



DRAFT TANZANIA STANDARD

(Draft for comments only)

**High-voltage switchgear and controlgear - Part 111:
Automatic circuit reclosers for alternating current systems
up to and including 38 kV**

TANZANIA BUREAU OF STANDARDS



1 National Foreword

This draft Tanzania Standard has been prepared by the TBS Electrical Equipment Technical Committee, under the supervision of the Electrotechnical Divisional Standards Committee (EDC)

This draft Tanzania Standard is identical to International Standard **IEC 62271-111:2019** *High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV*, which has been prepared by the International Electrotechnical Commission.

2 Terminology and conventions

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

- 1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use "full point" on the baseline as the decimal marker.
- 2) Where the words "International Standard(s)" appear, referring to this standard they should read "Tanzania Standard(s)"



HIGH VOLTAGE SWITCHGEAR AND CONTROLGEAR –

Part 1: Automatic circuit reclosers for alternating
current systems up to and including 38 kV

1 Scope

This part of IEC 62271 applies to all overhead, pad-mounted, dry vault and submersible single or multi-pole alternating current automatic circuit reclosers for rated maximum voltages above 1 000 V and up to and including 38 kV.

Devices that require a dependent manual operation are not covered by this document.

In order to simplify this document where possible, the term recloser (or reclosers) has been substituted for automatic circuit recloser(s) or cutout mounted recloser(s) or both.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE In this dual logo standard, normative references are made to both IEEE and IEC standards. In each case,

the specifications in two referenced standards have been judged by the Maintenance Team to be technically equal

even though the exact wording may be different. Differences in the wording are considered to be editorial only.

Where the two standards are not technically equal, the differences are resolved in the text.

IEC 60050-151, International Electrotechnical Vocabulary – Part 151:Electrical and magnetic devices (available at: <http://www.electropedia.org>)

IEC 60050-441, International Electrotechnical Vocabulary – Chapter 441: Switchgear, controlgear and fuses (available at: <http://www.electropedia.org>)

IEC 60071-2:2018, Insulation co-ordination – Part 2: Application guidelines

IEC 60255-26:2013, Measuring relays and protection equipment – Part 26: Electromagnetic compatibility requirements

IEC 60270, High-voltage test techniques – Partial discharge measurements

IEC 60480, Guidelines for the checking and treatment of sulfur hexafluoride (SF₆) taken from



electrical equipment and specification for its re-use

IEC 60004-18, Electromagnetic compatibility (EMC) – Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test

IEC 62271-1:2017, High-voltage switchgear and controlgear – Part 1: Common specifications for alternating current switchgear and controlgear

1 Notes in text, tables, and figures of a standard are given for information only and do not contain requirements

needed to implement the standard.

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IEEE Std C37.60-2018

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IEC 62271-4, High-voltage switchgear and controlgear – Part 4: Handling procedures for sulphur hexafluoride (SF₆) and its mixtures

IEC 62271-100, High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers

IEEE Std 4™, IEEE Standard Techniques for High-Voltage Testing

IEEE Std C37.90.1™-2012, IEEE Standard Surge Withstand Capability (SWC) Tests for Relays and Relay Systems Associated with Electric Power Apparatus

IEEE Std C37.301™, IEEE Standard for High-Voltage Switchgear (Above 1 000 V) Test Techniques – Partial Discharge Measurements