
Tiristorski ventili (elektronke) za visokonapetostni enosmerni prenos (HVDC) električne energije - 2. del: Terminologija (IEC 60700-2:2016)

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

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

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31.080.20	Tiristorji	Thyristors

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60700-2

November 2016

ICS 29.200

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-
Energieübertragung (HGÜ) - Teil 2: Terminologie
(IEC 60700-2:2016)

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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

EN 60700-2:2016**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document have to be withdrawn

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IEC 60700-1 NOTE Harmonized as EN 60700-1.

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Annex ZA (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 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 60027	Series	Letter symbols to be used in electrical technology	-	-
IEC 60633	-	Terminology for high-voltage direct current (HVDC) transmission	EN 60633	-

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NORME INTERNATIONALE

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

(standards.iteh.ai)

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

Partie 2: Terminologie

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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.

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