

## STANDARD INFORMATION

**This SUN establishes the Continuing Certification approach for CSA E60730-2-9**

**Standard Number:** CSA E60730-2-9

**Standard Name:** Automatic Electrical Controls — Part 2-9: Particular Requirements for Temperature Sensing Controls

**Standard Edition and Issue Date:** 4<sup>th</sup> Edition dated August 1, 2018

**Date of Revision:** August 1, 2018

**Date of Previous Revision of Standard:** September 1, 2015

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **No action is required for currently certified products to maintain certification.**

**This SUN is being presented to assist users of the standard to appreciate the significance of the changes made to the standard that will apply should the product described be modified after August 1, 2020**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** Effective immediately, this revised standard will be exclusively used for evaluation of new products.

CSA E60730-2-9:18 is to be used in conjunction with CSA E60730-1:15.

### Overview of Changes:

- Modification of heating-freezing tests
- Addition of requirements to cover class B and C control functions of temperature sensing controls
- Addition of requirements for parts containing liquid metal

Specific details of new/revise requirements are found in table below.

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</i>
7	Info	<b>Information</b> <i>New clause added;</i> <b>Methods of providing information</b>
7.2		Table 1 – Required information and methods of providing information  [Replace the last sentence in Footnote 102 with the following]  In Canada, the use of mercury within any component of the controller is not allowed.
11	Info	<b>Constructional Requirements</b>
11.1	Info	<b>Materials</b> <i>New clause added;</i> <b>Parts containing liquid metal</b>
11.1.101		[Replace the first paragraph with the following]  For controls declared under Table 1, requirement 106, parts of any control that contain sodium (Na), potassium (K), or both, shall be constructed of metal that has a tensile yield strength at least four times the circumferential (hoop) or other stress on the parts at a temperature 1,2 times the maximum temperature of the sensing element.
12	Info	<b>Moisture and dust resistance</b>
12.101	Info	<b>Refrigeration controls</b>
12.101.3		The two samples used for the softening tests and one untested sample (three total) are placed in water maintained at <del>(90 ± 5) °C for 2 h. The three samples are then immediately transferred to water at a temperature of below 5 °C and then frozen in a small, flexible container at –35 °C for 2 h. Ten heating-freezing cycles are required</del> <u>between Tmax (maximum declared switch head ambient temperature) and either (Tmax +5) °C or 1,05 times Tmax, whichever is greater for 2 h. The three samples are then immediately transferred to water at a temperature of below 5 °C for 2 h and then frozen in a small, flexible container at a temperature between Tmin (minimum declared switch head ambient temperature) and (Tmin –5) °C for 2 h. Ten heating-freezing cycles are required.</u>



CLAUSE	VERDICT	COMMENT
12.101.4		<p><del>Two consecutive heating-freezing cycles are performed in one working day, and then 10 cycles are completed in five consecutive days, with the samples left in water at room temperature for four overnight periods.</del></p> <p><u>The tested samples shall be left in water at room temperature overnight after each completed heating-freezing cycle.</u></p>
Annex H	Info	<b>Requirements For Electronic Controls</b> <i>New section added;</i>
H.27		<b>Abnormal Operation</b>  This section contains requirements for abnormal controls (see standard for details).
CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		