



NSAI
Standards

Irish Standard
I.S. HD 639 S1:2002

Electrical accessories - Portable residual current devices without integral overcurrent protection for household and similar use (PRCDs) (IEC 61540:1997 (MOD) + A1:1998 (MOD))

I.S. HD 639 S1:2002

Incorporating amendments/corrigenda issued since publication:

HD 639 S1:2002/A1:2003
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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i>	<i>This document is based on:</i> HD 639 S1:2002	<i>Published:</i> 20 March, 2002
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NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
Údarás um Chaighdeáin Náisiúnta na hÉireann		

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English version

**Electrical accessories -
Portable residual current devices without integral overcurrent protection
for household and similar use (PRCDs)**

Petit appareillage -
Dispositifs différentiels mobiles
sans dispositif de protection
contre les surintensités incorporé
pour usages domestiques et analogues
(PCDM)

Elektrisches Installationsmaterial -
Ortsveränderliche Fehlerstrom-
Schutzeinrichtungen ohne eingebauten
Überstromschutz für Hausinstallationen
und für ähnliche Anwendungen (PRCDs)

This amendment A2 modifies the Harmonization Document HD 639 S1:2002; it was approved by CENELEC on 2010-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this amendment at national level.

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

This amendment exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

This amendment to the Harmonization Document HD 639 S1:2002 was prepared by the Technical Committee CENELEC TC 23E, Circuit breakers and similar devices for household and similar applications. It was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A2 to HD 639 S1:2002 on 2010-09-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of a harmonized
national standard or by endorsement (dop) 2011-09-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2013-09-01

Text of A2 to HD 639 S1:2002

Annex D
(normative)List of tests, additional test sequences and numbers of samples for verification
of compliance of PRCDs with the requirements of electromagnetic
compatibility (EMC)

Replace Table D.2 and its Note by the following:

Table D.2

Test sequence	Reference condition of EN 61543	Phenomena	Number of samples	Minimum number of samples which shall pass the tests	Number of samples for repeated tests
D.2.1 ^a	T 1.1 T 1.2 T 2.3	Harmonics, inter-harmonics Signalling voltages Surges	3 samples of the same rating I_n chosen at random min. rating $I_{\Delta n}$	2	3
D.2.2	T 2.1 and T 2.2	Conducted sine-wave form voltages or currents Fast transients (bursts) Common mode	3 samples of the same rating I_n chosen at random min. rating $I_{\Delta n}$	2	3
D.2.3	T 2.5	Radiated electromagnetic field	3 samples of the same rating I_n chosen at random min. rating $I_{\Delta n}$	2	3
D.2.4	T 3.1	Electrostatic discharges	3 samples of the same rating I_n chosen at random min. rating $I_{\Delta n}$	2	3
D.2.5	T 2.6	Conducted common mode disturbances in the frequency range lower than 150 kHz	3 samples of the same rating I_n chosen at random min. rating $I_{\Delta n}$	2	3
NOTE On request of the manufacturer the same set of samples may be subjected to more than one test sequence.					
^a For devices containing a continuously operating oscillator, the test of EN 55014 shall be carried out on the samples prior to the tests of this sequence.					

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