BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

Measuring relays and protection equipment – Part 187-1: Functional requirements for differential protection – Restrained and Unrestrained differential protection of motors, generators and transformers (ICS 29.120.70)

Power Systems Relays Sectional Committee	Last Date for Comments
ETD 35	08/02/2024
NATIONAL FOREWORD	

This Indian Standard which is identical with IEC 60255-187-1 "Measuring relays and protection equipment – Part 187-1: Functional requirements for differential protection – Restrained and Unrestrained differential protection Of motors, generators and transformers" 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 60255-1 Measuring relays and protection equipment -Part 1: Common requirements	IS/IEC 60255-1 Measuring relays and protection equipment – Part 1: Common requirements	Identical under single numbering
IEC 61869-2 Instrument transformers – Part 2: Additional requirements for current transformers	IS 16227 (Part 2) : 2016 Instrument transformers – Part 2: Additional requirements for current transformers	Identical under dual numbering with IEC 61869-2 : 2012

IEC 61869-9 Instrument	IS 16227 (Part 9) : 2018	Identical under dual
transformers – Part 9: Digital	Instrument transformers: Part 9	numbering with IEC
interface for instrument	digital interface for instrument	61869-9 : 2016
transformers	transformers	

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 61850-8-1,	Communication networks and systems for power utility automation – Part 8-1: Specific communication service mapping (SCSM) – Mappings
	to MMS (ISO 9506-1 and ISO 9506-2) and to ISO/IEC 8802-3

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 60255-187-1 or kindly contact:

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