

STANDARD INFORMATION

Standard: UL 347 / CSA C22.2#253

Standard ID:

Medium-Voltage AC Contactors, Controllers, and Control Centers [UL 347:2020 Ed.7+R:03Feb2025]

Medium-Voltage AC Contactors, Controllers, and Control Centers [CSA C22.2#253:2020 Ed.3+U1;U2]

Previous Standard ID:

Medium-Voltage AC Contactors, Controllers, and Control Centers [UL 347:2020 Ed.7+R:30Sep2022]

Medium-Voltage AC Contactors, Controllers, and Control Centers [CSA C22.2#253:2020 Ed.3+U1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 3, 2027**

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 Reports not updated to this version by the effective date above will be withdrawn.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: Grounding switch interlock test revisions. Specific details of new/revised requirements are found in table below.

Note: If the listing references a Canadian standard, per the Canadian Electrical Code (CSA C22.2#0) Section titled Language of markings, Caution and Warning Markings shall be in English and French.

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
6	Info	Type Tests
6.101	Info	Mechanical tests
		Interlock integrity test
		All isolating means and grounding switches shall be subjected to 1 000 mechanical opening and closing operations. After every 100 operations it shall be determined that all interlock functions are operative, by attempting to open any doors, operate electrical circuits, or any other operation intended to be prevented by the interlocking arrangement. See Clause 5.11.
		Where drawout components are used, it shall be determined that:
		a) the device cannot be inserted in any condition of misalignment that will permit the operation of the device while impairing the effectiveness of the interlocking arrangement; and
		b) the device cannot be withdrawn in the closed position.
6.101.3		In the case of a drawout component, one operation shall consist of a cycle of withdrawing from a fully engaged position to the isolated position and return. See Clause 5.202.
		The effort required to perform the 1 000th operation shall be essentially the same as that required to perform the first operation. Upon the completion of the 1 000 operations, the sample shall be in substantially the same mechanical condition as at the beginning of the test.
		<u>For isolating switch and grounding switch operating handle interlocks, the interlock function shall be checked after the final operation by applying a force of 750 N (169 lbf) to the operating handle at the midpoint of the gripping area. After this force is applied, it shall be determined that all interlock functions are operative by attempting to open any doors, operate electrical circuits, or any other operation intended to be prevented by the interlocking arrangement.</u>
		<u>For isolating switches having covers or doors in accordance with 5.11.201, the interlocking of the cover or door shall be checked by applying a force of 100 N (23 lbf) in an attempt to open the cover or door, with the line contactor in the closed position. After this force is applied, it shall be determined that all interlock</u>



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		<p><u>functions are operative by attempting to open any doors, operate electrical circuits, or any other operation intended to be prevented by the interlocking arrangement.</u></p> <p><u>For grounding switches having covers or doors in accordance with 5.11.207, the interlocking of the cover or door shall be checked by applying a force of 100 N (23 lbf) in an attempt to open the cover or door, with the isolating switch(es) in the closed position. After this force is applied, it shall be determined that all interlock functions are operative by attempting to open any doors, operate electrical circuits, or any other operation intended to be prevented by the interlocking arrangement.</u></p> <p>A drawout contactor that is not utilized as the controller isolation means shall be inserted and withdrawn a total of 50 times. The effort required to perform the 50th operation shall be essentially the same as that required to perform the first operation. Upon the completion of the 50 operations, the sample shall be in substantially the same mechanical condition as at the beginning of the test.</p>