
Safety in electroheat installations – Part 3: Particular requirements for induction and conduction heating and induction melting installations

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**27/398/CDV****COMMITTEE DRAFT FOR VOTE (CDV)
PROJET DE COMITÉ POUR VOTE (CDV)**

		Project number Numéro de projet	27/60519-3 Ed.3	
IEC/TC or SC: 27 CEI/CE ou SC:	Date of circulation Date de diffusion 2004-01-09	Closing date for voting (Voting mandatory for P-members) Date de clôture du vote (Vote obligatoire pour les membres (P)) 2004-06-11		
Titre du CE/SC:		TC/SC Title: Industrial electroheating equipment		
Secretary: Prof. T. Skoczowski Secrétaire:				
Also of interest to the following committees Intéresse également les comités suivants		Supersedes document Remplace le document 27/359/CD & 27/381A/CC		
Functions concerned Fonctions concernées <input checked="" type="checkbox"/> Safety Sécurité <input type="checkbox"/> EMC CEM <input type="checkbox"/> Environment Environnement <input type="checkbox"/> Quality assurance Assurance qualité				

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Titre :

Title:

Safety in electroheat installations - Part 3:
Particular requirements for induction and
conduction heating and induction melting
installations

Note d'introduction

Introductory note

This draft has been prepared by MT 24 taking in account 27/381A/CC and the results of discussions and decisions taken at the TC 27 meeting in Montreal (October 2003).

ATTENTION**CDV soumis en parallèle au vote (CEI)
et à l'enquête (CENELEC)****ATTENTION****Parallel IEC CDV/CENELEC Enquiry**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SAFETY IN ELECTROHEAT INSTALLATIONS –
Part 3: Particular requirements for induction and conduction heating and
induction melting installations**

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the 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, the IEC publishes International Standards. 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. The 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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International Standard IEC 60519-3 has been prepared by IEC technical committee 27: Industrial electroheating equipment.

This third edition cancels and replaces the second edition published in 1988 and constitutes a technical revision. Significant changes with respect to the previous edition are as follows:

- the structure has been adjusted to the latest ISO/IEC Directives, in particular the scope, object and introduction of normative references;
- the latest edition of IEC 60519-1/Ed. 3 (2003-07), mainly extension of the scope to cover also voltage band 3 equipment with rated voltages not exceeding 3 600 V AC or 5 000 V DC, has been taken into account;
- definitions have been brought into line with the second edition of IEC 60050-841 (to be published).

This Part of IEC 60519 shall be used in conjunction with the latest edition of IEC 60519-1. It is intended to modify, replace or make additions to IEC 60519-1 for particular requirements for induction and conduction heating and induction melting installations.

This Part of IEC 60519 consists of requirements common to both induction and conduction heating installations and induction melting installations and specific requirements for induction and conduction heating installations (Annex A) and specific requirements for induction melting installations (Annex B).

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

FDIS	Report on voting
27/XXX/FDIS	27/XXX/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.

The committee has decided that the contents of this publication will remain unchanged until _____. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

IEC 60519 consists of the following parts, under the general title *Safety in electroheat installations*:

- Part 1: General requirements
- Part 2: Particular requirements for resistance heating equipment
- Part 3: Particular requirements for induction and conduction heating and induction melting installations
- Part 4: Particular requirements for arc furnace installations
- Part 5: Specifications for safety in plasma installations
- Part 6: Specifications for safety in industrial microwave heating equipment
- Part 7: Particular requirements for installations with electron guns
- Part 8: Particular requirements for electroslag remelting furnaces
- Part 9: Particular requirements for high-frequency dielectric heating installations
- Part 10: Particular requirements for electrical resistance trace heating systems for industrial and commercial applications¹
- Part 11: Particular requirements for installations for electromagnetic stirring, transport or pouring of metal liquids
- Part 21: Particular requirements for resistance heating equipment – Heating and melting glass equipment

NOTE If necessary, additional parts covering particular industrial electroheat equipment may be prepared.

¹ Under preparation