BRITISH STANDARD

BS EN 55014-1:2006 +A2:2011
Incorporating corrigendum January 2009

Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus —

Part 1: Emission

ICS 33.100.10

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National foreword

This British Standard is the UK implementation of EN 55014-1:2006+A2:2011. It is identical with CISPR 14-1:2005 incorporating amendments 1:2008 and 2:2011, and corrigendum January 2009. It supersedes BS EN 55014-1:2006+A1:2009, which will be withdrawn on 16 August 2014.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CISPR text carry the number of the CISPR amendment. For example, text altered by CISPR amendment A1 is indicated by 〉A1〈.

The UK participation in its preparation was entrusted by Technical Committee GEL/210, EMC — Policy committee, to Subcommittee GEL/210/11, EMC product standards.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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EUROPEAN STANDARD

NORME EUROPÉENNE

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EN 55014-1+A2

September 2011

ICS 33.100.10

English version

Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission

(CISPR 14-1:2005/A2:2011)

Compatibilité électromagnétique - Exigences pour les appareils électrodomestiques, outillages électriques et appareils analogues - Partie 1: Emission (CISPR 14-1:2005/A2:2011)

Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte - Teil 1: Störaussendung (CISPR 14-1:2005/A2:2011)

This amendment A2 modifies the European Standard EN 55014-1:2006; it was approved by CENELEC on 2011-08-16. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, Croatia, 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

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Foreword

The text of document CISPR/F/404/FDIS, future edition 5 of CISPR 14-1, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 55014-1 on 2006-09-12.

This European Standard supersedes EN 55014-1:2000 + A1:2001 + A2:2002.

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)	2007-06-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-09-01

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 Directives 89/336/EEC and 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 CISPR 14-1:2005 was approved by CENELEC as a European Standard without any modification.

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Foreword to amendment A1

The text of document CISPR/F/491/FDIS, future amendment 1 to CISPR 14-1:2005, prepared by CISPR SC F, Interference relating to household appliances, tools, lighting equipment and similar apparatus, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 55014-1:2006 on 2009-04-22.

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Annex ZA has been added by CENELEC.

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Endorsement notice

The text of amendment 1:2008 to the International Standard CISPR 14-1:2005 was approved by CENELEC as an amendment to the European Standard without any modification.

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Foreword to amendment A2

The text of document CISPR/F/537/FDIS, future edition 5 of CISPR 14-1:2005/A2, prepared by CISPR SC F, "Interference relating to household appliances, tools, lighting equipment and similar apparatus" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 55014-1:2006/A2:2011.

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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.

Endorsement notice

The text of the International Standard CISPR 14-1:2005/A2:2011 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

The intention of this standard is to establish uniform requirements for the radio disturbance level of the equipment contained in the scope, to fix limits of disturbance, to describe methods of measurement and to standardize operating conditions and interpretation of results.

ELECTROMAGNETIC COMPATIBILITY – REQUIREMENTS FOR HOUSEHOLD APPLIANCES, ELECTRIC TOOLS AND SIMILAR APPARATUS –

Part 1: Emission

1 Scope

1.1 This standard applies to the conduction and radiation of radio-frequency disturbances from appliances whose main functions are performed by motors, switching or regulating devices, or by r.f. generators used in induction cooking appliances.

It includes such equipment as: household electrical appliances, electric tools, regulating controls using semiconductor devices, motor-driven electro-medical apparatus, electric/ electronic toys, automatic dispensing machines as well as cine or slide projectors. Both mains powered appliances and battery powered appliances are included.

Also included in the scope of this standard are:

– separate parts of the above mentioned equipment such as motors, switching devices e.g. (power or protective) relays, however no emission requirements apply unless formulated in this standard.

Excluded from the scope of this standard are:

– apparatus for which all emission requirements in the radio frequency range are explicitly formulated in other IEC or CISPR standards;

NOTE 1 Examples are:

– luminaires, including portable luminaires for children, discharge lamps and other lighting devices: CISPR 15;

– audio and video equipment and electronic music instruments, other than toys: CISPR 13 and CISPR 20 (see also 7.3.5.4.2);

– mains communication devices, as well as baby surveillance systems: IEC 61000-3-8;

– equipment for generation and use of radio frequency energy for heating (other than induction cooking) and therapeutic purposes: CISPR 11;

– microwave ovens: CISPR 11 (but be aware of 1.3 on multifunction equipment);

– information technology equipment, e.g. home computers, personal computers, electronic copying machines: CISPR 22;

– electronic equipment to be used on motor vehicles: CISPR 12;

– radio controls, walkie-talkies and other types of radio-transmitters, also when used with toys.

– arc welding equipment: CISPR 11.

– regulating controls and equipment with regulating controls incorporating semiconductor devices with a rated input current of more than 25 A per phase;

– stand-alone power supplies.

NOTE 2 Toys powered by the supply system of a motor-powered vehicle, ship or aircraft are not covered by this standard.

NOTE 3 Until induction cooking appliances are removed from the scope of CISPR 11, either CISPR 11 or CISPR 14-1 may be chosen for compliance.