



**SLOVENSKI STANDARD**  
**SIST HD 384.4.45 S1:2000**  
**01-februar-2000**

9`Y\_f] bY]býHJUMY`n[ fUXV`È( "XY. `NUý ]Hb]i \_fYd]È( ) "dc[ `Uj `Y.  
 DcXbUdYfcgfbUnUý ]HJfH97 `\* \$' \*( !( ( ) .% , ( Ł

Electrical installations of buildings -- Part 4: Protection for safety -- Chapter 45:  
 Protection against undervoltage (IEC 60364-4-45:1984)

Elektrische Anlagen von Gebäuden -- Teil 4: Schutzmaßnahmen -- Kapitel 45: Schutz  
 gegen Unterspannung

Installations électriques des bâtiments -- Partie 4: Protection pour assurer la sécurité --  
 Chapitre 45: Protection contre les baisses de tension

<https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384-4-45-s1-2000>

**Ta slovenski standard je istoveten z: HD 384.4.45 S1:1989**

**ICS:**

- |           |  |   |
|-----------|--|---|
| 29.120.50 | Xæ[ çæ\ ^Á/ Ái` * æ<br>{ ^áq \ [ ç} æÁ æz ææ | Fuses and other overcurrent<br>protection devices |
| 91.140.50 | Sistemi za oskrbo z elektriko                | Electricity supply systems                        |

**SIST HD 384.4.45 S1:2000 en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 384.4.45 S1:2000

<https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384-4-45-s1-2000>

**CENELEC**Rue Bréderode 2, Bte 5 - 1000, BRUXELLES  
Tél.: (+32 2) 519 68 71 - Télex: 26257 Cenelec b  
Fax: (+32 2) 519 68 19 - Télex: 208 2210097 CENCEL

HD 384.4.45 S1

ENGLISH VERSION

UDC: 621.316.172:614.825

KEY WORDS: Voltage; danger; protective device

ELECTRICAL INSTALLATIONS OF BUILDINGS  
PART 4: PROTECTION FOR SAFETY  
CHAPTER 45: PROTECTION AGAINST UNDERVOLTAGEInstallations électriques des  
bâtiments  
Quatrième partie: Protection  
pour assurer la sécurité.  
Chapitre 45: Protection contre  
les baisses de tensionElektrische Anlagen von  
Gebäuden  
Teil 4: Schutzmaßnahmen  
Kapitel 45: Schutz gegen  
Unterspannung

## BODY OF THE HD

The Harmonization Document consists of:

- IEC 364-4-45 (1984) ed 1; IEC/TC 64, not appended

**ITeH STANDARD PREVIEW**  
(standards.iteh.ai)

---

This Harmonization Document was approved by CENELEC on 1988-03-01.

The English and French versions of this Harmonization Document are provided by the text of the IEC publication and the German version is the official translation of the IEC text.

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound:

to announce the existence of this Harmonization Document at national level by or before 1989-06-01

to publish their new harmonized national standard by or before 1989-12-31

to withdraw all conflicting national standards by or before 1989-12-31.

Harmonized national standards are listed on the HD information sheet, which is available from the CENELEC National Committees or from the CENELEC Central Secretariat.

The CENELEC National Committees are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxemburg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

© Copyright reserved to all CENELEC members

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 384.4.45 S1:2000

<https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384-4-45-s1-2000>

COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE  
NORME DE LA CEI

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
IEC STANDARD

**Publication 364-4-45**

Première édition — First edition

1984

---

**Installations électriques des bâtiments**

Quatrième partie: Protection pour assurer la sécurité

Chapitre 45: Protection contre les baisses de tension

ITEH STANDARD PREVIEW  
(standards.iteh.ai)

---

**Electrical installations of buildings**

SIST HD 384.4.45 S1:2000

<https://standards.iteh.ai/en/standards/iec/364-4-45/iec-364-4-45-2713-4a6e-9b0d-b97e87e75908/sist-hd-384-4-45-s1-2000>

**Part 4: Protection for safety**

**Chapter 45: Protection against undervoltage**

---



© CEI 1984

Droits de reproduction réservés — Copyright — all rights reserved

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'éditeur.

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 the publisher.

Bureau Central de la Commission Electrotechnique Internationale

3, rue de Varembe  
Genève, Suisse

Prix  
Price Fr. s. **10.—**

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## ELECTRICAL INSTALLATIONS OF BUILDINGS

## Part 4: Protection for safety

## Chapter 45: Protection against undervoltage

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

(standards.iteh.ai)

## PREFACE

SIST HD 384.4.45 S1:2000

<https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-0700775598/sist/384-4-45-2000>

This standard has been prepared by IEC Technical Committee No. 64: Electrical Installations of Buildings.

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

Six Months' Rule	Report on Voting
64(CO)136	64(CO)145

Further information can be found in the Report on Voting indicated in the table above.

## ELECTRICAL INSTALLATIONS OF BUILDINGS

### Part 4: Protection for safety

#### Chapter 45: Protection against undervoltage

#### 45. PROTECTION AGAINST UNDERVOLTAGE

##### 451. General requirements

451.1 Where a drop in voltage, or a loss and subsequent restoration of voltage could imply dangerous situations for persons or property, suitable precautions shall be taken. Also, precautions shall be taken where a part of the installation or current-using equipment may be damaged by a drop in voltage.

An undervoltage protective device is not required if damage to the installation or to current-using equipment is considered to be an acceptable risk, provided that no danger is caused to persons.

451.2 The operation of undervoltage protective devices may be delayed if the operation of the appliance protected allows without danger a brief interruption or loss of voltage.

[SIST HD 384.4.45 S1:2000](https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384.4-45-s1-2000)

[https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-](https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384.4-45-s1-2000)

[b97e87e75908/sist-hd-384.4-45-s1-2000](https://standards.iteh.ai/catalog/standards/sist/e9cf428b-2713-4a6e-9b0d-b97e87e75908/sist-hd-384.4-45-s1-2000)

451.3 If use is made of contactors, delay in their opening and reclosing shall not impede instantaneous disconnection by control or protective devices.

451.4 The characteristics of the undervoltage protective device shall be compatible with the requirements of the IEC standards for starting and use of equipment.

451.5 Where the reclosure of a protective device is likely to create a dangerous situation, the reclosure shall not be automatic.