

SLOVENSKI STANDARD SIST EN 61148:2012

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Oznake priključkov na modulih in sestavih elektronk in na opremi električnih pretvornikov

Terminal markings for valve device stacks and assemblies and for power converter equipment

Marquage des bornes de blocs et d'ensembles d'éléments de valve et d'équipement de convertisseur de puissance

SIST EN 61148:2012

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napajanje

iki. Rectifiers. Convertors. no Stabilized power supply

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EUROPEAN STANDARD

EN 61148

NORME EUROPÉENNE EUROPÄISCHE NORM

January 2012

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English version

Terminal markings for valve device stacks and assemblies and for power conversion equipment

(IEC 61148:2011)

Marquage des bornes de blocs et d'ensembles d'éléments de valve et d'équipement de conversion de puissance (CEI 61148:2011)

Kennzeichnung der Anschlüsse von Ventilbauelement-Baugruppen und sätzen sowie von Stromrichtergeräten (IEC 61148:2011)

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This European Standard was approved by CENELEC on 2011-11-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member. eaba530a9862/sist-en-61148-2012

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 22/185/FDIS, future edition 2 of IEC 61148, prepared by IEC/TC 22 "Power electronic systems and equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61148:2012.

The following dates are fixed:

document have to be withdrawn

latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement
 latest date by which the national standards conflicting with the

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Endorsement notice

The text of the International Standard IEC 61148:2011 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60445 NOTE Harmonized as EN 60445.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60050-551	-	International Electrotechnical Vocabulary (IEV) - Part 551: Power electronics	-	-
IEC 60146-1-1	-	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	EN 60146-1-1	-

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NORME INTERNATIONALE

Terminal markings for valve device stacks and assemblies and for power conversion equipment (standards.iteh.ai)

Marquage des bornes de blocs et d'ensembles d'éléments de valve et d'équipement de conversion de puissance et l'6726ed69-f4f5-4a6d-8ea2-eaba530a9862/sist-en-61148-2012

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CONTENTS

FOI	FOREWORD4				
1	Scope6				
2	Normative references6				
3	Terms and definitions6				
4	Method of identifying terminals7				
5			rking for valve device stacks and assemblies		
	5.1		and double way connections		
		5.1.1	General		
		5.1.2	Single way connections	9	
		5.1.3	Double way connections	11	
		5.1.4	Combination of connections	13	
	5.2	Bi-dire	ctional connections	14	
		5.2.1	Inseparable connections of pair of anti-parallel arms	14	
		5.2.2	Combinations of pairs of anti-parallel arms		
6	Mark	ing of ex	kternal main terminals of integrated conversion equipment	18	
	6.1	A.C. te	rminals	18	
		6.1.1	Single-phase a.c. system	18	
		6.1.2	Three-phase a.c. system A.R.D. P.R.F.V.I.E.W.	18	
		6.1.3	A.C. conversion equipment with a.c. terminals on supply and load	40	
	6.2	D C 40	side, for three-phase systems S.I.C. a.l. rminals		
	6.2	6.2.1	Concret SIST FN 61148-2012	19	
		6.2.1	General SIST EN 61148:2012 https://standards.iteh.ai/catalo/standards/sist/6726ed69-f4f5-4a6d-8ea2-A.C./D.C. conversion equipment cabas 30a/862/sist-en-61148-2012 Double conversion equipment with reversible polarity of d.c.	19	
		6.2.3	Double conversion equipment with reversible polarity of d.c. terminals	19	
		6.2.4	D.C. conversion equipment with d.c. terminals on the supply and load sides	19	
		6.2.5	Terminal for connection to mid-wire conductor	20	
		6.2.6	Conversion equipment with more than one converter section with separate terminal sets on supply and load side	20	
		6.2.7	Conversion equipment in which the external main terminals are formed by the main terminals of the assembly(ies) incorporated in the		
			equipment		
	6.3		g of gate terminals		
		6.3.1	General		
		6.3.2	For thyristors		
		6.3.3	For power transistors	24	
Figi	ure 1 -	– Typica	al markings in single arm connections	9	
Figi	ure 2 -	- Star c	onnection with two arms	10	
-			onnection with three arms		
Figure 4 – Three groups with two arms					
_			roups with three arms		
Figure 6 – Assembly for d.c. chopper					
•					
_	Figure 7 – Pair of arms				
Figi	Figure 8 – Bridge connection				

Figure 9 – Double bridge connection	13
Figure 10 – Anti-parallel bridge connection	13
Figure 11 – Series connection of bridges	14
Figure 12 – Fully controllable anti-parallel pairs	14
Figure 13 – Half-controllable anti-parallel pairs	14
Figure 14 – Example for six-phase supply	15
Figure 15 – Three-phase star connection	16
Figure 16 – Three-phase star connection with neutral	16
Figure 17 – Double two-phase star connection with neutral	16
Figure 18 – Polygon connection	16
Figure 19 – Legs for voltage stiff converters	17
Figure 20 – Bridge connection for voltage stiff converter (two-level)	17
Figure 21 – Three-level connection for inverter	18
Figure 22 – Single-phase a.c./d.c. converter	20
Figure 23 – Double converter	21
Figure 24 – Three-phase rectifier with two sections and d.c. side centre tap for connection to a mid-wire conductor	21
Figure 25 – Direct (or indirect) d.c. converter with two independent sections	21
Figure 26 – Indirect (or direct) a c. converter R.D. P.R.E.V.E.W	22
Figure 27 – Three-phase star connection with neutral e.hai.	23
Figure 28 – Bridge connection	23
Figure 29 – Thyristor with gate unit <u>SIST.EN.61148:2012</u>	23
Figure 30 – Three-phase star connection with power transistors	24
Figure 31 – Pair of power transistors with anti-parallel diodes	24
Figure 32 – Power transistor with gate driver	24

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TERMINAL MARKINGS FOR VALVE DEVICE STACKS AND ASSEMBLIES AND FOR POWER CONVERSION EQUIPMENT

FOREWORD

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International Standard IEC 61148 has been prepared by IEC technical committee 22: Power electronic systems and equipment.

This second edition cancels and replaces the first edition published in 1992. This second edition constitutes a technical revision.

This second edition includes the following significant technical changes with respect to the previous edition:

- the whole document has been rewritten according to the current Directives;
- the identification codes were deleted according to the withdrawal of IEC 60971;
- examples of terminal marking were added, especially for self-commutated converters.

The text of this international standard is based on the following documents:

FDIS	Report on voting
22/185/FDIS	22/188/RVD

Full information on the voting for the approval of this international 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.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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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TERMINAL MARKINGS FOR VALVE DEVICE STACKS AND ASSEMBLIES AND FOR POWER CONVERSION EQUIPMENT

1 Scope

This International Standard is applicable to the terminal markings for the main circuits of valve device stacks and assemblies, and of integrated conversion equipment. The terminal markings refer to stacks, assemblies and equipment comprising semiconductor valve devices.

NOTE 1 Terminal markings for auxiliary circuits, including gate terminals and non-integrated conversion equipment with separate manufacturing of its components and their interconnection only after installation on site, are not considered in this standard.

For such equipment the relevant standards, if any, for the individual components apply.

Gate terminal markings are given in 6.3.

Terminal markings for other circuits such as protective conductor are not considered in this standard.

The object of this standard is to specify a logical alphanumeric marking system for the identification of the external main terminals of the main power circuits in a stack, valve device assembly or integrated conversion equipment, which is applicable for the purpose of reference in circuit diagrams, catalogues, descriptions, and information exchange and storage.

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In the case of stacks and assemblies, alphanumeric terminal marking systems are indicated for those converter connections which are the most important and most commonly used ones.

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Terminal marking systems making ause 9 of 2 graphic isymbols or identifying colours are not considered in this standard.

NOTE 2 The terminals of auxiliary circuits should be marked such that they may be clearly identified.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-551, International Electrotechnical Vocabulary – Part 551: Power electronics

IEC 60146-1-1, Semiconductor converters – General requirements and line commutated converters – Part 1-1: Specification of basic requirements

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-551, IEC 60146-1-1 and the following apply.

3.1

external main terminals

terminals of the main power circuit of the stack, assembly or equipment to which the external power supply or the load are connected

NOTE 1 In the following clauses this term is abbreviated to "terminals".