



DRAFT TANZANIA STANDARD

(Draft for comments only)

Surge arresters – Part 4: Metal oxide surge arresters without gaps for ac systems.

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 60099-4:2014** *Surge arresters – Part 4: Metal oxide surge arresters without gaps for ac systems*, 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)”



SURGE ARRESTERS –Part 4: Metal-oxide surge arresters
without gaps for a.c. systems

1 Scope

This part of IEC 60099 applies to non-linear metal-oxide resistor type surge arresters without spark gaps designed to limit voltage surges on a.c. power circuits with U_s above 1 kV.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

IEC 60060-2, High-voltage test techniques – Part 2: Measuring systems

IEC 60068-2-11:1981, Environmental testing – Part 2-11: Tests – Test kA: Salt mist

IEC 60068-2-14, Environmental testing – Part 2-14: Tests – Test N: Change of temperature

IEC 60071-1, Insulation co-ordination – Part 1: Definitions, principles and rules

IEC 60071-2:1996, Insulation co-ordination – Part 2: Application guide

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

IEC 60507:2013, Artificial pollution tests on high-voltage insulators to be used on a.c. systems

IEC TS 60815-1:2008, Selection and dimensioning of high voltage insulators intended for use in polluted conditions – Part 1: Definitions, information and general principles

IEC TS 60815-2:2008, Selection and dimensioning of high voltage insulators intended for use in polluted conditions – Part 2: Ceramic and glass insulators for a.c. systems

IEC 62217, Polymeric insulators for indoor and outdoor use – General definitions, test methods and acceptance criteria

IEC 62271-1:2007, High-voltage switchgear and controlgear – Part 1: Common specifications

IEC 62271-200:2011, High-voltage switchgear and controlgear – Part 200: A.C. metal 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

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ISO 4287, Geometrical Product Specifications (GPS) – Surface texture: Profile method – Terms, definitions and surface texture parameters

ISO 4892-1, Plastics – Methods of exposure to laboratory light sources - Part 1: General guidance

ISO 4892-2, Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps

ISO 4892-3, Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps

CISPR/TR 18-2, Radio interference characteristics of overhead power lines and high-voltage equipment – Part 2: Methods of measurement and procedure for determining limits