



SLOVENSKI STANDARD
SIST EN 62059-41:2006

01-oktober-2006

Oprema za merjenje električne energije – Zagotovljivost – 41. del: Napovedovanje zanesljivosti (IEC 62059-41:2006)

Electricity metering equipment - Dependability -- Part 41: Reliability prediction

Wechselstrom-Elektrizitätszähler - Zuverlässigkeit -- Teil 41: Zuverlässigkeitsvorhersage

Equipements de comptage de l'électricité - Surêté de fonctionnement -- Partie 41: Prévission de fiabilité

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Ta slovenski standard je istoveten z: EN 62059-41:2006

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ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

SIST EN 62059-41:2006

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62059-41

May 2006

ICS 91.140.50

English version

**Electricity metering equipment -
Dependability
Part 41: Reliability prediction
(IEC 62059-41:2006)**

Equipements de comptage de l'électricité -
Surûte de fonctionnement
Partie 41: Prévion de fiabilité
(CEI 62059-41:2006)

Wechselstrom-Elektrizitätszähler -
Zuverlässigkeit
Teil 41: Zuverlässigkeitsvorhersage
(IEC 62059-41:2006)

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This European Standard was approved by CENELEC on 2006-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CENELEC member.

This European Standard exists 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 13/1348/FDIS, future edition 1 of IEC 62059-41, prepared by IEC TC 13, Equipment for electrical energy measurement and load control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62059-41 on 2006-02-01.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2007-01-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2009-02-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62059-41:2006 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 60300-3-1 NOTE Harmonized as EN 60300-3-1:2004 (not modified).

IEC 61078 NOTE Harmonized as EN 61078:1993 (not modified).

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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>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-191	1990	International Electrotechnical Vocabulary	-	-
+ A1	1999	(IEV)	-	-
+ A2	2002	Chapter 191: Dependability and quality of service	-	-
IEC 61709	1996	Electronic components - Reliability - Reference conditions for failure rates and stress models for conversion	EN 61709	1998
IEC/TR 62059-11	2002	Electricity metering equipment - Dependability - Part 11: General concepts		-
IEC/TR 62059-21	2002	Electricity metering equipment - Dependability - Part 21: Collection of meter dependability data from the field		-

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

62059-41

Première édition
First edition
2006-03

**Equipements de comptage de l'électricité –
Sûreté de fonctionnement –**

**Partie 41:
Prévision de fiabilité**

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**Electricity metering equipment –
Dependability –**

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**Part 41:
Reliability prediction**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING EQUIPMENT –
DEPENDABILITY –****Part 41: Reliability prediction**

FOREWORD

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International Standard IEC 62059-41 has been prepared by Technical Committee 13: Equipment for electrical energy measurement and load control.

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

FDIS	Report on voting
13/1348/FDIS	13/1359/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 2.

IEC 62059 consists of the following parts, under the general title *Electricity metering equipment – Dependability*:

Part 11: General concepts

Part 21: Collection of meter dependability data from the field

Part 41: Reliability prediction

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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

The main objective is to provide a tool for predicting the failure rate of electricity metering equipment using the parts stress method. It also provides an overview of reliability analysis and prediction methods.

The result of the prediction can be used in the design phase to support design decisions, in relation with type approval to support decisions concerning the certification period and in the operation phase to determine the necessary maintenance performance to obtain the required availability.

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