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Spänningsstyva strömriktare (VSC) för statisk synkronkompensator (STATCOM) – Elektrisk provning

*Voltage sourced converter (VSC) valves for static synchronous compensator (STATCOM) –
Electrical testing*

Som svensk standard gäller europastandarden EN 62927:2017. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62927:2017.

Nationellt förord

Europastandarden EN 62927:2017^{*)}

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62927, First edition, 2017^{*)} - Voltage sourced converter (VSC) valves for static synchronous compensator (STATCOM) - Electrical testing**

utarbetad inom International Electrotechnical Commission, IEC.

^{*)}Corrigendum AC:2018-01 till EN 62927:2017 ingår i standarden och Corrigendum December 2017 till IEC 62927:2017 är inarbetat i standarden.

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English Version

Voltage sourced converter (VSC) valves for static synchronous
compensator (STATCOM) - Electrical Testing
(IEC 62927:2017)

Valves de convertisseur source de tension (VSC) pour
compensateur synchrone statique (STATCOM) - Essais
électriques
(IEC 62927:2017)

Ventile von Spannungszwischenkreis-Stromrichtern (VSC)
für STATCOM - Elektrische Prüfungen
(IEC 62927:2017)

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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

European foreword

The text of document 22F/412/CDV, future edition 1 of IEC 62927, prepared by SC 22F "Power electronics for electrical transmission and distribution systems", of IEC/TC 22 "Power electronic systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62927:2017.

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)	2018-05-16
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latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-08-16
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Endorsement notice

The text of the International Standard IEC 62927:2017 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:

ISO/IEC 17025	NOTE	Harmonized as EN ISO/IEC 17025.
IEC 61954	NOTE	Harmonized as EN 61954.
IEC 62747	NOTE	Harmonized as EN 62747.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060	series	High-voltage test techniques -- Part 1: General definitions and test requirements	EN 60060	series
IEC 60060-1	-	High-voltage test techniques -- Part 1: General definitions and test requirements	EN 60060-1	-
IEC 60071-1	2006	Insulation co-ordination -- Part 1: Definitions, principles and rules	EN 60071-1	2006
IEC 60700-1	2015	Thyristor valves for high voltage direct current (HVDC) power transmission -- Part 1: Electrical testing	EN 60700-1	2015
IEC 62501	-	Voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) power transmission - Electrical testing	EN 62501	-

English Version

**Voltage sourced converter (VSC) valves for static synchronous
compensator (STATCOM) - Electrical Testing
(IEC 62927:2017/COR1:2017)**

Valves de convertisseur source de tension (VSC) pour
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Ventile von Spannungszwischenkreis-Stromrichtern (VSC)
für STATCOM - Elektrische Prüfungen
(IEC 62927:2017/COR1:2017)

This corrigendum becomes effective on 19 January 2018 for incorporation in the English language version of the EN.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**VOLTAGE SOURCED CONVERTER (VSC) VALVES FOR STATIC
SYNCHRONOUS COMPENSATOR (STATCOM) –
ELECTRICAL TESTING**

FOREWORD

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International Standard IEC 62927 has been prepared by subcommittee 22F: Power electronics for electrical transmission and distribution systems, of IEC technical committee 22: Power electronic systems and equipment.

The text of this International Standard is based on the following documents:

CDV	Report on voting
22F/412/CDV	22F/431A/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

The contents of the corrigendum of December 2017 have been included in this copy.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

VOLTAGE SOURCED CONVERTER (VSC) VALVES FOR STATIC SYNCHRONOUS COMPENSATOR (STATCOM) – ELECTRICAL TESTING

1 Scope

This document applies to self-commutated valves, for use in voltage sourced converter (VSC) for static synchronous compensator (STATCOM). It is restricted to electrical type and production tests.

The tests specified in this document are based on air insulated valves. For other types of valves, the test requirements and acceptance criteria are agreed between the purchaser and the supplier.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60060 (all parts), *High-voltage test techniques*

IEC 60060-1, *High-voltage test techniques – Part 1: General definitions and test requirements*

IEC 60071-1:2006, *Insulation co-ordination – Part 1: Definitions, principles and rules*

IEC 60700-1:2015, *Thyristor valves for high voltage direct current (HVDC) power transmission – Part 1: Electrical testing*

IEC 62501, *Voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) power transmission – Electrical testing*