BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Electromechanical elementary relays Part 10: Additional functional aspects and safety requirements for high-capacity relays

(ICS 29.120.70)

Power Systems Relays Sectional Committee	Last Date for Comments
ETD 35	08/02/2023

NATIONAL FOREWORD

This Indian Standard which is identical with IEC 61810-10 "Electromechanical elementary relays Part 10: Additional functional aspects and safety requirements for high-capacity relays" issued by the International Electrotechnical Commission (IEC) will be 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:

International Standard	Corresponding Indian Standard	Degree of Equivalence
IEC 60028, International	IS 191 : 2007Copper -	Technical Equivalent
standard of resistance for	Specification (Fourth Revision)	
copper		
IEC 60060-1:2010 High-	IS 2071 (Part 1) : 2016 High-	Identical under dual
voltage test techniques -Part	voltage test techniques - Part 1:	numbering
1: General definitions and test	General definitions and test	
requirements	requirements	
IEC 60068-2-17 Basic	IS/IEC 60068-2-17) Basic	Identical under single
environmental testing	environmental testing procedures	numbering

procedures - Part 2-17: Tests -	- Part 2-17: Tests - Test Q:	
Test Q: Sealing	Sealing	
IEC 60068-2-27	IS 9000 (Part 7/ Sec 1) : 2018	Identical under dual
Environmental testing - Part 2-	Basic environmental testing	numbering with IEC 60068-
27: Tests - Test Ea and	procedures for electronic and	2-27:2008
guidance: Shock	electrical items: Part 7 impact	
	test: Sec 1 shock (Test Ea)	
	(Second Revision)	
IEC 60270 High-voltage test	IS/IEC 60270 High-voltage test	Identical under single
techniques - Partial discharge	techniques - Partial discharge	numbering
measurements	measurements	
IEC 60664-1 :2007 Insulation	IS 15382 (Part 1) 2014 Insulation	Identical under dual
coordination for equipment	coordination for equipment	numbering
within low-voltage systems -	within low - Voltage systems:	
Part 1: Principles,	Part 1 principles, requirements	
requirements and tests	and tests (First Revision)	
IEC 60947-1 :2007	IS/IEC 60947-1 :2007 Low -	Identical under single
Low-	Voltage switchgear and	numbering
voltage switchgear and	controlgear: Part 1 general rules	
controlgear - Part 1: General	(First Revision)	
rules		
IEC 61810-1:2015	IS 17064 (Part 1) 2018	Identical under dual
Electromechanical elementary	Electromechanical elementary	numbering
relays - Part 1: General and	relays: Part 1 general and safety	
safety requirements	requirements	

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.

International Standard	Title
IEC 60068-2-14	Environmental testing - Part 2-14: Tests - Test N: Change of
	temperature
IEC 60068-2-64:2008	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband
	random and guidance
IEC 60664-3:2016	Insulation coordination for equipment within low-voltage systems - Part
	3: Use of coating, potting or moulding for protection against pollution
IEC 60999-1	Connecting devices - Electrical copper conductors - Safety requirements
	for screw-type and screwless-type clamping units - Part 1: General
	requirements and particular requirements for clamping units for
	conductors from 0,2 mm2 up to 35 mm2 (included)
IEC 60999-2	Connecting devices - Electrical copper conductors - Safety requirements
	for screw-type and screwless-type clamping units - Part 2: Particular
	requirements for clamping units for conductors above 35 mm2 up to 300
	mm2 (included)
ISO 16750-1:2018	Road vehicles - Environmental conditions and testing for electrical and
	electronic equipment - Part 1: General
ISO 16750-2:2012	Road vehicles - Environmental conditions and testing for electrical and
	electronic equipment - Part 2: Electrical loads

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 61810-10 or kindly contact:

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