Electrical installations for lighting and beaconing of aerodromes - Constant current regulators

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 61822:2009 sisaldab Euroopa standardi EN 61822:2009 ingliskeelset teksti.	This Estonian standard EVS-EN 61822:2009 consists of the English text of the European standard EN 61822:2009.
Standard on kinnitatud Eesti Standardikeskuse 31.08.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 31.08.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 15.07.2009.	Date of Availability of the European standard text 15.07.2009.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 29.140.50, 93.120

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61822

July 2009

ICS 29.140.50; 93.120

Supersedes EN 61822:2003

English version

Electrical installations for lighting and beaconing of aerodromes - Constant current regulators

(IEC 61822:2009)

Installations électriques pour l'éclairage et le balisage des aérodromes - Régulateurs de courant constant (CEI 61822:2009)

Elektrische Anlagen für Beleuchtung und Befeuerung von Flugplätzen - Konstantstromregler (IEC 61822:2009)

This European Standard was approved by CENELEC on 2009-06-01. 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, Bulgaria, 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: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 61822:2009 E

Foreword

The text of document 97/135/FDIS, future edition 2 of IEC 61822, prepared by IEC TC 97, Electrical installations for lighting and beaconing of aerodromes, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61822 on 2009-06-01.

This European Standard supersedes EN 61822:2003.

EN 61822:2009 includes the following significant technical changes with respect to EN 61822:2003:

– revision and update of terms and definitions;

– addition of new subclauses, such as "Nominal output current range and tolerances";

– modification of some subclauses, such as those related to "Local control" and "Remote control";

– deletion of some subclauses, in particular "Power transformers" and "Output current indicator".

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)	2010-03-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2012-06-01

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61822:2009 was approved by CENELEC as a European Standard without any modification.

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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.

Publication	Year	Title	EN/HD	Year
IEC 60038 (mod)	-[1)]	IEC standard voltages[2)]	HD 472 S1 + corr. February A1	1989[3)] 2002 1995
IEC 60439-1	1999	Low-voltage switchgear and controlgear assemblies - Part 1: Type-tested and partially type-tested assemblies	EN 60439-1	1999
IEC 60529	-[1)]	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991[3)] 1993
IEC 61000-6-2	-[1)]	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	EN 61000-6-2 + corr. September	2005[3)] 2005
IEC 61000-6-4	-[1)]	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	EN 61000-6-4	2007[3)]
IEC/TS 61000-6-5	-[1)]	Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for power station and substation environments	-	-
IEC 61024-1	-[1)]	Protection of structures against lightning - Part 1: General principles	-	-
IEC 61140	-[1)]	Protection against electric shock - Common aspects for installation and equipment	EN 61140	2002[3)]
IEC 61439-1	2009	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	-	-
IEC 62305-1	-[1)]	Protection against lightning - Part 1: General principles	EN 62305-1 + corr. November	2006[3)] 2006
IEC 62305-3 (mod)	-[1)]	Protection against lightning - Part 3: Physical damage to structures and life hazard	EN 62305-3 + corr. September + A11	2006[3)] 2008 2009
CISPR 11 (mod)	-[1)]	Industrial scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	EN 55011	2007[3)]

[1)] Undated reference.

[2)] The title of HD 472 S1 is: Nominal voltages for low-voltage public electricity supply systems.

[3)] Valid edition at date of issue.

Publication	Year	Title	EN/HD	Year
CISPR 22	-[1)]	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	-	-

CONTENTS

ELECTRICAL INSTALLATIONS FOR LIGHTING AND BEACONING OF AERODROMES – CONSTANT CURRENT REGULATORS

1 Scope

This International Standard specifies the requirements for a Constant Current Regulator (CCR) having a nominal output of 6,6 A for use in an aeronautical ground lighting constant current series circuit. However, CCRs may be manufactured which have a different power rating (kVA) and current steps than those specified in this standard in order to be used on existing circuits. This standard should be applied where appropriate for these CCRs.

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 60038, *IEC standard voltages*

IEC 60439-1:1999, *Low-voltage switchgear and control gear assemblies – Part 1: Type-tested and partially type-tested assemblies*

IEC 60529*, Degrees of protection provided by enclosures (IP Code)*

IEC 61000-6-2*, Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments*

IEC 61000-6-4, *Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments*

IEC/TS 61000-6-5, *Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for power station and substation environments*

IEC 61024-1, *Protection of structures against lightning – Part 1: General principles*

IEC 61140, *Protection against electric shock – Common aspects for installation and equipment*

IEC 61439-1:2009, *Low-voltage switchgear and controlgear assemblies – Part 1: General rules*

IEC 62305-1, *Protection against lightning – Part 1: General principles*

IEC 62305-3, *Protection against lightning – Part 3: Physical damage to structures and life hazard*

CISPR 11, *Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement*

CISPR 22, *Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement*