SLOVENSKI STANDARD
SIST HD 22.2 S2:1998/A7:1998

01-februar-1998

Rubber insulated cables of rated voltages up to and including 450/750 V - Part 2: Test methods - Amendment A7

Rubber insulated cables of rated voltages up to and including 450/750 V -- Part 2: Test methods

Gummi-isolierte Leitungen mit Nennspannungen bis 450/750 V -- Teil 2: Prüfverfahren

Conducteurs et câbles isolés au caoutchouc, de tension assignée au plus égale à 450/750 V -- Partie 2: Méthodes d'essais

Ta slovenski standard je istoveten z: HD 22.2 S2:1992/A7:1992

ICS:

29.060.20 Kabli Cables

SIST HD 22.2 S2:1998/A7:1998 en

HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 22.2 S2/A7

November 1992

UDC 621.315.211.2.027.475.001.4

Descriptors: see HD 22.2 S2:1992

ENGLISH VERSION

Rubber insulated cables of rated voltages up to and including 450/750 V
Part 2: Test methods

Conducteurs et câbles isolés au caoutchouc, de tension assignée au plus égale à 450/750 V
Deuxième partie: Méthodes d'essais

Isolierte Starkstromleitungen mit einer Isolierung aus Gummi mit Nennspannungen bis 450/750 V
Teil 2: Prüfverfahren

This amendment modifies the Harmonization Document HD 22.2 S2:1992. It was approved by CENELEC on 1992-09-15. CENELEC members are bound to comply with the CEN/CENELEC Inernal Regulations which stipulate the conditions for implementation of this amendment on a national level.

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

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

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

Ref. No. HD 22.2 S2:1992/A7:1992 E

FOREWORD

Following a decision taken by CENELEC Technical Committee TC 20 some supplementary common modification to the International Standard IEC 245-2:1980 were submitted to the CENELEC Unique Acceptance Procedure (UAP) in November 1991 for acceptance as an amendment to HD 22.2 S2.

The text of the draft was approved by CENELEC as amendment A7 to HD 22.2 S2 on 15 September 1992.

The following dates were fixed:

- latest date of announcement of the amendment at national level (doa) 1993-03-01
- latest date of publication of a harmonized national standard (dop) 1993-09-01
- latest date of withdrawal of conflicting national standards (dow) 1993-09-01

For products which have complied with HD 22.2 S2:1992 and its amendments before 1993-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1994-09-01.

Add new sub-clause 2.4.1:

2.4.1 **Insulation resistance for cables with maximum conductor temperatures not exceeding 90°C**

This test applies only to cables in Part 9 of this HD. It shall be made on the core samples, 5m long, previously submitted to the test described in sub-clause 2.3 of this Part of HD 22 or, if this is not applicable, to the test described in sub-clause 2.2 of this Part of HD 22.

The sample shall be immersed in water previously heated to the specified temperature, a length about 0.25m at each end of the sample being kept above the water.

The length of the samples, the temperature of the water and the duration of immersion are given in Part 1, Table III.

A D.C. voltage of between 80V and 500V shall be then applied between the conductor and the water.

The insulation resistance shall be measured 1 min after application of the voltage and this value shall be related to 1km.

None of the resulting values shall be below the minimum insulation resistance value prescribed in the particular specification (Part 9).

The values of the insulation resistance specified in the particular specification (Part 9) are based on a volume resistivity of 1 x 10^8 ohm.m; they have been calculated from the formula:

$$R = 0.0367 \log_{10} \frac{D}{d}$$

where:

R = Insulation resistance, in megohm kilometre
D = Nominal outer diameter of the insulation
d = Diameter of the circumscribed circle of the conductor.

Change existing sub-clause 2.4 to:

2.4.2 **Insulation resistance for cables with maximum conductor temperatures exceeding 90°C**