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Standards

Irish Standard
I.S. EN 61869-2:2012

Instrument transformers -- Part 2: Additional requirements for current transformers (IEC 61869-2:2012 (EQV))

I.S. EN 61869-2:2012

Incorporating amendments/corrigenda issued since publication:

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i> EN 60044-1:1999 +A1:2000 +A2:2003 EN 60044-6:1999	<i>This document is based on:</i> EN 61869-2:2012 EN 60044-6:1999	<i>Published:</i> 16 November, 2012 16 March, 1999
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I.S. EN 61869-2:2012

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61869-2

November 2012

ICS 17.220.20

Supersedes EN 60044-1:1999 + A1:2000 + A2:2003, EN 60044-6:1999

English version

Instrument transformers -
Part 2: Additional requirements for current transformers
(IEC 61869-2:2012)

Transformateurs de mesure -
Partie 2: Exigences supplémentaires
concernant les transformateurs de courant
(CEI 61869-2:2012)

Messwandler -
Teil 2: Zusätzliche Anforderungen für
Stromwandler
(IEC 61869-2:2012)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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CENELEC

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 38/435/FDIS, future edition 1 of IEC 61869-2, prepared by IEC/TC 38, "Instrument transformers" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61869-2:2012.

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) 2013-07-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-10-23

This document supersedes EN 60044-1:1999 + A1:2000 + A2:2003 and EN 60044-6:1999.

Additionally it introduces technical innovations in the standardization and adaptation of the requirements for current transformers for transient performance.

This Part 2 is to be used in conjunction with, and is based on, EN 61869-1:2009, *General Requirements* – however the reader is encouraged to use its most recent edition.

This Part 2 follows the structure of EN 61869-1:2009 and supplements or modifies its corresponding clauses.

When a particular clause/subclause of Part 1 is not mentioned in this Part 2, that clause/subclause applies as far as is reasonable. When this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

For additional clauses, subclauses, figures, tables, annexes or notes, the following numbering system is used:

– clauses, subclauses, tables, figures and notes that are numbered starting from 201 are additional to those in Part 1;

– additional annexes are lettered 2A, 2B, etc.

Annex ZZ of EN 61869-1 is not applicable for this part of the series.

An overview of the planned set of standards at the date of publication of this document is given below. The updated list of standards prepared by IEC TC38 is available at the website: www.iec.ch; the updated list of standards prepared by IEC TC38 and approved by CENELEC is available at the website: www.cenelec.eu.

I.S. EN 61869-2:2012

- 3 -

EN 61869-2:2012

PRODUCT FAMILY STANDARDS		PRODUCT STANDARD	PRODUCTS	OLD STANDARD
61869-1 GENERAL REQUIREMENTS FOR INSTRUMENT TRANSFORMERS	61869-6 ADDITIONAL GENERAL REQUIREMENT FOR ELECTRONIC INSTRUMENT TRANSFORMERS AND LOW POWER STAND ALONE SENSORS	61869-2	ADDITIONAL REQUIREMENTS FOR CURRENT TRANSFORMERS	60044-1
		61869-3	ADDITIONAL REQUIREMENTS FOR INDUCTIVE VOLTAGE TRANSFORMERS	60044-2
		61869-4	ADDITIONAL REQUIREMENTS FOR COMBINED TRANSFORMERS	60044-3
		61869-5	ADDITIONAL REQUIREMENTS FOR CAPACITIVE VOLTAGE TRANSFORMERS	60044-5
		61869-7	ADDITIONAL REQUIREMENTS FOR ELECTRONIC VOLTAGE TRANSFORMERS	60044-7
		61869-8	ADDITIONAL REQUIREMENTS FOR ELECTRONIC CURRENT TRANSFORMERS	60044-8
		61869-9	DIGITAL INTERFACE FOR INSTRUMENT TRANSFORMERS	
		61869-10	ADDITIONAL REQUIREMENTS FOR LOW-POWER STAND-ALONE CURRENT SENSORS	
		61869-11	ADDITIONAL REQUIREMENTS FOR LOW POWER STAND ALONE VOLTAGE SENSOR	60044-7
		61869-12	ADDITIONAL REQUIREMENTS FOR COMBINED ELECTRONIC INSTRUMENT TRANSFORMER OR COMBINED STAND ALONE SENSORS	
		61869-13	STAND ALONE MERGING UNIT	

Since the publication of EN 60044-6 (*Requirements for protective current transformers for transient performance*) in 1999, the area of application of this kind of current transformers has been extended. As a consequence, the theoretical background for the dimensioning according to the electrical requirements has become much more complex. In order to keep this standard as user-friendly as possible, the explanation of the background information will be transferred to the Technical Report IEC/TR 61869-100, which is now in preparation.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC).

Endorsement notice

The text of the International Standard IEC 61869-2:2012 was approved by CENELEC as a European Standard without any modification.

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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Addition to Annex ZA of EN 61869-1:2009:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61869-1 (mod)	2007	Instrument transformers - Part 1: General requirements	EN 61869-1	2009

CONTENTS

FOREWORD.....	5
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	8
3.1 General definitions	8
3.3 Definitions related to current ratings	9
3.4 Definitions related to accuracy	10
3.7 Index of abbreviations	18
5 Ratings.....	20
5.3 Rated insulation levels.....	20
5.3.2 Rated primary terminal insulation level	20
5.3.5 Insulation requirements for secondary terminals	20
5.3.201 Inter-turn insulation requirements	20
5.5 Rated output.....	20
5.5.201 Rated output values	20
5.5.202 Rated resistive burden values	20
5.6 Rated accuracy class.....	21
5.6.201 Measuring current transformers	21
5.6.202 Protective current transformers	22
5.6.203 Class assignments for selectable-ratio current transformers	26
5.201 Standard values for rated primary current.....	26
5.202 Standard values for rated secondary current.....	27
5.203 Standard values for rated continuous thermal current	27
5.204 Short-time current ratings	27
5.204.1 Rated short-time thermal current (I_{th})	27
5.204.2 Rated dynamic current (I_{dyn})	27
6 Design and construction	27
6.4 Requirements for temperature rise of parts and components	27
6.4.1 General	27
6.13 Markings.....	27
6.13.201 Terminal markings.....	27
6.13.202 Rating plate markings.....	28
7 Tests	30
7.1 General	30
7.1.2 Lists of tests	30
7.2 Type tests.....	31
7.2.2 Temperature-rise test	31
7.2.3 Impulse voltage withstand test on primary terminals	33
7.2.6 Tests for accuracy.....	33
7.2.201 Short-time current tests	35
7.3 Routine tests	36
7.3.1 Power-frequency voltage withstand tests on primary terminals	36
7.3.5 Tests for accuracy	36
7.3.201 Determination of the secondary winding resistance (R_{ct}).....	38
7.3.202 Determination of the secondary loop time constant (T_s).....	38

7.3.203	Test for rated knee point e.m.f. (E_k) and exciting current at E_k	39
7.3.204	Inter-turn overvoltage test	39
7.4	Special tests	40
7.4.3	Measurement of capacitance and dielectric dissipation factor	40
7.4.6	Internal arc fault test	40
7.5	Sample tests.....	41
7.5.1	Determination of the remanence factor	41
7.5.2	Determination of the instrument security factor (FS) of measuring current transformers	41
Annex 2A (normative)	Protective current transformers classes P, PR.....	42
Annex 2B (normative)	Protective current transformer classes for transient performance	47
Annex 2C (normative)	Proof of low-leakage reactance type	63
Annex 2D (informative)	Technique used in temperature rise test of oil-immersed transformers to determine the thermal constant by an experimental estimation	64
Annex 2E (informative)	Alternative measurement of the ratio error (ε).....	66
Annex 2F (normative)	Determination of the turns ratio error	68
Figure 201	– Duty cycles	15
Figure 202	– Primary time constant T_P	16
Figure 203	– Secondary linked flux for different fault inception angles γ	17
Figure 2A.1	– Vector Diagram	42
Figure 2A.2	– Error triangle.....	43
Figure 2A.3	– Typical current waveforms	44
Figure 2A.4	– Basic circuit for 1:1 current transformer	44
Figure 2A.5	– Basic circuit for current transformer with any ratio.....	45
Figure 2A.6	– Alternative test circuit	45
Figure 2B.1	– Short-circuit current for two different fault inception angles	48
Figure 2B.2	– $\psi_{\max}(t)$ as the curve of the highest flux values, considering all relevant fault inception angles γ	48
Figure 2B.3	– Relevant time ranges for calculation of transient factor	49
Figure 2B.4	– Determination of K_{tf} in time range 1 at 50 Hz for $T_s = 1,8$ s	50
Figure 2B.5	– Determination of K_{tf} in time range 1 at 60 Hz for $T_s = 1,5$ s	50
Figure 2B.6	– Determination of K_{tf} in time range 1 at 16,7 Hz for $T_s = 5.5$ s	50
Figure 2B.7	– Limiting the magnetic flux by considering core saturation.....	52
Figure 2B.8	– Basic circuit	53
Figure 2B.9	– Determination of remanence factor by hysteresis loop	55
Figure 2B.10	– Circuit for d.c. method.....	56
Figure 2B.11	– Time-amplitude and flux-current diagrams	56
Figure 2B.12	– Recordings with shifted flux base line	57
Figure 2B.13	– Circuit for capacitor discharge method	58
Figure 2B.14	– Typical records for capacitor discharge method	59
Figure 2B.15	– Measurement of error currents	60
Figure 2D.1	– Graphical extrapolation to ultimate temperature rise	65
Figure 2E.1	– Simplified equivalent circuit of the current transformer	66

Table 201 – Limits of ratio error and phase displacement for measuring current transformers (classes 0,1 to 1).....	21
Table 202 – Limits of ratio error and phase displacement for measuring current transformers (classes 0,2S and 0,5S)	22
Table 203 – Limits of ratio error for measuring current transformers (classes 3 and 5).....	22
Table 204 – Characterisation of protective classes	23
Table 205 – Error limits for protective current transformers class P and PR	23
Table 206 – Error limits for TPX, TPY and TPZ current transformers.....	25
Table 207 – Specification Methods for TPX, TPY and TPZ current transformers	26
Table 208 – Marking of terminals	28
Table 10 – List of tests	31

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INSTRUMENT TRANSFORMERS –

Part 2: Additional requirements for current transformers

FOREWORD

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This International Standard IEC 61869-2 Ed.1.0 has been prepared by committee 38: Instrument transformers.

This first edition of IEC 61869-2 cancels and replaces the first edition of IEC 60044-1, published in 1996, and its Amendment 1 (2000) and Amendment 2 (2002), and the first edition of IEC 60044-6, published in 1992. Additionally it introduces technical innovations in the standardization and adaptation of the requirements for current transformers for transient performance.

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

FDIS	Report on voting
38/435/FDIS	38/437/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.

A list of all the parts in the IEC 61869 series, published under the general title *Instrument transformers*, can be found on the IEC website.

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I.S. EN 61869-2:2012

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– 7 –

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The committee has decided that the contents of this 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
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