***भारतीय मानक***

***Indian Standard***

**IS/IEC 60071-2 : 2023**

**विद्युतरोधी समन्वय**

**भाग 2 अनुप्रयोग के दिशा-निर्देश**

*(दूसरा पुनरीक्षण)*

**Insulation Co-ordination**

**Part 2 Application guidelines**

*(Second Revision)*

ICS 29.080.30

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**September 2024 Price Group**

High Voltage Engineering Sectional Committee, ETD 19

NATIONAL FOREWORD

This Standard (Part 2) (Second Revision) which is identical with IEC 60071-2: 2023 ‘Insulation co-ordination – Part 2 Application guidelines’ issued by the International Electrotechnical Commission (IEC) was adopted by the Bureau of Indian Standards on the recommendation of the High Voltage Engineering Sectional Committee and approval of the Electrotechnical Division Council.

This standard was originally published in 2012 and subsequently revised in 2021 identical with IEC 60071-2: 2018. This second revision has been undertaken to align it with the latest version of IEC 60071-2: 2023.

This Indian Standard is published in several parts. The other parts in this series are:

Part 1 Insulation co - Ordination: Part 1 definitions, principles and rules

Part 4 Insulation Coordination Part 4 Computational Guide to Insulation Co-ordination and Modeling of Electrical Networks

Part 5 Insulation Co-ordination Part 5 Procedures for High-Voltage Direct Current (HVDC) Converter Stations

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:

1. Wherever the words ‘International Standard’ appears referring to this standard, they should be read as ‘Indian Standard’.
2. 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 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:

|  |  |  |
| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| IEC 60071-1: 2019, Insulation co-ordination – Part 1: Definitions, principles and rules | IS/IEC 60071-1: 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 TR 60071-4: 2004  Insulation Coordination Part 4 Computational Guide to Insulation Co-ordination and Modeling of Electrical Networks | Identical |

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.

|  |  |
| --- | --- |
| *International Standard* | *Title* |
| 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 |

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page number given here are not the same as in the IEC Publication.

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.