



**SLOVENSKI STANDARD**  
**SIST EN 61643-351:2017**

**01-april-2017**

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**Sestavni deli za nizkonapetostne naprave za zaščito pred prenapetostnimi udari - 351. del: Zahtevane lastnosti in metode preskušanja za izolacijske transformatorje (SIT) v telekomunikacijskih in signalnih omrežjih**

Components for lowvoltage surge protective devices - Part 351: Performance requirements and test methods for telecommunications and signalling network surge isolation transformers (SIT)

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Composants pour parafoudres basse tension - Partie 351: Exigences de performance et méthodes d'essai pour les transformateurs d'isolement contre les surtensions dans les réseaux de signalisation et de télécommunications

**Ta slovenski standard je istoveten z: EN 61643-351:2017**

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**ICS:**

29.240.10	Transformatorske postaje. Prenapetostni odvodniki	Substations. Surge arresters
33.040.99	Druga oprema za telekomunikacijske sisteme	Other equipment for telecommunication systems

**SIST EN 61643-351:2017** en

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EUROPEAN STANDARD

EN 61643-351

NORME EUROPÉENNE

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February 2017

ICS 33.040.99

English Version

Components for low-voltage surge protective devices -  
Part 351: Performance requirements and test methods for  
telecommunications and signalling network surge isolation  
transformers (SIT)  
(IEC 61643-351:2016)

Composants pour parafoudres basse tension -  
Partie 351: Exigences de performance et méthodes d'essai  
pour les transformateurs d'isolement contre les surtensions  
dans les réseaux de signalisation et de télécommunications  
(IEC 61643-351:2016)

Baelemente für Überspannungsschutzgeräte für  
Niederspannung - Teil 351: Leistungsanforderungen sowie  
Prüfschaltungen und -verfahren für  
Blitzisoliertransformatoren in Telekommunikations- und  
signalverarbeitenden Netzen  
(IEC 61643-351:2016)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

**EN 61643-351:2017****European foreword**

The text of document 37B/155/FDIS, future edition 1 of IEC 61643-351, prepared by SC 37B "Specific components for surge arresters and surge protective devices" of IEC/TC 37 "Surge arresters" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61643-351:2017.

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) 2017-09-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2019-12-02

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60060-1:2010	NOTE	Harmonized as EN 60060-1:2010 (not modified).
IEC 60068-2-1:2007	NOTE	Harmonized as EN 60068-2-1:2007 (not modified).
IEC 60068-2-2:2007	NOTE	Harmonized as EN 60068-2-2:2007 (not modified).
IEC 60076-1	NOTE	Harmonized as EN 60076-1.
IEC 60721-3-9:1993	NOTE	Harmonized as EN 60721-3-9:1993 (not modified).
IEC 61340-4-8	NOTE	Harmonized as EN 61340-4-8.
IEC 61558-1	NOTE	Harmonized as EN 61558-1.
IEC 61558-2-4	NOTE	Harmonized as EN 61558-2-4.
IEC 61558-2-6	NOTE	Harmonized as EN 61558-2-6.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60721-3-3	-	Classification of environmental conditions - EN 60721-3-3 - Part 3: Classification of groups of environmental parameters and their severities - Section 3: Stationary use at weatherprotected locations	-	-
IEC/TR 60664-2-1	2011	Insulation coordination for equipment within low-voltage systems - Part 2-1: Application guide - Explanation of the application of the IEC 60664 series, dimensioning examples and dielectric testing	-	-

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Edition 1.0 2016-10

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Components for low-voltage surge protective devices –  
Part 351: Performance requirements and test methods for telecommunications  
and signalling network surge isolation transformers (SIT)**

**Composants pour parafoudres basse tension –  
Partie 351: Exigences de performance et méthodes d'essai pour les  
transformateurs d'isolement contre les surtensions dans les réseaux de  
signalisation et de télécommunications**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## COMPONENTS FOR LOW-VOLTAGE SURGE PROTECTIVE DEVICES –

**Part 351: Performance requirements and test methods  
for telecommunications and signalling network surge  
isolation transformers (SIT)**

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International Standard IEC 61643-351 has been prepared by subcommittee 37B: Specific components for surge arresters and surge protective devices, of IEC technical committee 37: Surge arresters.

The text of this standard is based on the following documents:

FDIS	Report on voting
37B/155/FDIS	37B/156/RVD

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

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

A list of all parts in the IEC 61643 series, published under the general title *Components for low-voltage surge protective devices*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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

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- withdrawn,
- replaced by a revised edition, or
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## INTRODUCTION

This part of IEC 61643 covers surge isolation transformers whose rated impulse withstand voltage coordinates with the expected surge environment of the installation. This type of surge protective component, SPC, isolates and attenuates transient voltages in conjunction with current diverting components (e.g. GDT, MOV, etc.) or surge protective devices (SPDs). It can be used in SPDs.

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