



SLOVENSKI STANDARD
SIST EN 147100:2002
01-december-2002

Sectional Specification: Relay sockets of assessed quality

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Rahmenspezifikation: Gütebestätigte Relaisfassungen

Spécification intermédiaire: Supports de relais sous assurance de la qualité

Ta slovenski standard je istoveten z: EN 147100:1993

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ICS:

29.120.70 Releji Relays

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 147 100

December 1993

UDC

Descriptors: Quality, electronic components, sockets

English version

Sectional specification:

Relay sockets of assessed quality

Spécification intermédiaire:

Rahmenspezifikation:

Supports de relais sous assurance
de la qualité

Gütebestätigte Relaisfassungen

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This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 10 August 1992. CENELEC members are bound to comply with 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 General Secretariat of the CECC or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CECC General Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

CENELEC Electronic Components Committee

Comité des Composants Electroniques du CENELEC

CENELEC- Komitee für Bauelemente der Elektronik

General Secretariat: Gartenstr. 179, 60596 Frankfurt am Main

FOREWORD

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This specification was prepared by CECC WG 16 " Relays".

The text of the draft based on document CECC (Secretariat)2781 was submitted to the formal vote; together with the voting report, circulated as document CECC(Secretariat)3141, it was approved by CECC as EN 147 100 on 10 August 1992.

The following dates were fixed:

- | | | |
|---|-------|------------|
| - latest date of announcement of the EN at national level | (doa) | 1993-02-11 |
| - latest date of publication of an identical national standard | (dop) | 1993-08-11 |
| - latest date of declaration of national standards obsolescence | | 1993-08-11 |
| - latest date of withdrawal of conflicting national standards | (dow) | 2003-02-11 |

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**4 . WRITING OF BLANK DETAIL AND
DETAIL SPECIFICATIONS****5 . MARKING**

5.1 Socket

5.2 Package

1. SCOPE

This sectional specification applies to relay sockets of assessed quality. It selects from the generic specification EN 147 000:1993 and other sources the appropriate methods of test to be used in detail specifications derived from this specification, and contains basic test schedules to be used in the preparation of such specifications.

2. GENERAL

2.1 Related documents

EN 147 000 : 1993	Generic specification: Relay sockets
CECC 00 114/II (1992)	Quality assessment procedures
IEC 62 (1992)	Part II: Qualification approval of electronic components
IEC 255-1-00 (1975)	Marking codes for resistors and capacitors
IEC 410 (1973)	All-or-nothing electrical relays
	Sampling plans and procedures for inspection by attributes

3. QUALITY ASSESSMENT PROCEDURES

3.1 Primary stage of manufacture

The primary stage of manufacture is the molding of insulation body as well as assembly of parts other than contact and removable hardware.

3.2 Structurally similar sockets

Sockets are considered structurally similar if having no other differences in design than in:

- (1) Insulating material
- (2) Type, number and material of contacts
- (3) Rated current of continuous service
- (4) Mounting and terminal variants within limits prescribed in the detail specifications

3.3 Qualification approval tests

Qualification approval tests shall include all the tests prescribed in the detail specification, and shall be performed by a schedule specifically prescribed in the detail specification (§ 1.4, method 1, of CECC 00 114/II).

As a general rule, a minimum of five specimens are required for each group of test. Samples submitted to non-destructive tests may be used for subsequent destructive tests.

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3.4 Quality conformance inspection

3.4.1 Formation of inspection lots

Inspection lots submitted to group A and B acceptance tests, shall be formed in accordance with § 3 of CECC 00 114/II and with the sampling plans and procedures given in IEC 410, except where production is too infrequent or too small for sampling plans to apply; in these cases inspection shall be 100 %.

When sampling is carried out in accordance with IEC 410, the percent defective concept only shall be used. Stratified or representative sampling shall always be used to include all production lines and structurally similar sockets in proportion to their respective quantities in the lot.

3.4.2 Periodic inspection

Fixed samples for group C inspection shall be taken from a lot (or lots) which have passed group A inspection during, or at the end of, the specified reference period.

3.5 Test schedule

3.5.1 Test sequence

A test sequence shall consist of all tests listed in the detail specification in prescribed order.

Where appropriate, the reference numbers of the tests are those of EN 147 000:1993 Generic specification. Additional testing may be called for by the detail specification.

3.5.2 Group A and B

The Inspection Level (IL) notation applies for all tests in one sub-group.

Any given IL and/or AQL notations shall be interpreted such that the number of defectives allowable for acceptance is applicable to each test within a sub-group separately.

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3.5.3 Group C

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The blank detail specification shall prescribe for each sub-group:

- (1) Periodicity of each sub-group. If the same periodicity is applicable to all sub-groups, it shall be given at the beginning of the group test details.
- (2) The minimum sample size for each test (or group of tests).
- (3) The permitted number of defective samples.

3.6 Order of tests

3.6.1 Quality conformance inspection is divided into two parts: that carried out lot-by-lot on which the release of the individual lots is based, and that carried out on a periodic basis which contains the time-consuming and more expensive tests.

According to § 2.3 of CECC 00 114/II, A and B groups contain lot-by-lot tests, while periodic tests required for the maintenance of qualification approval are contained in group C.

3.6.2 When several tests are subsequently to be carried out on any one specimen or number of specimens, the following order shall apply, unless otherwise prescribed in the detail specification.

- (1) Group A : tests shall always precede any other non destructive (ND) or destructive (D) tests.
- (2) ND tests shall be conducted in a suitable sequence provided that the effects of the preceding tests are not considered liable to invalidate the results of the later tests.
- (3) Destructive tests may be preceded by one or more ND tests, provided that the effects of the preceding tests are not considered liable to invalidate the results of the later tests.

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