

# INTERNATIONAL STANDARD

**IEC**  
**62246-1**

First edition  
2002-04

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## Reed contact units –

### Part 1: Generic specification

*Contacts à lames souples en enceinte scellée –*

*Partie 1:  
Spécification générique*

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

PRICE CODE

**XA**

*For price, see current catalogue*

## CONTENTS

FOREWORD.....	4
1 General.....	5
1.1 Scope.....	5
1.2 Normative references.....	5
1.3 Units, symbols and terminology.....	7
1.4 Preferred values.....	14
1.5 Marking.....	16
1.6 Order of precedence.....	16
1.7 Precautions regarding mercury (for mercury wetted contact units).....	17
2 Quality assessment procedures.....	17
2.1 General.....	17
2.2 Qualification approval procedures.....	18
2.3 Quality conformance inspection requirements.....	18
3 Test and measurement procedures.....	19
3.1 General.....	19
3.2 Alternative procedures.....	19
3.3 Standard conditions for testing.....	19
3.4 Visual inspection and check of dimensions.....	20
3.5 Functional tests.....	20
3.6 Remanence test (see figure 3).....	22
3.7 Contact circuit resistance.....	23
3.8 Dielectric test.....	24
3.9 Insulation resistance.....	26
3.10 Operate, release, transfer or bridging, and bounce times (see figure 2).....	26
3.11 Contact sticking.....	28
3.12 Robustness of terminals.....	31
3.13 Soldering (solderability and resistance to soldering heat).....	31
3.14 Climatic sequence.....	32
3.15 Damp heat, steady state.....	33
3.16 Rapid change of temperature.....	33
3.17 Salt mist.....	34
3.18 Bump.....	34
3.19 Vibration.....	35
3.20 Shock.....	36
3.21 Acceleration test – Functional test only (applicable to dry reed contact units only).....	37
3.22 Sealing.....	38
3.23 Electrical endurance.....	38
3.24 Mechanical endurance.....	45
3.25 Maximum cycling frequency.....	47
3.26 Mounting position test (for mercury wetted contact units).....	48
3.27 Drain time test (for mercury wetted contact units).....	48
3.28 Voltage surge test.....	48
Annex A (normative) Standard test coils for reed contact units.....	50
Annex B (normative) Test systems.....	52

Figure 1 – Functional characteristics.....	9
Figure 2 – Time definitions.....	11
Figure 3 – Remanence test sequence .....	23
Figure 4 – Sequence of contact circuit resistance measurement .....	24
Figure 5 – Test circuit for the measurement of release and bounce time of a make contact unit.....	27
Figure 6 – Test circuit for the measurement of time parameters of a change-over contact unit.....	28
Figure 7 – Electrical endurance test arrangement .....	39
Figure A.1 – Configuration of test coils .....	50
Figure B.1 – Test system 1 .....	52
Figure B.2 – Test system 2 .....	52
Table 1 – Resistive loads.....	42
Table 2 – Loads.....	43
Table 3 – Cables.....	43
Table A.1 – List of standard test coils .....	50

# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## REED CONTACT UNITS –

### Part 1: Generic specification

#### 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 cooperating 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 62246-1 has been prepared by IEC technical committee 94: All-or-nothing electrical relays.

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

FDIS	Report on voting
94/156/FDIS	94/164/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.

This standard cancels and replaces IEC 60255-9 (1979).

The detail specifications (DS), the sectional specifications (SS) and the blank detail specifications (BDS) are not yet available and will be developed as the need arises.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

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

## REED CONTACT UNITS –

**Part 1: Generic specification****1 General****1.1 Scope**

This part of IEC 62246 which is the generic specification applies to dry and mercury wetted reed contact units of assessed quality. It lists the tests and measurement procedures which may be selected for use in detail specifications for such units. This standard also specifies the quality assessment procedures to be followed.

This standard applies to those reed contact units which are operated by an applied magnetic field; it is not restricted to any particular type of contact load.

NOTE 1 Since tests using a standard coil and standard resistive loads are the basis to specify and to define, this standard is currently restricted to tests of this type.

NOTE 2 For elementary relays with reed contact units, this standard is recommended to be used together with the standards IEC 61810-1 and IEC 61811-1 as applicable.

Where in this part of IEC 62246 the term “detail specification” is used, this either has the meaning defined in A.7 of QC 001001 for application within the IECQ system, or it means any appropriate document, for example manufacturer's data sheet, test specification, customer detail specification.

**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 60027, *Letter symbols to be used in electrical terminology*

IEC 60050, *International Electrotechnical Vocabulary (IEV)*

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

IEC 60068-2-1:1990, *Environmental testing – Part 2: Tests – Tests A: Cold*  
Amendment 1(1993)  
Amendment 2(1994)

IEC 60068-2-2:1974, *Environmental testing – Part 2: Tests – Tests B: Dry heat*  
Amendment 1(1993)  
Amendment 2(1994)

IEC 60068-2-3:1969, *Environmental testing – Part 2: Tests – Test Ca: Damp heat, steady state*

IEC 60068-2-6:1995, *Environmental testing – Part 2: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60068-2-7:1983, *Environmental testing – Part 2: Tests – Test Ga: Acceleration, steady state*  
Amendment 1(1986)

IEC 60068-2-11:1981, *Environmental testing – Part 2: Tests – Test Ka: Salt mist*

IEC 60068-2-13:1983, *Environmental testing – Part 2: Tests – Test M: Low air pressure*

IEC 60068-2-14:1984, *Environmental testing – Part 2: Tests – Test N: Change of temperature*  
Amendment 1(1986)

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

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

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

IEC 60068-2-27:1987, *Environmental testing – Part 2: Tests – Test Ea and guidance: Shock*

IEC 60068-2-29:1987, *Environmental testing – Part 2: Tests – Test Eb and guidance: Bump*

IEC 60068-2-30:1980, *Environmental testing – Part 2: Tests – Test Db and guidance: Damp heat, cyclic (12 + 12 hour cycle)*  
Amendment 1(1985)

IEC 60096 (series), *Radio-frequency cables*

IEC 60317-1:1990, *Specifications for particular types of winding wires – Part 1: Polyvinyl acetal enamelled round copper wire, class 05*  
Amendment 1(1997)  
Amendment 2(1997)

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

IEC 60617, *Graphical symbols for diagrams*

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

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

ISO 1000, *SI units and recommendation for the use of their multiples and of certain other units*

ITU-T Recommendation K.17:1988, *Tests on power-fed repeaters using solid-state devices in order to check the arrangements for protection from external interference*

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