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*Draft Indian Standard*

**High-voltage switchgear and controlgear –  
Part 207: Seismic qualification for gas-insulated switchgear assemblies, metal  
enclosed and solid-insulation enclosed switchgear for rated voltages above 1 kV  
(Second Revision)**

ICS 29.130.10

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High Voltage Switchgear and Controlgear  
Sectional Committee, ETD 08

Last date of receipt of comments:  
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NATIONAL FOREWORD

This draft Indian Standard (Second Revision) which is identical with IEC 62271-207:2023 “High-voltage switchgear and controlgear – Part 207: Seismic qualification for gas-insulated switchgear assemblies, metal enclosed and solid-insulation enclosed switchgear for rated voltages above 1 kV” issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the High Voltage Switchgear and Controlgear Sectional Committee and approval of the Electrotechnical Division Council.

This standard was first published in 2011 and was identical with IEC 62271-207: 2007. It was later revised in 2018 identical to IEC 62271-207: 2012. This revision has now been undertaken to align this standard with the latest international practices.

This edition includes the following significant technical changes with respect to the previous edition:

- Modification of the minimum voltage rating from 52 kV to above 1 kV in order to include medium voltage;
- various enhancements of test procedures;
- addition of minimum contents for seismic qualification reports;
- scope extended to cover DC GIS including and above 100 kV.

The text of IEC Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear 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 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:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60099-4:2014, Surge arresters – Part 4: Metal-oxide surge arresters without gaps for a.c. Systems	IS 15086 (Part 4) : 2017 IEC 60099-4 : 2014 Surge arresters: Part 4 metal - Oxide surge arresters without gaps for A.C. systems	Identical With IEC 60099-4:2014
IEC 62271-1:2017, High-voltage switchgear and controlgear – Part 1: Common specifications for alternating current switchgear and controlgear	IS/IEC 62271-1 : 2017 IEC 62271-1:2017+AMD1:2021 CSV High-Voltage switchgear and controlgear part 1 common specifications for alternating current switchgear and controlgear	Identical With IEC 62271-1:2017
IEC 62271-200:2021, High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	IS/IEC 62271-200 : 2021 IEC 62271-200:2021 High-voltage switchgear and Controlgear Part 200 AC metal-enclosed switchgear and Controlgear for rated voltages above 1 kV and up to and Including 52 kV	Identical With IEC 62271-200:2021
IEC 62271-201:2014, High-voltage switchgear and controlgear – Part 201: AC solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	IS/IEC 62271-201 : 2014 IEC 62271-201 : 2014 High-Voltage Switchgear and Controlgear Part 201 ac Solid-Insulation Enclosed Switchgear and Controlgear for Rated Voltages Above 1 kV up to and Including 52 kV ( <i>First Revision</i> )	Identical With IEC 62271-201:2014
IEC 62271-203:2022, High-voltage switchgear and controlgear – Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	IS/IEC 62271-203 : 2022 IEC 62271-203:2022 High-voltage switchgear and controlgear Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	Identical With IEC 62271-203:2022
ISO 2041 Mechanical vibration, shock and condition monitoring – Vocabulary	IS/ISO 2041 : 2018 Mechanical Vibration, Shock and Condition Monitoring — Vocabulary ( <i>First Revision</i> )	Identical With ISO 2041: 2018

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 60068-2-47	Environmental testing – Part 2-47: Tests – Mounting of specimens for vibration, impact and similar dynamic tests

IEC 60068-2-57:2013	Environmental testing – Part 2-57: Tests – Test Ff: Vibration – Time-history and sine-beat method
IEC 60068-3-3:2019	Environmental testing – Part 3-3: Supporting documentation and guidance – Seismic test methods for equipment

Only the English language text has been retained while adopting it in this Indian Standard, and as such, the page numbers 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 or analysis shall be rounded off in accordance with IS 2: 2022 'Rules for rounding of 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.

Note: The technical content of the document is not available on website. For details, please refer the corresponding IEC 62271-207:2023 or kindly contact:

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