

# **BUREAU OF INDIAN STANDARDS**

## **DRAFT FOR COMMENTS ONLY**

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Draft Indian Standard

### **Electromechanical elementary relays - Part 4: General and safety requirements for reed relays**

(ICS 29.120.70)

Power Systems Relays Sectional Committee  
ETD 35

Last Date for Comments  
09 March 2023

#### NATIONAL FOREWORD

This Indian Standard which is identical with IEC 61810-4 : 2020 "Electromechanical elementary relays - Part 4: General and safety requirements for reed relays" issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the Power Systems Relays Sectional Committee and approval of the Electrotechnical Division Council.

The text of the IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this standard, reference appears to International Standards for which Indian Standards also exists. The corresponding Indian Standards, which are to be substituted, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60068-2-17 : 1994 Basic environmental testing procedures - Part 2-17: Tests - Test Q: Sealing	IS 9001 (Part 8) : 1982 Guidance for Environmental Testing Part 8 Sealing Test	Technical Equivalent with IEC 60068-2-17 : 1978
IEC 61810-1 : 2015 Electromechanical elementary relays - Part 1 General and safety requirements IEC 61810-1 : 2015/AMD 1 : 2019	IS 17064 (Part 1) 2018 Electromechanical elementary relays: Part 1 general and safety requirements	Identical under dual numbering  <i>AMD 1 under wide circulation stage</i>

IEC 61810-2 2017 Electromechanical elementary relays - Part 2 Reliability	IS 17064 (Part 2) 2019 Electromechanical elementary relays: Part 2 reliability	Identical under dual numbering
IEC 61810-2-1 2017 Electromechanical elementary relays - Part 2-1 Reliability - Procedure for the verification of B 10 values	IS 17064 (Part 2/Sec 1) 2019 Electromechanical Elementary Relays Part 2 Reliability Section 1 Procedure for the verification of B I O values	Identical under dual numbering
IEC 61810-7 2006 Electromechanical elementary relays - Part 7 Test and measurement procedures	IS/IEC 61810 (Part 7) 2006 Electromechanical elementary relays - Part 7 Test and measurement procedures	Identical under single numbering
IEC 62246-1 2015 Reed switches - Part 1 Generic specification	IS 17066 (Part 1) : 2018 Reed Switches Part 1 Generic Specification	Identical under dual numbering
IEC 62246-1-1 : 2018 Reed switches - Part 1-1 Generic specification - Blank detail specification	IS/IEC 62246 (Part I/ Sec 1) : 2018 Reed switches - Part 1-1 Generic specification - Blank detail specification	Identical under single numbering

The technical committee has reviewed the provisions of the following international standards referred in this standard and decided that they are acceptable for use in conjunction with this standard.

<i>International Standard</i>	<i>Title</i>
IEC 60077-1 : 2017	Railway applications - Electric equipment for rolling stock - Part 1 : General service conditions and general rules
IEC 60077-2 : 2017	Railway applications - Electric equipment for rolling stock - Part 2 : Electrotechnical components - General rules
IEC 60571 : 2012	Railway applications - Electric equipment used on rolling stock
IEC 61373 : 2010	Railway applications - Rolling stock equipment - Shock and vibration tests
IEC 61810-10 : 2019	Electromechanical elementary relays - Part 10 : Additional functional aspects and safety requirements for high-capacity relays
IEC 62497-1 : 2010 IEC 624971 :2010/AMD 1 :2013	Railway applications - Insulation coordination - Part 1 : Basic requirements - Clearances and creepage distances for all electrical and electronic equipment
IEC 62498-1 : 2010	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test, shall be rounded off in accordance with IS 2: 1960 'Rules for rounding off numerical values (revised)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**Note:** The technical content of this document has not been enclosed, as this is identical with the corresponding IEC standard. For details, please refer the corresponding IEC 61810-4 : 2020 or kindly contact:

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