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BSI Standards Publication

Electrical accessories – Harmonization of general rules

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National foreword

This Published Document is the UK implementation of IEC/TR 61916:2017. It supersdes PD IEC/TR 61916:2014 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PEL/23, Electrical accessories.

A list of organizations represented on this committee can be obtained on request to its secretary.

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TECHNICAL REPORT

colour inside

Electrical accessories – Harmonization of general rules

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTRICAL ACCESSORIES – HARMONIZATION OF GENERAL RULES

FOREWORD

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The main task of IEC technical committees is to prepare International Standards. However, a technical committee may propose the publication of a Technical Report when it has collected data of a different kind from that which is normally published as an International Standard, for example "state of the art".

IEC TR 61916, which is a Technical Report, has been prepared by IEC technical committee 23: Electrical accessories.

This fourth edition cancels and replaces the third edition published in 2014 and constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

a) clarification of the introduction and the scope;
b) clarification of subclause 6.3;
c) modification of Clause 7;
d) modification of Clause 10;
e) addition of Annex B for temperature selection for GWEPT.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
23/742/DTR	23/766/RVDTR

Full information on the voting for the approval of this Technical Report 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.

In this Technical Report, the following print types are used:

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

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- withdrawn,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

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication 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

The purpose of this document is to have harmonized rules on the same subjects in all the standards published by IEC TC 23 and its subcommittees, in order to give coordinated indications to subcommittees when developing their standards.

These recommendations are meant as a guide. Consequently, subcommittees, according to their own particularities, can use whole or part of the document, which is not meant to be compulsory.

In this document, the word “shall” is used only to illustrate how the relevant requirement should be implemented in a product standard and does not itself imply a product requirement within this document.

In publishing these recommendations, IEC TC 23 wishes to spread the information so that other committees of the IEC can use these recommendations, if necessary.

ELECTRICAL ACCESSORIES – HARMONIZATION OF GENERAL RULES

1 Scope

This document, which is a Technical Report, provides guidance on requirements and tests for subjects applicable to electrical accessories that are within the scope of IEC TC 23 and its subcommittees.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

3.1
tracking
progressive formation of conductive paths, which are produced on the surface of or within a solid insulating material, due to the combined effects of electric stress and electrolytic contamination

[SOURCE: IEC 60050-212:2010, 212-11-56, modified – The note has been deleted.]

3.2
electric erosion
wearing away of insulating material by the action of electric discharges

[SOURCE: IEC 60050-212:2010, 212-11-55]

3.3
comparative tracking index
CTI
numerical value of the maximum voltage in volts at which a material withstands 50 drops without tracking

Note 1 to entry: The value of each test voltage and the CTI should be divisible by 25.

[SOURCE: IEC 60050-212:2010, 212-11-59, modified – In the definition, the number of drops is specified and the text "and without a persistent flame occurring under specified test conditions" has been removed at the end of the definition. Note 1 to entry has been added.]