



**CSA E60730-2-14:20**

**Automatic electrical controls — Part 2-14: Particular requirements for electric actuators**

(IEC 60730-2-14:2017+A1:2019, MOD)

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**Dispositifs de commande électrique automatiques — Partie 2-14 : Exigences particulières pour les actionneurs électriques**

(IEC 60730-2-14:2017+A1:2019, MOD)



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# National Standard of Canada

CSA E60730-2-14:20

## **Automatic electrical controls — Part 2-14: Particular requirements for electric actuators**

(IEC 60730-2-14:2017+A1:2019, MOD)

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# CSA E60730-2-14:20

## **Automatic electrical controls — Part 2-14: Particular requirements for electric actuators**

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### **CSA Preface**

This is the second edition of CSA E60730-2-14, *Automatic electrical controls — Part 2-14: Particular requirements for electric actuators*, which is an adoption, with Canadian deviations, of the identically titled IEC (International Electrotechnical Commission) Standard 60730-2-14 (edition 2:2017 consolidated with Amendment 1:2019). It supersedes the previous edition, published in 2013 as CAN/CSA-E60730-2-14 (adopted IEC 60730-2-14:1995+A1:2001+A2:2007).

For brevity, this Standard will be referred to as “CSA E60730-2-14” throughout.

This Standard is intended to be used in conjunction with CAN/CSA-E60730-1:15, *Automatic electrical controls — Part 1: General requirements* (adopted IEC 60730-1:2013, with Canadian deviations); and Amendment 1:2017 to CAN/CSA-E60730-1:15 (adopted IEC Amendment 1:2015, with Canadian deviations).

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was reviewed for Canadian adoption by the CSA Technical Committee on International Standards, under the jurisdiction of the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretations of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant CSA committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

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- a) Standard designation (number);*
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**Automatic electrical controls –  
Part 2-14: Particular requirements for electric actuators**

**Dispositifs de commande électrique automatiques –  
Partie 2-14: Exigences particulières pour les actionneurs électriques**

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## CONTENTS

FOREWORD .....	3
1 Scope and normative references .....	6
2 Terms and definitions .....	7
3 General requirements .....	8
4 General notes on tests .....	8
5 Rating .....	8
6 Classification .....	8
7 Information .....	9
8 Protection against electric shock .....	10
9 Provision for protective earthing .....	11
10 Terminals and terminations .....	11
11 Constructional requirements .....	11
12 Moisture and dust resistance .....	11
13 Electric strength and insulation resistance .....	11
14 Heating .....	11
15 Manufacturing deviation and drift .....	12
16 Environmental stress .....	12
17 Endurance .....	12
18 Mechanical strength .....	13
19 Threaded parts and connections .....	13
20 Creepage distances, clearances and distances through solid insulation .....	13
21 Resistance to heat, fire and tracking .....	13
22 Resistance to corrosion .....	13
23 Electromagnetic compatibility (EMC) requirements – Emission .....	13
24 Components .....	14
25 Normal operation .....	14
26 Electromagnetic compatibility (EMC) requirements – Immunity .....	14
27 Abnormal operation .....	14
28 Guidance on the use of electronic disconnection .....	16
Annex H (normative) Requirements for electronic controls .....	17
Annex AA (normative) Regional differences .....	22
Annex BB (informative) Specific regional requirements in Japan .....	23
Bibliography .....	24
Table 1 – (7.2 of edition 3) – Required information and methods of providing information .....	10

## AUTOMATIC ELECTRICAL CONTROLS –

### Part 2-14: Particular requirements for electric actuators

#### 1 Scope and normative references

This clause of Part 1 is applicable except as follows:

##### 1.1 Replacement:

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.

EXAMPLE 2 **Controls** for commercial catering, heating and air conditioning equipment.

This part 2-14 is also applicable to individual **electric actuators** utilized as part of a **control system** or **controls**, which are mechanically integral with **multifunctional controls** having non-electrical outputs.

EXAMPLE 3 Independently mounted gate valves, **controls** in smart grid **systems** and **controls** for building automation systems within the scope of ISO 16484-2.

This part 2-14 does not apply to automatic **electric actuators** intended exclusively for industrial process applications unless explicitly mentioned in the relevant part 2 or the equipment standard.

This part 2-14 applies to **electric actuators** powered by primary or secondary batteries, requirements for which are contained within the standard, including Annex V.

1.1.1 This part 2-14 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 **electric actuators** used in or in association with equipment.

NOTE Requirements for specific **operating values**, **operating times** and **operating sequences** may be given in the standards for appliances and equipment.

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

This part 2-14 does not apply to **electric actuators** which are mechanically integrated with valves covered by a separate part 2, e.g. IEC 60730-2-8.

This part 2-14 does not apply to electric motors, requirements for which are contained in IEC 60034.