

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Automatic electrical controls**  
**Part 2-11: Particular requirements for energy regulators**

**Dispositifs de commande électrique automatiques**  
**Partie 2-11: Exigences particulières pour les régulateurs d'énergie**





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## CONTENTS

FOREWORD .....	3
1 Scope and normative references .....	5
2 Terms and definitions .....	6
3 General requirements .....	7
4 General notes on tests .....	7
5 Rating.....	7
6 Classification .....	7
7 Information .....	7
8 Protection against electric shock .....	8
9 Provision for protective earthing .....	8
10 Terminals and terminations.....	8
11 Constructional requirements .....	8
12 Moisture and dust resistance .....	8
13 Electric strength and insulation resistance .....	8
14 Heating.....	8
15 Manufacturing deviation and drift.....	9
16 Environmental stress .....	9
17 Endurance .....	9
18 Mechanical strength .....	10
19 Threaded parts and connections.....	11
20 Creepage distances, clearances and distances through solid insulation.....	11
21 Resistance to heat, fire and tracking.....	11
22 Resistance to corrosion .....	11
23 Electromagnetic compatibility (EMC) requirements – Emission .....	11
24 Components .....	11
25 Normal operation .....	11
26 Electromagnetic compatibility (EMC) requirements – Immunity .....	11
27 Abnormal operation .....	11
28 Guidance on the use of electronic disconnection .....	11
Annex H (normative) Requirements for electronic controls .....	12
Annex AA (normative) Regional differences .....	15

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**AUTOMATIC ELECTRICAL CONTROLS****Part 2-11: Particular requirements for energy regulators**

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International Standard IEC 60730-2-11 has been prepared by IEC technical committee 72: Automatic electrical controls.

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

- a) revision to the title to remove "for household and similar use";
- b) changes to the scope and related modifications;
- c) changes to definitions in Annex H.

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

CDV	Report on voting
72/1137/CDV	72/1167/RVC

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

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

This Part 2-11 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the fifth edition of that standard (2013) including Amendment 1 (2015). Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This Part 2-11 supplements or modifies the corresponding clauses in IEC 60730-1 so as to convert that publication into the IEC standard: Particular requirements for energy regulators.

Where this Part 2-11 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, this Part 2-11 indicates that the relevant clause or subclause applies.

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, tables and figures which are additional to those in Part 1 are numbered starting from 101.

A list of all parts of the IEC 60730 series, under the general title *Automatic electrical controls*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

## AUTOMATIC ELECTRICAL CONTROLS

### Part 2-11: Particular requirements for energy regulators

#### 1 Scope and normative references

This clause of Part 1 is applicable except as follows:

##### 1.1 Scope

###### *Replacement:*

In general, this part of IEC 60730 applies to energy regulators for use in, on, or in association with equipment, 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 can be thermally, mechanically or electrically operated.

This standard applies to the inherent safety, to the operating values, operating times and operating sequence where these are associated with equipment safety, and to the testing of automatic electrical energy regulator devices used in, or in association with, equipment.

This standard is also applicable to energy regulators for appliances within the scope of IEC 60335-1.

Throughout this standard the word “equipment” means “appliance and equipment”.

This standard also applies to automatic electrical energy regulators 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 automatic electrical energy regulators designed exclusively for industrial process applications unless explicitly mentioned in the equipment standard.

This standard does not apply to equipment that are specifically within the scope of building automation equipment.

This standard is also applicable to individual energy regulators utilized as part of a control system or energy regulators which are mechanically integral with multi-functional controls having non-electrical outputs.

This standard applies to **controls** powered by primary or secondary batteries, requirements for which are contained within the standard, including Annex V.

**1.1.1** This International Standard applies to the inherent safety, to the **operating values**, **operating times**, and **operating sequences** where such are associated with equipment safety, and to the testing of automatic **electrical control** devices used in, or in association with, equipment.

This standard applies to **controls** using **thermistors**, see also Annex J.

This standard is also applicable to the **functional safety** of **low complexity safety related systems and controls**.