

<b>STN</b>	<b>Vidlice, pevné alebo pohyblivé zásuvky a prívodky na priemyselné použitie</b> <b>Časť 2: Požiadavky na rozmerovú zameniteľnosť prístrojov s kolíkmi a dutinkami</b>	<b>STN EN IEC 60309-2</b>  35 4513
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Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 2: Dimensional compatibility requirements for pin and contact-tube accessories

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/22

Obsahuje: EN IEC 60309-2:2022, IEC 60309-2:2021

Oznámením tejto normy sa od 17.06.2025 ruší  
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 60309-2**

June 2022

ICS 29.120.30

Supersedes EN 60309-2:1999 + A1:2007 + A2:2012

English Version

**Plugs, fixed or portable socket-outlets and appliance inlets for  
industrial purposes - Part 2: Dimensional compatibility  
requirements for pin and contact-tube accessories  
(IEC 60309-2:2021)**

Fiches, socles fixes de prise de courant, prises mobiles et  
socles de connecteur pour usages industriels - Partie 2:  
Exigences dimensionnelles de compatibilité pour les  
appareils à broches et alvéoles  
(IEC 60309-2:2021)

Stecker, ortsfeste oder ortsveränderliche Steckdosen und  
Gerätestecker für industrielle Anwendungen - Teil 2:  
Anforderungen an die maßliche Kompatibilität von Stift- und  
Buchsensteckvorrichtungen  
(IEC 60309-2:2021)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60309-2:2022 (E)****European foreword**

The text of document 23H/481/FDIS, future edition 5 of IEC 60309-2, prepared by SC 23H "Plugs, Socket-outlets and Couplers for industrial and similar applications, and for Electric Vehicles" of IEC/TC 23 "Electrical accessories" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60309-2:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-12-17
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-06-17

This document supersedes EN 60309-2:1999 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document is read in conjunction with EN IEC 60309-1:2022.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

**Endorsement notice**

The text of the International Standard IEC 60309-2:2021 was approved by CENELEC as a European Standard without any modification.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

Clause 2 of EN IEC 60309-1:2022 applies except as follows:

*Add the following normative references:*

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60309-1	2021	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements	EN IEC 60309-1	2022
IEC 60364-4-41	-	Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock	HD 60364-4-41	-



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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes –  
Part 2: Dimensional compatibility requirements for pin and contact-tube accessories**

**Fiches, socles fixes de prise de courant, prises mobiles et socles de connecteur pour usages industriels –  
Partie 2: Exigences dimensionnelles de compatibilité pour les appareils à broches et alvéoles**



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IEC 60309-2

Edition 5.0 2021-06

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes –  
Part 2: Dimensional compatibility requirements for pin and contact-tube accessories**

**Fiches, socles fixes de prise de courant, prises mobiles et socles de connecteur pour usages industriels –  
Partie 2: Exigences dimensionnelles de compatibilité pour les appareils à broches et alvéoles**

INTERNATIONAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PLUGS, FIXED OR PORTABLE SOCKET-OUTLETS AND  
APPLIANCE INLETS FOR INDUSTRIAL PURPOSES –****Part 2: Dimensional compatibility requirements  
for pin and contact-tube accessories**

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International Standard IEC 60309-2 has been prepared by subcommittee SC 23H: Plugs, socket-outlets and couplers for industrial and similar applications, and for electric vehicles, of IEC technical committee 23: Electrical accessories.

This fifth edition cancels and replaces the fourth edition published in 1999, Amendment 1:2005 and Amendment 2:2012. This edition constitutes a technical revision.

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

- a) addition of requirements and test for non-solid pins;
- b) additional rating IPX9;
- c) additional marking to indicate neutral terminal and/or earthing terminal.

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

FDIS	Report on voting
23H/481/FDIS	23H/487/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 [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).

This document is to be read in conjunction with IEC 60309-1:2021.

In this document, the following print types are used:

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

IEC 60309-1:2021 deals with general requirements and comprises all clauses of a general character.

Subsequent parts deal with the requirements of particular types of accessories. The clauses of these particular requirements supplement or modify the corresponding clauses in IEC 60309-1:2021.

Clauses, subclauses, figures, tables and notes which are additional to those in IEC 60309-1:2021 are numbered starting from 201.

A list of all parts in the IEC 60309 series, published under the general title *Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes*, 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.

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,
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- replaced by a revised edition, or
- amended.

# PLUGS, FIXED OR PORTABLE SOCKET-OUTLETS AND APPLIANCE INLETS FOR INDUSTRIAL PURPOSES –

## Part 2: Dimensional compatibility requirements for pin and contact-tube accessories

### 1 Scope

This document applies to plugs, fixed or portable socket-outlets, and appliance inlets, hereinafter referred to as accessories, with a rated operating voltage not exceeding 1 000 V DC or 1 000 V AC with a frequency not exceeding 500 Hz and a rated current not exceeding 125 A, primarily intended for industrial use, either indoors or outdoors.

These accessories are intended to be installed by instructed persons or skilled persons only.

NOTE 1 All references for accessories with a rated current of more than 125 A in IEC 60309-1 are not applicable to this document.

This document applies to accessories with pins and contact-tubes of standardized configurations.

This document applies to accessories, for use when the ambient temperature is normally within the range  $-25\text{ °C}$  to  $40\text{ °C}$ .

The use of these accessories on building sites and for agricultural, commercial and domestic applications is not precluded.

This document applies to accessories with screwless-type terminals or insulation piercing terminals, with a rated current up to and including 32 A for series I and 30 A for series II.

Socket-outlets or appliance inlets incorporated in or fixed to electrical equipment are within the scope of this document. This document also applies to accessories intended to be used in extra-low voltage installations.

NOTE 2 This document does not apply to accessories primarily intended for domestic and similar general purposes.

In locations where special conditions prevail, for example on board ship or where explosions are liable to occur, additional requirements can be necessary.

### 2 Normative references

Clause 2 of IEC 60309-1:2021 applies except as follows:

*Additional normative references:*

IEC 60309-1:2021, *Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes – Part 1: General requirements*

IEC 60364-4-41, *Low-voltage electrical installations – Part 4-41: Protection for safety – Protection against electric shock*

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