	Thermal-Links - Requirements and Application Guide Second Revision
26	ETD 39 (24484)	Miniature fuses Part 4 universal modular fuse - Links Umf - Through - Hole and surface mount types Amendment - 1
27	ETD 39 (24485)	Low-Voltage Fuses Part 5 Guidance for the Application of Low-Voltage Fuses Amendment - 1
28	ETD 39 (24486)	Low-Voltage Fuses Part 6 Supplementary Requirements for Fuse-Links for the Protection of Solar Photovoltaic Energy Systems Amendment - 1

Total Published Standards:19 Total Standards Under development:28

Aspect Wise Report

Product : 22
Code of Practices : 2
Methods of Test : 1
Terminology : 0
Dimensions : 0
System Standard : 0
Safety Standard : 0
Others : 2
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 12534:1988 Reviewed In : 2017 IEC Publication 787 (1983)	Application guide for the selection of high voltage fuses for transformer circuit applications
2	IS/IEC 127-1:1988 Reviewed In : 2007	Miniature Fuses - Part 1 Definition for Miniature Fuses and General Requirements for Miniature Fuse Links
3	IS/IEC 127-2:1989 Reviewed In : 2007	Miniature Fuses - Part 2 Cartridge Fuse Links
4	IS 13703 (Part 1):1993 IEC 269-1 Reviewed In : 2014 IEC 269-1	LV Fuses for voltages not exceeding 1000 V ac or 1500 V dc Part 1 General requirements
5	IS 13703 (Part 2/Sec 1):1993 IEC 269-2 Reviewed In : 2019 iec 644	Specification for low - Voltage fuses for voltages not exceeding 1000 v ac or 1500vdc Part 2 fuses for use by authorized persons Sec 1 supplementary requirements
6	IS 13703 (Part 2/Sec 2):1993 IEC 269-2-1 Reviewed In : 2019 iec 269-2-1:1987	Low voltage fuses for voltage not exceeding 1000 v ac or 1500 v dc - Specification Part 2 fuses for use by authorized persons Sec 2 examples of standardized fuses
7	IS 2208:1962	HRC cartridge fuse links for voltage above 650 volts
8	IS 5792:1970	High Voltage Expulsion And Similar Fuses
9	IS/IEC 691:1993 Reviewed In : 2012 IEC Pub 691 (1993)	Thermal Links - Requirements and Application Guide
10	IS 8187:1976	D-type fuses

	IEC 269-3 Reviewed In : 2016 IEC 269-3	
11	IS 8724:1978	Dimensions of carrier and bases used in rewirable fuses
12	IS 9224 (Part 1):1979	Low Voltage Fuses Part 1 General Requirements
13	IS 9224 (Part 2):1979	Low voltage fuses Part 2 Supplementary requirements for fuses for industrial applications
14	IS 9224 (Part 4):1980	Low voltage fuses Part 4 Supplementary requirements for fuse-links for the protection of semiconductor devices
15	IS 9385 (Part 3):1980 IEC 282-2 Reviewed In : 2024 IEC 282	Specification for high voltage fuses Part 3 application guide for high voltage fuses
16	IS 9385 (Part 5):1983 Reviewed In : 2021 iec 282	Specification for high voltage fuses Part 5 types and dimensions of fuse - Links for current - limiting fuses

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
1	IS 10624:2024 IEC 60644:2009+AMD1:2019 (CSV)	High-Voltage Fuse-Links for Motor Circuit Applications Specification First Revision
2	IS/IEC 60127-6:2023 IEC 60127-6:2023	Miniature Fuses Part 6 Fuse-Holders for Miniature Fuse-Links First Revision
3	IS 13703 (Part 4):1993 IEC Pub 269-4 : 1980 Reviewed In : 2019 iec 269-4:1980	Specification for low - Voltage fuses for voltages not exceeding 1000 v ac or 1500 v dc Part 4 supplementary requirements for fuse links for the protection of semiconductor devices
4	IS 2086:1993 Reviewed In : 2024	Carriers and bases in rewirable type electric fuses for voltages up to 650 v - Specification Third Revision
5	IS/IEC 60127-1:2023 IEC 60127-1:2023	Miniature Fuses Part 1 Definitions for Miniature Fuses and General Requirements for Miniature Fuse-Links Second Revision
6	IS/IEC 60127-2:2014 IEC 60127-2:2014 and Amd 1:2020	Miniature fuses Part 2 Cartridge fuse-links Second Revision
7	IS 60127 (Part 3):2015 IEC 60127-3:2015 and Amd 1:2020	Miniature Fuses Part 3 Sub-Miniature Fuse-Links
8	IS/IEC 60127-4:2005 Reviewed In : 2024 IEC 60127-4 : 2005	Miniature fuses Part 4 universal modular fuse - Links Umf - Through - Hole and surface mount types
9	IS/IEC 60127-7:2015 IEC 60127-7:2015	Miniature Fuses Part 7 Miniature fuse-Links for Special Applications
10	IS/IEC 60127-8:2018 IEC 60127-8:2018	Miniature Fuses Part 8 Fuse Resistors with Particular Overcurrent Protection
11	IS/IEC 60127-10:2001 IEC 60127-10:2001	Miniature Fuses Part 10 User Guide for Miniature Fuses
12	IS/IEC 60269-1:2014	Low-Voltage Fuses Part 1 General Requirements

	IEC 60269-1 : 2014 Reviewed In : 2024 IEC 60269-1 : 2014	
13	IS/IEC 60269-2:2016 IEC 60269-2 : 2016 Reviewed In : 2024 IEC 60269-2 : 2013	Low-Voltage Fuses 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
14	IS/IEC 60269-3:2010 IEC 60269-3 : 2013 IEC 60269-3 : 2013	Low-Voltage Fuses Part 3 Supplementary Requirements for Fuses for Use by Unskilled Persons Fuses Mainly for Household and Similar Applications Examples of Standardized Systems of Fuses A to F
15	IS/IEC 60269-4:2009 IEC 60269-4 : 2009 + Amd 1 : 2012 + Amd 2 : 2016	Low-Voltage Fuses Part 4 Fuse-Links for the Protection of Semiconductor Devices - Supplementary Requirements
16	IS/IEC 60269-6:2010 IEC 60269-6 : 2010 Reviewed In : 2024 IEC 60269-6 : 2010	Low-Voltage Fuses Part 6 Supplementary Requirements for Fuse-Links for the Protection of Solar Photovoltaic Energy Systems
17	IS/IEC 60269-7:2021 IEC 60269-7:2021	Low Voltage Fuses Part 7 Fuse-Links for the Protection of Batteries and Battery Systems - Supplementary Requirements
18	IS/IEC :2023 IEC 60691:2023	Thermal-Links - Requirements and Application Guide Second Revision
19	IS 9385 (Part 1):2024 IS/IEC 60282 (Part 1)	High-Voltage Fuses Part 1 Current-Limiting Fuses Second Revision
20	IS 9385 (Part 4):1983 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 282	Specification for high voltage fuses Part 4 determination of short - Circuit power factor for testing high voltage fuses
21	IS 9402:2024 IEC 60549:2013	High-Voltage Fuses for the External Protection of Shunt Capacitors First Revision
22	IS 9926:1981 Reviewed In : 2021	Specification for fuse - Wire used in rewirable type electric fuses up to 650 volts