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# INTERNATIONAL STANDARD



GROUP ENERGY EFFICIENCY PUBLICATION

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**Safety of transformers, reactors, power supply units and combinations thereof –  
Part 2-8: Particular requirements and tests for transformers and power supply  
units for bells and chimes**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

|   |    |
|---|----|
| FOREWORD.....   | 3  |
| INTRODUCTION.....   | 2  |
| 1 Scope.....  | 7  |
| 2 Normative references .....  | 8  |
| 3 Terms and definitions .....   | 8  |
| 4 General requirements .....  | 9  |
| 5 General notes on tests .....  | 9  |
| 6 Ratings.....  | 9  |
| 7 Classification.....   | 9  |
| 8 Marking and other information .....   | 10 |
| 9 Protection against electric shock .....   | 10 |
| 10 Change of input voltage setting .....  | 12 |
| 11 Output voltage and output current under load .....   | 12 |
| 12 No-load output voltage .....   | 12 |
| 13 Short-circuit voltage.....   | 13 |
| 14 Heating.....   | 13 |
| 15 Short-circuit and overload protection .....  | 14 |
| 16 Mechanical strength .....  | 14 |
| 17 Protection against harmful ingress of dust, solid objects and moisture .....                               | 14 |
| 18 Insulation resistance, dielectric strength and leakage current .....                                       | 14 |
| 19 Construction .....   | 14 |
| 20 Components .....   | 16 |
| 21 Internal wiring.....   | 16 |
| 22 Supply connection and other external flexible cables or cords .....  | 16 |
| 23 Terminals for external conductors.....   | 16 |
| 24 Provisions for protective earthing.....  | 16 |
| 25 Screws and connections .....   | 17 |
| 26 Creepage distances, clearances and distances through insulation.....                                       | 17 |
| 27 Resistance to heat, fire and tracking.....   | 17 |
| 28 Resistance to rusting.....   | 17 |
| Annexes .....   | 18 |
| Annex F (normative) Requirements for manually operated switches which are parts of transformers assembly..... | 18 |
| Bibliography.....   | 19 |
| Table 101 – Symbols indicating the kind of transformer .....  | 11 |

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY OF TRANSFORMERS, REACTORS,  
POWER SUPPLY UNITS AND COMBINATIONS THEREOF –****Part 2-8: Particular requirements and tests for transformers  
and power supply units for bells and chimes**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

**This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 61558-2-8:2010. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.**

IEC 61558-2-8 has been prepared by IEC technical committee 96: Transformers, reactors, power supply units and combinations thereof. It is an International Standard.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision.

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

- a) adjustment of structure and references in accordance with IEC 61558-1:2017;
- b) new symbol for power supply unit with linearly regulated output voltage.

The text of this document is based on the following documents:

|             |                  |
|-------------|------------------|
| Draft       | Report on voting |
| 96/592/FDIS | 96/598/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 document 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 [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

It has the status of a group safety publication in accordance with IEC Guide 104.

This document is to be used in conjunction with IEC 61558-1:2017.

This document supplements or modifies the corresponding clauses in IEC 61558-1:2017, so as to convert that publication into the IEC standard: *Particular requirements and tests for transformers and power supply units for bells and chimes*.

A list of all parts in the IEC 61558 series published under the general title *Safety of transformers, reactors, power supply units and combinations thereof*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

Where this document states "*addition*", "*modification*" or "*replacement*", the relevant text of IEC 61558-1:2017 is to be adopted accordingly.

In this document, the following print types are used:

- requirements proper: in roman type;
- *test specifications*: in italic type;
- explanatory matter: in smaller roman type.

In the text of this document, the words in **bold** are defined in Clause 3.

Subclauses, notes, figures and tables additional to those in IEC 61558-1:2017 are numbered starting from 101; supplementary annexes are entitled AA, BB, etc.

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](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

**IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

## INTRODUCTION

IEC TC 96 has a group safety function in accordance with IEC Guide 104 for transformers other than those intended to supply distribution networks, in particular transformers and power supply units intended to allow the application of protective measures against electric shock as defined by TC 64, which is about Electrical installations and protection against electric shock, but in certain cases including the limitation of voltage and horizontal safety function for SELV, in accordance with IEC 60364-4-41.

The group safety function (GSF) is used because of responsibility for example for safety extra-low voltage (SELV) in accordance with IEC 61140:2016, 5.2.6 and IEC 60364-4-41:2005, 414.3.1 or control circuits in accordance with IEC 60204-1:2016, 7.2.4.

The group safety function is used for each part of IEC 61558-2 because different standards of the IEC 61558 series can be combined in one construction but in certain cases with no limitation of rated output power.

For example an auto-transformer in accordance with IEC 61558-2-13 can be designed with a separate SELV-circuit in accordance with the particular requirements for IEC 61558-2-6 relating to the general requirements of IEC 61558-1.

## SAFETY OF TRANSFORMERS, REACTORS, POWER SUPPLY UNITS AND COMBINATIONS THEREOF –

### Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes

#### 1 Scope

##### *Replacement:*

This part of IEC 61558 deals with the safety of **bell and chime transformers** and **power supply units** incorporating **bell and chime transformers**. **Transformers** incorporating **electronic circuits** are also covered by this document.

NOTE 1 Safety includes electrical, thermal and mechanical aspects.

Unless otherwise specified, from here onward, the term **transformer** covers **bell and chime transformers** and **power supply units** incorporating **bell and chime transformers**.

For **power supply units** (linear) this document is applicable. For **switch mode power supply units** IEC 61558-2-16 is applicable together with this document. Where two requirements are in conflict, the most severe take precedence.

This document is applicable to **stationary**, single-phase, air-cooled (natural or forced) **independent** or **associated dry-type transformers**. The windings ~~may~~ can be encapsulated or non-encapsulated.

~~This standard is applicable to **transformers** and **power supply** (linear).~~

~~This standard used in combination with part 2-16 for **switch mode power supply (SMPS)** units is also applicable to power supplies with internal operating frequencies higher than 500 Hz. Where the two requirements are in conflict, the most severe takes precedence.~~

The **rated supply voltage** does not exceed 250 V AC and the **rated supply frequency** and ~~does the~~ **internal operating frequencies** do not exceed 500 Hz. ~~This standard is applicable to **transformers** and linear **power supply** units with internal operating frequency not exceeding 500 Hz.~~

The **rated output** ~~shall~~ **does** not exceed 100 VA.

The **no-load output voltage** does not exceed 33 V AC or 46 V ripple-free DC, and the **rated output voltage** does not exceed 24 V AC, or 33 V ripple-free DC.

**Bell and chime transformers** are generally intended to supply domestic sound signalling equipment and other similar devices where the load is applied for short periods of time.

NOTE 2 A partial load ~~may~~ can be applied for illumination purposes.

This document is not applicable to external circuits and their components intended to be connected to the input terminals and output terminals of the **transformers**.

NOTE 3 **Transformers** covered by this document are only used in applications where **double** or **reinforced insulation** between circuits is required by the installation rules or by the end product standard.

NOTE 4 Normally the **transformers** are intended to be used with equipment to provide voltages different from the supply voltage for the functional requirements of the equipment. The protection against electric shock ~~may~~ can be provided (or completed) by other features of the equipment, such as the **body**. Parts of **output circuits** ~~may~~ can be connected to the **input circuits** or to protective earthing.

This document is applicable to **transformers** associated with specific equipment, to the extent decided upon by the relevant IEC technical committees.

~~NOTE 4~~ Attention is drawn to the following, if necessary:

- measures to protect the **enclosure** and the components inside the enclosure against external influences such as fungus, vermin, termites, solar-radiation, and icing ~~should also be considered~~;
- the different conditions for transportation, storage, and operation of the **transformers** ~~should also be considered~~;
- additional requirements in accordance with other appropriate standards and national rules ~~may~~ can be applicable to **transformers** intended for use in special environments, ~~such as tropical environment~~.

~~NOTE 5~~ Future technological development of **transformers** ~~may~~ can necessitate a need to increase the upper limit of the frequencies. Until then this document ~~may~~ can be used as a guidance document.

This group safety publication focusing on safety guidance is primarily intended to be used as a product safety standard for the products mentioned in the scope but is also intended to be used by technical committees in the preparation of publications for products similar to those mentioned in the scope of this group safety publication, in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications and/or group safety publications in the preparation of its publications.

## 2 Normative references

This clause of IEC 61558-1:2017 is applicable except as follows:

*Addition:*

IEC 61558-1:~~2005~~2017, ~~Safety of power transformers, power supplies, reactors and similar products~~ *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests*

IEC 61558-2-16:2021, *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications*



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

GROUP ENERGY EFFICIENCY PUBLICATION  
PUBLICATION GROUPEE SUR L'EFFICACITE ENERGÉTIQUE

**Safety of transformers, reactors, power supply units and combinations thereof –  
Part 2-8: Particular requirements and tests for transformers and power supply  
units for bells and chimes**

**Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et des  
combinaisons de ces éléments –  
Partie 2-8 : Exigences particulières et essais pour les transformateurs et blocs  
d'alimentation pour sonneries et carillons**

## CONTENTS

|   |    |
|---|----|
| FOREWORD.....   | 3  |
| INTRODUCTION.....   | 5  |
| 1 Scope.....  | 6  |
| 2 Normative references .....  | 7  |
| 3 Terms and definitions .....   | 7  |
| 4 General requirements .....  | 8  |
| 5 General notes on tests .....  | 8  |
| 6 Ratings.....  | 8  |
| 7 Classification.....   | 8  |
| 8 Marking and other information .....   | 9  |
| 9 Protection against electric shock .....   | 10 |
| 10 Change of input voltage setting .....  | 10 |
| 11 Output voltage and output current under load .....   | 11 |
| 12 No-load output voltage .....   | 11 |
| 13 Short-circuit voltage.....   | 12 |
| 14 Heating.....   | 12 |
| 15 Short-circuit and overload protection .....  | 13 |
| 16 Mechanical strength .....  | 13 |
| 17 Protection against harmful ingress of dust, solid objects and moisture .....                               | 13 |
| 18 Insulation resistance, dielectric strength and leakage current .....                                       | 13 |
| 19 Construction .....   | 13 |
| 20 Components .....   | 15 |
| 21 Internal wiring.....   | 15 |
| 22 Supply connection and other external flexible cables or cords .....  | 15 |
| 23 Terminals for external conductors.....   | 15 |
| 24 Provisions for protective earthing.....  | 15 |
| 25 Screws and connections .....   | 16 |
| 26 Creepage distances, clearances and distances through insulation.....                                       | 16 |
| 27 Resistance to heat, fire and tracking.....   | 16 |
| 28 Resistance to rusting.....   | 16 |
| Annexes .....   | 17 |
| Annex F (normative) Requirements for manually operated switches which are parts of transformers assembly..... | 17 |
| Bibliography.....   | 18 |
| Table 101 – Symbols indicating the kind of transformer .....  | 10 |

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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 [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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For example an auto-transformer in accordance with IEC 61558-2-13 can be designed with a separate SELV-circuit in accordance with the particular requirements for IEC 61558-2-6 relating to the general requirements of IEC 61558-1.

# SAFETY OF TRANSFORMERS, REACTORS, POWER SUPPLY UNITS AND COMBINATIONS THEREOF –

## Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes

### 1 Scope

#### *Replacement:*

This part of IEC 61558 deals with the safety of **bell and chime transformers** and **power supply units** incorporating **bell and chime transformers**. **Transformers** incorporating **electronic circuits** are also covered by this document.

NOTE 1 Safety includes electrical, thermal and mechanical aspects.

Unless otherwise specified, from here onward, the term **transformer** covers **bell and chime transformers** and **power supply units** incorporating **bell and chime transformers**.

For **power supply units** (linear) this document is applicable. For **switch mode power supply units** IEC 61558-2-16 is applicable together with this document. Where two requirements are in conflict, the most severe take precedence.

This document is applicable to **stationary**, single-phase, air-cooled (natural or forced) **independent** or **associated dry-type transformers**. The windings can be encapsulated or non-encapsulated.

The **rated supply voltage** does not exceed 250 V AC and the **rated supply frequency** and the **internal operating frequencies** do not exceed 500 Hz.

The **rated output** does not exceed 100 VA.

The **no-load output voltage** does not exceed 33 V AC or 46 V ripple-free DC, and the **rated output voltage** does not exceed 24 V AC, or 33 V ripple-free DC.

**Bell and chime transformers** are generally intended to supply domestic sound signalling equipment and other similar devices where the load is applied for short periods of time.

NOTE 2 A partial load can be applied for illumination purposes.

This document is not applicable to external circuits and their components intended to be connected to the input terminals and output terminals of the **transformers**.

NOTE 3 **Transformers** covered by this document are only used in applications where **double** or **reinforced insulation** between circuits is required by the installation rules or by the end product standard.

NOTE 4 Normally the **transformers** are intended to be used with equipment to provide voltages different from the supply voltage for the functional requirements of the equipment. The protection against electric shock can be provided or completed by other features of the equipment, such as the **body**. Parts of **output circuits** can be connected to the **input circuits** or to protective earthing.

This document is applicable to **transformers** associated with specific equipment, to the extent decided upon by the relevant IEC technical committees.

Attention is drawn to the following, if necessary:

- measures to protect the **enclosure** and the components inside the enclosure against external influences such as fungus, vermin, termites, solar-radiation, and icing;
- the different conditions for transportation, storage, and operation of the **transformers**;
- additional requirements in accordance with other appropriate standards and national rules can be applicable to **transformers** intended for use in special environments.

Future technological development of **transformers** can necessitate a need to increase the upper limit of the frequencies. Until then this document can be used as a guidance document.

This group safety publication focusing on safety guidance is primarily intended to be used as a product safety standard for the products mentioned in the scope but is also intended to be used by technical committees in the preparation of publications for products similar to those mentioned in the scope of this group safety publication, in accordance with the principles laid down in IEC Guide 104 and ISO/IEC Guide 51.

One of the responsibilities of a technical committee is, wherever applicable, to make use of basic safety publications and/or group safety publications in the preparation of its publications.

## 2 Normative references

This clause of IEC 61558-1:2017 is applicable except as follows:

*Addition:*

IEC 61558-1:2017, *Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests*

IEC 61558-2-16:2021, *Safety of transformers, reactors, power supply units and combinations thereof – Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications*

## SOMMAIRE

|   |    |
|---|----|
| AVANT-PROPOS .....  | 21 |
| INTRODUCTION.....   | 24 |
| 1 Domaine d'application .....   | 25 |
| 2 Références normatives .....   | 26 |
| 3 Termes et définitions .....   | 27 |
| 4 Exigences générales .....   | 27 |
| 5 Généralités sur les essais.....   | 27 |
| 6 Caractéristiques assignées.....   | 27 |
| 7 Classification.....   | 28 |
| 8 Marquage et indications.....  | 29 |
| 9 Protection contre les chocs électriques.....  | 29 |
| 10 Changement de la tension primaire d'alimentation .....   | 30 |
| 11 Tension secondaire et courant secondaire en charge .....   | 30 |
| 12 Tension secondaire à vide .....  | 30 |
| 13 Tension de court-circuit .....   | 31 |
| 14 Échauffements.....   | 31 |
| 15 Protection contre les courts-circuits et les surcharges .....  | 32 |
| 16 Résistance mécanique.....  | 32 |
| 17 Protection contre les effets nuisibles dus à la pénétration de poussière, d'objets<br>solides et de l'humidité ..... | 32 |
| 18 Résistance d'isolement, rigidité diélectrique et courant de fuite .....  | 32 |
| 19 Construction .....   | 32 |
| 20 Composants .....   | 34 |
| 21 Conducteurs internes.....  | 34 |
| 22 Raccordement à l'alimentation et câbles souples externes .....   | 34 |
| 23 Bornes pour conducteurs externes .....   | 35 |
| 24 Dispositions en vue de la mise à la terre de protection .....  | 35 |
| 25 Vis et connexions .....  | 35 |
| 26 Lignes de fuite, distances d'isolement et distances à travers l'isolation.....                                       | 35 |
| 27 Résistance à la chaleur, au feu et aux courants de cheminement .....   | 35 |
| 28 Protection contre la rouille .....   | 35 |
| Annexes .....   | 36 |
| Annexe F (normative) Exigences pour les interrupteurs manuels faisant partie d'un<br>transformateur .....               | 36 |
| Bibliographie.....  | 37 |
| Tableau 101 – Symboles qui indiquent le type de transformateur .....  | 29 |



## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**SÉCURITÉ DES TRANSFORMATEURS, BOBINES D'INDUCTANCE,  
BLOCS D'ALIMENTATION ET DES COMBINAISONS DE CES ÉLÉMENTS –****Partie 2-8: Exigences particulières et essais pour les transformateurs  
et blocs d'alimentation pour sonneries et carillons**

## AVANT-PROPOS

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L'IEC 61558-2-8 a été établie par le comité d'études 96 de l'IEC: Transformateurs, bobines d'inductance, blocs d'alimentation et combinaisons de ces éléments. Il s'agit d'une Norme internationale.

Cette troisième édition annule et remplace la deuxième édition parue en 2010. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) la structure et les références ont été alignées sur l'IEC 61558-1:2017;
- b) un nouveau symbole a été ajouté pour les blocs d'alimentation dont la régulation de la tension secondaire est linéaire.

Le texte de ce document est issu des documents suivants:

| Projet      | Rapport de vote |
|-------------|-----------------|
| 96/592/FDIS | 96/598/RVD      |

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de ce document est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). Les principaux types de documents développés par l'IEC sont décrits plus en détail sous [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

Il a le statut de publication groupée de sécurité conformément au Guide 104 de l'IEC.

Le présent document doit être utilisé conjointement avec l'IEC 61558-1:2017.

Le présent document complète ou modifie les articles correspondants de l'IEC 61558-1:2017, de façon à transformer cette publication en norme IEC: *Exigences particulières et essais pour les transformateurs et blocs d'alimentation pour sonneries et carillons*.

Une liste de toutes les parties de la série IEC 61558, publiées sous le titre général *Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et des combinaisons de ces éléments*, se trouve sur le site web de l'IEC.

Les futures normes de cette série porteront le nouveau titre général cité ci-dessus. Le titre des normes qui existent déjà dans cette série sera mis à jour lors de leur prochaine édition.

Lorsque le présent document mentionne "*addition*", "*modification*" ou "*remplacement*", le texte correspondant de l'IEC 61558-1:2017 doit être adapté en conséquence.

Dans le présent document, les caractères d'imprimerie suivants sont utilisés:

- exigences proprement dites: caractères romains;
- *modalités d'essais: caractères italiques*;
- commentaires: petits caractères romains.

Dans le texte du présent document, les termes en **gras** sont définis à l'Article 3.

Les paragraphes, notes, figures et tableaux qui s'ajoutent à ceux de l'IEC 61558-1:2017 sont numérotés à partir de 101; les annexes qui sont ajoutées sont désignées AA, BB, etc.

Le comité a décidé que le contenu de ce document ne sera pas modifié avant la date de stabilité indiquée sur le site web de l'IEC sous [webstore.iec.ch](http://webstore.iec.ch) dans les données relatives au document recherché. À cette date, le document sera

- reconduit,
- supprimé, ou
- révisé.

## INTRODUCTION

Le CE 96 de l'IEC a une fonction groupée de sécurité, conformément au Guide 104 de l'IEC relatif aux transformateurs autres que ceux destinés à alimenter les réseaux de distribution, notamment les transformateurs et les blocs d'alimentation destinés à permettre l'application de mesures de protection contre les chocs électriques, comme cela est défini par le CE 64, qui traite des Installations électriques et de la protection contre les chocs électriques, mais incluant également dans certains cas la limitation de la tension et la fonction de sécurité horizontale pour la TBTS, conformément à l'IEC 60364-4-41.

La fonction groupée de sécurité (GSF, *Group Safety Function*) est utilisée pour des raisons de responsabilité, par exemple pour la très basse tension de sécurité (TBTS), conformément au 5.2.6 de l'IEC 61140:2016 et au 414.3.1 de l'IEC 60364-4-41:2005, ou des circuits de commande, conformément au 7.2.4 de l'IEC 60204-1:2016.

La fonction groupée de sécurité est utilisée pour chaque partie de l'IEC 61558-2, car différentes normes de la série IEC 61558 peuvent être combinées dans une seule et même construction, mais dans certains cas sans aucune limitation de la puissance secondaire assignée.

Un autotransformateur conforme à l'IEC 61558-2-13 peut par exemple être conçu avec un circuit TBTS distinct, conformément aux exigences particulières de l'IEC 61558-2-6 liées aux exigences générales de l'IEC 61558-1.

# SÉCURITÉ DES TRANSFORMATEURS, BOBINES D'INDUCTANCE, BLOCS D'ALIMENTATION ET DES COMBINAISONS DE CES ÉLÉMENTS –

## Partie 2-8: Exigences particulières et essais pour les transformateurs et blocs d'alimentation pour sonneries et carillons

### 1 Domaine d'application

#### *Remplacement:*

Cette partie de l'IEC 61558 traite de la sécurité des **transformateurs pour sonneries et carillons** et des **blocs d'alimentation** qui incorporent des **transformateurs pour sonneries et carillons**. Les **transformateurs** qui incorporent des **circuits électroniques** sont également couverts par le présent document.

NOTE 1 La sécurité comprend les aspects électriques, thermiques et mécaniques.

Sauf spécification contraire, dans la suite de ce document, le terme **transformateur** couvre les **transformateurs pour sonneries et carillons** et les **blocs d'alimentation** qui incorporent des **transformateurs pour sonneries et carillons**.

Pour les **blocs d'alimentation** (linéaires), le présent document s'applique. Pour les **blocs d'alimentation à découpage**, l'IEC 61558-2-16 s'applique conjointement avec le présent document. Lorsque deux exigences sont contradictoires, la plus contraignante prévaut.

Le présent document s'applique aux **transformateurs de type sec fixes**, monophasés, à refroidissement à air (circulation naturelle ou forcée) **indépendants** ou **associés**. Les enroulements peuvent être enrobés ou non enrobés.

La **tension d'alimentation assignée** ne dépasse pas 250 V en courant alternatif et la **fréquence d'alimentation assignée** et les **fréquences de fonctionnement internes** ne dépassent pas 500 Hz.

La **puissance assignée** ne dépasse pas 100 VA.

la **tension secondaire à vide** ne dépasse pas 33 V en courant alternatif ou 46 V en courant continu lissé et la **tension secondaire assignée** ne dépasse pas 24 V en courant alternatif ou 33 V en courant continu lissé.

Les **transformateurs pour sonneries et carillons** sont généralement destinés à alimenter des avertisseurs sonores domestiques et autres dispositifs similaires quand la charge est appliquée pendant de courtes durées.

NOTE 2 Une charge partielle peut être appliquée à des fins d'indication lumineuse.

Le présent document ne s'applique pas aux circuits externes et à leurs composants destinés à être connectés aux bornes primaires et bornes secondaires des **transformateurs**.

NOTE 3 Les **transformateurs** couverts par le présent document ne sont utilisés que dans le cadre d'applications pour lesquelles les règles d'installation ou la norme du produit final exigent une **isolation double** ou **renforcée** entre les circuits.

NOTE 4 Habituellement les **transformateurs** sont destinés à être utilisés avec des équipements pour fournir des tensions différentes de la **tension d'alimentation** pour satisfaire aux exigences fonctionnelles de l'équipement. La protection contre les chocs électriques peut être fournie ou complétée par d'autres particularités de l'équipement, telles que la **masse**. Des parties de **circuits secondaires** peuvent être connectées aux **circuits primaires** ou à la terre de protection.

Le présent document s'applique aux **transformateurs** associés à des équipements spécifiques, dans la mesure décidée par les comités d'études correspondants de l'IEC.

L'attention est attirée sur les points suivants, si nécessaire:

- des mesures pour protéger l'**enveloppe** et les composants situés à l'intérieur de celle-ci contre les influences externes comme les champignons, la vermine, les termites, les rayonnements solaires et le givre;
- les différentes conditions de transport, de stockage et de fonctionnement des **transformateurs**;
- des exigences supplémentaires qui peuvent s'appliquer aux **transformateurs** destinés à être utilisés dans un environnement particulier, au regard d'autres normes et règles nationales applicables.

Les évolutions techniques futures des **transformateurs** peuvent nécessiter une augmentation de la limite supérieure des fréquences. En attendant, le présent document peut être utilisé à titre de recommandation.

La présente publication groupée de sécurité portant sur des recommandations de sécurité est avant tout destinée à être utilisée en tant que norme en matière de sécurité des produits pour les produits cités dans le domaine d'application, mais elle est également destinée à être utilisée par les comités d'études dans le cadre de l'élaboration de publications pour des produits similaires à ceux cités dans le domaine d'application de la présente publication groupée de sécurité, conformément aux principes établis dans le Guide 104 de l'IEC et le Guide 51 de l'ISO/IEC.

L'une des responsabilités d'un comité d'études consiste, le cas échéant, à utiliser les publications fondamentales de sécurité et/ou les publications groupées de sécurité dans le cadre de l'élaboration de ses publications.

## 2 Références normatives

L'article de l'IEC 61558-1:2017 s'applique avec les exceptions suivantes:

*Addition:*

IEC 61558-1:2017, *Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et des combinaisons de ces éléments – Partie 1: Exigences générales et essais*

IEC 61558-2-16:2021, *Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et combinaisons de ces éléments – Partie 2-16: Exigences particulières et essais pour les blocs d'alimentation à découpage et les transformateurs pour blocs d'alimentation à découpage pour applications d'ordre général*