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Industrijski in komercialni sistemi električnih uporovnih grelnih trakov - 2. del: Vodilo za načrtovanje sistema, namestitev in vzdrževanje (IEC/TS 62395-2:2008)

Electrical resistance trace heating systems for industrial and commercial applications - Part 2: Application guide for system design, installation and maintenance (IEC/TS 62395-2:2008)

Elektrische Begleitheizungen (Trace- Widerstandsheizungen) für industrielle und gewerbliche Zwecke - Teil 2: Anwendungsleitfaden für Systementwurf, Installation und Wartung (IEC/TS 62395-2:2008)

Systèmes de traçage par résistance électrique pour applications industrielles et commerciales - Partie 2: Guide d'application pour la conception, l'installation et la maintenance du système (CEI/TS 62395-2:2008)

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(IEC/TS 62395-2:2008)

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Teil 2: Anwendungsleitfaden für Systementwurf, Installation und Wartung
(IEC/TS 62395-2:2008)

This Technical Specification was approved by CENELEC on 2010-10-25.

CENELEC members are required to announce the existence of this TS in the same way as for an EN and to make the TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force.

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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

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Foreword

This Technical Specification consists of the text of the Technical Specification IEC/TS 62395-2:2008 prepared by IEC TC 27, Industrial electroheating.

It was circulated for voting in accordance with the Internal Regulations, Part 2, Subclause 11.3.3.3 and was accepted as a CENELEC Technical Specification on 2010-10-25.

The following date was fixed:

– latest date by which the existence of the CLC/TS has to be announced at national level (doa) 2011-04-25

Annex ZA has been added by CENELEC.

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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 60050-841	-	International Electrotechnical Vocabulary (IEV) - Part 841: Industrial electroheat	-	-
IEC 60519-1	-	Safety in electroheat installations - Part 1: General requirements	EN 60519-1	-
IEC 62395-1	2006	Electrical resistance trace heating systems for industrial and commercial applications - Part 1: General and testing requirements	EN 62395-1	2006

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Electrical resistance trace heating systems for industrial and commercial applications –
Part 2: Application guide for system design, installation and maintenance

Systèmes de traçage par résistance électrique pour applications industrielles et commerciales –
Partie 2: Guide d'application pour la conception, l'installation et la maintenance du système

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL RESISTANCE TRACE HEATING SYSTEMS FOR INDUSTRIAL AND COMMERCIAL APPLICATIONS –

Part 2: Application guide for system design, installation and maintenance

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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– the subject is still under technical development or where, for any other reason, there is the future but no immediate possibility of an agreement on an International Standard.

Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 62395-2, which is a technical specification, has been prepared by IEC technical committee 27: Industrial electroheating equipment.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
27/582/DTS	27/606A/RVC

Full information on the voting for the approval of this technical specification 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 parts of IEC 62395, under the general title *Electrical resistance trace heating systems for industrial and commercial applications*, can be found on the IEC website.

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

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

IEC 62395-1 provides the essential requirements and testing appropriate to electrical resistance trace heating equipment used in industrial and commercial applications. While some of this work already exists in national or international standards, this standard has collated much of this existing work and added considerably to it.

IEC/TS 62395-2 provides detailed recommendations for the system design, installation, maintenance and repair of electrical resistance trace heating systems in industrial and commercial applications which can include piping, vessels, roofs and concrete slab heating applications.

It is the objective of IEC 62395 that, when in normal use, electrical trace heating systems should operate safely under their defined conditions of use, by

a) employing heaters of the appropriate construction so as to meet the test criteria and requirements detailed in IEC 62395-1. The construction should include a metallic sheath, braid, screen or equivalent electrically conductive covering;

b) operating at safe temperatures when designed, installed, and maintained in accordance with IEC/TS 62395-2;

c) having at least the minimum levels of overcurrent and ground fault protection requirements in IEC 62395-1 (2006) (4.3).