ALALISVOOLUÜLEKANDE TÜRISTORVENTIILID. OSA 2: TERMINOLOOGIA

Thyristor valves for high voltage direct current (HVDC) power transmission - Part 2: Terminology (IEC 60700-2:2016 + IEC 60700-2:2016/AMD1:2021)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 60700-2:2016 +A1:2022 sisaldab Euroopa standardi EN 60700-2:2016 ja selle muudatuse A1:2021 ja paranduse AC:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 60700-2:2016 +A1:2022 consists of the English text of the European standard EN 60700-2:2016 and its amendment A1:2021 and corrigendum AC:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 25.11.2016, muudatused A1 01.10.2021.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 25.11.2016, for A1 01.10.2021.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega [A1] ⟨A1⟩. Parandusega AC lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümbolitega [AC] ⟨AC⟩. Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags [A1] ⟨A1⟩. The start and finish of text introduced or altered by corrigendum AC is indicated in the text by tags [AC] ⟨AC⟩. The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 29.200

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EN 60700-2 + A1

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English Version

Thyristor valves for high voltage direct current (HVDC) power transmission - Part 2: Terminology (IEC 60700-2:2016 + IEC 60700-2:2016/AMD1:2021)

Valves à thyristors pour le transport d'énergie en courant continu à haute tension (CCHT) - Partie 2: Terminologie (IEC 60700-2:2016 + IEC 60700-2:2016/AMD1:2021)

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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.

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• 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.

A1 Amendment A1 European foreword

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A1

IEC 60700-2

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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

IEC 60700-2:2016-06+AMD1:2021-08 CSV(en-fr)

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

Part 2: Terminology

FOREWORD

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

AMENDMENT A1 FOREWORD

Amendment 1 to IEC 60700-2:2016 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 amendment is based on the following documents:

Draft	Report on voting
22F/607/CDV	22F/629/RVC

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The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

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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