

9`Y_f] bUj Ufbcghj `b]n_cbUdYrcgh] `fUnXY]b] `g]ghYa] `nU]na Yb] bY`bUdYrcgh] Xc`%_J `]b`Ybcga YfbY`bUdYrcgh]`Xc`%`_J`E`CdfYa UnUdfYg_i yUb`Yza Yf`Yb`YU] bUXncfcj Ub`Y`nUy]]b] `i_fYdcj `E`*`"XY. BUdfUj Y`bUdfYcghU]`ffYg]Xi Ub]`L`c_`j g]ghYa] `HHZBH]`b`+`f`l97 `*`%`) +!`*`.%` - +z`gdfYa Yb`YbL

Electrical safety in low voltage distribution systems up to 1 kV a.c. and 1,5 kV d.c. - Equipment for testing, measuring or monitoring of protective measures -- Part 6: Residual current devices (RCD) in TT, TN and IT systems

iTeh STANDARD PREVIEW

Elektrische Sicherheit in Niederspannungsnetzen bis AC 1 kV und DC 1,5 kV - Geräte zum Prüfen, Messen oder Überwachen von Schutzmaßnahmen -- Teil 6: Fehlerstrom-Schutzeinrichtungen (RCD) in TT-, TN- und IT-Netzen

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Sécurité électrique dans les réseaux de distribution basse tension de 1 kV c.a. et 1,5 kV c.c. - Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection -- Partie 6: Dispositifs différentiels résiduels (DDR) dans les réseaux TT, TN et IT

Ta slovenski standard je istoveten z: EN 61557-6:1998

ICS:

17.220.20	T `^ b} b`A` ^`dã} ã`ã` { æ} ^q`ã`ã` ^`ã`ã`	Measurement of electrical and magnetic quantities
29.080.01	Ò` ^`dã} æ`ã` [æ`ã`ã` æ` •] z] [Electrical insulation in general
29.240.01	U{ ^`0`æ`ã` æ` ^` [•`ã` ã`ã`ã`ã` &ã` A` ^`dã} ^`A` } ^` ^`ã` } æ`ã` z] [Power transmission and distribution networks in general

SIST EN 61557-6:1999

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61557-6

June 1998

ICS 17.220.20; 29.080.01; 29.240.01

Descriptors: Low voltage distribution systems, electrical safety, equipment for testing, measuring or monitoring of protective measures, residual current devices (RCD), TT, TN and IT systems

English version

Electrical safety in low voltage distribution systems up to 1 kV a.c. and 1,5 kV d.c. - Equipment for testing, measuring or monitoring of protective measures

**Part 6: Residual current devices (RCD) in TT, TN and IT systems
(IEC 61557-6:1997, modified)**

Sécurité électrique dans les réseaux de distribution basse tension de 1 kV c.a. et 1,5 kV c.c. - Dispositifs de contrôle, de mesure ou de surveillance de mesures de protection

Partie 6: Dispositifs différentiels résiduels (DDR) dans les réseaux TT, TN et IT
(CEI 61557-6:1997, modifiée)

Elektrische Sicherheit in Niederspannungsnetzen bis AC 1 kV und DC 1,5 kV - Geräte zum Prüfen, Messen oder Überwachen von Schutzmaßnahmen

Teil 6: Fehlerstrom-Schutzeinrichtungen (RCD) in TT-, TN- und IT-Netzen
(IEC 61557-6:1997, modifiziert)

This European Standard was approved by CENELEC on 1998-04-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and 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

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Ref. No. EN 61557-6:1998 E

Foreword

The text of document 85/94/FDIS, future edition 1 of IEC 61557-6, prepared by IEC TC 85, Measuring equipment for electromagnetic quantities, was submitted to the IEC-CENELEC parallel vote.

A draft amendment prepared by the CENELEC Reporting Secretariat SR 85, was submitted to the formal vote.

The combined text was approved by CENELEC as EN 61557-6 on 1998-04-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1999-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2001-01-01

This part 6 of EN 61557 is to be used in conjunction with 61557-1:1997.

Annexes designated "normative" are part of the body of the standard.

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

(standards.iteh.ai)
Endorsement notice

The text of the International Standard IEC 61557-6:1997 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

Replace the title by the following :

"Electrical safety in low voltage distribution systems up to 1 kV a.c. and 1,5 kV d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 6: Residual current devices (RCD) in TT, TN and IT systems".

Replace the scope by the following :

"This part of IEC 61557 specifies the requirements for measuring equipment applied to the testing of the effectiveness of protective measures by regular disconnections of residual current protective devices (RCD) in TT, TN and IT systems."

Add a new clause 5.2.8 :

"Equipment following the RCD, e.g. capacitors or rotating machinery, may cause a significant lengthening of the measured trip time." .

Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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>	<u>EN/HD</u>	<u>Year</u>
IEC 61010-1 (mod)	1990	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements	EN 61010-1 ¹⁾	1993
IEC 61557-1	1997	Electrical safety in low voltage distribution systems up to 1 kV a.c. and 1,5 kV d.c. Equipment for testing, measuring or monitoring of protective measures Part 1: General requirements	EN 61557-1	1997

[SIST EN 61557-6:1999](https://standards.iteh.ai/catalog/standards/sist/38e28d0e-5f0f-4011-99db-559ac5dfc10b/sist-en-61557-6-1999)

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1) EN 61010-1 includes A1:1992 to IEC 61010-1.

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC

61557-6

Première édition
First edition
1997-02

**Sécurité électrique dans les réseaux
de distribution basse tension de 1000 V c.a.
et 1500 V c.c. –
Dispositifs de contrôle, de mesure ou
de surveillance de mesures de protection –**

Partie 6:

**Dispositifs différentiels résiduels (DDR)
dans les réseaux TT et TN**

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SIST EN 61557-6:1999
Electrical safety in low voltage distribution
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in TT and TN systems**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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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: Residual current devices (RCD)
in TT and TN systems**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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 electromagnetic quantities.

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

FDIS	Report on voting
85/94/FDIS	85/128/RVD

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

This part of IEC 1557 shall be used in conjunction with part 1.