

STANDARD INFORMATION

Standard: CSA C22.2 No. 33

Standard ID: Electrical Safety Requirements for Cranes and Hoists [CSA C22.2#33:2023 Ed.5]

Previous Standard ID: Electrical Safety Requirements for Cranes and Hoists [CSA C22.2#33:2019 Ed.4+U1;U2]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **June 6, 2025**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Special construction requirements for monorail hoist separate from cranes
- Annex A Wireless remote control system become mandatory requirements
- Mould stress relief test for conductor bar systems

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 lined-out below.</i>
6	Info	Special construction requirements for monorail hoists separate from cranes
6.1	Info	General
		<i>New clause added;</i>
6.1.2		When the overall overcurrent protection is not provided with the monorail hoists, installation instructions conforming to Clause 7.3.1 shall indicate that the overall overcurrent protection shall be provided by the installer with conformance to the Canadian Electrical Code, Part I, and the instruction shall include the required type and electrical rating of the overall overcurrent protection device.
8	Info	Equipment test
8.4	Info	Mould stress relief test for conductor bar systems
		One sample of the equipment shall be conditioned in accordance with either Item a) or b):
		a) One representative sample of the insulating material (except for rigid thermosetting materials), assembled as intended, shall be placed in a full draft circulating air oven maintained at a uniform temperature at least 10 °C (50 °F) higher than the maximum temperature of the material measured during the temperature test, but not less than 70 °C (158 °F) in any case. The sample shall remain in the oven for 7 h. After its removal from the oven and return to room temperature, the sample shall comply with Clause 8.4.2.
8.4.1		b) <u>One sample of the complete equipment shall be placed in a test cell. The air temperature within the cell, as measured at the supporting surface of the equipment, shall be maintained at 60 ± 2 °C. The equipment shall be operated in the same way as for the normal temperature test specified in the relevant Canadian Electrical Code, Part II standard. Equipment that is not loaded or is not continuously loaded during the normal temperature test shall be connected to 106% or 94% of the normal rated voltage, whichever results in higher temperatures. In any case, the equipment shall be operated for 7 h. After its careful removal from the test cell, the sample shall be investigated for compliance with Clause 8.4.2.</u>



CLAUSE	VERDICT	COMMENT
		<i>New annex added;</i>
		Wireless remote control system
		The following general requirements shall apply:
Annex A		a) Wireless remote control system, including MCU and OCU, software, electromagnetic compatibility (EMC) verification, and other functions shall comply with Class C according to CSA C22.2 No. 0.8. b) Wireless remote control system shall comply with the applicable requirements of CSA C22.2 No. 14. c) The bonding of MCU shall comply with Clause 5.3.1.
		See standard for details.
