

# INTERNATIONAL STANDARD

# IEC 61811-53

QC 160503

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2002-03

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## Electromechanical all-or-nothing relays –

### **Part 53: Blank detail specification – Electromechanical all-or-nothing telecom relays of assessed quality – Two change-over contacts, 14 mm × 9 mm base**

*Relais électromécaniques de tout-ou-rien –*

*Partie 53:  
Spécification particulière cadre –  
Relais électromécaniques de tout-ou-rien télécom  
soumis au régime d'assurance de la qualité –  
Deux contacts à deux directions,  
surface d'encombrement de 14 mm × 9 mm*

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## CONTENTS

FOREWORD.....	3
1 General.....	5
1.1 Scope.....	5
1.2 Normative references .....	5
1.3 Front page of the detail specification .....	7
2 Characteristic values of the relay.....	9
2.1 General data .....	9
2.2 Construction of IECQ type designation (ordering information).....	9
2.3 Coil data.....	10
2.4 Contact data.....	10
2.4.1 Electrical endurance and switching frequency.....	10
2.4.2 Static contact-circuit resistance .....	10
2.4.3 Mechanical endurance.....	10
2.4.4 Timing (without suppression device).....	11
2.5 Mounting .....	11
2.6 Environmental data .....	11
2.7 Package of relays for automatic handling (if applicable) .....	11
3 Qualification approval procedures .....	12
4 Quality conformance inspection.....	12
4.1 Formation of inspection lots.....	12
4.2 Intervals between tests.....	12
5 Marking and documentation.....	12
5.1 Marking of the relay.....	12
5.2 Marking of the package .....	13
5.3 Documentation .....	13
6 Annexes .....	13
7 Tests.....	13
7.1 Standard conditions for testing .....	13
7.2 Mounting of test specimens during the test.....	13
7.3 General conditions for testing.....	13
8 Ordering information.....	13
9 Relay reliability – Failure rate data (optional).....	13
Table 1 – Dielectric test voltages .....	9
Table 2 – Coil data .....	10
Table 3 – Loads, contact-circuit resistance limits, switching cycles and frequencies for electrical endurance and overload tests.....	10
Table 4 – Quality conformance inspection.....	14-27
Table 5 – Qualification approval.....	28-30
Table 6 – Industrial qualification .....	30

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTROMECHANICAL ALL-OR-NOTHING RELAYS –****Part 53: Blank detail specification –  
Electromechanical all-or-nothing telecom relays of assessed quality –  
Two change-over contacts, 14 mm × 9 mm base**

## FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61811-53 has been prepared by IEC technical committee 94: All-or-nothing electrical relays.

This second edition of IEC 61811-53 cancels and replaces the first edition published in 1997 and constitutes a technical revision.

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

FDIS	Report on voting
94/147/FDIS	94/161/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

The QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2007. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

## **ELECTROMECHANICAL ALL-OR-NOTHING RELAYS –**

### **Part 53: Blank detail specification – Electromechanical all-or-nothing telecom relays of assessed quality – Two change-over contacts, 14 mm × 9 mm base**

## **1 General**

### **1.1 Scope**

This part of IEC 61811 is a blank detail specification applicable to electromechanical all-or-nothing telecom relays of assessed quality. Relays according to this standard are provided for operation in telecommunication applications. However, as electromechanical all-or-nothing relays, they are also suitable for particular industrial and other applications.

This standard selects from IEC 61810-7 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 in accordance with IEC 61811-1.

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

IEC 60068-2-17:1994, *Environmental testing – Part 2: Tests: Test Q – Sealing*

IEC 60068-2-20:1979, *Environmental testing – Part 2: Tests: Test T – Soldering*  
Amendment 2 (1987)

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 60255-14:1981, *Electrical relays – Part 14: Endurance test for electrical relay contacts – Preferred values for contact loads*

IEC 60695-2-2:1991, *Fire hazard testing – Part 2: Test methods – Section 2 – Needle-flame test*

IEC 61709:1996, *Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion*

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 61811-50:2002, *Electromechanical all-or-nothing relays – Part 50: Sectional specification – Electromechanical all-or-nothing telecom relays of assessed quality*

QC 001002-2:1998, *Rules of Procedure of the IEC Quality Assessment System for Electronic Components (IECQ) – Part 2: Documentation*

QC 001002-3:1998, *Rules of Procedure of the IEC Quality Assessment System for Electronic Components (IECQ) – Part 3: Approval procedures*

QC 001005:1996, *Register of Firms, Products and Services approved under the IECQ System, including ISO 9000*

CECC 00802:1990, *Guidance document: CECC Standard Method for the Specification of Surface Mounting Components (SMDs) of Assessed Quality*

(National authorized institutions will complete this clause by making reference to any documents or specifications directly referred to in their national equivalent of this standard.)