**IS 15382 (Part 4): 2024**

***भारतीय मानक***

***Indian Standard***

**IEC 60664-4: 2005**

**निम्न-वोल्टता पद्धतियों के भीतर उपकरणों के लिए विद्युतरोधी समन्वय**

**भाग 4 उच्च – आवृति वोल्टेज दाब को ध्यान में रखते हुए**

*(दूसरा पुनरीक्षण)*

**Insulation Coordination for Equipment within Low-Voltage Systems**

Part 4 Consideration of High-frequency Voltage Stress

*(Second Revision)*

ICS 29.080.30

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**July 2024 Price Group**

High Voltage Engineering Sectional Committee, ETD 19

NATIONAL FOREWORD

This Standard (Part 4) (Second Revision) which is identical with IEC 60664-4: 2005 ‘Insulation co-ordination for equipment within low-voltage systems – Part 4 Consideration of High-Frequency Voltage Stress’ 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 2003 and subsequently revised in 2017. This second revision has been undertaken to align it with the latest version of IEC 60664-4: 2005.

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 60112: 2003, Method for determining the comparative and the proof tracking indices of  solid insulating materials under moist conditions | IS 2824: 2007  IEC 60112: 2003 Method for the determination of the proof and the comparative tracking indices of solid insulating materials (Second Revision) | Identical |
| IEC 60664-1: 1992, Insulation coordination for equipment within low-voltage systems: Part 1: Principles, requirements and tests | IS 15382 (Part 1): 2014/  IEC 60664-1:2020 Insulation coordination for equipment within low - Voltage systems: Part 1 principles, requirements and tests (First Revision) | Identical with IEC 60664-1: 2020 |

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 60664-5:2003 | Insulation coordination for equipment within low-voltage systems: A comprehensive method for determining clearances and creepage distances equal to or less than 2 mm |
| IEC Guide 104:1997 | The preparation of safety publications and the use of basic safety  publications and group safety publications |

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.