



## DRAFT TANZANIA STANDARD

(Draft for comments only)

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**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**

**TANZANIA BUREAU OF STANDARDS**

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## 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 62271-200:2021 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, 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 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV

### 1 Scope

This standard is applicable to prefabricated metal-enclosed switchgear and controlgear assemblies designed for:

- alternating current;
- rated voltages above 1 kV and up to and including 52 kV;
- service frequencies up to and including 60 Hz;
- indoor and outdoor installation.

The assembly can include air-insulated and/or fluid-filled compartments.

For components installed in a metal-enclosed switchgear and controlgear, this document supplements or even replaces in some cases, the requirements as stated by the individual product standards.

The list of components which can be inside the metal-enclosed switchgear and controlgear is not limited to the ones explicitly cited in this document.

### 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.

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

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

IEC 60060-1:2010, High-voltage test techniques – Part 1: General definitions and test requirements

IEC 60270:2000, High-voltage test techniques – Partial discharge measurements

IEC 60270:2000/AMD1:2015



IEC 60529:1989, Degrees of protection provided by enclosures (IP Code)

IEC 60529:1989/AMD1:1999

IEC 60529:1989/AMD2:2013

IEC 62262:2002, Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)

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

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IEC 62271-200:2021 □ IEC 2021 – 11 –

IEC 62271-100:2021, High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers

IEC 62271-102:2018, High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches

IEC 62271-103:2021, High-voltage switchgear and controlgear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV

IEC 62271-105:2021, High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV

IEC 62271-106:2021, High-voltage switchgear and controlgear – Part 106: Alternating current contactors, contactor-based controllers and motor-starters

IEC 62271-107:2019, High-voltage switchgear and controlgear – Part 107: Alternating current fused circuit-switchers for rated voltages above 1 kV up to and including 52 kV

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

IEC 62271-203:2011, High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV

IEC 62271-213:2021, High-voltage switchgear and controlgear – Part 213: Voltage detecting and indicating system

IEC 62271-215:2021, High-voltage switchgear and controlgear – Part 215: Phase comparator used with VDIS



IEC 62271-37-013:2015, High-voltage switchgear and controlgear – Part 37-013:  
Alternating-current generator circuit-breakers

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