

SLOVENSKI STANDARD

SIST EN 61543:1998/cdfA2:200)
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Residual current-operated protective devices (RCDs) for household and similar use -
Electromagnetic compatibility

iTeh STANDARD PREVIEW
Fehlerstromschutzeinrichtungen (RCDs) für Hausinstallationen und ähnliche
Verwendung - Elektromagnetische Verträglichkeit
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Dispositifs différentiels résiduels (DDR) pour usages domestiques et analogues -
Compatibilité électromagnétique
<https://standards.iteh.ai/standards/sist/3f302f49-110a-4e74-9fdc-ab185a352ca3/sist-en-61543-1998-a2-2006>

Ta slovenski standard je istoveten z: 9B*%('.% -)#lf5 & &\$\$(

ICS:

29.020	Elektrotehnika na splošno	Electrical engineering in general
29.120.50	Xæ[çæ\^A Á!~ * æ { ^åd{ \[ç} æAaz ãæ	Fuses and other overcurrent protection devices

SIST EN 61543:1998/cdfA2:200)

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23E/570/CDV

COMMITTEE DRAFT FOR VOTE (CDV)
PROJET DE COMITÉ POUR VOTE (CDV)

Project number Numéro de projet		IEC 61543 A2 Ed.1
IEC/TC or SC: 23E CEI/CE ou SC:	Date of circulation Date de diffusion 2004-10-15	Closing date for voting (Voting mandatory for P-members) Date de clôture du vote (Vote obligatoire pour les membres (P)) 2005-03-18
Titre du CE/SC: Disjoncteurs et appareillage similaire pour usage domestique		TC/SC Title: Circuit-breakers and similar equipment for household use
Secretary: G. Cassinelli Secrétaire:		
Also of interest to the following committees Intéresse également les comités suivants 77A	Supersedes document Remplace le document 23E/569/MCR	
Functions concerned Fonctions concernées	<input type="checkbox"/> Safety Sécurité <input checked="" type="checkbox"/> EMC CEM <input type="checkbox"/> Environment Environnement <input type="checkbox"/> Quality assurance Assurance qualité	

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Titre : Dispositifs différentiels résiduels (DDR) pour usages domestiques et analogues - Compatibilité électromagnétique Title : Residual current-operated protective devices (RCDs) for household and similar use - Electromagnetic compatibility

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Note d'introduction

Introductory note

ATTENTION	ATTENTION
CDV soumis en parallèle au vote (CEI) et à l'enquête (CENELEC)	Parallel IEC CDV/CENELEC Enquiry

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Proposal of additional tests in IEC 61543

3.2 High-frequency electromagnetic phenomena

Addition to table 2:

Reference	Phenomena	Environmental conditions
T2.6	Conducted common mode disturbances in the frequency range lower than 150KHz	Direct connection to the low voltage main network

5.3 High-frequency immunity tests

Addition to table 5:

Reference (see table 2)	Electromagnetic phenomena	Reference of basic standard for test description	Test level and test specification	Subclauses including the performance criteria
T 2.6	Conducted common mode disturbances in the frequency range lower than 150KHz	IEC 61000-4-16	-Level 2 ⁽ⁱ⁾ for $I_{\Delta n} < 30 \text{ mA}$ -Level 3 ⁽ⁱ⁾ for $I_{\Delta n} \geq 30 \text{ mA}$	5.1.1

ⁱ⁾ - Current levels are given below in table 5a
 - The test circuit is given in figure 1
 - In order to simplify the tests:
 - The test is made once with a residual current of $0,3 I_{\Delta n}$ by sweeping the frequency from 1 kHz to 150 kHz at the rate according to IEC 61000-4-16 § 6.1.3. The device shall not trip.
 - Tripping tests with residual current of $1,25 I_{\Delta n}$ are carried out on each sample at 5 different frequency values selected at random over the frequency range and different from one sample to another.

Addition of the following new table after table 5:

Table 5a – Current level according to the frequency and RCD sensitivity for the conditions of T 2.6

Frequency range	RMS Current value for Level 2		RMS current value for level 3 $I_{\Delta n} \geq 30 \text{ mA}$
	$I_{\Delta n} < 30 \text{ mA}$	$I_{\Delta n} \geq 30 \text{ mA}$	
1 kHz to 1,5 kHz	2 mA ^(a)	6,6 mA ^(a)	
1,5 kHz to 15 kHz	2 mA to 20 mA ^(b)	6,6 mA to 66 mA ^(b)	
15 kHz to 150 kHz	20 mA ^(a)	66 mA ^(a)	

^{a)} Constant current level in the complete range
^{b)} The current level increases from 1,5 kHz to 15 kHz at 20 dB/decade