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Elektroizolačné systémy Postupy tepelného hodnotenia Časť 31: Aplikácie s navrhovanou životnosťou 5 000 hodín alebo menšou

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Electrical insulation systems - Procedures for thermal evaluation - Part 31: Applications with a designed life of 5 000 h or less

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

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English Version

Electrical insulation systems - Procedures for thermal evaluation
 - Part 31: Applications with a designed life of 5 000 h or less
 (IEC 61857-31:2017)

Systèmes d'isolement électrique - Modes opératoires pour l'évaluation thermique - Partie 31 : Applications à durée de vie nominale inférieure à 5 000 heures (IEC 61857-31:2017)

Elektrische Isoliersysteme - Verfahren zur thermischen Bewertung - Teil 31: Anwendungen mit einer vorgesehenen Betriebsdauer von weniger als 5 000 h (IEC 61857-31:2017)

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European foreword

The text of document 112/356/CDV, future edition 1 of IEC 61857-31, prepared by IEC/TC 112 "Evaluation and qualification of electrical insulating materials and systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61857-31:2017.

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)	2017-11-28
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-02-28

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61857 (series) NOTE Harmonized as EN 61857 (series).

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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Publication	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60505	-	Evaluation and qualification of electrical insulation systems	EN 60505	-
IEC 61857-1	-	Electrical insulation systems - Procedures for thermal evaluation Part 1: General requirements - Low-voltage	EN 61857-1	-
IEC 61857-21	-	Electrical insulation systems - Procedures for thermal evaluation Part 21: Specific requirements for general-purpose models Wire-wound applications		-
IEC 61857-22	-	Electrical insulation systems - Procedures for thermal evaluation Part 22: Specific requirements for encapsulated-coil model Wire-wound electrical insulation system (EIS)		-
IEC/TR 61857-2	-	Electrical insulation systems - Procedures for thermal evaluation - Part 2: Selection o the appropriate test method for evaluation and classification of electrical insulation systems		-



IEC 61857-31

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INTERNATIONAL STANDARD

Electrical insulation systems – Procedures for thermal evaluation – Part 31: Applications with a designed life of 5 000 h or less





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IEC 61857-31

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INTERNATIONAL STANDARD

Electrical insulation systems – Procedures for thermal evaluation – Part 31: Applications with a designed life of 5 000 h or less

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL INSULATION SYSTEMS – PROCEDURES FOR THERMAL EVALUATION –

Part 31: Applications with a designed life of 5 000 h or less

FOREWORD

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International Standard IEC 61857-31 has been prepared by IEC technical committee 112: Evaluation and qualification of electrical insulating materials and systems.

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

CDV	Report on voting
112/356/CDV	112/375/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.

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A list of all parts in the IEC 61857 series, published under the general title *Electrical insulation* systems – *Procedures for thermal evaluation*, 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,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

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INTRODUCTION

IEC 61857-1 provides the general structure to be followed for an electrical insulation system (EIS) evaluation and classification.

IEC TR 61857-2 provides guidelines to identify the application and to select the preferred test method based on the application.

This part of IEC 61857 provides a test method for EIS applications, such as the automotive industry, when the designed life is 5 000 h or less.

The selection of this test method can be decided by the end product application.

ELECTRICAL INSULATION SYSTEMS – PROCEDURES FOR THERMAL EVALUATION –

Part 31: Applications with a designed life of 5 000 h or less

1 Scope

This part of IEC 61857 establishes an EIS evaluation for applications with a designed life of 5 000 h or less. This test method follows the procedures of IEC 60505 and is modified based on the range of designed life.

2 Normative references

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.

IEC 60505, Evaluation and qualification of electrical insulation systems

IEC 61857-1, Electrical insulation systems – Procedures for thermal evaluation – Part 1: General requirements – Low-voltage

IEC TR 61857-2, Electrical insulation systems – Procedures for thermal evaluation – Part 2: Selection of the appropriate test method for evaluation and classification of electrical insulation systems

IEC 61857-21, Electrical insulation systems – Procedures for thermal evaluation – Part 21: Specific requirements for general-purpose models – Wire-wound applications

IEC 61857-22, Electrical insulation systems – Procedures for thermal evaluation – Part 22: Specific requirements for encapsulated-coil model – Wire-wound electrical insulation system (EIS)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN