

SLOVENSKI STANDARD SIST EN 61557-6:2008 01-februar-2008

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Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 6: Effectiveness of residual current devices (RCD) in TT, TN and IT systems

Elektrische Sicherheit in Niederspannungsnetzen bis AC 1 000 V und DC 1 500 V - Geräte zum Prüfen, Messen oder Überwachen von Schutzmaßnahmen - Teil 6: Wirksamkeit von Fehlerstrom-Schutzeinrichtungen (RCD) in TT-5cdTN-1 und IT-Systemen 751f7372be45/sist-en-61557-6-2008

Sécurité électrique dans les réseaux de distribution basse tension de 1 000 V c.a. et 1 500 V c.c. - Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection - Partie 6: Efficacité des dispositifs à courant résiduel (DCR) dans les réseaux TT, TN et IT

Ta slovenski standard je istoveten z: EN 61557-6:2007

ICS:

| 17.220.20 | T^¦b^}b^Án ^\dã}ã@Á\$ {æ*}^c}ã@Áş^ ãā} | Measurement of electrical and magnetic quantities |
|-----------|--|---|
| 29.080.01 | Ò ^\dã}æÁá[æ&ábæÁ;æ ●] [z}[| Electrical insulation in general |
| 29.240.01 | U{ ¦^0bæÁæÁş¦^}[•Á5ş åãrdâña xãa[Á∧ ^\dã}^Án}^!*ab^ }æÁn] [z}[| Power transmission and distribution networks in general |

SIST EN 61557-6:2008

en.fr.de

2003-01. Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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SIST EN 61557-6:2008

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EUROPEAN STANDARD

EN 61557-6

NORME EUROPÉENNE **EUROPÄISCHE NORM**

November 2007

ICS 17.220.20; 29.080.01; 29.240.01

Supersedes EN 61557-6:1998

English version

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. -

Equipment for testing, measuring or monitoring of protective measures -Part 6: Effectiveness of residual current devices (RCD) in TT, TN and IT systems

(IEC 61557-6:2007)

Sécurité électrique dans les réseaux de distribution basse tension de 1 000 V c.a. et 1 500 V c.c. -Dispositifs de contrôle, de mesure

ou de surveillance de mesures de protection -Partie 6: Efficacité des dispositifs NDARD PSchutzeinrichtungen (RCD)

(CEI 61557-6:2007)

Elektrische Sicherheit in Niederspannungsnetzen bis AC 1 000 V und DC 1 500 V -Geräte zum Prüfen. Messen oder Überwachen von Schutzmaßnahmen -Teil 6: Wirksamkeit von Fehlerstrom-

à courant résiduel (DCR) dans les réseaux TT, TN et les tandards.itel (LEC 61557-6:2007)

SIST EN 61557-6:2008

https://standards.iteh.ai/catalog/standards/sist/f10671d2-911c-4bcd-82c1-

This European Standard was approved by CENELEC on 2007-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 85/279A/CDV, future edition 2 of IEC 61557-6, prepared by IEC TC 85, Measuring equipment for electrical and electromagnetic quantities, was submitted to the IEC-CENELEC parallel Unique Acceptance Procedure and was approved by CENELEC as EN 61557-6 on 2007-10-01.

This European Standard supersedes EN 61557-6:1998.

The following changes were made with respect to EN 61557-6:1998:

- title and scope complemented;
- definitions complemented;
- revision of requirements;
- "tripping tests" and "non-tripping tests" subclauses complemented;
- "operating instructions" subclause complemented;
- addition of Annex A.

This standard is to be used in conjunction with EN 61557-1.

The following dates were fixed:

- latest date by which the EN has to be implemented PREVIEW at national level by publication of an identical national standard or by endorsement ndards.iteh.ai) (dop)
- latest date by which the national standards conflicting with the EN have to be withdrawn https://standards.iteh.ai/catalog/standards/sist/f10671d2-911e-4bcd-82c1-

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61557-6:2007 was approved by CENELEC as a European Standard without any modification.

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

IEC 60359 NOTE Harmonized as EN 60359:2002 (not modified).

IEC 61008-1 NOTE Harmonized as EN 61008-1:2004 (modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | EN/HD | <u>Year</u> |
|--------------------|-------------------|--|---------------------------------------|--------------------|
| IEC/TR 60755 | _1) | General requirements for residual current operated protective devices | - | - |
| IEC 60947-2 | _1) | Low-voltage switchgear and controlgear - Part 2: Circuit-breakers | EN 60947-2 | 2006 ²⁾ |
| IEC 61008 (mod) | Series | Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) | EN 61008 | Series |
| IEC 61009 (mod) | Series | Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) | EN 61009 | Series |
| IEC 61010-1 | 2001 https://star | Safety requirements for electrical equipment for measurement, control, and laboratory use - 01557-6:2008 Part 1: General requirements 1: General requirements 751f7372be45/sist-en-61557-6-2008 | EN 61010-1 + corr. June 1-82c1- | 2001 2002 |
| IEC 61557-1 | 2007 | Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements | EN 61557-1 | 2007 |

²⁾ Valid edition at date of issue.

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¹⁾ Undated reference.

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INTERNATIONAL STANDARD NORME INTERNATIONALE

IEC CEI 61557-6

> Second edition Deuxième édition 2007-07

Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. – Equipment for testing, measuring or monitoring of protective measures –

Part 6:TANDARD PREVIEW
Effectiveness of residual current devices (RCD)
in TT, TN and IT systems!

SIST EN 61557-6:2008

https://standards.iteh.ai/catalog/standards/sist/f] 0671d2-911c-4bcd-82c1-Securité rélectrique dans les réseaux de distribution basse tension de 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection –

Partie 6:

Efficacité des dispositifs à courant résiduel (DCR) dans les réseaux TT, TN et IT



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1000 V a.c. AND 1500 V d.c. – EQUIPMENT FOR TESTING, MEASURING OR MONITORING OF PROTECTIVE MEASURES –

Part 6: Effectiveness of residual current devices (RCD) in TT, TN and IT systems

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61557-6 has been prepared by IEC technical committee 85: Measuring equipment for electrical and electromagnetic quantities.

This second edition cancels and replaces the first edition published in 1997. This edition constitutes a technical revision.

The following changes were made with respect to the previous edition (1997):

- a) title and scope complemented;
- b) definitions complemented;
- c) revision of requirements;
- d) "tripping tests" and "non-tripping tests" subclauses complemented;