

Svenska Elektriska Kommissionen, SEK

Fastställt	Utgåva	Sida	Ingår i
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Elmätare -

Del 11: Fordringar på elektromekaniska mätare för aktiv energi av noggrannhetsklass 0,5, 1 och 2

*Electricity metering equipment (a.c) –**Particular requirements –**Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)*

Som svensk standard gäller europastandarden EN 62053-11:2003. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62053-11:2003.

Nationellt förord

Europastandarden EN 62053-11:2003

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62053-11, First edition, 2003 - Electricity metering equipment (a.c) - Particular requirements - Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)**

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare utgiven svensk standard SS-EN 60521, utgåva 1, 1995 och SS-EN 60521 C1, utgåva 1, 1998, gäller ej fr o m 2006-03-01.

Standarder underlättar utvecklingen och höjer elsäkerheten

Det finns många fördelar med att ha gemensamma tekniska regler för bl a säkerhet, prestanda, dokumentation, utförande och skötsel av elprodukter, elanläggningar och metoder. Genom att utforma sådana standarder blir säkerhetskraven tydliga och utvecklingskostnaderna rimliga samtidigt som marknadens acceptans för produkten eller tjänsten ökar.

Många standarder inom elområdet beskriver tekniska lösningar och metoder som åstadkommer den elsäkerhet som föreskrivs av svenska myndigheter och av EU.

SEK är Sveriges röst i standardiseringsarbetet inom elområdet

Svenska Elektriska Kommissionen, SEK, svarar för standardiseringen inom elområdet i Sverige och samordnar svensk medverkan i internationell och europeisk standardisering. SEK är en ideell organisation med frivilligt deltagande från svenska myndigheter, företag och organisationer som vill medverka till och påverka utformningen av tekniska regler inom elektrotekniken.

SEK samordnar svenska intressenters medverkan i SEKs tekniska kommittéer och stödjer svenska experters medverkan i internationella och europeiska projekt.

Stora delar av arbetet sker internationellt

Utformningen av standarder sker i allt väsentligt i internationellt och europeiskt samarbete. SEK är svensk nationalkommitté av International Electrotechnical Commission (IEC) och Comité Européen de Normalisation Electrotechnique (CENELEC).

Standardiseringsarbetet inom SEK är organiserat i referensgrupper bestående av ett antal tekniska kommittéer som speglar hur arbetet inom IEC och CENELEC är organiserat.

Arbetet i de tekniska kommittéerna är öppet för alla svenska organisationer, företag, institutioner, myndigheter och statliga verk. Den årliga avgiften för deltagandet och intäkter från försäljning finansierar SEKs standardiseringsverksamhet och medlemsavgift till IEC och CENELEC.

Var med och påverka!

Den som deltar i SEKs tekniska kommittéarbete har möjlighet att påverka framtida standarder och får tidig tillgång till information och dokumentation om utvecklingen inom sitt teknikområde. Arbetet och kontakterna med kollegor, kunder och konkurrenter kan gynnsamt påverka enskilda företags affärsutveckling och bidrar till deltagarnas egen kompetensutveckling.

Du som vill dra nytta av dessa möjligheter är välkommen att kontakta SEKs kansli för mer information.

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English version

**Electricity metering equipment (a.c.) –
Particular requirements
Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)
(IEC 62053-11:2003)**

Equipement de comptage
de l'électricité (c.a.) –
Prescriptions particulières
Partie 11: Compteurs électromécaniques
d'énergie active (classes 0,5, 1 et 2)
(CEI 62053-11:2003)

Wechselstrom-Elektrizitätszähler -
Besondere Anforderungen
Teil 11: Elektromechanische
Wirkverbrauchszähler der
Genauigkeitsklassen 0,5, 1 und 2
(IEC 62053-11:2003)

This European Standard was approved by CENELEC on 2003-03-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and 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 13/1287/FDIS, future edition 1 of IEC 62053-11, 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 62053-11 on 2003-03-01.

This European Standard supersedes EN 60521:1995 + corrigendum December 1997.

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) 2003-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-03-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62053-11:2003 was approved by CENELEC as a European Standard without any modification.

Annex ZA
(normative)

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

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60514 (mod)	1975	Acceptance inspection of Class 2 alternating-current watthour meters	EN 60514	1995
IEC 60736	1982	Testing equipment for electrical energy meters	-	-
IEC 62052-11	2003	Electricity metering equipment (AC) - General requirements, tests and test conditions Part 11: Metering equipment	EN 62052-11	2003

CONTENTS

1	Scope	9
2	Normative references.....	9
3	Terms and definitions	9
4	Standard electrical values.....	11
5	Mechanical Requirements.....	11
5.1	General	11
5.2	Register (counting mechanism).....	11
5.3	Direction of rotation and marking of the rotor	11
6	Climatic conditions.....	11
7	Electrical requirements	11
7.1	Power consumption	11
7.2	Influence of short-time overcurrents.....	13
7.3	Influence of self-heating	15
7.4	AC voltage test.....	15
8	Accuracy requirements	19
8.1	Limits of error due to variation of the current	19
8.2	Limits of error due to influence quantities	19
8.3	Test of starting and no-load condition	23
8.4	Meter constant.....	23
8.5	Accuracy test conditions	23
8.6	Interpretation of test results	27
9	Adjustment	27
	Table 1 – Power consumption in voltage circuits	13
	Table 2 – Power consumption in current circuits.....	13
	Table 3 – Variations due to short-time overcurrents	15
	Table 4 – Variations due to self-heating	15
	Table 5 – AC voltage tests	17
	Table 6 – Percentage error limits (single-phase meters and polyphase meters with balanced loads).....	19
	Table 7 – Percentage error limits (polyphase meters carrying a single-phase load, but with balanced polyphase voltages applied to voltage circuits).....	19
	Table 8 – Influence quantities	21
	Table 9 – Starting current.....	23
	Table 10 – Voltage and current balance	25
	Table 11 – Reference conditions	25
	Table 12 – Interpretation of test results	27
	Table 13 – Minimum range of adjustment	29

ELECTRICITY METERING EQUIPMENT (AC) – PARTICULAR REQUIREMENTS –

Part 11: Electromechanical meters for active energy (classes 0,5, 1 and 2)

1 Scope

This part of IEC 62053 applies only to newly manufactured electromechanical watt-hour meters of accuracy classes 0,5, 1 and 2, for the measurement of alternating current electrical active energy in 50 Hz or 60 Hz networks and it applies to their type tests only.

It applies only to electromechanical watt-hour meters for indoor and outdoor application consisting of a measuring element and register(s) enclosed together in a meter case. It also applies to operation indicator(s) and test output(s). If the meter has a measuring element for more than one type of energy (multi-energy meters), or when other functional elements, like maximum demand indicators, electronic tariff registers, time switches, ripple control receivers, data communication interfaces, etc. are enclosed in the meter case, then the relevant standards for these elements also apply.

It does not apply to:

- watt-hour meters where the voltage across the connection terminals exceeds 600 V (line-to-line voltage for meters for polyphase systems);
- portable meters;
- data interfaces to the register of the meter.

Regarding acceptance tests, a basic guideline is given in IEC 60514.

The dependability aspect is covered by the documents of the IEC 62059 series.

2 Normative references

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.

IEC 60514:1975, *Acceptance inspection of Class 2 alternating-current watt-hour meters*

IEC 60736:1982, *Testing equipment for electrical energy meters*

IEC 62052-11:2003, *Electricity metering equipment (a.c.) – General requirements, tests and test conditions – Part 11: Metering equipment*