

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

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Draft Indian Standard

INSULATION CO-ORDINATION
Part 2: Application Guidelines
(*Second Revision*)
(ICS 29.080.30)

High Voltage Engineering
Sectional Committee, ETD 19

Last date for Comments: 22/12/2023

NATIONAL FOREWORD

This Draft Standard which is identical with IEC 60071-2-2023 ‘Insulation co-ordination – Part 2: Application guidelines’ issued by the International Electrotechnical Commission (IEC) is proposed to be adopted by the Bureau of Indian Standards on the recommendation of the Electrical Installation 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.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60071-1: 2019, Insulation co-ordination – Part 1: Definitions, principles and rules	IS/IEC 60071-1 : 2006/2019 Insulation Coordination Part 1: Definition Principles And Rules First Revision	Identical
IEC TS 60815-1:2008, Selection and dimensioning of high-voltage insulators intended for use in polluted conditions – Part 1: Definitions, information and general principles	IS 16683 (Part 1) : 2018 IEC TS 60815-1 : 2008 Selection and dimensioning of high - Voltage insulators intended for use in polluted conditions: Part 1 definitions, information and general principles	Identical

IEC TR 60071-4:2004, Insulation co-ordination – Part 4: Computational guide to insulation coordination and modelling of electrical networks	IS/IEC 60071-4 : 2004 IEC/TR 60071-4 : 2004 Insulation Coordination Part 4 Computational Guide to Insulation Co-ordination and Modeling of Electrical Networks	Identical
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In this adopted 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:

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

<i>International Standard</i>	<i>Title</i>
IEC 60060-1:2010,	High-voltage test techniques – Part 1: General definitions and test requirements
IEC 60505:2011,	Evaluation and qualification of electrical insulation systems

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: 2022 ‘Rules for rounding off numerical values (*Second Revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Scope

This standard constitutes application guidelines and deals with the selection of insulation levels of equipment or installations for three-phase AC systems. Its aim is to give guidance for the determination of the rated withstand voltages for ranges I and II of IS/IEC 60071-1 and to justify the association of these rated values with the standardized highest voltages for equipment. This association is for insulation co-ordination purposes only. This document covers phase-to-earth, phase-to-phase and longitudinal insulation.

Note — The technical content of their document has not been enclosed as there are identical with the corresponding IEC standards for details, please refer the corresponding IEC 60071-2-2023 or kindly contact:

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