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Draft Indian Standard

Low-Voltage Switchgear and Controlgear Assemblies
Part 4 Particular requirements for assemblies for construction sites (ACs)

(*First Revision*)

ICS 29.130.20

Low Voltage Switchgear and Controlgear Sectional Committee, ETD 07	Last date of receipt of comments**:** 27-January-2025

NATIONAL FOREWORD

This draft Indian Standard (First Revision) which is identical with IEC 61439-4: 2024 "Low-Voltage Switchgear and Controlgear Assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)" issued by the International Electrotechnical Commission (IEC) will be adopted by the Bureau of Indian Standards on the recommendation of the Low Voltage Switchgear and Controlgear Sectional Committee and approval of the Electrotechnical Division Council.

This standard was first published in 2019 and was identical with IEC 61439-4: 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:

– alignment with IS/IEC 61439-1:2020 regarding the structure and technical content, as applicable.

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:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
IEC 60068-2-27, Environmental testing − Part 2-27: Tests – Test	IS 9000 (Part 7/Sec 1): 2018 / IEC 60068-2-27: 2008 Basic environmental	Identical With IEC 60068-2-27: 2008

Ea and guidance: Shock	testing procedures for electronic and electrical items: Part 7 impact test: Sec 1 shock (Test Ea) (*Second Revision*)	
IEC 60068-2-42, Environmental testing − Part 2-42: Tests – Test Kc: Sulphur dioxide test for contacts and connections	IS/IEC 60068-2-42: 2003 Environmental testing - Part 2 Tests Section 42 Test Kc: Sulphur dioxide test for contacts and connections	Identical With IEC 60068-2-42: 2003
IEC 61439-1:2020, Low-voltage switchgear and controlgear assemblies – Part 1: General rules	IS/IEC 61439-1: 2020 Low-voltage switchgear and controlgear assemblies Part 1: General rules (*First Revision*)	Identical With IEC 61439-1: 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 60364-7-704:2017	Low-voltage electrical installations − Part 7-704: Requirements for special installations or locations – Construction and demolition site installations
IEC 61558-2-23	Safety of transformers, reactors, power supply units and combinations thereof – Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites

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 61439-4: 2024 or kindly contact:

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