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**BS EN 62271-4:2013**



**BSI Standards Publication**

# High-voltage switchgear and controlgear

Part 4: Handling procedures for sulphur  
hexafluoride (SF<sub>6</sub>) and its mixtures

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This British Standard is the UK implementation of EN 62271-4:2013. It is identical to IEC 62271-4:2013. It supersedes PD CLC/TR 62271-303:2009, which will be withdrawn on 30 September 2016.

The UK participation in its preparation was entrusted by Technical Committee PEL/17, Switchgear, controlgear, and HV-LV co-ordination, to Subcommittee PEL/17/1, High-voltage switchgear and controlgear.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Published by BSI Standards Limited 2013

ISBN 978 0 580 69838 5  
ICS 29.130.10; 29.130.99

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2013.

#### **Amendments/corrigenda issued since publication**

<b>Date</b>	<b>Text affected</b>
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EUROPÄISCHE NORM

November 2013

ICS 29.130.10; 29.130.99

Supersedes CLC/TR 62271-303:2009

English version

**High-voltage switchgear and controlgear -  
Part 4: Handling procedures for sulphur hexafluoride (SF<sub>6</sub>)  
and its mixtures  
(IEC 62271-4:2013)**

Appareillage à haute tension -  
Partie 4: Utilisation et manipulation de  
l'hexafluorure de soufre (SF<sub>6</sub>) et des  
mélanges contenant du SF<sub>6</sub>  
(CEI 62271-4:2013)

Hochspannungs-Schaltgeräte und -  
Schaltanlagen -  
Teil 4: Handhabungsmethoden im  
Umgang mit Schwefelhexafluorid (SF<sub>6</sub>)  
und seinen Mischgasen  
(IEC 62271-4:2013)

This European Standard was approved by CENELEC on 2013-09-30. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**CENELEC**

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels**

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The text of document 17A/1044/FDIS, future edition 1 of IEC 62271-4, 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 approved by CENELEC as EN 62271-4:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-06-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-09-30

This document supersedes CLC/TR 62271-303:2009.

EN 62271-4:2013 includes the following significant technical changes with respect to CLC/TR 62271-303:2009:

- a) the description of the potential effects on health of SF<sub>6</sub> by-products (former Annex D of CLC/TR 62271-303:2009) has been replaced by the calculation methods for evaluating of the potential effects on health of SF<sub>6</sub> by-products (see Annex H);
- b) information about cryogenic reclaim of SF<sub>6</sub> have been added (see Annex I);
- c) handling procedures for the most popular SF<sub>6</sub> mixtures have been added (see Annex J).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

### Endorsement notice

The text of the International Standard IEC 62271-4:2013 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 62271-203:2011	NOTE	Harmonized as EN 62271-203:2012 (not modified).
ISO 14040:2006	NOTE	Harmonized as EN ISO 14040:2006 (not modified).

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(normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-441	-	International Electrotechnical Vocabulary (IEV) - Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 60050-601	-	International Electrotechnical Vocabulary (IEV) - Chapter 601: Generation, transmission and distribution of electricity - General	-	-
IEC 60376	-	Specification of technical grade sulfur hexafluoride (SF <sub>6</sub> ) for use in electrical equipment	EN 60376	-
IEC 60480	-	Guidelines for the checking and treatment of sulphur hexafluoride (SF <sub>6</sub> ) taken from electrical equipment and specification for its re-use	EN 60480	-
IEC 62271-1	-	High-voltage switchgear and controlgear - Part 1: Common specifications	EN 62271-1	-
-	-	Transportable gas cylinders - Gas cylinder identification (excluding LPG) - Part 3: Colour coding	EN 1089-3	-

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