SLOVENSKI STANDARD
SIST EN 62271-100:2002

01-september-2002

Nadomeġļa:
SIST HD 348 S7:2001

High-voltage switchgear and controlgear - Part 100: High-voltage alternating-current circuit-breakers

High-voltage switchgear and controlgear -- Part 100: High-voltage alternating-current circuit-breakers

Hochspannungs-Schaltgeräte und -Schaltanlagen -- Teil 100: Hochspannungs-Wechselstrom-Leistungsschalter

Appareillage à haute tension -- Partie 100: Disjoncteurs à courant alternatif à haute tension

Ta slovenski standard je istoveten z: **EN 62271-100:2001**

ICS:

29.130.10	Visokonapetostne stikalne in krmilne naprave	High voltage switchgear and controlgear

SIST EN 62271-100:2002 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62271-100

October 2001

ICS 29.130.10

Supersedes HD 348 S7:1998

English version

High-voltage switchgear and controlgear
Part 100: High-voltage alternating-current circuit-breakers
(IEC 62271-100:2001)

Appareillage à haute tension
Partie 100: Disjoncteurs à courant alternatif à haute tension
(CEI 62271-100:2001)

Hochspannungs-Schaltgeräte
Teil 100: Hochspannungs-Wechselstrom-Leistungsschalter
(IEC 62271-100:2001)

This European Standard was approved by CENELEC on 2001-09-01. 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, Malta, 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. EN 62271-100:2001 E

Foreword

The text of document 17A/589/FDIS, future edition 1 of IEC 62271-100, prepared by SC 17A, High-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62271-100 on 2001-09-01.

This European Standard supersedes HD 348 S7:1998.

NOTE This standard was voted as prEN 60056.

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) 2002-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2004-09-01

This standard shall be read in conjunction with EN 60694:1996, to which it refers and which is applicable unless otherwise specified in this standard. In order to simplify the indication of corresponding requirements, the same numbering of clauses and subclauses is used as in EN 60694. Amendments to these clauses and subclauses are given under the same references whilst additional subclauses are numbered from 101.

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annexes A, B, C, D, E, F, G and ZA are normative and annexes H, I, J and K are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62271-100:2001 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 60050-151	1978	International Electrotechnical Vocabulary (IEV) Chapter 151: Electrical and magnetic devices	-	-
IEC 60050-441	1984	Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 60050-601	1985	Chapter 601: Generation, transmission and distribution of electricity - General	-	-
IEC 60050-604	1987	Chapter 604: Generation, transmission and distribution of electricity - Operation	-	-
IEC 60059	1999	IEC standard current ratings	EN 60059	1999
IEC 60060	Series	High-voltage test techniques	HD 588.1 S1 EN 60060-2	1991 1994
IEC 60071-2	1996	Insulation co-ordination Part 2: Application guide	EN 60071-2	1997
IEC 60129	1984	Alternating current disconnectors and earthing switches	EN 60129	1994
IEC 60137	1995	Insulated bushings for alternating voltages above 1 kV	EN 60137	1996
IEC 60255-3 (mod)	1989	Electrical relays Part 3: Single input energizing quantity measuring relays with dependent or independent time	EN 60255-3 + corr. Jan.	1998 1998
IEC 60296	1982	Specification for unused mineral insulating oils for transformers and switchgear	-	-
IEC 60376	1971	Specification and acceptance of new sulphur hexafluoride	-	-

Publication	Year	Title	EN/HD	Year
IEC 60427	1989	Synthetic testing of high-voltage alternating current circuit-breakers	EN 60427	1992 [1]
IEC 60480	1974	Guide to the checking of sulphur hexafluoride (SF_6) taken from electrical equipment	-	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993
IEC 60694	1996	Common specifications for high-voltage switchgear and controlgear standards	EN 60694 + corr. May	1996 1999
IEC 61233	1994	High-voltage alternating current circuit-breakers - Inductive load switching	-	-
IEC 61633	1995	High-voltage alternating current circuit-breakers - Guide for short-circuit and switching test procedures for metal-enclosed and dead tank circuit-breakers	-	-
IEC 61634	1995	High-voltage switchgear and controlgear - Use and handling of sulphur hexafluoride (SF6) in high-voltage switchgear and controlgear	-	-
IEC 62271-308	[2]	High-voltage alternating current circuit-breakers - Guide for asymmetrical short-circuit breaking test duty T100a	-	-

[1] EN 60427:2000 is based on IEC 60427:2000.

[2] To be published.

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Appareillage à haute tension –

Partie 100: Disjoncteurs à courant alternatif à haute tension

High-voltage switchgear and controlgear –

Part 100: High-voltage alternating-current circuit-breakers

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

Part 100: High-voltage alternating-current circuit-breakers

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.
2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical specifications, technical reports or guides and they are accepted by the National Committees in that sense.
4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 62271-100 has been prepared by subcommittee 17A: High-voltage switchgear and controlgear, of IEC technical committee 17: Switchgear and controlgear.

This first edition of IEC 62271-100 cancels and replaces the fourth edition of IEC 60056, published in 1987, and constitutes a technical revision.

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

FDIS	Report on voting
17A/589/FDIS	17A/594/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 standard shall be read in conjunction with IEC 60694, second edition, published in 1996, to which it refers and which is applicable unless otherwise specified in this standard. In order to simplify the indication of corresponding requirements, the same numbering of clauses and subclauses is used as in IEC 60694. Amendments to these clauses and subclauses are given under the same references whilst additional subclauses are numbered from 101.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

Annexes A, B, C, D, E, F and G form an integral part of this standard.

Annexes H, I, J and K are for information only.