



BSI Standards Publication

Household and similar electrical appliances - Safety

Part 2-43: Particular requirements for clothes dryers and towel rails

National foreword

This British Standard is the UK implementation of EN IEC 60335-2-43:2020+A11:2020. It is identical to IEC 60335-2-43:2017. It supersedes BS EN 60335-2-43:2003+A2:2008, which will be withdrawn on 11 October 2023.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A11 is indicated by A11 A11.

The UK participation in its preparation was entrusted to Technical Committee CPL/61/7, Safety of electrical appliances - Heated appliance group.

A list of organizations represented on this committee can be obtained on request to its committee manager.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2020
Published by BSI Standards Limited 2020

ISBN 978 0 580 96715 3

ICS 13.120; 97.060

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 November 2020.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

October 2020

ICS 13.120, 97.060

English Version

**Household and similar electrical appliances - Safety - Part 2-43:
Particular requirements for clothes dryers and towel rails
(IEC 60335-2-43:2017)**

Appareils électrodomestiques et analogues - Sécurité -
Partie 2-43: Règles particulières pour les appareils de
séchage du linge et les sèche-serviettes
(IEC 60335-2-43:2017)

Sicherheit elektrischer Geräte für den Hausgebrauch und
ähnliche Zwecke - Teil 2-43: Besondere Anforderungen für
Kleidungs- und Handtuchtrockner
(IEC 60335-2-43:2017)

This European Standard was approved by CENELEC on 2017-11-15. 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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre 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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2020 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

Ref. No. EN IEC 60335-2-43:2020/A11:2020 E

European foreword

This document EN IEC 60335-2-43:2020 consists of the text of IEC 60335-2-43:2017 edition 4.0 prepared by IEC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-04-30
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-10-11

This document supersedes EN 60335-2-43:2003 and all of its amendments and corrigenda (if any).

This standard is not linked to European legislation unless it is used in conjunction with A11.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of EN IEC 60335-2-43:2020/A11:2020.

Endorsement notice

The text of the International Standard IEC 60335-2-43:2017 was approved by CENELEC as a European Standard without any modification.

Foreword to amendment A11

This document (EN IEC 60335-2-43:2020/A11:2020) has been prepared by CLC/TC 61 "Safety of household and similar electrical appliances".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-06-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2023-10-11

This new edition supersedes EN 60335-2-43:2003 and all of its amendments and corrigenda (if any).

This amendment supplements or modifies the corresponding clauses of EN 60335-1:2012 including its amendments and EN IEC 60335-2-43:2020

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

The numbering system for European clauses, subclauses, notes, tables, figures and annexes that are additional to those in the IEC standard are prefixed with the letter "Z".

EN IEC 60335-2-43:2020/A11:2020 is to be read in conjunction with EN IEC 60335-2-43:2020, EN 60335-1:2012 and its amendments, which are referred to in this text as "Part 1".

There are no special national conditions causing a deviation from this European Standard, other than those listed in Annex ZA to EN 60335-1.

There are no national deviations from this European Standard, other than those listed in Annex ZB to EN 60335-1.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s). For the relationship with EU Directive see informative Annex ZZA, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 60335-2-43:2017 was approved by CENELEC as a European Standard with agreed common modifications.

This page deliberately left blank

CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 General requirement.....	7
5 General conditions for the tests	7
6 Classification.....	7
7 Marking and instructions.....	8
8 Protection against access to live parts.....	8
9 Starting of motor-operated appliances	8
10 Power input and current.....	8
11 Heating.....	8
12 Void.....	9
13 Leakage current and electric strength at operating temperature.....	9
14 Transient overvoltages	9
15 Moisture resistance	9
16 Leakage current and electric strength	10
17 Overload protection of transformers and associated circuits	10
18 Endurance	10
19 Abnormal operation	10
20 Stability and mechanical hazards.....	12
21 Mechanical strength	12
22 Construction	12
23 Internal wiring.....	13
24 Components	13
25 Supply connection and external flexible cords	13
26 Terminals for external conductors.....	13
27 Provision for earthing	13
28 Screws and connections	13
29 Clearances, creepage distances and solid insulation	13
30 Resistance to heat and fire	13
31 Resistance to rusting	14
32 Radiation, toxicity and similar hazards.....	14
Annexes	15
Bibliography.....	18

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –
SAFETY –****Part 2-43: Particular requirements for
clothes dryers and towel rails**

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60335-2-43 has been prepared by IEC technical committee 61: Safety of household and similar electrical appliances.

This fourth edition cancels and replaces the third edition published in 2002 including its Amendment 1 (2005) and its Amendment 2 (2008). This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- requirements for clothes dryers intended for drying footwear or gloves have been introduced (1, 3.1.9, 6.2, 11.8, 19.1, 19.13, 19.101, 19.102, 22.40, 23.3).