

Blank Detail Specification: Hermetically sealed relays - For severe static environmental conditions (116205) - For severe mobile environmental conditions (116206) - For severe airborne environmental conditions (116207

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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|--|---|
| <p>Käesolev Eesti standard EVS-EN 116205/116206/116204:2005 sisaldab Euroopa standardi EN 116205/116206/116207:1995 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 28.10.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p> | <p>This Estonian standard EVS-EN 116205/116206/116204:2005 consists of the English text of the European standard EN 116205/116206/116207:1995.</p> <p>This document is endorsed on 28.10.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p> |
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| | |
|---------------------|---------------|
| Käsitlusala: | Scope: |
| | |

ICS 29.120.70

Võtmesõnad:

Descriptors: Quality, electronic components, relays

Supersedes EN 116205/116206/116207:1992

English version

Blank Detail Specification: Hermetically sealed relays

For severe static environmental conditions (116205)

For severe mobile environmental conditions (116206)

For severe airborne environmental conditions (116207)

Spécification particulière cadre: Relais hermétiques

Pour environnement sévère sur équipement fixe (116205)

Pour environnement sévère sur équipement mobile (116206)

Pour environnement sévère sur équipement aéronautique (116207)

Vordruck für Bauartspezifikation:

Hermetisch dichte Relais

Für stationäres Gerät für erschwerte Umweltbedingungen (116205)

Für bewegliches Gerät für erschwerte Umweltbedingungen (116206)

Für fliegendes Gerät für erschwerte Umweltbedingungen (116207)

This European Standard was approved on 1994-10-28. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization

Comité Européen de Normalisation Electrotechnique

Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This European Standard was prepared by CLC/TC CECC/WG 16.

The text of the draft based on document CECC(Secretariat)3563 was submitted to the formal vote; together with the voting report, circulated as document CECC(Secretariat)3627, it was approved as EN 116205/116206/116207 on 1994-10-28.

This European Standard supersedes EN 116205/116206/116207:1992.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1995-09-06
- latest date by which national standards conflicting with the EN have to be withdrawn (dow) 1996-09-06

This standard combines three BDSs. Unless otherwise indicated, the content of this standard is applicable to all three BDSs. However, in the test schedules contained in table 5, a differentiation is made between test schedule 5 (EN 116205), test schedule 6 (EN 116206) and test schedule 7 (EN 116207) as indicated in the second column.

| | | |
|---|--|--|
| (1) | CECC 16 205 (206, 207)-XXX Issue: ... month, year Page 1 to ... | (2) |
| (3) | Electronic components of assessed quality in accordance with EN 116 000-1: 1992 EN 116 200: 1991 EN 116 205, 116 206 or 116 207 as applicable | (4) |
| <div style="display: flex; justify-content: space-between;"> Detail specification for all-or-nothing relays (5) </div> <div style="display: flex; justify-content: space-between;"> Type(s): (6) </div> <div style="display: flex; justify-content: space-between;"> Construction: </div> | | |
| Outline drawing | (7) | <div style="display: flex; justify-content: space-between;"> Application: (8) </div> <p>Relays according to this standard are provided for the operation in military and/or commercial equipment and/or installations with increased mechanical and environmental requirements. The applicable load range is from low level to less than 5 Amperes.</p> <p>Test schedule:(Test schedule from sectional specification)</p> <p>The relays have a quality assessment level Y.</p> |
| <div style="display: flex; justify-content: space-between;"> Dimensions in mm </div> | | |
| Coil data: | | |
| Contact data: | | |
| <div style="display: flex; justify-content: space-between;"> Temperature range: (11) </div> <div style="display: flex; justify-content: space-between;"> Storage temperature: - 65 to + 150 °C </div> <div style="display: flex; justify-content: space-between;"> Ambient temperature: - 65 to + 125 °C </div> | | |
| Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: Register of Approvals. | | |

Key for page 3:

The first page of the detail specification (DS) should have the layout recommended on page 3. The numbers between brackets on page 3 correspond to the following indications which should be given:

Identification of the detail specification

- (1) The name of the National Standards Organization under whose authority the detail specification is published and, if applicable, the organization from whom the DS is available.
- (2) The CECC symbol and the number allotted to the completed detail specification by the CECC General Secretariat.
- (3) The number and issue number of the CECC generic specification and/or sectional specification as relevant, also national reference if different.
- (4) If different from the CECC number, the national number of the detail specification, date of issue and any further information required by the national system, together with any amendment numbers.

Identification of the relay

- (5) Type: Monostable or bistable, polarized or not, number and arrangement of contacts, low level (or not) to high level, contact current and voltage, suppression device, protection against reverse polarity, coil protection.
- (6) Construction: Sizes (for example half-size crystal can)
Terminals, mounting variants and other typical construction details.

For (5) and (6) the text to be given in the detail specification should be suitable for an entry in CECC 00 200 (Register of Approvals) and CECC 00 300 (Library List).

- (7) Basic outline drawing and implantation; the detailed variants for terminals and mountings shall be given in appendices, if necessary.
- (8) Application and test schedule:
The test schedules contained in these combined BDSs include all requirements for EN 116 205, 116 206 and 116 207.
Unless otherwise indicated, the content of these combined BDSs including the test schedules is applicable to EN 116 205, 116 206 and 116 207.
Where shown in the second column of the test schedules in Table 5, individual test schedules 5, 6 or 7 are applicable as indicated to EN 116 205, 116 206 or 116 207 respectively.
The test schedules have levels of assessment which render the qualified components suitable for the following applications:
Test schedule 5 (EN 116 205) hermetically sealed relays for severe static environmental conditions.
Test schedule 6 (EN 116 206) hermetically sealed relays for severe mobile environmental conditions.
Test schedule 7 (EN 116 207) hermetically sealed relays for severe airborne environmental conditions.
- (9) Available coil voltages.
- (10) Available contact arrangements and contact current and voltage.
- (11) Temperature range.

1. Related documents

- CECC 00 802-2: 1994 Guidance Document: CECC standard method for the specification of surface mounting components (SMDs) of assessed quality
- EN 116 000-1: 1992 Generic Specification: Electromechanical all-or-nothing relays
- EN 116 200: 1991 Sectional Specification: Electromechanical all-or-nothing relays

(National authorized institutions should complete this section making reference to any additional documents or specifications directly referred to in their national equivalent of this document.)

2. Characteristic values of the relay

These shall be in accordance with IEC 255-1-00 as applicable.

2.1 General data

- Contact application:
- Contact arrangement:
- Mass (Weight): g max.
- Finish of the relay housing:
- Finish of the terminals:
- Insulation resistance: 10 000 MΩ min. at 500 V d.c.
- Dielectric withstand voltage:V min.
- Nominal free volume:

Table 1: Dielectric test voltages

| | at sea level V a.c. min. | at 2 kPa (26 600 m) V a.c. min. |
|---------------------------|-----------------------------|------------------------------------|
| Open contacts | | |
| Between adjacent contacts | | |
| Contacts to case | | |
| Coil to contacts | | |
| Coil to case | | |

2.2 Construction of designation (ordering information)

| | | | | | | | | |
|---------------------------------------|--------------|-------------------------------|--------------|----------|----------|----------|----------|----------|
| | <u>Relay</u> | <u>CECC 16 205 (206, 207)</u> | <u>- XXX</u> | <u>A</u> | <u>B</u> | <u>C</u> | <u>1</u> | <u>Y</u> |
| Denomination | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| CECC number | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Type code (CECC registration number) | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Coil voltage (according to 2.3) | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Terminals (according to 2.5) | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Mounting (according to 2.6) | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Special attributes (according to 2.3) | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Assessment Level | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

For electronic data processing the ordering data shall be written without blanks.

Note: The reference to monostable or bistable, polarized or not polarized, number and kind of contacts and general coil additives shall be given in the title of the specification.