

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**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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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.

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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*
- IEC 60384-14, *Fixed capacitors for use in electronic equipment – Part 14: Sectional specification – Fixed capacitors for electromagnetic interference suppression and connection to the supply mains*
- IEC 60384-16, *Fixed capacitors for use in electronic equipment – Part 16: Sectional specification – Fixed metallized polypropylene film dielectric DC capacitors*
- IEC 60384-17, *Fixed capacitors for use in electronic equipment – Part 17: Sectional specification – Fixed metallized polypropylene film dielectric AC and pulse capacitors*
- IEC 60417, *Graphical symbols for use on equipment*
- IEC 60423, *Conduit systems for cable management – Outside diameters of conduits for electrical installations and threads for conduits and fittings*
- IEC 60529:1989, *Degrees of protection provided by enclosures (IP code)*
IEC 60529:1989/AMD1:1999
IEC 60529:1989/AMD2:2013
- IEC 60539 (all parts), *Directly heated negative temperature coefficient thermistors*
- IEC 60664-1:2007², *Insulation coordination for equipment within low-voltage systems – Part 1: Principles, requirements and tests*
- IEC TR 60664-2 (all parts), *Insulation coordination for equipment within low-voltage systems*

¹ Withdrawn.

² Withdrawn.