

**BS 7528 :
Part 1 : 1991
IEC 1083-1 :
1991**

Digital recorders for measurements in high-voltage impulse tests

Part 1. Requirements for digital recorders

Enregistreurs numériques pour les mesures
pendant les essais de choc à haute tension
Partie 1. Prescriptions pour des enregistreurs
numériques

Digitalrecorder für Stoßspannungsprüfungen
Teil 1. Anforderungen an Digitalrecorder

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Power Electrical Engineering Standards Policy Committee (PEL/-) to Technical Committee PEL/62, upon which the following bodies were represented:

- ASTA Certification Services
- British Cable Makers Confederation
- British Industrial Ceramic Manufacturers Association
- Department of Trade and Industry (Namas Executive)
- Electrical and Electronic Insulation Association (BEAMA Ltd.)
- Electricity Supply Industry in England and Wales
- Institute of Science Technology
- Transmission and Distribution Association (BEAMA Ltd.)
- University of Manchester

This British Standard, having been prepared under the direction of the Power Electrical Engineering Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 29 November 1991

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The following BSI references relate to the work on this standard:
Committee reference PEL/62
Draft for comment 87/23149 DC

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Amendments issued since publication

Amd. No.	Date	Text affected

Amendment No. 1
published and effective from 15 September 1993
to BS 7528 : Part 1 : 1991

Digital recorders for measurement in high-voltage impulse tests
Part 1. Requirements for digital recorders

NOTE. The European Committee for Electrotechnical Standardization (CENELEC) has accepted IEC 1083-1 : 1991 (modified) as a European Standard designated as EN 61083-1 : 1993. This amendment implements EN 61083-1 : 1993 as a British Standard in the BS EN series.

Implementation of European Standard

Front cover

Delete the existing cover page and substitute the attached.

AMD 7925/September 1993

National foreword

At the end of paragraph 1 insert the following new paragraph.

'In 1993 the European Committee for Electrotechnical Standardization (CENELEC) accepted IEC 1083-1 : 1991 (modified) as European Standard EN 61083-1 : 1993. As a consequence of implementing the European Standard this British Standard is renumbered as BS EN 61083-1 and any reference to BS 7528 : Part 1 should be read as a reference to BS EN 61083-1.'

AMD 7925/September 1993

New EN title page and foreword

Immediately after the national foreword, insert the attached new EN title page and foreword page.

AMD 7925/September 1993

Common modifications

Amend the text of EN 61083-1 in accordance with the details given on the attached pages.

AMD 7925/September 1993

New annex ZA

Insert the attached new annex ZA after annex C.

AMD 7925/September 1993

Digital recorders for measurements in high-voltage impulse tests

Part 1. Requirements for digital recorders

The European Standard EN 61083-1 : 1993 has the status of a
British Standard

Enregistreurs numériques pour les mesures
pendant les essais de choc à haute tension
Partie 1. Prescriptions pour des enregistreurs
numériques

Digitalrekorder für Stoßspannungs- und
Stoßstromprüfungen
Teil 1. Anforderungen an Digitalrekorder

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Descriptors: High-voltage tests, digital recorders, high-voltage impulse tests

English version

Digital recorders for measurements in high-voltage impulse tests Part 1: Requirements for digital recorders

(IEC 1083-1 : 1991, modified)

Enregistreurs numériques pour les mesures
pendant les essais de choc à haute tension
Partie 1: Prescriptions pour des enregistreurs
numériques
(CEI 1083-1 : 1991, modifiée)

Digitalrekorder für Stoßspannungs- und
Stoßstromprüfungen
Teil 1: Anforderungen an Digitalrekorder
(IEC 1083-1 : 1991, modifiziert)

This European Standard was approved by CENELEC on 1993-03-09. 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, 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

Foreword

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1083-1 : 1991 could be accepted without textual changes, has shown that some common modifications were necessary for the acceptance as European Standard.

The reference document, together with the common modifications prepared by the CENELEC Reporting Secretariat SR 42, was submitted to the CENELEC members for formal vote.

The text of the draft was approved by CENELEC as EN 61083-1 on 9 March 1993.

NOTE. Switzerland has no obligation to implement this European Standard.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1994-03-01
- latest date of withdrawal of
conflicting national standards (dow) 1994-03-01

For products which have complied with the relevant national standard before 1994-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-03-01.

Annexes designated 'normative' are part of the body of the standard. Annexes designated 'informative' are given only for information. In this standard, annexes A, B and C are informative and annex ZA is normative.

Common modifications

Section 2: Requirements and tests

2.2 Performance tests

2.2.6 Replace the title and text of this clause by:

The measure of dynamic conversion coefficient

The dynamic conversion coefficient should be measured either by the method according to what has been stated at 2.2.6.1 or by the other one exposed at 2.2.6.2.

The calibration voltage level (the impulse peak and the step values) must be comparable with the voltage level to be measured.

2.3 Performance checks

2.3.1 Replace the first sentence of this subclause by:

Performance checks shall be performed once a month at the beginning and end of a period of use, i.e. once after the warm-up time and once before the digital recorder is switched off.

Annex ZA (normative)

Other international publications quoted in this standard with the references of the relevant European publications

When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
60-1	1989	<i>High-voltage test techniques Part 1: General definitions and test requirements</i>	HD 588.1 S1	1991
60-3	1976	<i>Part 3: Measuring devices</i>	–	–
60-4	1977	<i>Part 4: Application guide for measuring devices</i>	–	–

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