

Edition 5.0 2023-12

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



Household and similar electrical appliances – Safety –
Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

Appareils électrodomestiques et analogues – Sécurité –
Partie 2-95: Exigences particulières pour les motorisations de portes de garage à ouverture verticale, pour usage résidentiel





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IFC Secretariat Tel.: +41 22 919 02 11

3, rue de Varembé info@iec.ch CH-1211 Geneva 20 www.iec.ch

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#### INTERNATIONAL ELECTROTECHNICAL COMMISSION

## HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

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IEC 60335-2-95 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2019. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) the text has been aligned with IEC 60335-1:2020;
- b) scope includes DC-supplied appliances and battery-operated appliances (Clause 1);
- c) some notes have been converted to normative text (Clause 1, 7.12.1, 7.101, 20.103, 20.107, 22.104);

- d) application of test probe 19 has been introduced (8.1.1, 20.2);
- e) addition of surface temperatures for external accessible surfaces (11.3, 11.8);
- f) requirements are added for drives intended for permanent connection delivered with a connector to ease the installation (22.110, 24.1.101, 25.3);
- g) clarification for connectors that are non-detachable once engaged (24.1.5).

The text of this International Standard is based on the following documents:

Draft	Report on voting
61/7015/FDIS	61/7080/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at <a href="https://www.iec.ch/members\_experts/refdocs">www.iec.ch/members\_experts/refdocs</a>. The main document types developed by IEC are described in greater detail at <a href="https://www.iec.ch/standardsdev/publications">www.iec.ch/standardsdev/publications</a>.

A list of all parts of the IEC 60335 series, under the general title: Household and similar electrical appliances – Safety, can be found on the IEC website.

This part 2 is to be used in conjunction with the latest edition of IEC 60335-1 and its amendments unless that edition precludes it; in that case, the latest edition that does not preclude it is used. It was established on the basis of the sixth edition (2020) of that standard.

NOTE 1 When "Part 1" is mentioned in this standard, it refers to IEC 60335-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60335-1, so as to convert that publication into the IEC standard: Particular requirements for drives for vertically moving garage doors for residential use.

When a particular subclause of Part 1 is not mentioned in this part 2, that subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE 2 The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

NOTE 3 The following print types are used:

- requirements: in roman type;
- test specifications: in italic type;
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- · reconfirmed,
- · withdrawn, or
- · revised.

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It is the recommendation of the committee that the content of this publication be adopted for implementation nationally not earlier than 12 months or later than 36 months from the date of publication.

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#### INTRODUCTION

It has been assumed in the drafting of this International Standard that the execution of its provisions is entrusted to appropriately qualified and experienced persons.

Guidance documents concerning the application of the safety requirements for appliances can be accessed via TC 61 supporting documents on the IEC website

https://www.iec.ch/tc61/supportingdocuments

This information is given for the convenience of users of this International Standard and does not constitute a replacement for the normative text in this standard.

This standard recognizes the internationally accepted level of protection against hazards such as electrical, mechanical, thermal, fire and radiation of appliances when operated as in normal use taking into account the manufacturer's instructions. It also covers abnormal situations that can be expected in practice and takes into account the way in which electromagnetic phenomena can affect the safe operation of appliances.

This standard takes into account the requirements of IEC 60364 as far as possible so that there is compatibility with the wiring rules when the appliance is connected to the supply mains. However, national wiring rules can differ.

If an appliance within the scope of this standard also incorporates functions that are covered by another part 2 of IEC 60335, the relevant part 2 is applied to each function separately, as far as is reasonable. If applicable, the influence of one function on the other is taken into account.

When a part 2 standard does not include additional requirements to cover hazards dealt with in Part 1, Part 1 applies.

NOTE 1 This means that the technical committees responsible for the part 2 standards have determined that it is not necessary to specify particular requirements for the appliance in question over and above the general requirements.

This standard is a product family standard dealing with the safety of appliances and takes precedence over horizontal and generic standards covering the same subject.

NOTE 2 Horizontal publications, basic safety publications and group safety publications covering a hazard are not applicable since they have been taken into consideration when developing the general and particular requirements for the IEC 60335 series of standards.

An appliance that complies with the text of this standard will not necessarily be considered to comply with the safety principles of the standard if, when examined and tested, it is found to have other features that impair the level of safety covered by these requirements.

An appliance employing materials or having forms of construction differing from those detailed in the requirements of this standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be considered to comply with the standard.

NOTE 3 Standards dealing with non-safety aspects of household appliances are:

- IEC standards published by TC 59 concerning methods of measuring performance;
- CISPR 11, CISPR 14-1 and relevant IEC 61000-3 series standards concerning electromagnetic emissions;
- CISPR 14-2 concerning electromagnetic immunity;
- IEC standards published by TC 111 concerning environmental matters.

### HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – SAFETY –

### Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use

#### 1 Scope

This clause of Part 1 is replaced by the following.

This part of IEC 60335 deals with the safety of electric **drives** for garage doors for residential use that open and close in a vertical direction, the **rated voltage** of the **drives** being not more than 250 V for single-phase appliances and 480 V for other appliances, including direct current (DC) supplied appliances and **battery-operated appliances**. It also covers the hazards associated with the movement of these electrically driven garage doors.

Examples of garage doors are shown in Figure 101.

The drive can be supplied with a garage door.

This standard also applies to **entrapment protection devices** for use with **drives**. It does not cover hazards related to the mechanisms of the door itself.

As far as is practicable, this standard deals with the common hazards presented by appliances that are encountered by all persons in and around the home. However, in general, it does not take into account playing with the appliance by young children, but recognizes that children can be in the vicinity of the garage door.

For appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can be necessary. In many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour, the national water supply authorities and similar authorities.

This standard does not apply to drives

- for shutters, awnings, blinds and similar equipment (IEC 60335-2-97);
- for gates, doors and windows (IEC 60335-2-103);
- for commercial and industrial purposes;
- intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas).

#### 2 Normative references

This clause of Part 1 is applicable except as follows.

#### Addition:

IEC 60068-2-52:2017, Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)

IEC 60584-1, Thermocouples – Part 1: EMF specifications and tolerances

IEC 61984:2008, Connectors - Safety requirements and tests

#### 3 Terms and definitions

This clause of Part 1 is applicable except as follows.

#### 3.1 Definitions relating to physical characteristics

#### 3.1.9 Modification:

Replace the first paragraph with the following:

operation of the drive under the following conditions:

- drives supplied without a door are operated with their rated load.
- drives supplied with a door are operated with the door installed in accordance with the instructions.

#### 3.1.101

#### rated load

force or torque assigned to the drive by the manufacturer

#### 3.5 Definitions relating to types of appliances

#### 3.5.101

#### drive

motor and other components that control the movement of the door

Note 1 to entry: Examples of components are gears, controls, brakes and entrapment protection systems.

#### 3.5.102

#### automatic drive

drive that operates the door in at least one direction without intentional activation by the user

#### 3.7 Definitions relating to safety components

#### 3.7.101

#### biased-off switch

hold to run device that initiates and maintains the **drive** movement only as long as the manual control is actuated by the user

#### 3.7.102

#### entrapment protection system

part of the **drive** that protects against trapping which could result in the human body being squeezed or crushed by the door

Note 1 to entry: Trapping in the garage is covered by the manual release of 20.109.

Note 2 to entry: An **entrapment protection system** may be incorporated in the motor assembly or may be installed separately. It may consist of one or more devices, such as pressure sensitive edges, passive infrared, active light sensing devices or a **biased-off switch**.

#### 4 General requirement

This clause of Part 1 is applicable.

#### 5 General conditions for the tests

This clause of Part 1 is applicable except as follows.

#### **5.2** Addition:

When a test has to be carried out with a door, the door specified for installation with the **drive** that gives the most unfavourable conditions for the test is used. An artificial load may be used to simulate the door for some of the tests. The **drive** is adjusted in accordance with the instructions.

#### **5.5** Addition:

Wicket doors are kept closed during the tests.

#### 6 Classification

This clause of Part 1 is applicable except as follows.

#### **6.1** *Modification:*

Replace the first paragraph with the following:

Drives shall be class I, class II or class III.

#### **6.2** Addition:

Drives intended to be exposed to outdoor conditions shall be at least IPX4.

### 7 Marking and instructions

This clause of Part 1 is applicable except as follows.

IEC 60335-2-95:20

### **7.1**<sub>hd.</sub> *Modification*: talog/standards/iec/7e237b7e-7b6b-444d-b195-370a30612998/iec-60335-2-95-2023

Replace the third dashed item of the first paragraph with the following:

**Drives** shall be marked with the **rated power input**.

Addition:

Drives supplied without a door shall be marked with the rated load in N or in Nm.

#### **7.12** Addition:

The instructions shall state the substance of the following:

WARNING: Important safety instructions. It is important for the safety of persons to follow all instructions. Save these instructions.

The instructions shall include the substance of the following:

- do not allow children to play with door controls. Keep remote controls away from children;
- take care when operating the manual release since an open door may fall rapidly due to weak or broken springs, or being out of balance;
- frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury;

- each month check that the drive reverses when the door contacts a 40 mm high object placed on the floor. Adjust if necessary and recheck since an incorrect adjustment may present a hazard;
- disconnect the supply when cleaning or carrying out other maintenance.

The instructions shall include the following information:

- details on how to use the manual release;
- information concerning the adjustment of the door and drive (when applicable).

The instruction for other than automatic drives shall state the substance of the following:

Watch the moving door and keep people away until the door is completely opened or closed.

The instructions for **automatic drives** shall state the substance of the following:

WARNING: Automatic door – The door may operate unexpectedly, therefore do not allow anything to stay in the path of the door.

#### **7.12.1** *Addition:*

The installation instructions shall state the substance of the following:

WARNING: Important safety instructions. Follow all instructions since incorrect installation can lead to severe injury.

The installation instructions shall include details for the installation of the **drive** and its associated components, including the minimum height for installation of parts of **drives** intended to be mounted more than 850 mm, 1,8 m or 2,3 m or at least 2,5 m above the floor in accordance with 8.1.1, Table 101, 20.2, 20.103, B.22.3 or B.22.4.

For **drives** supplied without a door, the installation instructions shall indicate the type, size and mass of doors for which the **drive** is intended to be used.

The installation instructions shall include the substance of the following: 12998/icc-60335-2-95-2023

- before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, not needed for powered operation;
- before installing the drive, check that the door is in good mechanical condition, correctly balanced and opens and closes properly;
- install the actuating member for the manual release at a height less than 1.8 m;
- install any fixed control, other than key-operated switches, at a height of at least 1,5 m;
- install any fixed control within sight of the door but away from moving parts;
- permanently fix the labels warning against entrapment in a prominent place or near any fixed controls;
- permanently fix the label concerning the manual release adjacent to its actuating member;
- after installation, ensure that the mechanism is properly adjusted and that the drive reverses when the door contacts a 40 mm high object placed on the floor;
- the drive must not be used with a door incorporating a wicket door (unless the drive cannot be operated with the wicket door open);
- after installation, ensure that parts of the door do not extend over public footpaths or roads.

The instructions shall include necessary information for the safe handling of a **drive** weighing more than 20 kg. This information shall describe how to use the handling means, such as hooks and ropes.

For **drives** intended for permanent connection to fixed wiring, delivered with a separate connector to ease the installation and establish the supply connection, the instructions shall state the substance of the following:

Only use the supplied connector when installing the drive.

#### **7.15** Addition:

The markings shall also be provided with the instructions. In addition, the marking relevant to name, trademark or identification mark, of the manufacturer or responsible vendor and the model or type reference can also be retrieved from a label, such as a matrix barcode, visible on the appliance after installation.

**7.101 Drives** shall be supplied with a label suitable for permanent fixing. For **automatic drives**, the label shall state the substance of the following:

WARNING: Automatic drive – Keep away from the area of the door since it may operate unexpectedly.

For other **drives**, the label shall include a warning sign having a height of at least 60 mm. The label shall also include the substance of the following:

WARNING: Keep children away when the door is moving.

An example of a suitable warning sign is shown in Figure 102.

Compliance is checked by inspection and measurement.

**7.102 Drives** that use contact sensing as an **entrapment protection system** shall be supplied with a label that states the substance of the following:

WARNING: Risk of entrapment – Regularly check and, if necessary, adjust to ensure that, when the door contacts a 40 mm high object placed on the floor, the door reverses or the object can be freed. and ards/iee/7e237b7e-7b6b-444d-b195-370a30612998/iee-60335-2-95-2023

Compliance is checked by inspection.

**7.103 Drives** shall be supplied with a label suitable for permanent fixing that describes how to use the manual release.

Compliance is checked by inspection.

- **7.104** If the **drive** is intended to be installed by the user, the packaging shall indicate the type of door, including its size and mass, that the **drive** is intended to operate and, if applicable, that the **drive**
- is intended to be installed at least 2,5 m above the floor or other access level;
- can be used with doors having openings greater than 50 mm in diameter;
- is intended for automatic operation.

Compliance is checked by inspection.

#### 8 Protection against access to live parts

This clause of Part 1 is applicable except as follows.

#### 8.1.1 Replacement: