



DRAFT TANZANIA STANDARD

(Draft for comments only)

Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows

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 60335-2-103:2015+AMD1:2017+AMD2:2019** *Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows*, 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)”



HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –SAFETY –Part 2-103: Particular requirements for drives for gates, doors and windows

1 Scope

This clause of Part 1 is replaced by the following.

This International Standard deals with the safety of electric drives for horizontally and vertically moving gates, doors, garage doors and windows for household and similar purposes, their rated voltage being not more than 250 V for single-phase drives and 480 600 V for other drives. It also covers the hazards associated with the movement of the driven part.

Battery-operated drives and other d.c. supplied drives are within the scope of this standard.

Dual supply drives, either mains-supplied or battery-operated, are regarded as batteryoperated drives when operated in the battery mode.

Drives not intended for normal household use but which nevertheless may be a source of danger to the public, such as drives intended to be used by laymen in shops, offices, hotels, restaurants, hospitals, in industry and on farms, are within the scope of this standard.

Requirements for drives for doors that may be used in emergency routes and exits are given in Annex AA.

NOTE 101 Examples of drives within the scope of this standard are drives for

- folding doors;
- revolving doors;
- rolling doors;
- roof windows;
- sectional overhead doors;
- swinging and sliding gates or doors.

Examples are shown in Figure 101.

NOTE 102 Drives may be supplied with a driven part.

As far as is practicable, this standard deals with the common hazards presented by drives that are encountered by all persons in and around the home. However, in general, it does not



take into account

- persons (including children) whose
 - physical, sensory or mental capabilities; or
 - lack of experience and knowledge

prevents them from using the drive safely without supervision or instruction;

- children playing with the drive.

NOTE 103 Attention is drawn to the fact that in many countries additional requirements are specified by the

national authorities responsible for the protection of labour and similar authorities.

NOTE 104 This standard does not apply to drives

- for vertically moving garage doors for residential use (60335-2-95);

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- for shutters covering doors and windows (including locations where the door is set back from the shutter),

awnings, blinds and similar equipment (60335-2-97);

- intended exclusively to be used by trained persons in commercial and industrial premises;

- for specific purposes, such as fire doors;

- for natural smoke exhaust ventilators not used as windows (ISO 21927-2);

- intended to be used in locations where special conditions prevail, such as the presence of a corrosive or

explosive atmosphere (dust, vapour or gas).

NOTE 105 This standard does not apply to movement of a pedestrian door where such movement is based solely

on stored energy.

2 Normative references

This clause of Part 1 is applicable except as follows.



Addition:

IEC 60068-2-52, Environmental testing – Part 2: Tests – Test Kb: Salt mist, cyclic (sodium, chloride solution)

IEC 60825-1:2014, Safety of laser products – Part 1: Equipment classification and requirements

IEC 61496-3:2008, Safety of machinery – Electro-sensitive protective equipment – Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR)