

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Thyristor valves for high voltage direct current (HVDC) power transmission –
Part 2: Terminology**

**Valves à thyristors pour le transport d'énergie en courant continu à haute
tension (CCHT) –
Partie 2: Terminologie**





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IEC 60700-2

Edition 1.0 2016-06

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.200

ISBN 978-2-8322-3474-7

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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
Bibliography	22
 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

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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.

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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
- LT^T light triggered thyristor
- TCU thyristor control unit
- HVDC high-voltage direct current
- VBE valve base electronics
- MVU multiple valve (unit)
- BOD breakover diode