

SLOVENSKI STANDARD SIST EN 60034-18-32:2011

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Nadomešča:

SIST-TP CLC/TR 60034-18-32:2005

Električni rotacijski stroji - 18-32. del: Funkcionalno vrednotenje izolacijskih sistemov - Preskusni postopki za predhodno oblikovana navitja - Električno vrednotenje izolacijskih sistemov, ki se uporabljajo za stroje (IEC 60034-18-32:2010)

Rotating electrical machines - Part 18-32: Functional evaluation of insulation systems - Test procedures for form-wound windings - Evaluation of electrical endurance of insulation systems used in rotating electrical machines (IEC 60034-18-32:2010)

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Drehende elektrische Maschinen - Teil 18-32: Funktionelle Bewertung von Isoliersystemen - Prüfverfahren für Wicklungen mit vorgeformten Elementen -- Bewertung der elektrischen Lebensdauer (IEC 60034-18-32:2010)

Machines électriques tournantes - Partie 18-32: Evaluation fonctionnelle des systèmes d'isolation - Procédures d'essai pour enroulements préformés - Evaluation de l'endurance électrique des systèmes d'isolation utilisés dans les machines électriques tournantes (CEI 60034-18-32:2010)

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en

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EUROPEAN STANDARD

EN 60034-18-32

NORME EUROPÉENNE EUROPÄISCHE NORM

December 2010

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Supersedes CLC/TR 60034-18-32:2004

English version

Rotating electrical machines Part 18-32: Functional evaluation of insulation systems Test procedures for form-wound windings Evaluation by electrical endurance

(IEC 60034-18-32:2010)

Machines électriques tournantes -

Partie 18-32: Evaluation fonctionnelle des

systèmes d'isolation -

Procédures d'essai pour enroulements

préformés -

Evaluation par endurance électrique (CEI 60034-18-32:2010)

Drehende elektrische Maschinen -Teil 18-32: Funktionelle Bewertung von Isoliersystemen -Prüfverfahren für Wicklungen mit

Prüfverfahren für Wicklungen mit vorgeformten Elementen -

Bewertung der elektrischen Lebensdauer (IEC 60034-18-32:2010)

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 2/1580/CDV, future edition 1 of IEC 60034-18-32, prepared by IEC TC 2, Rotating machinery, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60034-18-32 on 2010-12-01.

This European Standard supersedes CLC/TR 60034-18-32:2004.

The main technical changes with regard to CLC/TR 60034-18-32:2004 are as follows:

- a) simplification of clauses;
- b) reduction in the number of test procedures;
- c) inclusion of full bars and coils as test objects;
- d) a new clause dealing with failures and failure criteria.

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The following dates were fixed:

latest date by which the EN has to be implemented at national level by publication of an identical ARD PREVIEW national standard or by endorsement (dop)

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– latest date by which the national standards conflicting

with the EN have to be withdrawn SIST EN 60034-18-32:2011 (dow)

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2013-12-01

Annex ZA has been added by CENELEGae6bf/sist-en-60034-18-32-2011

Endorsement notice

The text of the International Standard IEC 60034-18-32:2010 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC/TS 60034-18-33 NOTE Harmonized as CLC/TS 60034-18-331).

IEC/TS 60034-18-42 NOTE Harmonized as CLC/TS 60034-18-42¹⁾.

1) At draft stage.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60034-1 (mod)	-	Rotating electrical machines - Part 1: Rating and performance	EN 60034-1	-
IEC 60034-15	2009	Rotating electrical machines - Part 15: Impulse voltage withstand levels of form-wound stator coils for rotating a.c. machines	EN 60034-15	2009
IEC 60034-18-1	2010	Rotating electrical machines PRFVIF Part 18-1: Functional evaluation of insulation systems - General guidelines h. ai	EŇ 60034-18-1	2010

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NORME INTERNATIONALE

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SIST EN 60034-18-32:2011

Machines électriques tournantes log/standards/sist/a0571044-9825-49a7-b6fe-

Partie 18-32: Evaluation fonctionnelle des systèmes d'isolation – Procédures d'essai pour enroulements préformés – Evaluation par endurance électrique

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES -

Part 18-32: Functional evaluation of insulation systems – Test procedures for form-wound windings – Evaluation by electrical endurance

FOREWORD

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International Standard IEC 60034-18-32 has been prepared by IEC technical committee 2: Rotating machinery.

This first edition cancels and replaces IEC/TS 60034-18-32, published in 1995 and constitutes a technical revision.

The main technical changes with regard to the previous technical specification are as follows.

- a) simplification of clauses;
- b) reduction in the number of test procedures;
- c) inclusion of full bars and coils as test objects;
- d) a new clause dealing with failures and failure criteria.

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

CDV	Report on voting	
2/1580/CDV	2/1602/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.

A list of all parts of the IEC 60034 series, published under the general title *Rotating electrical machines*, can be found on the IEC website.

NOTE A table of cross-references of all IEC TC 2 publications can be found in the IEC TC 2 dashboard on the IEC website.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

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

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INTRODUCTION

Part 1 of IEC 60034-18 presents general principles for the evaluation of insulation systems used in rotating electrical machines.

This standard deals exclusively with insulation systems for form-wound windings and concentrates on electrical functional evaluation.

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