



INTERNATIONAL STANDARD

EXTENDED VERSION

This full version of IEC 60730-2-7:2026 includes the content of the references made to IEC 60730-1:2022

**Automatic electrical controls -
Part 2-7: Particular requirements for timers and time switches**

CONTENTS

| | |
|--|----|
| FOREWORD | 9 |
| 1 Scope | 12 |
| 2 Normative references | 12 |
| 3 Terms and definitions | 17 |
| 3.1 Definitions relating to ratings, voltages, currents, frequencies, and wattages | 17 |
| 3.2 Definitions of types of control according to purpose | 19 |
| 3.3 Definitions relating to the function of controls | 21 |
| 3.4 Definitions relating to disconnection and interruption | 24 |
| 3.5 Definitions of types of control according to construction | 26 |
| 3.6 Definitions of type of automatic action of a control | 27 |
| 3.7 Definitions relating to protection against electric shock and type of insulation | 27 |
| 3.8 Definitions relating to component parts of controls | 31 |
| 3.9 Definitions of types of terminals and terminations of controls | 33 |
| 3.10 Definitions relating to the connections to controls | 34 |
| 3.11 Definitions relating to the performance of type 2 actions | 36 |
| 3.12 Definitions relating to the requirements for creepage distances and clearances | 36 |
| 3.13 Miscellaneous definitions | 37 |
| 3.14 Definitions relating to manufacturer and user | 38 |
| 3.15 Definitions pertaining to thermistors | 39 |
| 3.16 Definitions relating to the structure of controls using software | 39 |
| 3.17 Definitions relating to error avoidance in controls using software | 39 |
| 3.18 Definitions relating to fault/error control techniques for controls using software | 39 |
| 3.19 Definitions relating to memory tests for controls using software | 39 |
| 3.20 Definitions of software terminology – General | 39 |
| 3.21 Definitions relating to classes of control functions | 39 |
| 3.22 Definitions relating to functional safety | 39 |
| 3.23 Definitions related to access to data exchange | 39 |
| 3.24 Definitions related to EMC performance | 39 |
| 4 General | 42 |
| 4.1 General structure of the document | 42 |
| 4.2 General requirements | 43 |
| 4.3 General notes on tests | 43 |
| 5 Required technical information | 47 |
| 5.1 General requirements | 47 |
| 5.2 Methods of providing technical information | 47 |
| 5.3 Class II symbol | 55 |
| 5.4 Additional requirements for marking | 55 |
| 5.5 Warning or cautionary markings | 57 |
| 6 Protection against electric shock | 57 |
| 6.1 General requirements | 57 |
| 6.2 Actuating members and actuating means | 59 |
| 6.3 Capacitors | 60 |
| 6.4 Covers and uninsulated live or hazardous parts | 60 |
| 6.5 Battery operated controls provided with a user accessible mains supply input connector | 60 |

| | | |
|------|---|-----|
| 7 | Provision for protective earthing | 61 |
| 7.1 | Class 0I and Class I controls..... | 61 |
| 7.2 | Class II and class III controls | 61 |
| 7.3 | Adequacy of earth connections | 61 |
| 7.4 | Corrosion resistance | 62 |
| 7.5 | Other requirements | 63 |
| 7.6 | Protective equipotential bonding | 63 |
| 8 | Terminals and terminations..... | 63 |
| 8.1 | Terminals and terminations for external copper conductors..... | 63 |
| 8.2 | Terminals and terminations for internal conductors | 68 |
| 8.3 | Terminals and terminations for integrated conductors | 70 |
| 9 | Constructional requirements | 70 |
| 9.1 | Materials..... | 70 |
| 9.2 | Protection against electric shock..... | 70 |
| 9.3 | Actuation and operation | 73 |
| 9.4 | Actions | 76 |
| 9.5 | Openings in enclosures..... | 79 |
| 9.6 | Mounting of controls | 79 |
| 9.7 | Attachment of cords | 81 |
| 9.8 | Size of cords – non-detachable | 82 |
| 9.9 | Inlet openings | 82 |
| 9.10 | Equipment inlets and socket-outlets..... | 83 |
| 9.11 | Requirements during mounting, use, maintenance and servicing | 84 |
| 9.12 | Controls using software | 86 |
| 9.13 | Protective controls and components of protective control systems | 89 |
| 10 | Threaded parts and connections..... | 91 |
| 10.1 | Threaded parts moved during mounting or servicing | 91 |
| 10.2 | Current-carrying connections and connections providing protective earthing continuity | 93 |
| 11 | Creepage distances, clearances and distances through solid insulation..... | 94 |
| 11.1 | General..... | 94 |
| 11.2 | Clearances | 95 |
| 11.3 | Creepage distances | 99 |
| 11.4 | Solid insulation | 103 |
| 12 | Components | 104 |
| 12.1 | Transformers | 104 |
| 12.2 | Switch mode power supplies and converters..... | 104 |
| 12.3 | Capacitors | 105 |
| 12.4 | Fuses | 105 |
| 12.5 | Varistors | 105 |
| 12.6 | Thermistors..... | 105 |
| 12.7 | Relays | 106 |
| 12.8 | Other components | 106 |
| 13 | Fault assessment on electronic circuits | 106 |
| 13.1 | Fault assessment for inherent safety..... | 106 |
| 13.2 | Fault assessment to ensure functional safety..... | 112 |
| 14 | Moisture and dust resistance | 112 |
| 14.1 | Protection against ingress of water and dust..... | 112 |

| | | |
|-------|---|-----|
| 14.2 | Protection against humid conditions | 113 |
| 14.3 | Touch current test for in-line cord controls and free-standing controls | 114 |
| 15 | Electric strength and insulation resistance | 115 |
| 15.1 | Insulation resistance | 115 |
| 15.2 | Electric strength | 115 |
| 15.3 | Additional tests for in-line cord and free-standing controls | 117 |
| 16 | Heating | 118 |
| 17 | Manufacturing deviation and drift | 122 |
| 18 | Environmental stress | 122 |
| 18.1 | Transportation and storage | 122 |
| 18.2 | Environmental stress of temperature | 122 |
| 19 | Endurance | 123 |
| 19.1 | General requirements | 123 |
| 19.2 | Electrical conditions for the tests | 125 |
| 19.3 | Thermal conditions for the tests | 132 |
| 19.4 | Manual and mechanical conditions for the tests | 132 |
| 19.5 | Dielectric strength requirements | 133 |
| 19.6 | Ageing test | 133 |
| 19.7 | Overvoltage test or overload test in all countries using an overload test of automatic action at accelerated rate | 133 |
| 19.8 | Test of automatic action at accelerated rate | 134 |
| 19.9 | Test of automatic action at slow rate | 134 |
| 19.10 | Overvoltage test or overload test in all countries that use the overload test of manual action at accelerated speed | 135 |
| 19.11 | Test of manual action at slow speed | 135 |
| 19.12 | Test of manual action at high speed which has multiple poles, and where polarity reversal occurs during the action | 135 |
| 19.13 | Test of manual action at accelerated speed | 135 |
| 19.14 | Evaluation of compliance | 136 |
| 19.15 | Test for particular purpose controls | 136 |
| 20 | Mechanical strength | 138 |
| 20.1 | General requirements | 138 |
| 20.2 | Impact resistance | 139 |
| 20.3 | Free-standing controls | 139 |
| 20.4 | In-line cord controls | 140 |
| 20.5 | Pull-cord actuated controls | 140 |
| 20.6 | Foot actuated controls | 141 |
| 20.7 | Actuating member and actuating means | 141 |
| 20.8 | Flexing – test | 141 |
| 20.9 | Cord anchorages – test | 142 |
| 21 | Resistance to heat, fire and tracking | 142 |
| 21.1 | General requirements | 142 |
| 21.2 | Integrated, incorporated and in-line cord controls | 143 |
| 21.3 | Independently mounted, free-standing controls | 144 |
| 22 | Resistance to corrosion | 144 |
| 22.1 | Resistance to rusting | 144 |
| 23 | Electromagnetic compatibility (EMC) requirements – Emission | 145 |
| 23.1 | General requirement | 145 |

| | | |
|-----------------------|---|-----|
| 23.2 | High frequency emission | 145 |
| 23.3 | Low frequency emission | 149 |
| 24 | Normal operation | 149 |
| 25 | Electromagnetic compatibility (EMC) requirements – Immunity | 149 |
| 25.1 | General..... | 149 |
| 25.2 | EMC test plan and report | 150 |
| 25.3 | Immunity requirements..... | 152 |
| 25.4 | Performance criteria | 155 |
| 25.5 | Surge immunity test | 156 |
| 25.6 | Electrical fast transient immunity test..... | 156 |
| 25.7 | Radio-frequency electromagnetic field immunity | 157 |
| 25.8 | Electrostatic discharge..... | 157 |
| 25.9 | Immunity to power-frequency magnetic fields..... | 157 |
| 25.10 | Test of the influence of voltage dips and voltage interruption in the power supply network..... | 158 |
| 26 | Abnormal operation tests..... | 158 |
| 26.1 | Abnormal temperature test..... | 158 |
| 26.2 | Overload tests | 159 |
| 26.3 | Battery short-circuit test..... | 160 |
| Annex A (normative) | Indelibility of markings | 177 |
| Annex B (normative) | Measurement of creepage distances and clearances in air..... | 179 |
| Annex C (informative) | Nominal voltages of supply systems for different modes of overvoltage control | 183 |
| Annex D (normative) | Overvoltage categories | 185 |
| Annex E (informative) | Typical usage of controls and related overvoltage categories | 186 |
| Annex F (normative) | Pollution degrees | 187 |
| F.1 | Pollution | 187 |
| F.2 | Degrees of pollution in the micro-environment | 187 |
| Annex G (normative) | Resistance to heat, fire and tracking tests | 188 |
| G.1 | Glow-wire test..... | 188 |
| G.2 | Proof tracking test..... | 188 |
| G.3 | Ball pressure test..... | 188 |
| Annex H (normative) | Requirements related to functional safety | 190 |
| H.3 | Terms and definitions..... | 190 |
| H.5 | Information | 201 |
| H.9 | Constructional requirements | 202 |
| H.13 | Fault assessment on electronic circuits..... | 219 |
| H.17 | Manufacturing deviation and drift | 222 |
| H.19 | Endurance | 224 |
| H.25 | Electromagnetic compatibility (EMC) requirements – Immunity..... | 225 |
| Annex I (normative) | Requirements for certain types of DC supplied controls..... | 237 |
| I.1 | Scope | 237 |
| Annex J (normative) | Requirements for thermistor elements and controls using thermistors..... | 239 |
| J.1 | Scope | 239 |
| Annex K (normative) | Circuit for measuring touch current | 256 |
| Annex L (normative) | Printed circuit board coating performance test..... | 257 |
| Annex M (normative) | Printed circuit board protection | 259 |

| | |
|--|-----|
| Annex N (informative) Explanatory notes for surge immunity test | 262 |
| N.1 Different source impedances | 262 |
| N.2 Application of the tests | 262 |
| N.3 Installation classification | 263 |
| Annex O (informative) Guidance for applying Clause 11 | 266 |
| Annex P (normative) Requirements for SELV and PELV | 269 |
| P.1 Overview of the requirements for SELV and PELV | 269 |
| P.2 Protection against electric shock by SELV system or PELV system | 269 |
| P.3 Protective measures for SELV system and PELV system | 270 |
| Annex Q (informative) Regional differences relevant for the member countries of Cenelec | 272 |
| Annex R (informative) National differences relevant in the United States of America | 277 |
| R.2 Normative references | 277 |
| Annex S (informative) National differences relevant in Japan | 278 |
| S.2 Normative references | 278 |
| Annex T (informative) National differences relevant in Canada | 279 |
| T.2 Normative references | 279 |
| Annex AA (normative) Number of cycles, automatic and manual action | 280 |
| Bibliography | 281 |
| | |
| Figure 1 – Example of ports | 40 |
| Figure 2 – Structure of the document with respect to inherent safety and functional safety | 43 |
| Figure 3 – Example of an electronic circuit with low power points | 107 |
| Figure 4 – Test pin probe 13 of IEC 61032:1997 | 160 |
| Figure 5 – Test finger probe B of IEC 61032:1997 | 161 |
| Figure 6 – Test fingernail | 162 |
| Figure 7 – Impact test for free-standing controls | 163 |
| Figure 8 – Tumbling barrel | 163 |
| Figure 9 – Apparatus for testing durability of markings on rating labels | 164 |
| Figure 10 – Apparatus for flexing test | 164 |
| Figure 11 – Screw terminals and stud terminals | 165 |
| Figure 12 – Pillar terminals | 166 |
| Figure 13 – Mantle terminals | 167 |
| Figure 14 – Saddle and lug terminals | 168 |
| Figure 15 – Tabs | 169 |
| Figure 16 – Tabs for non-reversible connectors | 170 |
| Figure 17 – Receptacles | 171 |
| Figure 18 – Measurement of creepage distance and clearance | 172 |
| Figure 19 – Diagram for touch current measurement at operating temperature for single-phase connection of class II controls | 173 |
| Figure 20 – Diagram for touch current measurement at operating temperature for single-phase connection of controls other than class II | 173 |
| Figure 21 – Diagram for touch current measurement at operating temperature for three-phase connection of class II controls | 174 |

| | |
|---|-----------|
| Figure 22 – Diagram for touch current measurement at operating temperature for three-phase connection of controls other than class II | 175 |
| Figure 23 – Diagram for touch current measurement at operating temperature for single-phase connection of controls to three-wire, ground neutral supply other than class II | 175 |
| Figure 24 – Diagram for touch current measurement at operating temperature for two-phase connection of controls to three-wire, ground neutral supply other than class II | 176 |
| Figure B.1 – Narrow groove | 180 |
| Figure B.2 – Wide groove | 180 |
| Figure B.3 – V-shaped groove | 180 |
| Figure B.4 – Rib..... | 180 |
| Figure B.5 – Uncemented joint with narrow groove | 181 |
| Figure B.6 – Uncemented joint with wide groove | 181 |
| Figure B.7 – Uncemented joint with narrow and wide grooves | 181 |
| Figure B.8 – Diverging side walls | 182 |
| Figure B.9 – Narrow recess | 182 |
| Figure B.10 – Wide recess | 182 |
| Figure B.11 – Conductive floating part | 182 |
| Figure H.1 – V-Model for the software life cycle | 210 |
| Figure H.2 – Voltage variation test | 228 |
| Figure J.1 – Generic test circuit for inrush-current limiting thermistor endurance test..... | 255 |
| Figure K.1 – Circuit for measuring touch currents | 256 |
| Figure L.1 – Test sample | 258 |
| Figure M.1 – Example of type 1 protection | 260 |
| Figure M.2 – Example of type 2 protection | 261 |
| Figure N.1 – Example of surge protection by shielding in buildings with common earth reference systems | 264 |
| Figure N.2 – Example of secondary surge protection in buildings with separate common earth reference systems | 265 |
| Figure N.3 – Example of primary and secondary surge protection of indoor/outdoor equipment..... | 265 |
| Figure O.1 – Guidance flowchart for application of requirements of Clause 11 | 267 |
| Table 1 – Required technical information and methods of providing these information | 50 |
| Table 2 – Cross-sectional area of conductors | 64 |
| Table 3 – Terminal conductors..... | 66 |
| Table 4 – Conductor pull test values | 66 |
| Table 5 – Nominal cross-sectional areas of conductors..... | 68 |
| Table 6 – Axial force values for tab insertion and withdrawal | 69 |
| Table 7 – Minimum cord conductor sizes | 82 |
| Table 8 – Data exchange | 87 |
| Table 9 – Threaded parts torque test values | 93 |
| Table 10 – Rated impulse voltage for equipment energized directly from the supply mains (from IEC 60664-1:2007, Table F.1) | 96 |
| Table 11 – Clearances for insulation co-ordination (from IEC 60664-1:2007, Table F.2)..... | 97 |

| | |
|---|-----|
| Table 12 – Minimum creepage distances for basic insulation | 101 |
| Table 13 – Minimum creepage distances for functional insulation | 102 |
| Table 14 – Electrical/electronic component fault modes | 108 |
| Table 15 – Minimum insulation resistance..... | 115 |
| Table 16 – Insulation or disconnection test voltages | 116 |
| Table 17 – Maximum heating temperatures..... | 120 |
| Table 18 – Electrical conditions for the overvoltage and endurance tests..... | 127 |
| Table 19 – Electrical conditions for the overload tests of 19.7 and 19.10 | 129 |
| Table 20 – Electrical conditions for the endurance tests of 19.8, 19.9, 19.11, 19.12 and 19.13 | 131 |
| Table 21 – Pull-cord force test values | 140 |
| Table 22 – Pull and torque values..... | 142 |
| Table 23 – Emission limit for residential electromagnetic environment..... | 147 |
| Table 24 – Emission limit for industrial electromagnetic environment..... | 148 |
| Table 25 – The applicable EMC test in relation to the class of control function and type of Action | 150 |
| Table 26 – Immunity test requirements for residential electromagnetic environments..... | 152 |
| Table 27 – Immunity test requirements for industrial electromagnetic environment | 154 |
| Table 28 – Performance criteria | 156 |
| Table 29 – Maximum winding temperature (for test of mechanical blocked output conditions)..... | 159 |
| Table B.1 – Value of X | 179 |
| Table C.1 – Inherent control or equivalent protective control..... | 183 |
| Table C.2 – Cases where protective control is necessary and control is provided by surge arresters having a ratio of clamping voltage to rated voltage not smaller than that specified by IEC 60099-1 | 184 |
| Table E.1 – Typical usage..... | 186 |
| Table H.1 – Additional items to Table 1..... | 201 |
| Table H.2 – Acceptable measures to address fault/errors ^a | 204 |
| Table H.3 – Examples of techniques/measures for semi-formal methods | 211 |
| Table H.4 – Examples of techniques/measures for software architecture specification | 211 |
| Table H.5 – Examples of techniques/measures for module design specification..... | 212 |
| Table H.6 – Examples of techniques/measures for design and coding standards | 212 |
| Table H.7 – Examples of techniques/measures for software module testing..... | 213 |
| Table H.8 – Examples of techniques/measures for software integration testing..... | 214 |
| Table H.9 – Examples of techniques/measures for software safety validation | 214 |
| Table H.10 – Combinations of analytical measures during hardware development | 216 |
| Table H.11 – Examples of defences against unauthorised access and transmission failure modes..... | 217 |
| Table H.12 – Applicable test levels in addition to Clause 25..... | 225 |
| Table H.13 – Voltage dips, short interruptions and voltage variations..... | 226 |
| Table H.14 – Test values for voltage variations..... | 227 |
| Table H.15 – Test voltages for test level 2 (depending on the installation class conditions)..... | 230 |
| Table H.16 – Test level for electrical fast transient burst test | 231 |

| | |
|--|-----|
| Table H.17 – Test levels for conducted disturbances on mains and I/O lines..... | 232 |
| Table H.18 – Test level for immunity to radiated electromagnetic fields | 233 |
| Table H.19 – Increased test level for radiated immunity | 234 |
| Table H.20 – Test level for supply frequency variations | 235 |
| Table H.21 – Test level for continuous fields..... | 235 |
| Table I.1 – Electrical transient conduction immunity in accordance with ISO 7637-2 | 237 |
| Table I.2 – Electrical transient conduction immunity in accordance with ISO 7637-3 | 238 |
| Table J.1 – Maximum current..... | 241 |
| Table J.2 – Normal operating conditions | 242 |
| Table J.3 – Samples for the test (clause reference) | 243 |
| Table J.4 – Electrical and thermal ratings of a thermistor | 244 |
| Table J.5 – Additional items to Table 1 | 245 |
| Table J.6 – Sequence of calibration and conditioning tests for PTC thermistors | 247 |
| Table J.7 – Classes for PTC sensing thermistors | 248 |
| Table J.8 – Sequence of calibration and conditioning tests for NTC thermistors..... | 249 |
| Table J.9 – Classes for NTC sensing thermistors | 249 |
| Table J.10 – Number of cycles for endurance test..... | 253 |
| Table J.11 – Ageing test temperature | 253 |
| Table J.12 – Number of cycles for endurance test..... | 254 |
| Table L.1 – Environmental cycling conditions..... | 257 |
| Table M.1 – IEC 60664-3 test levels or conditions | 259 |
| Table O.1 – Example A – Using Annex O guidance for applying Clause 11 | 268 |
| Table O.2 – Example B – Using Annex O guidance for applying Clause 11 | 268 |
| Table Q.1 – Additional aging parameters for windings..... | 273 |
| Table AA.1 – Values for free standing, independently mounted and in-line cord timers and time switches ^a | 280 |

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Automatic electrical controls -
Part 2-7: Particular requirements for timers and time switches**

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.
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- 9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at <https://patents.iec.ch>. IEC shall not be held responsible for identifying any or all such patent rights.

This extended version (EXV) of the official IEC Standard provides the user with the full content of the Standard.

IEC 60730-2-7:2026 EXV includes the content of IEC 60730-2-7:2026 and the references made to IEC 60730-1:2022.

The specific content of IEC 60730-2-7:2026 is displayed on a blue background.

IEC 60730-2-7 has been prepared by IEC technical committee 72: Automatic electrical controls. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2015. This edition constitutes a technical revision.

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

- a) adoption of IEC 60730-1:2022 (Ed.6.0) with all of its significant changes to IEC 60730-1:2010 (Ed.4).

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

| Draft | Report on voting |
|--------------|------------------|
| 72/1526/FDIS | 72/1537/RVD |

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

This part 2-7 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the sixth edition of that standard (2022). Consideration can be given to future editions of, or amendments to, IEC 60730-1.

This part 2-7 supplements or modifies the corresponding clauses in IEC 60730-1, so as to convert that publication into the IEC standard: Particular requirements for timers and time switches.

Where this part 2-7 states "addition", "modification" or "replacement", the relevant requirement, test specification or explanatory matter in part 1 should be adapted accordingly.

Where no change is necessary, part 2-7 indicates that the relevant clause or subclause applies.

In the development of a fully international standard, it has been necessary to take into consideration the differing requirements resulting from practical experience in various parts of the world and to recognize the variation in national electrical systems and wiring rules.

The reader's attention is drawn to the fact that Annex Q, Annex R, Annex S and Annex T list all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this document.

In this publication, the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type;*
- explanatory matter: in smaller roman type;
- defined terms: **bold type**.

Subclauses, notes or items which are additional to those in Part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc.

A list of all parts of the IEC 60730 series, under the general title: *Automatic electrical controls*, 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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

1 Scope

This part of IEC 60730 applies to **timers** and **time switches**

- for use in, on, or in association with equipment for household appliance and similar use;

NOTE 1 Throughout this document, the word "equipment" means "appliance and equipment" and "controls" means "timer or **time switches**".

NOTE 2 Throughout this document, the word "**timers**" means **timers** and **time switches**, unless the type is specifically mentioned.

- for building automation within the scope of ISO 16484 series and IEC 63044 series (HBES/BACS);
- for equipment that is used by the public, such as equipment intended to be used in shops, offices, hospitals, farms and commercial and industrial applications;
- that are **smart enabled controls**;
- that are AC or DC powered controls with a **rated voltage** not exceeding 690 V AC or 600 V DC;
- utilized as part of a control **system** or controls which are mechanically integral with multifunctional controls having non-electrical outputs;
- as well as **manual controls** when such are electrically and/or mechanically integral with **automatic controls**.

NOTE 3 Requirements for manually actuated mechanical switches not forming part of an automatic control are contained in IEC 61058-1-1.

This document applies to

- the inherent safety of **timers** and **time switches**, and
- **functional safety** of **timers** and **time switches** and safety related **systems**,
- **timers** and **time switches** where the performance (for example the effect of EMC phenomena) of the product can impair the overall safety and performance of the controlled **system**,
- the **operating values**, **operating times**, and **operating sequences** where such are associated with equipment safety,
- **timers** for appliances within the scope of IEC 60335 series.
- manual controls when such are electrically and/or mechanically integral with **timers**.

This document specifies the requirements for construction, operation and testing of **timers** and **time switches** used in, on, or in association with an equipment.

This document does not

- apply to time-delay switches (TDS) within the scope of IEC 60669-2-3;
- include devices which only indicate time or passage of time;
- apply to multi-functional controls having an integrated timing function which is not capable of being tested as a separate timing device.

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 60038, *IEC standard voltages*

IEC 60065:2014, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 60068-2-75, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60085, *Electrical insulation – Thermal evaluation and designation*

IEC 60099-1:1991, *Surge arresters – Part 1: Non-linear resistor type gapped surge arresters for a.c. systems*¹

IEC 60112:2020, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60127 (all parts), *Miniature fuses*

IEC 60227-1, *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements*

IEC 60245-1, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 1: General requirements*

IEC 60269 (all parts), *Low-voltage fuses*

IEC 60335-1:2020, *Household and similar electrical appliances – Safety – Part 1: General requirements*

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¹ Withdrawn.

² Withdrawn.

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