BS EN IEC 61643-11:2025+A11:2025



BSI Standards Publication

Low-voltage surge protective devices

Part 11: Surge protective devices connected to AC low-voltage power systems — Requirements and test methods

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National foreword

This British Standard is the UK implementation of EN IEC 61643-11:2025+A11:2025. It supersedes BS EN 61643-11:2012+A11:2018, which will be withdrawn on 30 November 2028.

The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by ⟦A11⟩ ⟨A11⟩.

The UK participation in its preparation was entrusted to Technical Committee PEL/37, Surge Arresters - High Voltage.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Low-voltage surge protective devices - Part 11: Surge protective devices connected to AC low-voltage power systems - Requirements and test methods (IEC 61643-11:2025)

Parafoudres basse tension - Partie 11: Parafoudres connectés aux réseaux basse tension en courant alternatif - Exigences et méthodes d'essai (IEC 61643-11:2025)

Überspannungsschutzgeräte für Niederspannung - Teil 11: Überspannungsschutzgeräte für den Einsatz in Niederspannungs-Wechselstromnetzen - Anforderungen und Prüfverfahren (IEC 61643-11:2025)

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European foreword

The text of document 37A/427/FDIS, future edition 2 of IEC 61643-11, prepared by SC 37A "Low-voltage surge protective devices" of IEC/TC 37 "Surge arresters" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61643-11:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2026-11-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2028-11-30

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This document is read in conjunction with EN IEC 61643-11:2025/A11:2025.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 61643-11:2025 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60038:2009 NOTE Approved as EN 60038:2011

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European foreword to Amendment A11

This document (EN IEC 61643-11:2025/A11:2025) has been prepared by Technical Committee CLC/TC 37A "Low voltage surge protective devices".

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- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2026-10-31
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2028-10-31

Clauses, subclauses, notes, tables, figures and annexes which are additional to those in CDV IEC 61643-11 ED2 are prefixed "Z".

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This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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A11 Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

The normative references given in Part 01 apply with the following additions:

Publication	Year	Title	EN/HD	Year
IEC 60364-4-44	2007	Low-voltage electrical installations – Part 4-44: Protection for safety – Protection against voltage disturbances and electromagnetic disturbances	HD 60364-4-444	2010
			+ Corrigendum	Jul. 2010
			+ AC	2012
			HD 60364-4-442	2012
+ AMD1	2015		HD 60364-4-443	2016
+ AMD 2	2018		-	-
IEC 60947-1	2020	Low-voltage switchgear and controlgear - Part 1: General rules	EN IEC 60947-1	2021
			+ AC	2023-01
			+ AC	2024-05
IEC 61643-01	2024	Low-voltage surge protective devices – Part 01: General requirements and test methods	EN IEC 61643-01	2025
			+A11	2025 A11

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A11 Annex ZZ
(informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clause 4 Clause 6 Clause 7 8.2* 9.2* Annex EE	* From IEC 61643-01
(1)(b)	Clause 6 8.2* 8.4* 9.2* 9.4* Annex EE	* From IEC 61643-01
(1)(c)	Clause 7 9.1.1 Annex A* Annex EE	* From IEC 61643-01
(2)(a)	4.6* 8.3.1* 8.3.3* 9.3.1* 9.3.3 Table 3 - Pass criteria C, E, I, H, J, K* Annex A* Annex EE	* From IEC 61643-01

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Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(2)(b)	8.3.5* 8.3.6.1.1* 8.3.6.2* 8.3.6.3* 8.3.6.4* 8.3.9 8.6.1.1* 8.6.1.2* 8.6.1.3* 8.6.6* 9.3.5 9.3.6 9.3.6.2 9.3.6.3 9.3.6.4 9.3.9 9.6.1.1* 9.6.1.2* 9.6.1.3* Table 3 pass criteria Q* Annex A* Annex E* Annex EE	* From IEC 61643-01
(2)(c)	8.5.6.1* 8.5.6.2*	* From IEC 61643-01
(2)(d)	8.3.7* 8.3.8* 8.4.4* 8.6.2* 9.3.7* 9.3.8* 9.4.4* Annex D.2.2* Annex EE	* From IEC 61643-01
(3)(a)	8.4.5* 9.4.5* Annex EE	* From IEC 61643-01

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Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(3) (b)	8.5.2* 8.5.3* 8.6.2* 9.3.6.1* 9.5.2* 9.5.2* Annex D.1.1* Annex D.1.2* Annex D.1.3* Annex D.2.1*	* From IEC 61643-01
(3) (c)	8.3.6.1.1* 8.3.6.3* 8.3.6.4* 8.3.9 8.6.1.2* 8.6.1.3* 8.6.6* 9.3.6 9.3.6.3 9.3.6.4 9.3.9 9.6.1.2* 9.6.1.3* Table 3 pass criteria Q* Annex E* Annex EE	* From IEC 61643-01

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard. 〈A11▌

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