

STANDARD INFORMATION

Standard: CSA C22.2 No. 139

Standard ID: Electrically Operated Valves [CSA C22.2#139:2019 Ed.5]

Previous Standard ID: Electrically Operated Valves (R2018) [CSA C22.2#139:2013 Ed.4+U1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **December 6, 2021**

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.

Overview of Changes: Spacing requirements for printed circuit boards rated for use above 300 V to 600 V have been added. 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>
5	Info	Construction
5.16	Info	Spacings
5.16.5	Info	Spacings on printed circuit boards
		The spacings between circuit paths on printed circuit boards shall be not less than 1.6 mm (1/16 in) for 31 to 300 V rms and 0.8 mm (1/32 in) for extra-low-voltage safety circuits if a short circuit between the paths might result in unsafe operation of the control.
		Printed circuit board shall have a minimum comparative tracking index (CTI) of 175, and a flammability rating of V-0.
5.16.5.1		The spacings between circuit paths on printed circuit boards shall be not less than as given below, if a short circuit between the paths might result in unsafe operation of the control: a) For 31 to 300 V rms: 1.6 mm (1/16 in) where transients are limited and 2.2 mm (3/32 in) where transients are not limited. <u>b) For > 300 V to 600 V rms: 3.2 mm (1/8 in) where transients are limited and 4.5 mm (11/64 in) where transients are not limited.</u> c) 0.8 mm (1/32 in) for Class 2 circuits.