

**ALALISVOOLUÜLEKANDE TÜRISTORVENTIILID
OSA 2: TERMINOLOOGIA**

**Thyristor valves for high voltage direct current (HVDC)
power transmission - Part 2: Terminology
(IEC 60700-2:2016)**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

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English Version

**Thyristor valves for high voltage direct current (HVDC) power
transmission - Part 2: Terminology
(IEC 60700-2:2016)**

Valves à thyristors pour le transport d'énergie en courant
continu à haute tension (CCHT) - Partie 2: Terminologie
(IEC 60700-2:2016)

Thyristorventile für Hochspannungsgleichstrom-
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Terminologie (IEC 60700-2:2016)

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

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European foreword

The text of document 22F/373/CDV, future edition 1 of IEC 60700-2, 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 60700-2:2016.

The following dates are fixed:

- latest date by which the document has to be (dop) 2017-05-25
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2019-11-25
standards conflicting with the
document have to be withdrawn

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CONTENTS

FOREWORD	3
1 Scope	5
2 Normative references	5
3 Symbols and abbreviations	5
3.1 General	5
3.2 List of letter symbols	5
3.3 List of abbreviations	5
4 General terms related to converter circuits	6
5 Converter performance	6
6 Thyristor valve design	6
7 Thyristor valve performance	11
8 Thyristor valve voltages, currents and other parameters	12
9 Thyristor valve control	15
10 Thyristor valve protection	16
Annex ZA (normative) Normative references to international publications with their corresponding European publications	22
Bibliography	23
Figure 1 – Example of a converter unit	17
Figure 2 – Commutation process at rectifier and inverter modes of operation	18
Figure 3 – Illustrations of commutation in inverter operation	19
Figure 4 – Typical valve voltage waveforms	20
Figure 5 – An example of thyristor valve composition	21

INTERNATIONAL ELECTROTECHNICAL COMMISSION

THYRISTOR VALVES FOR HIGH VOLTAGE DIRECT CURRENT (HVDC) POWER TRANSMISSION –

Part 2: Terminology

FOREWORD

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International Standard IEC 60700-2 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 standard is based on the following documents:

CDV	Report on voting
22F/373/CDV	22F/395A/RVC

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

A list of all parts in the IEC 60700 series, published under the general title *Thyristor valves for high voltage direct current (HVDC) power transmission*, can be found on the IEC website.

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

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

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

THYRISTOR VALVES FOR HIGH VOLTAGE DIRECT CURRENT (HVDC) POWER TRANSMISSION –

Part 2: Terminology

1 Scope

This part of IEC 60700 defines terms for thyristor valves for high-voltage direct current (HVDC) power transmission with line commutated converters most commonly based on three-phase bridge connections for the conversion from AC to DC and vice versa.

2 Normative references

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.

IEC 60027(all parts), *Letter symbols to be used in electrical technology*

IEC 60633, *Terminology for high-voltage direct current (HVDC) transmission*

3 Symbols and abbreviations

3.1 General

The lists in 3.2 and 3.3 cover only the most frequently used symbols. The lists of symbols of the IEC 60027 series and IEC 60633 apply.

3.2 List of letter symbols

- α (trigger/firing) delay angle
- β (trigger/firing) advance angle
- μ commutation overlap angle
- γ extinction angle

3.3 List of abbreviations

The following abbreviations are always in capital letters and without dots:

- ETT electrically triggered thyristor
- LTT light triggered thyristor
- TCU thyristor control unit
- HVDC high-voltage direct current
- VBE valve base electronics
- MVU multiple valve (unit)
- BOD breakover diode