

Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262:2002 + IEC 62262:2002/AMD1:2021)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62262:2008+A1:2021 sisaldab Euroopa standardi EN 62262:2002 ja selle muudatuse A1:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 62262:2008+A1:2021 consists of the English text of the European standard EN 62262:2002 and its amendment A1:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 24.07.2002, muudatus A1 15.10.2021.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 24.07.2002, for A1 15.10.2021.
Muudatusega A1 lisatud või muudetud teksti algus ja lõpp on tekstis tähistatud sümboolitega $\boxed{A_1}$ $\langle A_1 \rangle$. Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	The start and finish of text introduced or altered by amendment A1 is indicated in the text by tags $\boxed{A_1}$ $\langle A_1 \rangle$. The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 29.020

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English Version

Degrees of protection provided by enclosures for electrical
equipment against external mechanical impacts (IK code)
(IEC 62262:2002 + IEC 62262:2002/AMD1:2021)

Degrés de protection procurés par les enveloppes de
matériels électriques contre les impacts mécaniques
externes (Code IK)
(IEC 62262:2002 + IEC 62262:2002/AMD1:2021)

Schutzarten durch Gehäuse für elektrische Betriebsmittel
(Ausrüstung) gegen äußere mechanische
Beanspruchungen (IK-Code)
(IEC 62262:2002 + IEC 62262:2002/AMD1:2021)

This European Standard was approved by CENELEC on 2002-07-24. Amendment A1 was approved by CENELEC on 2021-10-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard and its amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard and its Amendment A1 exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

Foreword

This European Standard was prepared by CENELEC BTF 68-3, Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code).

The text of the draft, based on document BT (FR/NOT) 141, was submitted to the formal vote in June 1994 and was approved by CENELEC as EN 50102 on 1994-12-06.

The following dates were fixed:

latest date by which the EN has to be implemented at (dop) 1997-04-15
national level by publication of an identical national
standard or by endorsement

latest date by which national standards conflicting with the (dow) 1997-04-15
EN have to be withdrawn

By Technical Board decision D112/248 the text of the International Standard IEC 62262:2002, which is identical with EN 50102:1995 + A1:1998, was approved by CENELEC as EN 62262 on 2002-07-02. As a consequence EN 50102:1995 + A1:1998 are renumbered as EN 62262:2002.

The following date was fixed:

latest date by which the existence of EN 62262 has to be (doa) 2002-10-01
announced at national level

A1 Amendment A1 European foreword

The text of document 70/157/FDIS, future IEC 62262/AMD1, prepared by IEC/TC 70 “Degrees of protection provided by enclosures” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62262:2002/A1:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level (dop) 2022-07-08 by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-10-08

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.

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 62262:2002/AMD1:2021 was approved by CENELEC as a European Standard without any modification. **A1**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DEGREES OF PROTECTION PROVIDED BY ENCLOSURES
FOR ELECTRICAL EQUIPMENT AGAINST EXTERNAL
MECHANICAL IMPACTS (IK CODE)**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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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International Standard IEC 62262 has been prepared by IEC technical committee 70: Degrees of protection provided by enclosures.

It is based on the CENELEC publication EN 50102.

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

FDIS	Report on voting
70/99/FDIS	70/100/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A1 AMENDMENT A1 FOREWORD

Amendment 1 to IEC 62262:2002 has been prepared by IEC technical committee 70: Degrees of protection provided by enclosures.

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

Draft	Report on voting
70/157/FDIS	70/158/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 Amendment 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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

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,
- replaced by a revised edition, or
- amended. **A1**

Introduction

This standard describes a system for classifying the degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. Whilst this system is suitable for use with most types of electrical equipment, it should not be assumed that all the listed degrees of protection are applicable to a particular type of equipment. The manufacturer of the equipment should be consulted to determine the degrees of protection available and the parts of equipment to which the stated degree of protection applies.

The adoption of this classification system, wherever possible, should promote uniformity in methods of describing the protection provided by the enclosure and in the tests to prove the various degrees of protection. It should also reduce the number of types of test devices necessary to test a wide range of products.

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1 Scope

A1 This document refers to the classification of the degrees of protection provided by enclosures against external mechanical impacts when the rated voltage of the protected equipment is not greater than 72,5 kV.

The object of this document is to give

- a) the definitions for the degrees of protection provided by enclosures of electrical equipment as regards protection of the equipment inside the enclosure against harmful effects of mechanical impacts;
- b) the designations for the degrees of protection;
- c) the requirements for each designation;
- d) the tests to be performed to verify that the enclosure meets the requirements of this document.

It will remain the responsibility of individual technical committees to decide on the extent and manner in which the classification is used in their standards and to define the "enclosure" as it applies to their equipment and to ensure that for a given classification, the tests do not differ from those specified in this document. If necessary, complementary requirements can be included in the relevant product standard.

For a particular type of equipment, a product committee can specify different requirements provided that at least the same level of safety is ensured.

This document deals only with enclosures that are in all other respects suitable for their intended use as specified in the relevant product standard and which, from the point of view of materials and workmanship, ensure that the claimed degrees of protection are maintained under the normal conditions of use. **A1**

2 Normative references

A1 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. **A1**

A1 *deleted text* **A1**

A1 IEC 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests* **A1**

3 **A1** Terms and definitions **A1**

A1 For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp> **A1**

A1 3.1

enclosure

part providing protection of equipment against certain external influences and, in any direction, protection against direct contact