

## STANDARD INFORMATION

**Standard:** UL 62841-2-6 / CSA C22.2 No. 62841-2-6

**Standard ID:**

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-6: Particular Requirements for Hand-Held Hammers [UL 62841-2-6:2022 Ed.1+R:20Dec2024]

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-6: Particular Requirements for Hand-Held Hammers [CSA C22.2#62841-2-6:2022 Ed.1+A1]

**Previous Standard ID:**

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-6: Particular Requirements for Hand-Held Hammers [UL 62841-2-6:2022 Ed.1]

Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-6: Particular Requirements for Hand-Held Hammers [CSA C22.2#62841-2-6:2022 Ed.1]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **December 20, 2026**

## 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 Reports not updated to this version by the effective date above will be withdrawn.

This standard contains Functional Safety requirements.

**Overview of Changes:**

- Revisions to tools with a soft start function
- Revisions to tools other than those employing electronically commutated motors

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 <del>lined-out</del> below.</i>
19	Info	<b>Mechanical hazards</b>
19.102	Info	<b>Handles on rotary hammers</b>
		<b>Assessment to determine tool configuration</b>
		<p>This assessment is only applicable for tools that employ (an) electronic circuit(s) that affect(s) the output torque in the test of 19.102.4.</p> <p>Prior to each measurement, the sample is operated for at least 5 min at no-load. After each 5 min operation period, the measurement shall be started within 20 min.</p> <p>All measurements are made with the tool sample running in the forward position.</p> <p>The sample is connected to the measurement fixture and is fixed during the test.</p> <p><u>For tools with a soft start function, the test of 19.102.4 through steps 1) and 2) is conducted on the sample with the soft start function enabled and then repeated with the soft start function disabled. If analysis shows that the tool will not operate with the soft start function disabled, then the test with the soft start function disabled is not conducted. For tools employing electronically commutated motors, the configuration that results in the greatest output torque shall be used for the test of 19.102.4. For tools other than those employing electronically commutated motors, the configuration that results in the greatest output torque shall be used for the following test.</u></p> <p><u>For tools other than those employing electronically commutated motors, when all functions affecting the test value of the output torque, except for any soft start function, are not evaluated as SCFs according to 18.8 (e.g. current limit and stall detection), the tool configuration for the test of 19.102.4 shall be the configuration that results in the greatest output torque for one trial of the test of 19.102.4 through steps 1) and 2) as specified below:</u></p> <ul style="list-style-type: none"><li><u>– all functions affecting the output torque enabled; or</u></li><li><u>– each function not evaluated as an SCF affecting the output torque disabled one at a time.</u></li></ul>
19.102.3		



CLAUSE	VERDICT	COMMENT
Annex K	Info	<p><b>Battery tools and battery packs</b></p> <p><b>Assessment to determine tool configuration</b></p> <p>This assessment is only applicable for tools that employ (an) electronic circuit(s) that affect(s) the output torque in the test of K.19.102.4.</p> <p>Prior to each measurement, the sample is operated for at least 5 min at no-load using any suitable battery. After each 5 min operation period, the measurement shall be started within 20 min.</p> <p>The sample is tested together with its intended battery. If more than one battery is specified for use with the tool, the battery with the highest short-circuit current shall be used.</p> <p>At the beginning of the test, the battery shall be fully charged.</p> <p>All measurements are made with the tool sample running in the forward position.</p> <p>The sample is connected to the measurement fixture and is fixed during the test.</p> <p>K.19.102.3 <u>For tools with a soft start function, the test of K.19.102.4 through steps 1) and 2) is conducted on the sample with the soft start function enabled and then repeated with the soft start function disabled. If analysis shows that the tool will not operate with the soft start function disabled, then the test with the soft start function disabled is not conducted. For tools employing electronically commutated motors, the configuration that results in the greatest output torque shall be used for the test of K.19.102.4. For tool other than those employing electronically commutated motors, the configuration that results in the greatest output torque shall be used for the following test.</u></p> <p><u>For tools other than those employing electronically commutated motors, when all functions affecting the test value of the output torque, except for any soft start function, are not evaluated as SCFs according to K.18.8 (e.g. current limit and stall detection), the tool configuration for the test of K.19.102.4 shall be the configuration that results in the greatest output torque for one trial of the test of K.19.102.4 through steps 1) and 2) as specified below:</u></p> <ul style="list-style-type: none"><li><u>– all functions affecting the output torque enabled; or</u></li><li><u>– each function not evaluated as an SCF affecting the output torque disabled one at a time.</u></li></ul>