

Specification for

Ceramic pressurized hollow insulators for high-voltage switchgear and controlgear

The European Standard EN 50062:1991 has the status of a
British Standard

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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 28 February 1992

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National foreword

This British Standard has been prepared under the direction of the Power Electrical Engineering Standards Policy Committee and is the English language version of EN 50062:1991 “*Ceramic pressurized hollow insulators for high-voltage switchgear and controlgear*”, published by the European Committee for Electrotechnical Standardization (CENELEC).

National annex NA gives the constitution of the committees responsible for UK participation in the preparation of this standard.

National annex NB gives details of International Standards quoted in this standard for which there is an identical or technically equivalent British Standard.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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Descriptors: Enclosure, high-voltage switching device, H.V. insulation-enclosed switchgear and controlgear, pressurized enclosure, ceramic, metallic fitting, ground part, roughness

English version

Ceramic pressurized hollow insulators for high-voltage switchgear and controlgear

Enveloppes isolantes sous pression en matière
céramique pour l'appareillage à haute tension

Druckbeanspruchte Hohlisolatoren aus
keramischen Material für
Hochspannungs-Schaltgeräte und
Schaltanlagen

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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.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This European standard has been prepared by CENELEC Technical Committee 17A: High-voltage switchgear and controlgear.

Drafts were discussed in meetings held in Paris (September 1987) and in Brussels (June 1989).

The text of this standard was approved by CENELEC on 11 June 1990.

The following dates were fixed:

- latest date of publication of an identical national standard: 1992-04-15
- latest date of withdrawal of conflicting national standards: 1992-04-15

For products which have complied with the relevant national standard before 1992-04-15, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-04-15.

The present EN has been established to specify the design, construction, testing, inspection and certification of pressurized hollow insulators intended for use in electrical equipment when they are fitted with their fixing devices and subject, in operation, to an internal gas pressure.

Thus, this standard supplements IEC 233: Tests on hollow insulators for use in electrical equipment.

It complies too, from this point of view, with EEC Directive 76/767 clause 2 "Pressure vessels and methods for inspecting them. General Directive".

This EN contains three informative annexes:

Annex A: Tolerances of form and position

Annex B: Bending moment equivalent to the design pressure

Annex C: A-deviations

Normative references

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.

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

IEC 56	<i>High-voltage</i>	HD 348
(mod):1987	<i>alternating-current</i>	S3:1989
	<i>circuit-breakers</i>	

IEC 168:1988	<i>Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1 000 V</i>	
IEC 233:1974	<i>Tests on hollow insulators for use in electrical equipment</i>	HD 329 S1:1978
IEC 273:1979	<i>Dimensions of indoor and outdoor post insulators and post insulator units for systems with nominal voltages greater than 1 000 V</i>	
IEC 672:1984 Part 3	<i>Specification for ceramics and glass insulating materials — Part 3: Individual materials</i>	HD 426.3 S1:1987
IEC 694 (mod):1980	<i>Common clauses for high-voltage switchgear and controlgear standards</i>	HD 448 S2:1989
ISO 1101:1983	<i>Technical drawings — Geometrical tolerancing. Tolerancing of form, orientation, location and run-out. Generalities, definitions, symbols. Examples of indication and interpretation.</i>	
ISO 4287-1: 1984	<i>Surface roughness — Terminology — Part 1: Surface and its parameters</i>	
ISO 4287-2: 1984	<i>Surface roughness — Terminology — Part 2: Measurement of surface roughness parameters</i>	

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