



**SLOVENSKI STANDARD**  
**SIST EN 62135-2:2008**

**01-junij-2008**

**Nadomešča:**  
**SIST EN 50240:2005**

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**Oprema za uporovno varjenje - 2. del: Zahteve za elektromagnetno združljivost (EMC) (IEC 62135-2:2007)**

Resistance welding equipment -- Part 2: Electromagnetic compatibility (EMC) requirements

Widerstandsschweißrichtungen - Teil 2: Anforderungen an die elektromagnetische Verträglichkeit (EMV)

Matériels de soudage par résistance -- Partie 2: Exigences de compatibilité électromagnétique (CEM)

**Ta slovenski standard je istoveten z: EN 62135-2:2008**

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33.100.01	Elektromagnetna združljivost na splošno	Electromagnetic compatibility in general

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EUROPEAN STANDARD

**EN 62135-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2008

ICS 25.160

Supersedes EN 50240:2004

English version

**Resistance welding equipment -  
Part 2: Electromagnetic compatibility (EMC) requirements  
(IEC 62135-2:2007)**

Matériels de soudage par résistance -  
Partie 2: Exigences de compatibilité  
électromagnétique (CEM)  
(CEI 62135-2:2007)

Widerstandsschweißeinrichtungen -  
Teil 2: Anforderungen an die  
elektromagnetische Verträglichkeit (EMV)  
(IEC 62135-2:2007)

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This European Standard was approved by CENELEC on 2008-02-01. 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: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of document 26/342/CDV, future edition 1 of IEC 62135-2, prepared by IEC TC 26, Electric welding, was submitted to the IEC-CENELEC Parallel Unique Acceptance Procedure and was approved by CENELEC as EN 62135-2 on 2008-02-01.

This European Standard supersedes EN 50240:2004 + corrigendum December 2005.

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) 2008-11-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-02-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 2004/108/EC. See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 62135-2:2007 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-161	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) - Chapter 161: Electromagnetic compatibility	-	-
IEC 60050-851	- <sup>1)</sup>	International Electrotechnical Vocabulary (IEV) - Chapter 851: Electric welding	-	-
IEC 61000-3-2	2005	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	EN 61000-3-2	2006
IEC 61000-3-3	1994	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	EN 61000-3-3 + corr. July	1995 1997
A1	2001		A1	2001
A2	2005		A2	2005
IEC 61000-3-11	2000	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection	EN 61000-3-11	2000
IEC 61000-3-12	2004	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	EN 61000-3-12	2005
IEC 61000-4-2	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	EN 61000-4-2	1995 <sup>2)</sup>

<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u> <sup>2)</sup>
IEC 61000-4-3	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3	2006 <sup>2)</sup>
IEC 61000-4-4	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	EN 61000-4-4	2004 <sup>2)</sup>
IEC 61000-4-5	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	EN 61000-4-5	2006 <sup>2)</sup>
IEC 61000-4-6	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6 + corr. August	2007 <sup>2)</sup> 2007
IEC 61000-4-7	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	2002 <sup>2)</sup>
IEC 61000-4-11	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	EN 61000-4-11	2004 <sup>2)</sup>
IEC 61000-4-15	- <sup>1)</sup>	Electromagnetic compatibility (EMC) - Part 4-15: Testing and measurement techniques - Flickermeter - Functional and design specifications	EN 61000-4-15	1998 <sup>2)</sup>
IEC 62135-1	- <sup>3)</sup>	Resistance welding equipment - Part 1: Safety requirements for the design, manufacture and the installation	-	-
CISPR 11 (mod)	2003	Industrial scientific and medical (ISM) radio-frequency equipment - Electromagnetic disturbance characteristics - Limits and methods of measurement	EN 55011 <sup>4)</sup>	2007
CISPR 14-1	- <sup>1)</sup>	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	EN 55014-1	2006 <sup>2)</sup>
CISPR 16-1-1	- <sup>1)</sup>	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus	EN 55016-1-1	2007 <sup>2)</sup>

<sup>3)</sup> At draft stage.

<sup>4)</sup> EN 55011 includes A1:2004 (mod.) to CISPR 11.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
CISPR 16-1-2	– <sup>1)</sup>	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Conducted disturbances	EN 55016-1-2	2004 <sup>2)</sup>
CISPR 16-1-4	– <sup>1)</sup>	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Radiated disturbances	EN 55016-1-4	2007 <sup>2)</sup>
ISO 669	– <sup>1)</sup>	Resistance welding - Resistance welding equipment - Mechanical and electrical requirements	–	–

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**Annex ZZ**  
(informative)

**Coverage of Essential Requirements of EC Directives**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant essential requirements as given in Annex I of the EC Directive 2004/108/EC.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Resistance welding equipment –  
Part 2: Electromagnetic compatibility (EMC) requirements**

**Matériels de soudage par résistance –  
Partie 2: Exigences de compatibilité électromagnétique (CEM)**

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