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colour inside

Switches for appliances –
Part 2-4: Particular requirements for independently mounted switches

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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SWITCHES FOR APPLIANCES –

Part 2-4: Particular requirements for independently mounted switches

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.
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This Redline version provides you with a quick and easy way to compare all the changes between this standard and its previous edition. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

International Standard IEC 61058-2-4 has been prepared by subcommittee 23J: Switches for appliances, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 1995 and constitutes a technical revision.

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

a) overall format modified to support the revised structure of the series;

b) Annexes K and M have been included as an integral part of this document;

c) Annex L has been included for information purposes only.

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

CDV	Report on voting
23J/433/CDV	23J/441/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This document is to be used in conjunction with IEC 61058-1:2016.

This document supplements or modifies the corresponding clauses in IEC 61058-1, so as to convert that publication into the IEC standard: *Particular requirements for independently mounted switches*.

When a particular subclause of IEC 61058-1 is not mentioned in this document, that subclause applies as far as reasonable. Where this document states "addition", "modification" or "replacement", the relevant text of IEC 61058-1 is to be adapted accordingly.

In this document:

1) the following print types are used:
   - requirements proper: in roman type;
   - *test specifications: in italic type;*
   - explanatory matter: in smaller roman type.
2) subclauses, figures or tables which are additional to those in IEC 61058-1 are numbered starting from 101.

A list of all the parts in the IEC 61058 series, under the general title *Switches for appliances*, can be found on the IEC website.

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

- reconfirmed,
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- replaced by a revised edition, or
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SWITCHES FOR APPLIANCES –

Part 2-4: Particular requirements for independently mounted switches

1 Scope

Clause 1 of IEC 61058-1:2016 is applicable, except as follows.

~~1.1 *Replacement:*~~

Addition:

This document applies to independently mounted switches for appliances (mechanical or electronic) actuated by hand, by foot or by other human activity ~~for use with~~, to operate or control electrical appliances and other equipment for household ~~and~~ or similar purposes with a rated voltage not exceeding ~~440~~ 480 V and a rated current not exceeding 63 A.

These switches are intended to be operated by a person, via an actuating member or by actuating a sensing unit. The actuating member or sensing unit can be integral with or arranged separately, either physically or electrically, from the switch and involve transmission of a signal, for example, electrical, optical, acoustic or thermal, between the actuating member or sensing unit and the switch.

Switches which incorporate additional control functions governed by the switch function are within the scope of this document.

~~1.2 *Replacement:*~~

~~This standard applies to independently mounted switches intended to be used with an appliance or equipment.~~

This document also covers the indirect actuation of the switch when the operation of the actuating member or sensing unit is provided by a remote control or by a part of an appliance or equipment, such as a door.

NOTE 1 Electronic switches can be combined with mechanical switches giving full disconnection or micro-disconnection.

NOTE 2 Electronic switches without a mechanical switch in the supply circuit provide only electronic disconnection. Therefore, the circuit on the load side is always considered to be live.

NOTE 3 For switches used in tropical climates, additional requirements ~~may be necessary~~ can apply.

NOTE 4 Attention is drawn to the fact that the standards for appliances ~~and equipment may~~ can contain additional or alternative requirements for switches.

~~NOTE 4 Throughout this standard the word "switch" means "independently mounted switch" unless otherwise stated.~~

NOTE 5 Throughout this document, the word "appliance" means "appliance or equipment".

~~1.3 *Replacement:*~~

~~This standard applies to switches intended to be mounted apart from the appliance (independently mounted switches) other than those within the scope of IEC 669-1.~~

2 Normative references

Clause 2 of IEC 61058-1:2016 is applicable except as follows~~:~~.

~~**2.1** *IEC standards*~~

~~Replacement of IEC 669-1:1981 by IEC 669-1:1993.~~

Addition:

~~IEC 60227-3:1993, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 3: Non-sheathed cables for fixed wiring*~~

IEC 60227-5, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords)*

IEC 60245-4, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables*

IEC 60669-1:2017, *Switches for household and similar fixed-electrical installations – Part 1: General requirements*

IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

IEC 61058-2-4

Edition 2.0 2018-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Switches for appliances –
Part 2-4: Particular requirements for independently mounted switches

Interrupteurs pour appareils –
Partie 2-4: Exigences particulières pour les interrupteurs à montage indépendant



IEC 61058-2-4:2018-10(en-fr)

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NOTE 4 Attention is drawn to the fact that the standards for appliances can contain additional or alternative requirements for switches.

NOTE 5 Throughout this document, the word "appliance" means "appliance or equipment".

2 Normative references

Clause 2 of IEC 61058-1:2016 is applicable except as follows.

Addition:

IEC 60227-5, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 5: Flexible cables (cords)*

IEC 60245-4, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 4: Cords and flexible cables*

IEC 60669-1:2017, *Switches for household and similar fixed-electrical installations – Part 1: General requirements*

IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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INTERRUPTEURS POUR APPAREILS –

Partie 2-4: Exigences particulières pour les interrupteurs à montage indépendant

AVANT-PROPOS

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La Norme internationale IEC 61058-2-4 a été établie par le sous-comité 23J: Interrupteurs pour appareils, du comité d'études 23 de l'IEC: Petit appareillage.

Cette deuxième édition annule et remplace la première édition parue en 1995, dont elle constitue une révision technique.

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

a) le format global a été modifié pour être compatible avec la structure révisée de la série;
b) les Annexes K et M ont été ajoutés pour faire partie intégrante du présent document;
c) l'Annexe L est donnée à titre d'information uniquement.

Le texte de cette Norme internationale est issu des documents suivants:

CDV	Rapport de vote
23J/433/CDV	23J/441/RVC

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

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2.

Ce document doit être utilisé conjointement avec l'IEC 61058-1:2016.

Le présent document complète ou modifie les articles correspondants de l'IEC 61058-1, de façon à transformer cette publication en norme IEC: *Exigences particulières pour les interrupteurs à montage indépendant*.

Lorsqu'un paragraphe particulier de l'IEC 61058-1 n'est pas mentionné dans le présent document, ce paragraphe s'applique pour autant que cela soit raisonnable. Lorsque le présent document spécifie "addition", "modification" ou "remplacement", le texte correspondant de l'IEC 61058-1 doit être adapté en conséquence.

Dans le présent document:

1) les caractères suivants sont utilisés:
   – exigences: caractères romains;
   – *spécifications d'essais: en caractères italiques;*
   – notes explicatives: en petits caractères romains.
2) les paragraphes, figures ou tableaux qui sont ajoutés à ceux de l'IEC 61058-1 sont numérotés à partir de 101.

Une liste de toutes les parties de la série IEC 61058, publiées sous le titre général *Interrupteurs pour appareils*, peut être consultée sur le site web de l'IEC.

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INTERRUPTEURS POUR APPAREILS –

Partie 2-4: Exigences particulières pour les interrupteurs à montage indépendant

1 Domaine d'application

L'Article 1 de l'IEC 61058-1:2016 s'applique à l'exception de ce qui suit.

Addition:

Le présent document s'applique aux interrupteurs à montage indépendant (mécaniques ou électriques) pour appareils manœuvrés à la main, au pied ou par d'autres activités humaines, pour actionner ou commander des appareils électriques et autres matériels pour usage domestique et analogue, de tension assignée ne dépassant pas 480 V et de courant assigné ne dépassant pas 63 A.

Ces interrupteurs sont destinés à être manœuvrés par une personne, par l'intermédiaire d'un organe de manœuvre ou en actionnant un élément sensible. L'organe de manœuvre ou l'élément sensible peut être intégré à l'interrupteur ou être disposé séparément, soit physiquement soit électriquement, et associe l'émission d'un signal entre l'organe de manœuvre ou l'élément sensible et l'interrupteur (par exemple, électrique, optique, acoustique ou thermique).

Les interrupteurs qui comportent des fonctions de commande supplémentaires régies par le fonctionnement de l'interrupteur relèvent du domaine d'application du présent document.

Le présent document couvre également la manœuvre indirecte de l'interrupteur lorsque le fonctionnement de l'organe de manœuvre ou de l'élément sensible est assuré par une commande à distance ou par une partie d'un appareil ou équipement telle qu'une porte.

NOTE 1 Les interrupteurs électroniques peuvent être combinés à des interrupteurs mécaniques assurant une microcoupure ou une coupure totale.

NOTE 2 Les interrupteurs électroniques sans interrupteur mécanique dans le circuit d'alimentation assurent seulement une coupure électronique. Par conséquent, le circuit côté charge est toujours considéré comme étant sous tension.

NOTE 3 Pour les interrupteurs utilisés sous des climats tropicaux, des exigences supplémentaires peuvent s'appliquer.

NOTE 4 L'attention est attirée sur le fait que les normes pour appareils peuvent contenir des exigences supplémentaires ou différentes pour les interrupteurs.

NOTE 5 Dans tout le présent document, le terme "appareil" signifie "appareil ou équipement".

2 Références normatives

L'Article 2 de l'IEC 61058-1:2016 s'applique à l'exception de ce qui suit.

Addition:

IEC 60227-5, *Conducteurs et câbles isolés au polychlorure de vinyle, de tension assignée au plus égale à 450/750 V – Partie 5: Câbles souples*

IEC 60245-4, *Conducteurs et câbles isolés au caoutchouc – Tension assignée au plus égale à 450/750 V – Partie 4: Câbles souples*

IEC 60669-1:2017, *Interrupteurs pour installations électriques fixes domestiques et analogues – Partie 1: Exigences générales*

IEC 61058-1:2016, *Interrupteurs pour appareils – Partie 1: Exigences générales*