

## REDLINE VERSION



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**Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –  
Part 3: Procedure for determining and verifying declared noise emission values**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

#### Part 3: Procedure for determining and verifying declared noise emission values

#### FOREWORD

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International Standard IEC 60704-3 has been prepared by IEC technical committee 59: Performance of household electrical appliances.

IEC 60704-1:2010 has served as a basis for the elaboration of this standard.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision. It includes the following significant technical changes with respect to the previous edition:

- a) in Annex A, standard deviations that are now specified for various appliance categories in the parts of IEC 60704-2 have been excluded from Table A.1;
- b) furthermore, this edition makes reference to new standards and is implementing ISO/IEC Directives, Part 2 in a more accurate manner.

Standard deviations specified in part 2 documents of the IEC 60704 series supersede the values given in Table A.1.

The text of this International Standard is based on the following documents:

CDV	Report on voting
59/675/CDV	59/680A/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This International Standard is to be used in conjunction with IEC 60704-1:2010 and the latest edition of IEC 60704-2 (all parts).

A list of all parts in the IEC 60704 series, published under the general title *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

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## INTRODUCTION

~~Although the noise levels produced by household appliances are not known to present a hazard to the hearing of users or other exposed persons, and as a result no noise limits have been specified by relevant authorities responsible for health protection,~~ A comprehensive and correct declaration of noise emission ~~will be~~ is very helpful to enable the potential buyer to make a good choice between appliances of the same category (serving for the same purpose) of different makes or for different models.

In order to ensure a correct declaration of noise emission values, this part of IEC 60704 ~~prescribes~~ describes a simple method for verifying declared values and provides information for determining the noise emission values.

~~The necessary measurements are carried out according to the relevant parts of IEC 60704.~~

Different countries are implementing different market surveillance strategies. This document is not implementing a mandatory market surveillance strategy.

# HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – TEST CODE FOR THE DETERMINATION OF AIRBORNE ACOUSTICAL NOISE –

## Part 3: Procedure for determining and verifying declared noise emission values

### 1 Scope

This part of IEC 60704 describes procedures for determining and verifying the declared values of the noise emitted by household and similar appliances.

It applies to all categories of household and similar electrical appliances covered by IEC 60704-1 and all parts of IEC 60704-2 ~~dealing with~~, which include particular requirements for special categories of appliances.

It applies to appliances being produced in quantity, such as in batches, series or lots, which are manufactured to the same technical specification and characterized by the same ~~labeled~~ declared value of noise emission.

This part of IEC 60704:

- considers the term "declaration" to include all means for providing information on the noise emission values to potential users (consumers) of the appliances; this includes labels, brochures, advertisements, commercial and technical information papers, etc.;
- considers the declaration for appliances manufactured by mass production, ~~with the same declared value for the lot (batch)~~;
- specifies a simple statistical method for verifying the declared values by investigating a sample of only three appliances.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60704-1: ~~1997~~2010, *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 1: General requirements*

IEC 60704-2 (all parts), *Household and similar electrical appliances – Test code for the determination of airborne acoustical noise – Part 2: Particular requirements*

ISO 3534-1: ~~1993~~2006, *Statistics – Vocabulary and symbols – Part 1: Probability and general statistical terms*

ISO 7574-4:1985, *Acoustics – Statistical methods for determining and verifying stated noise emission values of machinery and equipment – Part 4: Methods for stated values for batches of machines*

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Household and similar electrical appliances – Test code for the determination of airborne acoustical noise –**

**Part 3: Procedure for determining and verifying declared noise emission values**

**Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien –**

**Partie 3: Méthode de détermination et de vérification des valeurs déclarées d'émission sonore**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ISO 7574-4:1985, *Acoustics – Statistical methods for determining and verifying stated noise emission values of machinery and equipment – Part 4: Methods for stated values for batches of machines*

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## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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### APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – CODE D'ESSAI POUR LA DÉTERMINATION DU BRUIT AÉRIEN –

#### Partie 3: Méthode de détermination et de vérification des valeurs déclarées d'émission sonore

##### AVANT-PROPOS

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La Norme internationale IEC 60704-3 a été établie par le comité d'études 59 de l'IEC: Aptitude à la fonction des appareils électrodomestiques.

L'IEC 60704-1:2010 a servi de base à l'élaboration de la présente norme.

Cette troisième édition annule et remplace la deuxième édition parue en 2006. Cette édition constitue une révision technique. Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) dans l'Annexe A, les écarts-types qui sont à présent spécifiés pour différentes catégories d'appareils dans les parties de l'IEC 60704-2 ont été exclus du Tableau A.1;
- b) en outre, cette édition fait référence à de nouvelles normes et met en application les Directives ISO/IEC, Partie 2 d'une manière plus précise.

Les écarts-types spécifiés dans une Partie 2 de la série IEC 60704 se substituent aux valeurs données dans le Tableau A.1.

Le texte de cette Norme internationale est issu des documents suivants:

CDV	Rapport de vote
59/675/CDV	59/680A/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à l'approbation de cette Norme internationale.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2.

Cette Norme internationale doit être utilisée conjointement avec l'IEC 60704-1:2010 et la dernière édition de l'IEC 60704-2 (toutes les parties).

Une liste de toutes les parties de la série IEC 60704, publiées sous le titre général *Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien*, peut être consultée sur le site web de l'IEC.

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## INTRODUCTION

Une déclaration correcte et détaillée de l'émission sonore est très utile à l'acheteur potentiel pour effectuer un bon choix entre des appareils de même catégorie (ayant la même utilisation) de différentes marques ou de différents modèles.

Afin d'assurer une déclaration correcte des valeurs d'émission sonore, la présente partie de l'IEC 60704 décrit une méthode simple pour vérifier les valeurs déclarées et fournit des informations pour déterminer les valeurs d'émission sonore.

Les différents pays appliquent des stratégies différentes de surveillance du marché. Le présent document ne met pas en œuvre une stratégie de surveillance de marché obligatoire.



## APPAREILS ÉLECTRODOMESTIQUES ET ANALOGUES – CODE D'ESSAI POUR LA DÉTERMINATION DU BRUIT AÉRIEN –

### Partie 3: Méthode de détermination et de vérification des valeurs déclarées d'émission sonore

#### 1 Domaine d'application

La présente partie de l'IEC 60704 décrit les méthodes de détermination et de vérification des valeurs déclarées du bruit émis par les appareils domestiques et analogues.

Elle s'applique à toutes les catégories d'appareils à usage domestique et analogue couverts par l'IEC 60704-1 et toutes les parties de l'IEC 60704-2, qui contiennent des exigences particulières applicables à certaines catégories d'appareils.

Elle s'applique aux appareils produits en quantité (en série, en lots) fabriqués suivant les mêmes spécifications techniques et caractérisés par la même valeur déclarée d'émission sonore.

La présente partie de l'IEC 60704:

- utilise le terme "déclaration" pour englober tous les moyens utilisés pour fournir des informations sur les valeurs d'émission sonore aux utilisateurs potentiels (consommateurs) des appareils; ce terme inclut les étiquettes, les notices, les publicités, les fiches techniques et commerciales d'information, etc.;
- traite de la déclaration pour des appareils fabriqués en série;
- décrit une méthode statistique simple pour vérifier les valeurs déclarées en étudiant un échantillon limité à trois appareils.

#### 2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60704-1:2010, *Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien – Partie 1: Règles générales*

IEC 60704-2 (toutes les parties), *Appareils électrodomestiques et analogues – Code d'essai pour la détermination du bruit aérien – Partie 2: Exigences particulières*

ISO 3534-1:2006, *Statistiques – Vocabulaire et symboles – Partie 1: Termes statistiques généraux et termes utilisés en calcul des probabilités*

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