

<b>STN</b>	<b>Elektrostatika</b> <b>Časť 5-3: Ochrana elektronických súčiastok pred elektrostatickými javmi</b> <b>Vlastnosti a požiadavky na klasifikáciu obalov určených na súčiastky citlivé na elektrostatický výboj</b>	<b>STN</b> <b>EN IEC 61340-5-3</b>  34 6440
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Electrostatics - Part 5-3: Protection of electronic devices from electrostatic phenomena - Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices

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. 07/22

Obsahuje: EN IEC 61340-5-3:2022, IEC 61340-5-3:2022

Oznámením tejto normy sa od 01.06.2025 ruší  
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EUROPÄISCHE NORM

**EN IEC 61340-5-3**

June 2022

ICS 17.220.99; 29.020

Supersedes EN 61340-5-3:2015

English Version

**Electrostatics - Part 5-3: Protection of electronic devices from  
electrostatic phenomena - Properties and requirements  
classification for packaging intended for electrostatic discharge  
sensitive devices  
(IEC 61340-5-3:2022)**

Electrostatique - Partie 5-3: Protection des dispositifs  
électroniques contre les phénomènes électrostatiques -  
Classification des propriétés et des exigences relatives à  
l'emballage destiné aux dispositifs sensibles aux décharges  
électrostatiques  
(IEC 61340-5-3:2022)

Elektrostatik - Teil 5-3: Schutz von elektronischen  
Bauelementen gegen elektrostatische Phänomene -  
Eigenschaften und Anforderungen für die Klassifizierung  
von Verpackungen, welche für Bauelemente verwendet  
werden, die gegen elektrostatische Entladungen  
empfindlich sind  
(IEC 61340-5-3:2022)

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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 61340-5-3:2022 (E)****European foreword**

The text of document 101/649/FDIS, future edition 3 of IEC 61340-5-3, prepared by IEC/TC 101 "Electrostatics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61340-5-3:2022.

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IEC 61340-5-1      NOTE      Harmonized as EN 61340-5-1

## Annex ZA (normative)

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

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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).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61340-2-3	-	Electrostatics - Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation	EN 61340-2-3	-
IEC 61340-4-8	-	Electrostatics - Part 4-8: Standard test methods for specific applications - Electrostatic discharge shielding - Bags	EN 61340-4-8	-



IEC 61340-5-3

Edition 3.0 2022-04

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electrostatics –  
Part 5-3: Protection of electronic devices from electrostatic phenomena –  
Properties and requirements classification for packaging intended for  
electrostatic discharge sensitive devices**

**Électrostatique –  
Partie 5-3: Protection des dispositifs électroniques contre les phénomènes  
électrostatiques – Classification des propriétés et des exigences relatives à  
l'emballage destiné aux dispositifs sensibles aux décharges électrostatiques**

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IEC 61340-5-3

Edition 3.0 2022-04

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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## **Electrostatics –**

**Part 5-3: Protection of electronic devices from electrostatic phenomena –  
Properties and requirements classification for packaging intended for  
electrostatic discharge sensitive devices**

## **Électrostatique –**

**Partie 5-3: Protection des dispositifs électroniques contre les phénomènes  
électrostatiques – Classification des propriétés et des exigences relatives à  
l'emballage destiné aux dispositifs sensibles aux décharges électrostatiques**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTROSTATICS –**Part 5-3: Protection of electronic devices from electrostatic phenomena –  
Properties and requirements classification for packaging intended for  
electrostatic discharge sensitive devices**

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IEC 61340-5-3 has been prepared by IEC technical committee 101: Electrostatics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2015. This edition constitutes a technical revision.

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

- a) reference to IEC 61340-4-10<sup>1</sup> [1]<sup>2</sup> was removed;
- b) material resistance property "electrostatic field shielding" was removed;

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<sup>1</sup> Withdrawn.

<sup>2</sup> Numbers in square brackets refer to the bibliography.

- c) the requirement for electrostatic discharge shielding was changed from 50 nJ to 20 nJ;
- d) Table 1 – footnote "b" was changed to mention the two-point probe in IEC 61340-2-3;
- e) "shall be marked" was changed to "should be marked" in 7.2.2 and 7.2.3;
- f) Table 3 – the classification symbol and the primary function code F was removed;
- g) Table A.2 – references to IEC TS 61340-5-4 [2] and IEC TR 61340-5-5 [3] were added;
- h) Annex C – guidance regarding electric field shielding was added;
- i) Annex D – low charging material property was added.

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

Draft	Report on voting
101/649/FDIS	101/660/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).

A list of all parts in the IEC 61340 series, published under the general title *Electrostatics*, 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 [webstore.iec.ch](http://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.

## INTRODUCTION

Packaging is necessary to protect electrostatic discharge sensitive devices (ESDSs) from static electricity and electrostatic discharge (ESD) damage as well as physical and environmental damage during manufacture, transportation and storage.

## **ELECTROSTATICS –**

### **Part 5-3: Protection of electronic devices from electrostatic phenomena – Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices**

#### **1 Scope**

This part of IEC 61340 defines the ESD protective packaging properties required to protect ESD sensitive devices (ESDSs) through all phases of production, rework and maintenance, transport and storage. Test methods are referenced to evaluate packaging and packaging materials for these product and material properties. Performance limits are provided.

This document does not address protection from electromagnetic interference (EMI), electromagnetic pulsing (EMP) or protection of electrically initiated explosive materials or devices.

#### **2 Normative references**

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IEC 61340-2-3, *Electrostatics – Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation*

IEC 61340-4-8, *Electrostatics – Part 4-8: Standard test methods for specific applications – Electrostatic discharge shielding – Bags*

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