Surge arresters – Part 4: Metal oxide surge arresters without gaps for ac systems.
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 Us 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 60068-2-14, Environmental testing – Part 2-14: Tests – Test N: Change of temperature
IEC 60071-1, Insulation co-ordination – Part 1: Definitions, principles and rules
IEC 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 62271-200:2011, 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