



SLOVENSKI STANDARD

SIST EN 50011:1998

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Low-voltage switchgear and controlgear for industrial use - Terminal marking, distinctive number and distinctive letter for particular contactors relays

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Industrielle Niederspannungs-Schaltgeräte Anschlußbezeichnungen, Kennzahlen und -Kennbuchstaben für bestimmte Hilfsschütze

Appareillage industriel à basse tension - Marquage des bornes, nombre caractéristique et lettre caractéristique pour des contacteurs auxiliaires particuliers

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Ta slovenski standard je istoveten z: EN 50011:1977

ICS:

29.130.20	Nizkonapetostne stikalne in krmilne naprave	Low voltage switchgear and controlgear
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Key words: electrical switchgear and controlgear : industrial use : low voltage : terminal : marking : distinctive number : distinctive letter — contactor relay — auxiliary contact

English version

Low voltage switchgear and controlgear for industrial use

Terminal marking, distinctive number and distinctive letter for particular contactor relays

Appareillage industriel à basse tension. Marquage des bornes, nombre caractéristique et lettre caractéristique pour des contacteurs auxiliaires particuliers

Industrielle Niederspannungs-Schaltgeräte. Anschlussbezeichnungen, Kennzahlen und Kennbuchstaben für bestimmte Hilfsschütze

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CENELEC

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

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This European Standard has been prepared by CENELEC Technical Committee 17X.

Foreword

Contactor relays may be given a distinctive number and terminal marking according to the General rules, EN 50 005. On this basis, it is desirable to lay down more detailed rules for particular contactor relays, such as those defined in clause 1.

1. Scope

This standard applies to contactor relays according to IEC Standard 337, having specific relative positions of the contact elements and an associated terminal numbering sequence.

These particular contactor relays are designated by a distinctive number followed by a specified distinctive letter.

The use of this standard is recommended where terminal marking is a requirement of the relevant standard for contactor relays, or is usual practice.

2. Terminal marking rule

The contactor terminal marking of a contactor relay is formed, in principle, by two figures.

2.1 Function number. The unit number is a function number, i.e. :

- 1 – 2 for break-contacts;
- 3 – 4 for make-contacts.

2.2 Sequence number. The figure of the tens is a continuous sequence number beginning with 1 (except for contactor relays designated 01 E), independently of the contact function.

Terminals belonging to the *same* contact are marked with the *same* sequence number.

For contactor relays having 10 contact elements, the sequence number 10 shall be replaced by 0.

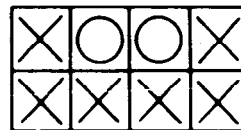
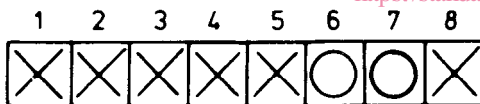
2.3 Numbering method. The contact numbering is made, without any break, from left to right on the device; for devices with tiers, the numbering begins with the tier next to the mounting level.

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Example of contact numbering methods on contactor relays of various constructional types, but with the same distinctive number 62 E

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upper or front tier
lower or back tier

1 2 3 4

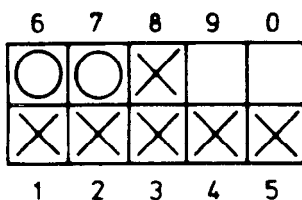


break-contact



make-contact

The prescribed numbering method does not allow blank contact cells inside a contact series.



upper or front tier
lower or back tier

3. Distinctive number and distinctive letter

The number, type and location of contact elements of contactor relays according to this standard are indicated by a distinctive number followed by a distinctive letter.

3.1 Distinctive number. In accordance with EN 50 005, clause 6, the first figure of the distinctive number gives the quantity of make-contact elements and the second figure the quantity of break-contact elements.

3.2 Distinctive letter. The distinctive letter indicates the location of the contact elements in relation to each other and their terminal marking.

Clause 4 defines the arrangement of contactor relays indicated by the distinctive letter E.

Appendix A gives information on permissible deviations, indicated by the distinctive letters X, Y or Z.

For new designs, the arrangement indicated by the distinctive letter E should be preferred.

4. Contactor relays designated by the distinctive letter E

For contactor relays having the same distinctive number and the distinctive letter E, independently of their construction, the sequence of the contact elements within the device is specified according to the diagrams of table 1.

According to the present rule, the sequence number becomes a location number and allows a given contact element terminal of a contactor relay in the equipment to be quickly found solely by counting the contacts.

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Table 1. Diagrams of contactor relays designated by the distinctive letter E

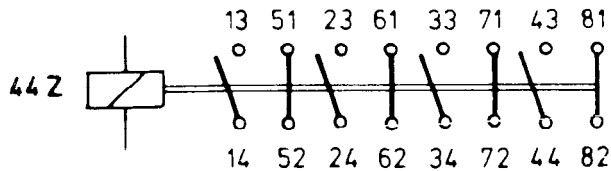
	Contact elements	Contact elements	Contact elements	Contact elements	Contact elements	Contact elements	Contact elements	Contact elements	
10E		01E							
20E		11E		02E					
30E		21E		12E					
40E		31E		22E				04E	
50E		41E		32E				14E	
60E		51E		42E				05E	
80E		71E		62E				44E	
100E		91E		82E				64E	

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Appendix A

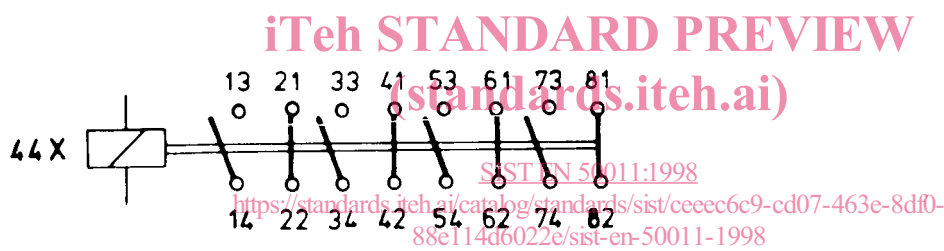
Contactor relays designated by distinctive letters X, Y or Z

A.1 Contactor relays designated by the distinctive letter Z. If the location of the contact elements within the device (but not the terminal marking) differs from the provisions of clause 4, the device is designated by the distinctive letter Z instead of the distinctive letter E.



A.2 Contactor relays designated by the distinctive letter X. If the location of the contact elements within the device and the terminal marking differ from the requirements of clause 4, the device is designated by the distinctive letter X instead of the distinctive letter E.

Such a device shall still comply with the requirements of clauses 2 and 3 of the present standard and with the standard EN 50 005.



A.3 Contactor relays designated by the distinctive letter Y. Devices obtained by combinations according to table 2 are designated by the distinctive letter Y instead of the distinctive letter E.

Table 2. Diagrams of contactor relays designated by the distinctive letter Y.

42Y	<p>(31E + 11)</p>	33Y	<p>(22E + 11)</p>	53Y	<p>(31E + 22)</p>	44Y	<p>(22E + 22)</p>
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