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Standards

Irish Standard  
I.S. EN 61811-1:2015

# Electromechanical telecom elementary relays of assessed quality - Part 1: Generic specification and blank detail specification

**I.S. EN 61811-1:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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EUROPEAN STANDARD

**EN 61811-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2015

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English Version

**Electromechanical telecom elementary relays of assessed quality - Part 1: Generic specification and blank detail specification  
(IEC 61811-1:2015)**

Relais télécom électromécaniques élémentaires soumis au régime d'assurance qualité - Partie 1: Spécification générique et spécification particulière cadre  
(IEC 61811-1:2015)

Elektromechanische Telekom-Elementarrelais mit bewerteter Qualität - Teil 1: Fachgrundspezifikation und Bauartspezifikation  
(IEC 61811-1:2015)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Foreword

The text of document 94/379/FDIS, future edition 2 of IEC 61811-1, prepared by IEC/TC 94 "All-or-nothing electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61811-1:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-12-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-03-04

This document supersedes EN 61811-1:1999, EN 61811-10:2003, EN 61811-11:2003, EN 61811-50:2002, EN 61811-51:2002, EN 61811-52:2002, EN 61811-53:2002, EN 61811-54:2002 and EN 61811-55:2002.

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The text of the International Standard IEC 61811-1:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068-2-47:2005	NOTE	Harmonized as EN 60068-2-47:2005 (not modified).
IEC 61649	NOTE	Harmonized as EN 61649.
IEC 61709:2011	NOTE	Harmonized as EN 61709:2011 (not modified).
ISO 9001:2008	NOTE	Harmonized as EN ISO 9001:2008 (not modified).

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60062	2004	Marking codes for resistors and capacitors	EN 60062 + corr. January	2005 2007
IEC 60068-1	2013	Environmental testing - Part 1: General and guidance	EN 60068-1	2014
IEC 60068-2-17	1994	Basic environmental testing procedures - Part 2: Tests - Test Q: Sealing	EN 60068-2-17	1994
IEC 60068-2-20	2008	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	EN 60068-2-20	2008
IEC 60068-2-58	2004	Environmental testing - Part 2-58: Tests - Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)	EN 60068-2-58 + corr. December	2004 2004
IEC 60410	1973	Sampling plans and procedures for inspection by attributes	-	-
IEC 60695-11-5	2004	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	2005
IEC 61810	Series	Electromechanical elementary relays	EN 61810	Series
IEC 61810-1	2008 <sup>1)</sup>	Electromechanical elementary relays - Part 1: General requirements	EN 61810-1	2008
IEC 61810-2	2011	Electromechanical elementary relays - Part 2: Reliability	EN 61810-2	2011
IEC 61810-7	2006	Electromechanical elementary relays - Part 7: Test and measurement procedures	EN 61810-7	2006
ISO 2859	Series	Sampling procedures for inspection by attributes	-	

<sup>1)</sup> Superseded by IEC 61810-1:2015.

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Edition 2.0 2015-01

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Electromechanical telecom elementary relays of assessed quality –  
Part 1: Generic specification and blank detail specification**

**Relais télécom électromécaniques élémentaires soumis au régime d'assurance  
qualité –  
Partie 1: Spécification générique et spécification particulière cadre**





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**IEC 61811-1**

Edition 2.0 2015-01

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Electromechanical telecom elementary relays of assessed quality –  
Part 1: Generic specification and blank detail specification**

**Relais télécom électromécaniques élémentaires soumis au régime d'assurance  
qualité –  
Partie 1: Spécification générique et spécification particulière cadre**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### ELECTROMECHANICAL TELECOM ELEMENTARY RELAYS OF ASSESSED QUALITY –

#### Part 1: Generic specification and blank detail specification

#### FOREWORD

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International Standard IEC 61811-1 has been prepared by IEC technical committee 94: All-or-nothing electrical relays.

This second edition of IEC 61811-1 cancels and replaces

- IEC 61811-1 published in 1999,
- IEC 61811-10 published in 2002,
- IEC 61811-11 published in 2002,
- IEC 61811-50 published in 2002,
- IEC 61811-51 published in 2002,
- IEC 61811-52 published in 2002,
- IEC 61811-53 published in 2002,
- IEC 61811-54 published in 2002,

- IEC 61811-55 published in 2002,

and constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous editions:

- a) to get one document for telecom relays;
- b) update all relevant references;

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

FDIS	Report on voting
94/379/FDIS	94/383/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.

A list of all parts in the IEC 61811 series, published under the general title *Electromechanical telecom elementary relays of assessed quality*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

This publication was drafted in accordance with ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

## ELECTROMECHANICAL TELECOM ELEMENTARY RELAYS OF ASSESSED QUALITY –

### Part 1: Generic specification and blank detail specification

#### 1 Scope

This part of IEC 61811 applies to electromechanical telecom elementary relays. Relays according to this standard are provided for the operation in telecommunication applications. However, as electromechanical elementary relays, they are also suitable for particular industrial and other applications.

This standard selects from IEC 61810 series 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 this standard.

Detailed test schedules are contained in the detail specifications.

#### 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60062:2004, *Marking codes for resistors and capacitors*

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

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

IEC 60068-2-20:2008, *Environmental testing – Part 2-20: Tests – Test T: Test methods for solderability and resistance to soldering heat of devices with leads*

IEC 60068-2-58:2004, *Environmental testing – Part 2-58: Tests – Test Td: Test methods for solderability, resistance to dissolution of metallization and to soldering heat of surface mounting devices (SMD)*

IEC 60410:1973, *Sampling plans and procedures for inspection by attributes*

IEC 60695-11-5:2004, *Fire hazard testing – Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

IEC 61810 (all parts), *Electromechanical elementary relays*

IEC 61810-1:2008, *Electromechanical elementary relays – Part 1: General requirements*

IEC 61810-2:2011, *Electromechanical elementary relays – Part 2: Reliability*

IEC 61810-7:2006, *Electromechanical elementary relays – Part 7: Test and measurement procedures*

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