



NSAI
Standards

Irish Standard
I.S. EN 60700-2:2016

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

I.S. EN 60700-2:2016

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN 60700-2:2016 is the adopted Irish version of the European Document EN 60700-2:2016, Thyristor valves for high voltage direct current (HVDC) power transmission - Part 2: Terminology

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EUROPEAN STANDARD

EN 60700-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

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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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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-05-25
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IEC 60700-1 NOTE Harmonized as EN 60700-1.

Annex ZA (normative)

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<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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IEC 60700-2

Edition 1.0 2016-06

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

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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**THYRISTOR VALVES FOR HIGH VOLTAGE
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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.

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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

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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

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