APPENDIX BB   
ADOPTION PROPOSAL FORM

**CPR183/F15**

**KENYA BUREAU OF STANDARDS**

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| **Document Type:** | **Adoption proposal** | |
| **Dates:** | Circulation date | Closing date |
| 29th March 2021 | 28th April 2021 |
| **TC Secretary** | **This form shall be filled, signed and returned to Kenya Bureau of Standards for the attention of** [**kituid@kebs.org**](mailto:mailtokituid@kebs.org) | |

The Kenya Bureau of Standards intends to adopt the International Standards as detailed in the attached list.

We are therefore seeking views from potential users in respect of the same. The Standards are available at the Kenya Bureau of Standards Information Centre and via the preview links as provided. Please tick and fill your preference of the listed option. (If the spaces provided are not enough, please attach a separate sheet of paper).

Adoption acceptable as presented

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Adoption proposal not acceptable because of the reason(s) below

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Our Recommendations are as follows

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Name and Signature (of respondent): ................................................

Position (of respondent): .....................................

On behalf of ......................................................................................... (Name of organization)

Date .........................................................................

**NOTE:** Absence of any reply or comments shall be deemed to be an acceptance of the proposal for adoption and **shall constitute an approval vote**.

1. **Number**: IEC 60745-2-8:2003+AMD1:2008

**Title**: Hand-held motor-operated electric tools - Safety - Part 2-8: Particular requirements for shears and nibblers

**Scope**: This standard applies to shears and nibblers.

**Online Preview**: <https://webstore.iec.ch/preview/info_iec60745-2-8%7Bed2.1%7Db.pdf>

**Replaces**: KS IEC 60745-2-8:1982 Safety of hand held motor operated electric tools part 2 8 particular requirements for sheet metal shears

1. **Number**: IEC 60730-2-15:2017

**Title**: Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls

**Scope**: This part of IEC 60730 applies to automatic electrical air flow, water flow and water level  
sensing controls for use in, or in association with, boilers with a maximum pressure rating of  
2 000 kPA (20 bar) and equipment for general household and similar use including controls  
for heating, air-conditioning and similar applications.  
NOTE Examples are water flow and water level sensing controls of the float or electrode-sensor type used in  
boiler applications and air flow, water flow and water level sensing controls for swimming pool pumps, water tank  
pumps, cooling towers, dishwashers, washing machines, air conditioning chillers and ventilation applications.  
This document also applies to automatic electrical air flow, water flow and water level sensing  
controls for equipment that may be used by the public, such as equipment intended to be  
used in shops, offices, hospitals, farms and commercial and industrial applications.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-15%7Bed3.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-15:1997 Automatic electrical controls for household and similar use part 2 15 particular requirements for automatic electrical water level sensing controls of the float or electrode sensor type used in boi

1. **Number**: IEC 60745-2-15:2006+AMD1:2009

**Title**: Hand-held motor-operated electric tools - Safety - Part 2-15: Particular requirements for hedge trimmers

**Scope**: This standard applies to hedge trimmers which are designed for use by one operator for  
trimming hedges and bushes, utilizing one or more linear reciprocating cutter blades.  
This standard is not applicable to hedge trimmers with a rotating blade.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-15%7Bed2.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-15:1984 Safety of hand held motor operated electric tools part 2 15 particular requirements for hedge trimmers and grass shears

1. **Number**: IEC 60745-2-16:2008

**Title**: Hand-held motor-operated electric tools - Safety - Part 2-16: Particular requirements for tackers

**Scope**: This standard applies to tackers intended for general use. This standard does not apply to  
tackers intended for industrial production applications.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-16%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-16:1993 Safety of hand held motor operated electric tools part 2 12 particular requirements for tackers

1. **Number**: IEC 60269-3:2010+AMD1:2013+AMD2:2019

**Title**: Low voltage fuses part 3 supplementary requirements for fuses for use by unskilled persons fuses mainly for household and similar application examples of standardized systems of fuses a to f

**Scope**: Fuses for use by unskilled persons according to the following fuse systems comply with all subclauses of IEC 60269-1 and with the requirements laid down in the relevant fuse systems. This standard is divided into six four fuse systems, each dealing with a specific example of standardized fuses for use by unskilled persons:  
 • Fuse system A: D type fuse system  
 • Fuse system B: Cylindrical fuses (NF cylindrical fuse system)  
 • Fuse system C: Cylindrical fuses (BS cylindrical fuse system)

**Online Preview**: <https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf>

**Replaces**: KS IEC 60269-3:2010 Low voltage fuses part 3 supplementary requirements for fuses for use by unskilled persons fuses mainly for household and similar application examples of standardized systems of fuses a to f

1. **Number**: IEC 60269-4:2009+AMD1:2012+AMD2:2016

**Title**: Low voltage fuses part 4 supplementary requirements for fuse links for the protection of semiconductor devices

**Scope**: These supplementary requirements apply to fuse-links for application in equipment containing semiconductor devices for circuits of nominal voltages up to 1 000 V a.c. or 1 500 V d.c. and also, in so far as they are applicable, for circuits of higher nominal voltages.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60269-4%7Bed5.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60269-4:2009 Low voltage fuses part 4 supplementary requirements for fuse links for the protection of semiconductor devices

1. **Number**: IEC 60529:1989+AMD1:1999+AMD2:2013

**Title**: Degrees of protection provided by enclosures ip code

**Scope**: This standard applies to the classification of degrees of protection provided by enclosures for electrical equipment with a rated voltage not exceeding 72,5 kV.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60529%7Bed2.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60529:2001 Degrees of protection provided by enclosures ip code

1. **Number**: IEC 60641-1:2007

**Title**: Specification for pressboard and presspaper for electrical purposes part 1 definitions and general requirements

**Scope**: This part of IEC 60641 contains definitions related to a classification of, and the general requirements to be fulfilled by, pressboard and presspaper for electrical purposes.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60641-1%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60641-1:1979 Specification for pressboard and presspaper for electrical purposes part 1 definitions and general requirements

1. **Number**: IEC 60641-2:2004

**Title**: Pressboard and presspaper for electrical purposes part 2 methods of test

**Scope**: This part of IEC 60641 applies to pressboard and presspaper for electrical purposes. The series does not apply to laminated material. This part specifies the test methods to be used in testing pressboard and presspaper for electrical purposes to meet the requirements prescribed in the specification sheets of Part 3.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60641-2%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60641-2:2004 Pressboard and presspaper for electrical purposes part 2 methods of test

1. **Number**: IEC 60704-1:2021

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 1 general requirements

**Scope**: This part of IEC 60704 applies to electric appliances (including their accessories or components) for household and similar use, supplied from mains or from batteries. By "similar use" is understood the use in conditions similar to those found in households, for example in inns, coffee houses, tea rooms, hotels, barber or hairdresser shops, launderettes, etc., if not otherwise specified in the IEC 60704-2 series.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-1%7Bed4.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-1:1997 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 1 general requirements

1. **Number**: IEC 60704-3:2019

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 3 procedures for determining and verifying declared noise emission values

**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.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-3%7Bed3.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-3:1992 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 3 procedures for determining and verifying declared noise emission values

1. **Number**: IEC 60730-1:2013+AMD1:2015+AMD2:2020

**Title**: Automatic electrical controls for household and similar use part 1 general requirements

**Scope**: In general, this part of IEC 60730 applies to automatic electrical controls for use in, on, or in  
association with equipment for household and similar use. The equipment may use electricity,  
gas, oil, solid fuel, solar thermal energy, etc., or a combination thereof.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-1%7Bed5.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-1:1999 Automatic electrical controls for household and similar use part 1 general requirements

1. **Number**: IEC 60745-1:2006

**Title**: Safety of hand held motor operated electric tools part 1 general requirements

**Scope**: This part of IEC 60745 deals with the safety of hand-held motor-operated or magnetically driven electric tools, the rated voltage of the tools being not more than 250 V for single-phase a.c. or d.c. tools, and 440 V for three-phase a.c. tools.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-1%7Bed4.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-1:1977 Safety of hand held motor operated electric tools part 1 general requirements

1. **Number**: IEC 60641-3-2:2007

**Title**: Specification for pressboard and presspaper for electrical purposes part 3 specification for individual materials sheet 2 requirements for presspaper types p 2 1 p 4 1 p 4 2 p 4 3 p 6 1 and

**Scope**: This part of IEC 60641 gives the requirements for presspaper for electrical purposes  
comprised of 100 % sulphate wood pulp, 100 % cotton or a mixture of sulphate wood pulp and  
cotton.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60641-3-2%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60641-3-2:1992 Specification for pressboard and presspaper for electrical purposes part 3 specification for individual materials sheet 2 requirements for presspaper types.

1. **Number**: IEC 60704-2-2:2009

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 2 particular requirements for forced draught convection heaters

**Scope**: This standard applies to electric fan heaters, designed for placing on the floor, table or  
counter, etc., or for wall-mounting.  
This standard does not apply to  
– electric storage room heaters;  
– room humidifiers;  
– room dehumidifiers;  
– air cleaners;  
– heaters designed exclusively for industrial purposes.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-2%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-2:1985 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 2 particular requirements for forced draught convection heaters

1. **Number**: IEC 60704-2-3:2017

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 3 particular requirements for dishwashers

**Scope**: These particular requirements apply to single unit electric dishwashers for household and  
similar use, with or without automatic programme control, for cold and/or warm water supply,  
for detachable or permanent connection to water supply or sewage systems, intended for  
placing on the floor against a wall, for building-in or placing under a counter, a kitchen  
worktop or under a sink, for wall-mounting or on a counter.

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**Replaces**: KS IEC 60704-2-3:1987 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 3 particular requirements for dishwashers

1. **Number**: IEC 60704-2-4:2011

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 4 particular requirements for washing machines and spin extractor

**Scope**: These particular requirements apply to single unit electrical washing machines and the  
washing and spinning function of combined appliances for household and similar use and to  
spin extractors for household and similar use

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-4%7Bed3.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-4:1989 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 4 particular requirements for washing machines and spin extractor

1. **Number**: IEC 60704-2-5:2005+AMD1:2014

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 5 particular requirements for room heaters of the storage type

**Scope**: These particular requirements apply to the electric thermal storage room heaters having forced  
convection output, designed for placing on the floor, for wall-mounting or for building-in.  
These particular requirements do not apply to:  
– controlled output thermal storage heaters with natural convection;  
– free output thermal storage heaters;  
– permanently installed central storage heating systems or their parts.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-5%7Bed2.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-5:1989 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 5 particular requirements for room heaters of the storage type

1. **Number**: IEC 60704-2-6:2012

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 6 particular requirements for tumble dryers

**Scope**: These particular requirements apply to single unit electric tumble dryers for household and  
similar use intended for placing on the floor against a wall, for building-in or placing under a  
counter, a kitchen worktop or under a sink, for wall-mounting or on a counter. For the purpose  
of this standard, washer-dryer combinations, when operated as a dryer, are considered as a  
tumble dryer.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-6%7Bed3.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-6:1994 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 6 particular requirements for tumble dryers

1. **Number**: IEC 60704-2-7:2020

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 7 particular requirements for fans

**Scope**: This document applies to electrical fans (including their accessories and their component  
parts) for household and similar use, designed for AC or DC supply.  
The motor, the impeller and their housing, if any, form a single unit.  
These particular requirements apply to:  
– conventional fans,  
– table fans,  
– pedestal fans,  
– ceiling fans,  
– bladeless fans,  
– wall bracket fans,  
– ceiling bracket fans,  
– louver fans,  
– tower fans,  
– ventilating and partition ventilating fans.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-7%7Bed2.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-7:1997 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 7 particular requirements for fans

1. **Number**: IEC 60704-2-8:2020

**Title**: Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 8 particular requirements for electric shavers

**Scope**: This document applies to electric shavers, hair clippers or trimmers for domestic and similar  
use, supplied from mains or secondary batteries or primary batteries.  
The term "similar use" is understood to mean the use in hotels, hospitals, shops, offices, etc.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60704-2-8%7Bed2.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60704-2-8:1997 Test code for the determination of airborne acoustical noise emitted by household and similar electrical appliances part 2 8 particular requirements for electric shavers

1. **Number**: IEC 60730-2-22:2014

**Title**: Automatic electrical controls - part 2-22: particular requirements for thermal motor protectors

**Scope**: This part of IEC 60730 applies to the partial evaluation of thermal motor protectors as  
defined in IEC 60730-1 for household and similar use, including heating, air conditioning and  
similar applications as well as for sealed (hermetic and semi-hermetic type) motorcompressors.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-22%7Bed1.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-2:1999 Automatic electrical controls - part 2-22: particular requirements for thermal motor protectors

1. **Number**: IEC 60730-2-3:2006

**Title**: Automatic electrical controls for household and similar use part 2 3 particular requirements for thermal protectors for ballasts for tubular fluorescent lamps

**Scope**: This part of IEC 60730 applies to the evaluation of thermal protectors for ballasts for tubular  
fluorescent lamps.  
This standard applies to thermal protectors using NTC or PTC thermistors, additional  
requirements for which are contained in Annex J.

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**Replaces**: KS IEC 60730-2-3:2001 Automatic electrical controls for household and similar use part 2 3 particular requirements for thermal protectors for ballasts for tubular fluorescent lamps

1. **Number**: IEC 60730-2-5:2013+AMD1:2017+AMD2:2021

**Title**: Automatic electrical controls for household and similar use part 2 5 particular requirements for automatic electrical burner control systems

**Scope**: This part of IEC 60730 applies to automatic electrical burner control systems for the  
automatic control of burners for oil, gas, coal or other combustibles intended to be used  
• for household and similar use,  
• in shops, offices, hospitals, farms and commercial and industrial applications.  
This International Standard is applicable  
• to a complete burner control system,  
• to a separate programming unit,  
• to a separate electronic high-voltage ignition source,  
• to a separate flame detector and  
• to a separate high-temperature operation (HTO) detector.  
• to a burner control system intended to be used in warm air heating appliances (furnaces)  
where the appliance is equipped with an electromechanical differential pressure control to  
monitor the difference of the combustion air pressure (Type 2.AL). This pressure control  
provides a switch as an alternative to one of the two switching elements to directly deenergize the safety relevant terminals.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-5%7Bed4.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-5:2000 Automatic electrical controls for household and similar use part 2 5 particular requirements for automatic electrical burner control systems

1. **Number**: IEC 60730-2-6:2015+AMD1:2019

**Title**: Automatic electrical controls for household and similar use part 2 6 particular requirements for automatic electrical pressure sensing controls including mechanical requirements

**Scope**: This part of IEC 60730 applies to automatic electrical pressure sensing controls for use in,  
on or in association with, equipment. The equipment may use electricity, gas, oil, solid fuel,  
solar thermal energy, etc. or a combination thereof.  
NOTE Throughout this standard, the word “equipment” includes “appliances” and “control system”.  
This standard is also applicable to individual pressure sensing controls utilized as part of a  
control system or pressure sensing controls which are mechanically integral with multifunctional controls having non-electrical outputs.  
Automatic electrical pressure sensing controls for equipment used by the public, such as  
equipment intended to be used by laymen in shops, in light industry and on farms, are within  
the scope of this standard.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-6%7Bed3.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-6:1991 Automatic electrical controls for household and similar use part 2 6 particular requirements for automatic electrical pressure sensing controls including mechanical requirements

1. **Number**: IEC 60730-2-7:2015

**Title**: Automatic electrical controls for household and similar use part 2 7 particular requirements for timers and time switches

**Scope**: In general, this part of IEC 60730 applies to timers and time switches that may use electricity,  
gas, oil, solid fuel, solar thermal energy, etc. or a combination thereof, including heating, air  
conditioning and similar applications.  
This standard is also applicable to individual timers utilized as part of a control system or  
timers which are mechanically integral with multifunctional controls having non-electrical  
outputs. This standard does not apply to time-delay switches (TDS) within the scope of  
IEC 60669-2-3.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-7%7Bed3.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-7:1990 Automatic electrical controls for household and similar use part 2 7 particular requirements for timers and time switches

1. **Number**: IEC 60730-2-8:2018

**Title**: Automatic electrical controls for household and similar use part 2 8 particular requirements for electrically operated water valves including mechanical requirements

**Scope**: This part of IEC 60730 applies to electrically operated water valves for use in, on or in  
association with equipment for household and similar use, including heating, air-conditioning  
and similar applications. The equipment can use electricity, gas, oil, solid fuel, solar thermal  
energy, etc., or a combination thereof.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60730-2-8%7Bed3.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60730-2-8:2000 Automatic electrical controls for household and similar use part 2 8 particular requirements for electrically operated water valves including mechanical requirements

1. **Number**: IEC 60079-0:2017

**Title**: Electrical apparatus for explosive gas atmospheres part 0 general requirements

**Scope**: This part of IEC 60079 specifies the general requirements for construction, testing and  
marking of electrical Ex Equipment and Ex Components intended for use in explosive  
atmospheres.  
The standard atmospheric conditions (relating to the explosion characteristics of the  
atmosphere) under which it may be assumed that electrical Ex Equipment can be operated  
are:  
• temperature –20 °C to +60 °C;  
• pressure 80 kPa (0,8 bar) to 110 kPa (1,1 bar); and  
• air with normal oxygen content, typically 21 % v/v.  
This part of IEC 60079 and other standards supplementing this standard specify additional  
test requirements for Ex Equipment operating outside the standard temperature range, but  
further additional consideration and additional testing may be required for Ex Equipment  
operating outside the standard atmospheric pressure range and standard oxygen content.  
Such additional testing may be particularly relevant with respect to Types of Protection that  
depend on quenching of a flame such as ‘flameproof enclosures “d”’ (IEC 60079-1) or  
limitation of energy, ‘intrinsic safety “i”’ (IEC 60079-11).

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**Replaces**: KS IEC 60079-0:1998 Electrical apparatus for explosive gas atmospheres part 0 general requirements

1. **Number**: IEC 60079-1:2014

**Title**: Electrical apparatus for explosive gas atmospheres part 1 flameproof enclosures d

**Scope**: This part of IEC 60079 contains specific requirements for the construction and testing of  
electrical equipment with the type of protection flameproof enclosure “d”, intended for use in  
explosive gas atmospheres.  
This standard supplements and modifies the general requirements of IEC 60079-0. Where a  
requirement of this standard conflicts with a requirement of IEC 60079-0, the requirement of  
this standard will take precedence.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60079-1%7Bed7.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60079-1:2001 Electrical apparatus for explosive gas atmospheres part 1 flameproof enclosures d

1. **Number**: IEC 60079-11:2011

**Title**: Electrical apparatus for explosive gas atmospheres part 11 intrinsic safety i

**Scope**: This part of IEC 60079 specifies the construction and testing of intrinsically safe apparatus  
intended for use in an explosive atmosphere and for associated apparatus, which is intended  
for connection to intrinsically safe circuits which enter such atmospheres.  
This type of protection is applicable to electrical equipment in which the electrical circuits  
themselves are incapable of causing an explosion in the surrounding explosive atmospheres.  
This standard is also applicable to electrical equipment or parts of electrical equipment located  
outside the explosive atmosphere or protected by another Type of Protection listed in  
IEC 60079-0, where the intrinsic safety of the electrical circuits in the explosive atmosphere  
may depend upon the design and construction of such electrical equipment or parts of such  
electrical equipment. The electrical circuits exposed to the explosive atmosphere are evaluated  
for use in such an atmosphere by applying this standard.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60079-11%7Bed6.0.RLV%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60079-11:1999 Electrical apparatus for explosive gas atmospheres part 11 intrinsic safety i

1. **Number**: IEC 60079-13:2017

**Title**: Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v"

**Scope**: This part of IEC 60079 gives requirements for the design, construction, assessment,  
verification and marking of rooms used to protect internal equipment:  
– located in a Zone 1 or Zone 2 or Zone 21 or Zone 22 explosive atmosphere (an area  
normally requiring an equipment protection level (EPL) Gb, Gc, Db or Dc) without an  
internal source of gas/vapour release and protected by pressurization;  
– located in a Zone 2 explosive atmosphere (an area normally requiring EPL Gc) with or  
without an internal source of gas/vapour release and protected by artificial ventilation;  
– located in a non-hazardous area, containing an internal source of gas/vapour release and  
protected by artificial ventilation;  
– located in a Zone 1 or Zone 2 or Zone 21 or Zone 22 explosive atmosphere (an area  
normally requiring EPL Gb, Gc, Db or Dc), containing an internal source of gas/vapour  
release and protected by both pressurization and artificial ventilation.  
The term "room" used in this document includes single rooms, multiple rooms, a complete  
building or a room contained within a building. A room is intended to facilitate the entry of  
personnel and includes inlet and outlet ducts. An acoustic hood and other like enclosures  
designed to permit the entry of personnel can be considered as a room.

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**Replaces**: KS IEC 60079-13:1982 Electrical apparatus for explosive gas atmospheres part 13 construction and use of rooms or buildings protected by pressurization

1. **Number**: IEC 60079-14:2013

**Title**: Explosive atmospheres - Part 14: Electrical installations design, selection and erection

**Scope**: This part of the IEC 60079 series contains the specific requirements for the design, selection,  
erection and initial inspection of electrical installations in, or associated with, explosive  
atmospheres.  
Where the equipment is required to meet other environmental conditions, for example,  
protection against ingress of water and resistance to corrosion, additional protection  
requirements may be necessary.

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**Replaces**: KS IEC 60079-14:2002 Electrical apparatus for explosive gas atmospheres part 14 electrical installations in hazardous areas other than mines

1. **Number**: IEC 60079-15:2017 RLV

**Title**: Electrical apparatus for explosive gas atmospheres part 15 type of protection n

**Scope**: This part of IEC 60079 specifies requirements for the construction, testing and marking for  
Group II electrical equipment with type of protection “n” which includes; sealed devices “nC”,  
hermetically sealed devices “nC”, non-incendive components “nC” and restricted breathing  
enclosures “nR” intended for use in explosive gas atmospheres. This part of IEC 60079  
applies to electrical equipment where the rated input voltage does not exceed 15 kV r.m.s. AC or  
DC including where the internal working voltages of the Ex product exceeds 15 kV, for example  
starters for HID luminaires.

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**Replaces**: KS IEC 60079-15:2001 Electrical apparatus for explosive gas atmospheres part 15 type of protection n

1. **Number**: IEC 60079-17:2013

**Title**: Explosive atmospheres - Part 17: Electrical installations inspection and maintenance

**Scope**: This part of the IEC 60079 series applies to users and covers factors directly related to the  
inspection and maintenance of electrical installations within hazardous areas only, where the  
hazard may be caused by flammable gases, vapours, mists, dusts, fibres or flyings.  
It does not include:  
• other fundamental installation and inspection requirements for electrical installations;  
• the verification of electrical equipment;  
• the repair and reclamation of explosion protected equipment (see IEC 60079-19).  
This standard supplements the requirements of IEC 60364-6.  
In the case of dusts, fibres or flyings the level of housekeeping may influence the inspection  
and maintenance requirements.

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**Replaces**: KS IEC 60079-17:2002 Electrical apparatus for explosive gas atmospheres part 17 inspection and maintenance of electrical installations in hazardous areas other than mines

1. **Number**: IEC 60079-18:2014+AMD1:2017 CSV

**Title**: Electrical apparatus for explosive gas atmospheres part 18 encapsulation m

**Scope**: This part of IEC 60079 gives the specific requirements for the construction, testing and  
marking of electrical equipment, parts of electrical equipment and Ex components with the  
type of protection encapsulation “m” intended for use in explosive gas atmospheres or  
explosive dust atmospheres.

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**Replaces**: KS IEC 60079-18:2001 Electrical apparatus for explosive gas atmospheres part 18 encapsulation m

1. **Number**: IEC 60079-19:2019

**Title**: Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation

**Scope**: This part of IEC 60079:  
– gives instructions, principally of a technical nature, on the repair, overhaul, reclamation  
and modification of Ex equipment designed for use in explosive atmospheres;  
– applies to overhaul and repair which mitigates deficiencies identified during operation,  
inspection and maintenance;  
– does not give advice on cable and wiring systems which can require a renewal when the  
equipment is re-installed; and  
– is not applicable to Type of Protection “m”.

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**Replaces**: KS IEC 60079-19:1993 Electrical apparatus for explosive gas atmospheres part 19 repair and overhaul for apparatus used in explosive atmospheres other than mines or explosives

1. **Number**: IEC 60079-2:2014 RLV

**Title**: Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"

**Scope**: This part of IEC 60079 contains the specific requirements for the construction and testing of  
electrical apparatus equipment with pressurized enclosures, of type of protection “p”, intended  
for use in explosive gas atmospheres or explosive dust atmospheres. It specifies also  
includes the requirements for pressurized enclosures containing a limited release of a  
flammable substance.  
This standard supplements and modifies the general requirements of IEC 60079-0. Where a  
requirement of this standard conflicts with a requirement of IEC 60079-0, the requirements of  
this standard take precedence.

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**Replaces**: KS IEC 60079-2:2001 Electrical apparatus for explosive gas atmospheres part 2 pressurized enclosures p

1. **Number**: ISO/IEC 80079-20-1:2017

**Title**: Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data

**Scope**: This part of ISO/IEC 80079 provides guidance on classification of gases and vapours. It  
describes a test method intended for the measurement of the maximum experimental safe  
gaps (MESG) for gas-air mixtures or vapour-air mixtures under normal conditions of  
temperature and pressure (20 °C, 101,3 kPa) so as to permit the selection of an appropriate  
group of equipment. This document also describes a test method intended for use in the  
determination of the auto-ignition temperature (AIT) of a vapour-air mixture or gas-air mixture  
at atmospheric pressure, so as to permit the selection of an appropriate temperature class of  
equipment.

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**Replaces**: KS IEC 60079-12:1978 Electrical apparatus for explosive gas atmospheres part 12 classification of mixtures of gases or vapours with air according to their maximum experimental safe gaps and minimum igniting currents

1. **Number**: ISO/IEC 80079-20-1:2017

**Title**: Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data

**Scope**: This part of ISO/IEC 80079 provides guidance on classification of gases and vapours. It  
describes a test method intended for the measurement of the maximum experimental safe  
gaps (MESG) for gas-air mixtures or vapour-air mixtures under normal conditions of  
temperature and pressure (20 °C, 101,3 kPa) so as to permit the selection of an appropriate  
group of equipment. This document also describes a test method intended for use in the  
determination of the auto-ignition temperature (AIT) of a vapour-air mixture or gas-air mixture  
at atmospheric pressure, so as to permit the selection of an appropriate temperature class of  
equipment.  
Values of chemical properties of materials are provided to assist in the selection of equipment  
to be used in hazardous areas. Further data may be added as the results of validated tests  
become available.

**Online Preview**: [https://webstore.iec.ch/preview/info\_isoiec80079-20-1%7Bed1.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60079-20:1996 Electrical apparatus for explosive gas atmospheres part 20 data for flammable gases and vapours relating to the use of electrical apparatus

1. **Number**: ISO/IEC 80079-20-1:2017

**Title**: Explosive atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data

**Scope**: This part of ISO/IEC 80079 provides guidance on classification of gases and vapours. It  
describes a test method intended for the measurement of the maximum experimental safe  
gaps (MESG) for gas-air mixtures or vapour-air mixtures under normal conditions of  
temperature and pressure (20 °C, 101,3 kPa) so as to permit the selection of an appropriate  
group of equipment. This document also describes a test method intended for use in the  
determination of the auto-ignition temperature (AIT) of a vapour-air mixture or gas-air mixture  
at atmospheric pressure, so as to permit the selection of an appropriate temperature class of  
equipment.  
Values of chemical properties of materials are provided to assist in the selection of equipment  
to be used in hazardous areas. Further data may be added as the results of validated tests  
become available.

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**Replaces**: KS IEC 60079-4:1975 Electrical apparatus for explosive gas atmospheres part 4 method of test for ignition temperature

1. **Number**: IEC 60079-6:2015+AMD1:2020

**Title**: Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"

**Scope**: This part of IEC 60079 specifies the requirements for the design, construction, testing and  
marking of Ex Equipment and Ex Components with type of protection liquid immersion “o”  
intended for use in explosive gas atmospheres.  
Ex Equipment and Ex Components of type of protection liquid immersion “o” are either:  
• Level of Protection “ob” (EPL “Mb” or “Gb”)  
• Level of Protection “oc” (EPL “Gc”)  
For Level of Protection “ob”, this standard applies where the rated voltage does not exceed  
11 kV r.m.s. a.c. or d.c.  
For Level of Protection “oc”, this standard applies where the rated voltage does not exceed  
15 kV r.m.s. a.c. or d.c.  
Additionally, for Level of Protection "oc", Annex D applies where the rated voltage exceeds  
15 kV AC RMS or DC and up to 245 kV AC RMS or DC.  
Annex D applies specifically to liquid immersed transformers and reactors, and other liquid  
immersed equipment such as swivels for off-shore platforms, power regulators, tap changers  
and earthing/switching resistors.

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**Replaces**: KS IEC 60079-6:1995 Electrical apparatus for explosive gas atmospheres part 6 oil immersion o

1. **Number**: IEC 60079-5:2015 RLV

**Title**: Explosive atmospheres - Part 5: Equipment protection by powder filling "q"

**Scope**: This part of IEC 60079 contains specific requirements for the construction, testing and  
marking of electrical equipment, parts of electrical equipment and Ex components in the type  
of protection powder filling “q”, intended for use in explosive gas atmospheres.

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**Replaces**: KS IEC 60079-5:1997 Electrical apparatus for explosive gas atmospheres part 5 powder filling q

1. **Number**: IEC 60079-7:2015+AMD1:2017

**Title**: Explosive atmospheres - Part 7: Equipment protection by increased safety "e

**Scope**: This part of IEC 60079 specifies the requirements for the design, construction, testing and  
marking of electrical equipment and Ex Components with type of protection increased safety  
“e” intended for use in explosive gas atmospheres.  
Electrical equipment and Ex Components of type of protection increased safety “e” are either:  
a) Level of Protection “eb” (EPL “Mb” or “Gb”); or  
b) Level of Protection “ec” (EPL “Gc”)  
Level of Protection “eb” applies to equipment or Ex Components, including their connections,  
conductors, windings, lamps, and batteries; but not including semiconductors or electrolytic  
capacitors.

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**Replaces**: KS IEC 60079-7:2001 Electrical apparatus for explosive gas atmospheres part 7 increased safety e

1. **Number**: IEC 60204-1:2016

**Title**: Safety of machinery electrical equipment of machines part 1 general requirements

**Scope**: This part of IEC 60204 applies to the application of electrical, electronic and programmable  
electronic equipment and systems to machines not portable by hand while working, including  
a group of machines working together in a co-ordinated manner.  
NOTE 1 This part of IEC 60204 is an application standard and is not intended to limit or inhibit technological  
advancement.  
NOTE 2 In this part of IEC 60204, the term “electrical” includes electrical, electronic and programmable electronic  
matters (i.e. “electrical equipment” means electrical, electronic and programmable electronic equipment).  
NOTE 3 In the context of this part of IEC 60204, the term “person” refers to any individual and includes those  
persons who are assigned and instructed by the user or his agent(s) in the use and care of the machine in  
question.  
The equipment covered by this part of IEC 60204 commences at the point of connection of the  
supply to the electrical equipment of the machine (see 5.1).

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**Replaces**: KS IEC 60204-1:1997 Safety of machinery electrical equipment of machines part 1 general requirements

1. **Number**: IEC 60335-2-3:2012+AMD1:2015

**Title**: Household and similar electrical appliances - Safety - Part 2-3:Particular requirements for electric irons

**Scope**: This International Standard deals with the safety of electric dry irons and steam irons,  
including those with a separate water reservoir or boiler having a capacity not exceeding 5 l,  
for household and similar purposes, their rated voltage being not more than 250 V.  
Appliances not intended for normal household use, but which nevertheless may be a source  
of danger to the public, such as appliances intended to be used by laymen in shops, in light  
industry and on farms, are within the scope of this standard.

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**Replaces**: KS 279:1998 Specification for electric irons for household use second edition

1. **Number**: IEC 60311:2016

**Title**: Electric irons for household or similar use - Methods for measuring performance

**Scope**: This International Standard applies to electric irons for household or similar use.  
The purpose of this document is to state and define the principal performance characteristics  
of electric irons for household or similar use which are of interest to the user and to describe  
the standard methods for measuring these characteristics.  
Electric irons covered by this standard include  
• dry irons;  
• steam irons;  
• vented steam irons with motor pump;  
• spray irons;  
• steam irons with separate water reservoir or boiler/generator having a capacity not  
exceeding 5 l.  
This document is concerned neither with safety nor with performance requirements.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60311%7Bed5.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 279:1998 Specification for electric irons for household use second edition

1. **Number**: IEC 60335-2-29:2016+AMD1:2019

**Title**: Household and similar electrical appliances safty part 2 29 particular requirements for battery chargers

**Scope**: This part of IEC 60335 deals with the safety of electric battery chargers for household and  
similar use having an output not exceeding 120 250 V ripple-free direct current, their rated  
voltage being not more than 250 V.  
Battery chargers intended for charging batteries in a household end use application outside  
the scope of the IEC 60335 series of standards are within the scope of this standard.  
Requirements for battery chargers for use by children at least 8 years old without supervision  
are given in Annex AA.  
Battery chargers not intended for normal household use, but which nevertheless may be a  
source of danger to the public, such as battery chargers intended for use in garages, shops,  
light industry and on farms, are within the scope of this standard.

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**Replaces**: KS IEC 60335-2-29:2010 Household and similar electrical appliances safty part 2 29 particular requirements for battery chargers

1. **Number**: IEC 60335-2-76:2018

**Title**: Household and similar electrical appliances safety part 2 76 particular requirements for electric fence energizers

**Scope**: This part of IEC 60335 deals with the safety of electric fence energizers, the rated voltage  
of which is not more than 250 V and by means of which fence wires in agricultural, domestic  
or feral animal control fences and security fences may be electrified or monitored.  
NOTE 101 Examples of electric fence energizers coming within the scope of this standard are:  
– mains-operated energizers;  
– battery-operated electric fence energizers suitable for connection to the mains, as shown in Figure 101  
and Figure 102;  
– electric fence energizers operated by non-rechargeable batteries either incorporated or separate.

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**Replaces**: KS IEC 60335-2-76:2006 Household and similar electrical appliances safety part 2 76 particular requirements for electric fence energizers

1. **Number**: IEC 60730-2-10:2006

**Title**: Automatic electrical controls for household and similar use part 2 10 particular requirements for motor starting relays

**Scope**: This part of IEC 60730 applies to controls for automatically controlling the starting windings of  
single phase motors associated with equipment for household and similar use.  
This standard applies to motor-starting relays using NTC or PTC thermistors, additional  
requirements for which are contained in Annex J.

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**Replaces**: KS IEC 60730-2-10:1991 Automatic electrical controls for household and similar use part 2 10 particular requirements for motor starting relays

1. **Number**: IEC 60730-2-11:2019

**Title**: Automatic electrical controls for household and similar use part 2 11 particular requirements for energy regulators

**Scope**: In general, this part of IEC 60730 applies to energy regulators for use in, on, or in association  
with equipment for household and similar use, including energy regulators for heating, air  
conditioning and similar applications. The equipment may use electricity, gas, oil, solid fuel,  
solar thermal energy, etc. or a combination thereof.  
NOTE These energy regulators may can be thermally, mechanically or electrically operated.  
1.1.1 Replacement:  
This standard applies to the inherent safety, to the operating values, operating times and  
operating sequence where such these are associated with equipment safety, and to the testing  
of automatic electrical energy regulator devices used in, or in association with, household or  
similar equipment.

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**Replaces**: KS IEC 60730-2-11:1997 Automatic electrical controls for household and similar use part 2 11 particular requirements for energy regulators

1. **Number**: IEC 60730-2-12:2015

**Title**: Automatic electrical controls for household and similar use part 2 12 particular requirements for electrically operated door locks

**Scope**: This part of IEC 60730 applies to electrically operated door locks for use in, on or in  
association with equipment, including equipment for heating, air-conditioning and similar  
applications. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc.,  
or a combination thereof.  
NOTE 1 Throughout this standard, the word "equipment" includes "appliance" and "control system".  
This standard also applies to electrically operated door locks for equipment that may be  
used by the public, such as equipment intended to be used in shops, offices, hospitals, farms  
and commercial and industrial applications.  
This standard does not apply to electrically operated door locks intended exclusively for  
industrial process applications unless explicitly mentioned in the equipment standard.  
This standard does not apply to electrically operated door locks intended for security access  
applications.

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**Replaces**: KS IEC 60730-2-12:1993 Automatic electrical controls for household and similar use part 2 12 particular requirements for electrically operated door locks

1. **Number**: IEC 60730-2-13:2017

**Title**: Automatic electrical controls for household and similar use part 2 13 particular requirements for humidity sensing controls

**Scope**: This part of IEC 60730 applies to automatic electrical humidity sensing controls for use in, on  
or in association with equipment, including controls for heating, air-conditioning and similar  
applications. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc.  
or a combination thereof.  
NOTE Throughout this standard, the word "equipment" includes "appliance" and "control system".  
This International Standard is applicable to automatic electrical humidity sensing controls  
forming part of a building automation control system within the scope of ISO 16484.  
This standard also applies to automatic electrical humidity sensing controls for equipment that  
may be used by the public, such as equipment intended

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**Replaces**: [KS IEC 60730-2-13:1997 Automatic electrical controls for household and similar use part 2 13 particular requirements for humidity sensing controls](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

1. **Number**: IEC 60730-2-14:2017+AMD1:2019

**Title**: Automatic electrical controls for household and similar use part 2 14 particular requirements for electric actuators

**Scope**: This part 2-14 applies to electric actuators for use in, on, or in association with equipment  
for household and similar use. The equipment may use electricity, gas, oil, solid fuel, solar  
thermal energy, etc., or a combination thereof.  
NOTE Throughout this standard the word "equipment" means "appliance and equipment."  
EXAMPLE 1 Electric actuators for appliances within the scope of IEC 60335.  
This International Standard is applicable to controls for building automation within the scope  
of ISO 16484.  
This part 2-14 also applies to automatic electrical controls for equipment that may be used  
by the public, such as equipment intended to be used in shops, offices, hospitals, farms and  
commercial and industrial applications.

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**Replaces**: KS IEC 60730-2-14:2001 Automatic electrical controls for household and similar use part 2 14 particular requirements for electric actuators

1. **Number**: IEC 60730-2-9:2015+AMD1:2018+AMD2:2020

**Title**: Automatic electrical controls for household and similar use part 2 13 particular requirements for temperature sensing controls

**Scope**: This part of IEC 60730 applies to automatic electrical temperature sensing controls for use  
in, on or in association with equipment, including electrical controls for heating, airconditioning and similar applications. The equipment may use electricity, gas, oil, solid fuel,  
solar thermal energy, etc., or a combination thereof.  
NOTE Throughout this standard, the word "equipment" includes "appliance" and "control system".  
This standard is applicable to automatic electrical temperature sensing controls forming part  
of a building automation control system within the scope of ISO 16484.  
This standard also applies to automatic electrical temperature sensing controls for  
equipment that may be used by the public, such as equipment intended to be used in shops,  
offices, hospitals, farms and commercial and industrial applications.

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**Replaces**: KS IEC 60730-2-9:2000 Automatic electrical controls for household and similar use part 2 13 particular requirements for temperature sensing controls

1. **Number**: IEC 60745-2-11:2008

**Title**: Safety of hand held motor operated electric tools part 2 11 particular requirements for reciprocating saws jig and sabre saws

**Scope**: This standard applies to reciprocating saws such as jig saws and sabre saws

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**Replaces**: KS IEC 60745-2-11:1984 Safety of hand held motor operated electric tools part 2 11 particular requirements for reciprocating saws jig and sabre saws

1. **Number**: IEC 60745-2-12:2008

**Title**: Safety of hand held motor operated electric tools part 2 12 particular requirements for concrete vibrators internal vibrators

**Scope**: This standard applies to concrete vibrators.

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**Replaces**: KS IEC 60745-2-12:1982 Safety of hand held motor operated electric tools part 2 12 particular requirements for concrete vibrators internal vibrators

1. **Number**: IEC 60745-2-13:2009

**Title**: Safety of hand held motor operated electric tools part 2 13 particular requirements for chain saws

**Scope**: This standard applies to chain saws for cutting wood and designed for use by one person.  
This standard does not cover chain saws designed for use in conjunction with a guide-plate  
and riving knife or in any other way such as with a support or as a stationary or transportable  
machine.  
This standard does not apply to chain saws for tree service as defined in ISO 11681-2, pole  
cutters and pruners.

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**Replaces**: KS IEC 60745-2-13:1989 Safety of hand held motor operated electric tools part 2 13 particular requirements for chain saws

1. **Number**: IEC 60745-2-14:2010

**Title**: Safety of hand held motor operated electric tools part 2 14 particular requirements for planers

**Scope**: This standard applies to planers.

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**Replaces**: KS IEC 60745-2-14:1984 Safety of hand held motor operated electric tools part 2 14 particular requirements for planers

1. **Number**: IEC 60745-2-17:2010

**Title**: Safety of hand held motor operated electric tools part 2 17 particular requirements for routers and trimmers

**Scope**: This standard applies to routers and trimmers.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-17%7Bed3.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-17:1989 Safety of hand held motor operated electric tools part 2 17 particular requirements for routers and trimmers

1. **Number**: IEC 60745-2-2:2003+AMD1:2008

**Title**: Safety of hand held motor operated electric tools part 2 2 particular requirements for screwdrivers and impact wrenches

**Scope**: This standard applies to screwdrivers and impact wrenches.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-2%7Bed2.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-2:1982 Safety of hand held motor operated electric tools part 2 2 particular requirements for screwdrivers and impact wrenches

1. **Number**: IEC 60745-2-3:2006+AMD1:2010+AMD2:2012

**Title**: Safety of hand held motor operated electric tools part 2 3 particular requirements for grinders polishers and disk type sanders

**Scope**: This standard applies to grinders, polishers and disk-type sanders, including angle, straight  
and vertical tools, with a rated capacity not exceeding 230 mm. For grinders, the rated speed  
does not exceed a peripheral speed of the accessory of 80 m/s at rated capacity.  
This standard does not apply to dedicated cut-off machines which are covered by  
IEC 60745-2-22.  
This standard does not apply to random-orbit polishers and random-orbit sanders which are  
covered by IEC 60745-2-4.  
This standard does not apply to die grinders utilizing collets or chucks for mounting threaded  
cones and mandrel mounted wheels which are covered by IEC 60745-2-23.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-3%7Bed2.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-3:1984 Safety of hand held motor operated electric tools part 2 3 particular requirements for grinders polishers and disk type sanders

1. **Number**: IEC 60745-2-4:2002+AMD1:2008

**Title**: Safety of hand held motor operated electric tools part 2 4 particular requirements for sanders

**Scope**: This standard applies to sanders and polishers with the exception of all types of disc-type  
tools, which are covered by IEC 60745-2-3.  
Tools covered by this standard include but are not limited to belt sanders, reciprocating  
sanders or polishers, orbital sanders or polishers, and random orbit sanders or polishers.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-4%7Bed2.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-4:1983 Safety of hand held motor operated electric tools part 2 4 particular requirements for sanders

1. **Number**: IEC 60745-2-6:2003+AMD1:2006+AMD2:2008

**Title**: Safety of hand held motor operated electric tools part 2 6 particular requirements for hammers

**Scope**: This standard applies to hammers.  
Tools covered by this standard include but are not limited to percussion and rotary hammers.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-6%7Bed2.2%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-6:1989 Safety of hand held motor operated electric tools part 2 6 particular requirements for hammers

1. **Number**: IEC 60745-2-9:2003+AMD1:2008

**Title**: Safety of hand held motor operated electric tools part 2 9 particular requirements for tappers

**Scope**: This standard applies to tappers.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-9%7Bed2.1%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-9:1984 Safety of hand held motor operated electric tools part 2 9 particular requirements for tappers

1. **Number**: IEC 60998-1:2002

**Title**: Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements

**Scope**: This part of IEC 60998 applies to connecting devices as separate entities for the connection of  
two or more electrical copper conductors (complying with IEC 60228 or IEC 60344) rigid (solid  
or stranded) or flexible, having a cross-sectional area of 0,2 mm2 up to and including 35 mm2  
and equivalent AWG conductors with a rated voltage not exceeding 1 000 V a.c. up to and  
including 1 000 Hz and 1 500 V d.c. where electrical energy is used for household and similar  
purposes.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60998-1%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 1432-1:1999 Specification for connecting devices for low voltage circuits for household and similar purposes part 1 general requirements

1. **Number**: IEC 60998-2-1:2002

**Title**: Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units

**Scope**: This standard applies to connecting devices with screw-type clamping units primarily suitable  
for connecting unprepared conductors.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60998-2-1%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 1432-2:1999 Specification for connecting devices for low voltage circuits for household and similar purposes part 2 particular requirements for connecting devices with screw type clamping units

1. **Number**: IEC 60998-2-3:2002

**Title**: Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

**Scope**: This standard applies to connecting devices with insulation piercing clamping units primarily  
suitable for connecting insulated unprepared conductors.  
In the connecting operation the insulation of the conductor is pierced, bored through, cut  
through, removed, displaced or made ineffective in some other manner at the point or points  
of contact.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60998-2-3%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 1432-4:1999 Specification for connecting devices for low voltage circuits for household and similar purposes part 4 particular requirements for connecting devices with insulation piercing clamping units

1. **Number**: IEC 60998-2-4:2004

**Title**: Connecting devices for low-voltage circuits for household and similar purposes - Part 2-4: Particular requirements for twist-on connecting devices

**Scope**: This International Standard applies to twist-on connecting devices for connecting two or more  
unprepared rigid and/or flexible copper conductors having a cross-sectional area of 0,5 mm2  
up to and including 16 mm2 and complying with IEC 60228, the total cross-sectional area of  
the connected conductors not exceeding 35 mm2.  
It covers low voltage circuits up to 1 000 V a.c. and 1 500 V d.c. where electrical energy is  
utilized for household and similar purposes.  
This standard covers TOCDs primarily designed for application by hand. However, certain  
TOCDs, for example for large cross-sections, may require the use of a tool designed for that  
particular TOCD.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60998-2-4%7Bed2.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 1432-3:1999 Specification for connecting devices for low voltage circuits for household and similar purposes part 3 particular requirements for twist on connecting devices

1. **Number**: IEC 61140:2016

**Title**: Protection against electric shock - Common aspects for installation and equipment

**Scope**: This International Standard is a basic safety publication primarily intended for use by  
technical committees in the preparation of standards in accordance with the principles laid  
down in IEC Guide 104 and ISO/IEC Guide 51.  
It is not intended to be used as a stand-alone standard.  
According to IEC Guide 104, technical committees, when preparing, amending, or revising  
their publications, are required to make use of any basic safety publication such as IEC 61140.  
This International Standard applies to the protection of persons and animals livestock against  
electric shock. The intent is to give fundamental principles and requirements which are  
common to electrical installations, systems and equipment or necessary for their coordination,  
without limitations with regard to the magnitude of the voltage or current, or the type of  
current, and for frequencies up to 1 000 Hz.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec61140%7Bed4.0.RLV%7Den.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS 1110-2:2001 Classification of electrical and electronic equipment with regard to protection against electric shock part 2 guidelines to requirements for protection against electric shock

1. **Number**: IEC 60745-2-5:2010

**Title**: Hand-held motor-operated electric tools - Safety - Part 2-5: Particular requirements for circular saws

**Scope**: This standard applies to circular saws, which hereinafter will be referred to as saws.  
This standard does not apply to saws designed for use with abrasive wheels.  
NOTE Saws designed for use with abrasive wheels as cut-off machines are covered by IEC 60745-2-22.

**Online Preview**: [https://webstore.iec.ch/preview/info\_iec60745-2-5%7Bed5.0%7Db.pdf](https://webstore.iec.ch/preview/info_iec60269-3%7Bed4.2%7Db.pdf)

**Replaces**: KS IEC 60745-2-5:1993 Safety of hand held motor operated electric tools part 2 particular requirements for circular saws and circular knives