

Electromechanical elementary relays of assessed quality —

Part 11: Blank detail specification — Relays for industrial application

The European Standard EN 61811-11:2003 has the status of a
British Standard

ICS 29.120.70

National foreword

This British Standard is the official English language version of EN 61811-11:2003. It is identical with IEC 61811-11:2002. It supersedes BS QC 160101:1987 which will be withdrawn on 2006-02-01.

The UK participation in its preparation was entrusted to Technical Committee EPL/94, General purpose relays and reed contact units, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

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Electromechanical elementary relays of assessed quality
Part 11: Blank detail specification –
Relays for industrial application
(IEC 61811-11:2002)

Relais élémentaires électromécaniques
soumis au régime d'assurance
de la qualité
Partie 11: Spécification particulière cadre -
Relais pour applications industrielles
(CEI 61811-11:2002)

Elektromechanische Elementarrelais
mit bewerteter Qualität
Teil 11: Vordruck für Bauartspezifikation -
Relais für industrielle Anwendungen
(IEC 61811-11:2002)

This European Standard was approved by CENELEC on 2003-02-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

The text of document 94/168/FDIS, future edition 1 of IEC 61811-10, prepared by IEC TC 94, All-or-nothing electrical relays, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61811-10 on 2003-02-01.

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) 2003-11-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-02-01

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given for information only.
In this standard, annex ZA is normative and annexes A and B are informative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61811-10:2002 was approved by CENELEC as a European Standard without any modification.

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ELECTROMECHANICAL ELEMENTARY RELAYS OF ASSESSED QUALITY –

Part 11: Blank detail specification – Relays for industrial application

1 General

1.1 Scope

This part of IEC 61811 is a blank detail specification applicable to electromechanical elementary (non-specified time all-or-nothing) relays of assessed quality for industrial application.

It is based on the generic specification IEC 61811-1 and the sectional specification IEC 61811-10 and selects from IEC 61810-7 the appropriate test and measurement procedures to be used in detail specifications derived from this specification. Moreover it contains a basic test schedule to be used in the preparation of such specifications.

1.2 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 60062:1992, *Marking codes for resistors and capacitors*

IEC 60068-1:1988, *Environmental testing – Part 1: General and guidance*
Amendment 1 (1992)

IEC 60068-2-10:1988, *Basic environmental testing procedures – Part 2: Tests – Test J and guidance: mould growth*

IEC 60068-2-21:1999, *Environmental testing – Part 2-21: Tests – Test U: Robustness of terminations and integral mounting devices*

IEC 60068-2-47:1999, *Environmental testing – Part 2-47: Test methods – Mounting of components, equipment and other articles for vibration, impact and similar dynamic tests*

IEC 60255-23:1996, *Electrical relays – Part 23: Contact performance*

IEC 60695-2-11, *Fire hazard testing – Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products*

IEC 60695-2-12, *Fire hazard testing – Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability test method for materials*

IEC 61810-1:1998, *Electromechanical non-specified time all-or-nothing relays – Part 1: General requirements*

IEC 61810-5:1998, *Electromechanical non-specified time all-or-nothing relays – Part 5: Insulation coordination*

IEC 61810-7:1997, *Electromechanical all-or-nothing relays – Part 7: Test and measurement procedures*

IEC 61811-1:1999, *Electromechanical non-specified time all-or-nothing relays of assessed quality – Part 1: Generic specification*

IEC 61811-10:2002, *Electromechanical elementary relays of assessed quality – Part 10: Sectional specification – Relays for industrial application*

IEC QC 001002, *Rules of procedure for the IEC Quality Assessment System for Electronic Components (IECQ)*

IEC QC 001005, *Register of firms, products and services approved under the IECQ System, including ISO 9000*

1.3 Front page of detail specification

The layout of the front page of detail specification is as follows:

[1]	QC xxxxx [2] Edition: Page 1 of
Electronic components of assessed quality [3] in accordance with: IEC 61810-7:1997 IEC 61811-1:1999 IEC 61811-10:2002	[4]
Detail specification for electromechanical non-specified time all-or-nothing relays for industrial application Type: [5] Construction: [6]	
Outline drawing [7] Dimensions in mm	Application [8]
Coil data [9] - Rated voltage: - Rated power:	
Contact data [10]	
Temperature range [11] - Operating temperature: - Storage temperature:	
Information about manufacturers who have components qualified to this detail specification is available in the current QC 001005.	

Key to front page:

The numbers between square brackets on the front page correspond to the following indications which should be given in the appropriate boxes.

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 detail specification is available.
- [2] The IECQ symbol and the number allotted to the completed detail specification by the IECQ Secretariat.
- [3] The number and the year of availability of the IEC generic and/or sectional specification and the IEC standard concerning test and measurement procedures; also national reference, if different.
- [4] If different from the IECQ 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] A brief description of the relay or range of relays.
- [6] Information on typical construction.
- [7] An outline drawing with main dimensions which are of importance for interchangeability and/or reference to the appropriate national or international document for outlines. Alternatively, this drawing may be given in an annex to the detail specification, but [7] should always contain an illustration of the general outer appearance of the relay.
- [8] Typical field of application and assessment level (if applicable).
- [9] Available nominal coil voltages and rated power.
- [10] Available contact arrangements and contact current and voltage.
- [11] Temperature range and climatic category according to IEC 60068-1 (if applicable).

2 Characteristic values of the relay

These shall be in accordance with IEC 61810-1 as applicable.

2.1 General data

Contact application category: CA ...

Contact arrangement: ...

Mass: ... g max.

Finish of the relay housing: ...

Finish of the terminals: ...

Insulation resistance: ... M Ω min.

Dielectric strength: ... V min.