



**SLOVENSKI STANDARD**  
**oSIST prEN IEC 61643-11:2024**  
**01-januar-2024**

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**Nizkonapetostne naprave za zaščito pred prenapetostnimi udari - 11. del: Naprave za zaščito pred prenapetostnimi udari za nizkonapetostne AC napajalne sisteme - Zahteve in preskusne metode (fragment 2)**

Fragment 2: 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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Partie 11: Parafoudres connectés aux systèmes basse tension - Exigences et méthodes d'essai

**Ta slovenski standard je istoveten z: prEN IEC 61643-11:2023 {frag 2}**

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**ICS:**

29.120.50	Varovalke in druga nadtokovna zaščita	Fuses and other overcurrent protection devices
29.240.10	Transformatorske postaje. Prenapetostni odvodniki	Substations. Surge arresters

**oSIST prEN IEC 61643-11:2024**                      **en**





# 37A/404/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

**IEC 61643-11/FRAG2 ED2**

DATE OF CIRCULATION:

**2023-11-03**

CLOSING DATE FOR VOTING:

**2024-01-26**

SUPERSEDES DOCUMENTS:

**37A/368/CD, 37A/393/CC**

IEC SC 37A : LOW-VOLTAGE SURGE PROTECTIVE DEVICES	
SECRETARIAT: United States of America	SECRETARY: Mr Casey Granata
OF INTEREST TO THE FOLLOWING COMMITTEES: SC 37B, TC 64, TC 81, TC 82, TC 109	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING <b>Attention IEC-CENELEC parallel voting</b> The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

**Fragment 2: Low-voltage surge protective devices - Part 11: Surge protective devices connected to AC low-voltage power systems - Requirements and test methods**

PROPOSED STABILITY DATE: 2026

NOTE FROM TC/SC OFFICERS:

This document must be read in conjunction with 37A/401/CDV for IEC 61643-01 and with 37A/403/CDV for IEC 61643-11 fragment 1. This document contains an option for an additional Annex from CLC for Additional requirements for portable SPDs classified as pluggable equipment type A.

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LOW-VOLTAGE SURGE PROTECTIVE DEVICES –

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

## FOREWORD

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International Standard IEC 61643-11 has been prepared by subcommittee 37A: Low-voltage surge protective devices, of IEC technical committee 37: Surge arresters.

This second edition cancels and replaces the first edition published in 2011-03-09, whereby the common requirements for all SPDs are now contained in IEC 61643-01, and this second edition only contains the specific requirements for SPDs for AC applications. This edition constitutes a technical revision.

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

- a) Clarification on test application either to a complete SPD, to a "mode of protection", or to a complete "SPD assembly"

- 76 b) Additional measurement of voltage protection level on “combined modes of protection”  
77 between live conductors and PE
- 78 c) Additional duty test for T1 SPD and T2 SPD with follow current to check for increased  
79 follow current at lower impulse current amplitude
- 80 d) Modified and amended short circuit current test requirements to better cover up to date  
81 internal SPD disconnecter technologies
- 82 e) Improved dielectric test requirements for the SPD’s main circuits and added dielectric test  
83 requirements for “electrically separated circuits”
- 84 f) Additional clearance requirements for “electrically separated circuits”
- 85 g) Additional requirements for pluggable equipment type A

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

FDIS	Report on voting
XX/XX/FDIS	XX/XX/RVD

87

88 Full information on the voting for the approval of this International Standard can be found in  
89 the report on voting indicated in the above table.

90 This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

91 The committee has decided that the contents of this document will remain unchanged until the  
92 stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to  
93 the specific document. At this date, the document will be

- 94 • reconfirmed,
- 95 • withdrawn,
- 96 • replaced by a revised edition, or
- 97 • amended.

98 The attention of National Committees is drawn to the fact that equipment manufacturers and testing organizations  
99 may need a transitional period following publication of a new, amended or revised IEC publication in which to make  
100 products in accordance with the new requirements and to equip themselves for conducting new or revised tests.

101 It is the recommendation of the committee that the content of this publication be adopted for national  
102 implementation not earlier than 12 months and not later than 36 months from the date of publication.

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