



Project Number: 4788751799  
File Number: DA1019

## Data Acceptance Program (DAP) Assessment Report for

**KEMA POWERTEST L L C**  
4379 COUNTY LINE RD  
CHALFONT, PA 18914-1825  
US

## in **Underwriters Laboratories** **Third Party Test Data Program (TPTDP)**

Assessment conducted on January 00, 1900

UL Assessment Team:

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## Assessment Summary

Thank you for your cooperation during our recent visit to your facility. This assessment was conducted on January 00, 1900 by Lead Auditor Christopher Holmgren (Christopher.Holmgren@ul.com). This summary may include any noteworthy areas of strength, and/or areas that will require follow-up during the next visit if applicable:

*(Audit Staff - Click within the text box to activate that ability to type the summary. Click outside the box to go back to Excel.)*

This was the annual laboratory audit of KEMA Laboratories facility in Chalfont, PA. The audit was conducted in accordance with the applicable DAP program requirements, applicable ISO 17025 clauses and UL test standards/test clauses.

Tom Stefanski is no longer with KEMA since last DAP program audit and has been removed as a signatory.

The laboratory has demonstrated adequate technical skills and knowledge of the selected test standards/test clauses covered under the Scope of Participation. As KEMAs inherent inductance of their circuits are above the 100uH requirements of UL 248-19, all applicable clauses are being removed from KEMAs scope of participation. Also, 2003 version of C37.23 is being removed, as it is replaced by 2015 edition currently under KEMAs scope as well. UL 508 is updated to the 18<sup>th</sup> edition.

The laboratory has the documented quality management system that meets the applicable clauses of the ISO 17025 clauses with the exception fo the NCRs noted. There are rooms for improvement as evidenced by the NCR raised during this audit.

Two nonconformities were noted during the assessment. Overall, KEMA's lab has the proper equipment and expertise needed to perform testing included under their UL DAP Third Party Test Data Program.

- Based on the findings of this assessment, we are continuing recognition under the Third Party Test Data Program (TPTDP).
- Based upon these findings, we are recommending inactivation. Please see Appendix A, Section II.

## Nonconformities to Requirements

The following non-conformities have been noted as findings and/or observations in the table below.

Clause	ISO/IEC 17025:2005 Assessment Topics*	Number of NCRs written per clause:	
		Findings	Observations
4.1	Organization		
4.2	Management system		
4.3	Document control		
4.6	Purchasing		1
4.9	Control of nonconforming testing and/or calibration work		
4.11	Corrective Action		
4.12	Preventive Action		
4.13	Control of records		
4.15	Management review		
5.2	Personnel		
5.3	Accommodation and environmental conditions		
5.4	Test and calibration methods and method validation		1
5.5	Equipment		
5.6	Measurement traceability		
5.8	Handling of test and calibration items		
5.10	Reporting the results		

There were 0 Finding NCR(s) and 2 observation NCR(s) noted during this assessment. Details are provided within the enclosed NCR report. Instructions for the Follow-up Process are provided in Appendix A, Section I.

There were no NCRs from the previous assessment that required a review of implementation and effectiveness during this assessment.

See Attachment A (provided with this report) for the standards and tests that are included under the scope of DAP participation.



## Appendix A: Instructions for Follow-up

### I - Non-conformities (NCRs):

For any non-conformances that require Corrective Action, please complete the required sections of the Form and e-mail it to the Lead Auditor by the date identified within the NCR Report (typically within 20 business days of the completion of the audit). If the Anniversary Date (AVD) is within less than 20 days, please note you may need to respond sooner to remain active in the program. The DAP Lead Auditor will note this within the NCR Report (in the response due by section). If no response is received within the required timeframe, the participant may be inactivated from the program.

#### Corrective Action Required:

- A. Please complete the "Analysis leads to Root Cause Statement" section of the NCR Report by including a summary of the analysis performed and the final Root Cause Statement. Document the Corrective Action(s) taken to fix the root cause identified and provide dates and related objective evidence as to how and when these Corrective Actions were completed.
- B. If a Corrective Action is planned or in-process (it cannot be completed by the requested response date), please indicate the long term Corrective Action(s) that are planned or in-process and provide the anticipated date(s) to complete all actions.
- C. All NCR's that require Corrective Action will be verified for effectiveness during the next DAP Assessment.

#### Observations:

- A. No Root Cause Analysis is required for Observations.
- B. Identify the Corrective Action(s) taken to fix the problem identified within the "Nonconformity (problem statement)" and provide dates and related objective evidence as to how and when these Corrective Actions were completed.
- C. If a Corrective Action is planned or in-process (it cannot be completed by the requested response date), please indicate the long term Corrective Action(s) and provide the anticipated date(s) to complete all actions.
- D. If the Objective Evidence provided is sufficient to verify the effectiveness of the Corrective Action taken (i.e. revised record or QMS Document); the Observation can be closed. If not, it will be verified during the next DAP assessment.

### II - Recommendation for Data Acceptance Program (DAP) Inactivation (If indicated on page 2)

The non-conformities(s) indicated below and recorded in the NCR forms are considered of major significance, and as such indicate a breakdown in your management system.

Clause Number / NCR Reference:

Description:

This report is being forwarded to UL for immediate review, and you will receive a notification regarding the status of your participation in the Data Acceptance Program. **Corrective Action responses will be required within 10 business days to the lead assessor of the notification date.** A special assessment may be conducted within 4 months (120 days) to re-audit the clauses/NCR(s) indicated above. If the outcome shows the corrective action was effectively implemented and the system is in compliance, then the normal annual assessment program will be resumed. Your Data Acceptance Program will be placed on inactive status should the NCR(s) not be resolved at this time.

If the system is not found to be in compliance within 120 days from the date of this report, participation in the Data Acceptance Program will be inactivated.

To appeal an assessment finding, please contact DAP@ul.com for further assistance.

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Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
<b>ATTACHMENT A - Post Audit Scope (496 Tests Total)</b>				
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.10	SHORT-CIRCUIT CALIBRATION OF TEST CIRCUITS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.11	SHORT CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.12	HIGH FAULT CURRENTS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.13	CONTROLLERS INTENDED FOR GROUP INSTALLATION
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.2	TEMPERATURE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.6	ENDURANCE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.7	CURRENT WITHSTAND TEST
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.8	DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.9	BURNOUT
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.1	GENERAL
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.10	PROSPECTIVE SHORT CIRCUIT
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.11	PROTECTIVE DEVICES
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.12	SHORT CIRCUIT CALIBRATION OF TEST CIRCUITS
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.12.2	MEASUREMENT OF CURRENTS 10000A AND LESS
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.12.3	MEASUREMENT OF CURRENTS OVER 10000A
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.13	BREAKDOWN OF COMPONENTS
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.18	CONTACTOR OVERLOAD
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.21	IMPULSE VOLTAGE
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.21	IMPULSE VOLTAGE TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.22	INTERLOCK INTEGRITY

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CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.3	DIELECTRIC STRENGTH
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.6	SHORT CIRCUIT
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.7	HIGH FAULT CURRENT
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.8	TEST CIRCUIT FOR SHORT CIRCUIT AND HIGH FAULT CURRENT TESTS
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.1	RATED CONTINUOUS CURRENT-CARRYING TESTS
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.10	MECHANICAL ENDURANCE LIFE
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.11	EXCITATION CURRENT SWITCHING TESTS
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.12	SOUND LEVEL TESTS
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.2.1	RATED POWER FREQUENCY WITHSTAND VOLTAGE (DRY)
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.2.2	RATED FULL WAVE IMPULSE WITHSTAND VOLTAGE
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.3	SHORT-CIRCUIT CURRENT RATING
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.4	RATED TRANSIENT RECOVERY VOLTAGE (TRV)
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.5	RATED STANDARD OPERATING DUTY (STANDARD DUTY CYCLE)
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.6	RATED INTERRUPTING TIME
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.7	SHORT-CIRCUIT CURRENT WITH DELAYED CURRENT ZERO
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.8	LOAD CURRENT SWITCHING TESTS
IEEE C37.013	AC High-Voltage Generator Circuit Breakers Rated on a Symmetrical Current Basis	1997	6.2.9	OUT-OF-PHASE CURRENT SWITCHING TESTS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.1	MAXIMUM VOLTAGE
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.12	OUT-OF-PHASE SWITCHING CURRENT
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.13	MECHANICAL ENDURANCE TESTS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.14	CONTROL VOLTAGE
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.2	POWER FREQUENCY
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.3	CONTINUOUS CURRENT-CARRYING TESTS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.4.3	POWER FREQUENCY WITHSTAND VOLTAGE TESTS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.4.4	FULL-WAVE LIGHTNING IMPULSE WITHSTAND VOLTAGE TESTS

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IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.4.5	IMPULSE VOLTAGE TEST FOR INTERRUPTERS AND RESISTORS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.4.6	CHOPPED WAVE LIGHTNING IMPULSE WITHSTAND VOLTAGE
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.4.7	SWITCHING IMPULSE VOLTAGE WITHSTAND
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.5	STANDARD OPERATING DUTY (STANDARD DUTY CYCLE)
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.6	INTERRUPTING TIME
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.7	TRV
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.8	SHORT-CIRCUIT CURRENT INTERRUPTING
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.9.1	LOAD CURRENT SWITCHING TEST CONDITIONS
IEEE C37.09	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2007	4.9.2	LOAD CURRENT ENDURANCE SWITCHING TEST
IEEE C37.09A	Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	2005	4.10	CAPACITANCE CURRENT SWITCHING TESTS
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.10	SHORT-CIRCUIT CURRENT
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.11	LOAD (LOW) CURRENT SWITCHING
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.4	TRIP DEVICE CALIBRATION CHECK
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.5	DIELECTRIC WITHSTAND VOLTAGE
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.6	CONTINUOUS CURRENT
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.7	SHORT-TIME CURRENT
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.8	ENDURANCE
IEEE C37.14	Low-Voltage DC Power Circuit Breakers Used in Enclosures	2015	10.9	PEAK CURRENT
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.11	RAIN TEST FOR OUTDOOR LV SWITCHGEAR
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.3	DIELECTRIC
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.4	RATED CONTINUOUS CURRENT
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.5	SHORT-TIME WITHSTAND CURRENT
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.6	SHORT-CIRCUIT CURRENT WITHSTAND
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.7	MECHANICAL ENDURANCE
IEEE C37.20.1	Metal-Enclosed Low-Voltage Power Circuit Breaker Switchgear	2015	6.2.9	ROD ENTRY
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.1	DESIGN - DIELECTRIC TESTS
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.2	DESIGN - RATED CONTINUOUS CURRENT TESTS



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IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.3	MOMENTARY WITHSTAND CURRENT
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.4	SHORT-TIME WITHSTAND CURRENT
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.5	AUXILIARY EQUIPMENT PRIMARY DISCONNECTING DEVICE MOMENTARY CURRENT WITHSTAND
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.6	MECHANICAL ENDURANCE TESTS
IEEE C37.20.2	Metal-Clad Switchgear	2015	6.2.9	RAIN TEST FOR OUTDOOR MC SWITCHGEAR
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.12	MECHANICAL ENDURANCE TESTS
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.14	TEST FOR BUS-BAR INSULATION
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.16	RAIN TEST FOR OUTDOOR MEI SWITCHGEAR
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.2	DIELECTRIC
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.5	TEMPERATURE RISE TEST
IEEE C37.20.3	Metal-Enclosed Interrupter Switchgear (1 kV-38 kV)	2013	6.6	SHORT-TIME WITHSTAND CURRENT AND PEAK WITHSTAND CURRENT TESTS
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.12	MECHANICAL OPERATIONS TESTS
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.13	FAULT MAKING CURRENT
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.14	LOAD SWITCHING CURRENT
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.15	CABLE-CHARGING CURRENT SWITCHING TEST (OPTIONAL)
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.16	UNLOADED TRANSFORMER SWITCHING TEST (OPTIONAL)
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.17	DIRECT ACTING FUSE TRIPPING CURRENT TEST (OPTIONAL)
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.6	SHORT-TIME WITHSTAND CURRENT
IEEE C37.20.4	Indoor AC Switches (1 kV - 38 kV) for Use in Metal-Enclosed Switchgear	2013	6.6	PEAK WITHSTAND CURRENT (FORMERLY MOMENTARY) TEST
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.1.1	POWER FREQUENCY WITHSTAND VOLTAGE TEST
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.1.2	FULL-WAVE IMPULSE WITHSTAND VOLTAGE
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.2	SHORT-TIME WITHSTAND CURRENT
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.3	MOMENTARY CURRENT
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.4	CLOSING AND LATCHING CURRENT
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.5.1	ENCLOSURE INSERTION
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.5.2	ENDURANCE TESTS FOR ELECTRICAL G&T DEVICES
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.5.3	ENDURANCE TESTS FOR MANUALLY OPERATED TERMINAL SELECTOR SWITCHES ON COMPLEX G&T DEVICES
IEEE C37.20.6	4.76 kV to 38 kV Rated Ground and Test Devices Used in Enclosures	2015	7.3.6	TESTS FOR DEVICES WITH INTERRUPTING CAPACITY
IEEE C37.20.7 (2007)	Guide for Testing Metal-Enclosed Switchgear Rated Up to 38 kV for Internal Arcing Faults		5.1-5.4	ARCING FAULT
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.1.1	POWER FREQUENCY WITHSTAND VOLTAGE

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IEEE C37.23	Metal-Enclosed Bus	2015	6.2.1.2	LIGHTNING IMPULSE WITHSTAND VOLTAGE
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.1.3	TEST FOR BUS-BAR INSULATION, BUS-JOINT INSULATION, AND BUS-TAP INSULATION
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.2	CONTINUOUS-CURRENT
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.3	MOMENTARY WITHSTAND OR SHORT-CIRCUIT WITHSTAND CURRENT TESTS
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.4	SHORT-TIME WITHSTAND CURRENT
IEEE C37.23	Metal-Enclosed Bus	2015	6.2.5	WEATHER-RESISTANCE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	11	MECHANICAL OPERATIONS
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	4.1	POWER-FREQUENCY WITHSTAND VOLTAGE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	4.2	LIGHTNING IMPULSE DRY WITHSTAND VOLTAGE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	4.3	POWER FREQUENCY AND LIGHTNING IMPULSE OPEN GAP WITHSTAND VOLTAGE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	4.4	SWITCHING-IMPULSE VOLTAGE TESTS OF EXTRA-HIGH-VOLTAGE SWITCHES
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	5.1	SIMULTANEOUS
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	5.3	CORONA
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	6	TEMPERATURE RISE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	7	SWITCH PERFORMANCE
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	8	TESTS FOR PEAK WITHSTAND AND SHORT-TIME (SYMMETRICAL) WITHSTAND CURRENT RATINGS
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	9.1	LOAD CURRENT INTERRUPTING
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	9.2	EXCITATION CURRENT INTERRUPTING
IEEE C37.34	Standard Test Code for High-Voltage Air Switches	1994	9.3	CAPACITIVE CURRENT SWITCHING
IEEE C37.42	Specifications for High-Voltage (Greater Than 1000 V) Expulsion-Type Distribution-Class Fuses, Fuse and Disconnecting Cutouts, Fuse Disconnecting Switches, and Fuse Links, and Accessories Used with These Devices	2009	3.3.1	DIELECTRIC
IEEE C37.42	Specifications for High-Voltage (Greater Than 1000 V) Expulsion-Type Distribution-Class Fuses, Fuse and Disconnecting Cutouts, Fuse Disconnecting Switches, and Fuse Links, and Accessories Used with These Devices	2009	3.3.2	INTERRUPTING [BREAKING]
IEEE C37.42	Specifications for High-Voltage (Greater Than 1000 V) Expulsion-Type Distribution-Class Fuses, Fuse and Disconnecting Cutouts, Fuse Disconnecting Switches, and Fuse Links, and Accessories Used with These Devices	2009	3.3.5	SHORT-TIME CURRENT TESTS FOR DISCONNECTING CUTOUTS
IEEE C37.42	Specifications for High-Voltage (Greater Than 1000 V) Expulsion-Type Distribution-Class Fuses, Fuse and Disconnecting Cutouts, Fuse Disconnecting Switches, and Fuse Links, and Accessories Used with These Devices	2009	3.3.6	TEMPERATURE-RISE

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IEEE C37.45	Standard Specifications for High-Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 kV through 8.3 kV	2007	4.1	DIELECTRIC
IEEE C37.45	Standard Specifications for High-Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 kV through 8.3 kV	2007	4.3	SHORT-TIME WITHSTAND CURRENT
IEEE C37.45	Standard Specifications for High-Voltage Distribution Class Enclosed Single-Pole Air Switches with Rated Voltages from 1 kV through 8.3 kV	2007	4.4	TEMPERATURE-RISE
IEEE C37.46	Specifications for High-Voltage (>1000 V) Expulsion and Current-Limiting Power Class Fuses and Fuse Disconnecting Switches	2010	4.1	DIELECTRIC
IEEE C37.46	Specifications for High-Voltage (>1000 V) Expulsion and Current-Limiting Power Class Fuses and Fuse Disconnecting Switches	2010	4.2	INTERRUPTING [BREAKING]
IEEE C37.46	Specifications for High-Voltage (>1000 V) Expulsion and Current-Limiting Power Class Fuses and Fuse Disconnecting Switches	2010	4.4	TEMPERATURE RISE
IEEE C37.46	Specifications for High-Voltage (>1000 V) Expulsion and Current-Limiting Power Class Fuses and Fuse Disconnecting Switches	2010	4.5	TIME-CURRENT
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.101	LINE CHARGING CURRENT AND CABLE CHARGING CURRENT INTERRUPTION TESTS
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.102	MAKING CURRENT CAPABILITY
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.103	RATED SYMMETRICAL INTERRUPTING CURRENT
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.105	MINIMUM TRIPPING CURRENT
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.106	PARTIAL DISCHARGE (CORONA)
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.108	TIME-CURRENT
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.109	MECHANICAL DUTY
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.2	DIELECTRIC
IEEE C37.60	High-Voltage Switchgear and Controlgear - Part 111: Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV	2012	6.5	TEMPERATURE RISE

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IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.2	DIELECTRIC
IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.3	CONTINUOUS CURRENT
IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.4	SHORT-CIRCUIT WITHSTAND CURRENT
IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.5	SWITCHING
IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.6	THERMAL RUNAWAY
IEEE C37.74	Standard Requirements for Subsurface, Vault, and Pad-Mounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems Up to 38 kV	2014	6.7.7	PARTIAL DISCHARGE
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.1	CONTINUOUS CURRENT THERMAL TEST
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.2.1	INTERRUPTING RATING
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.2.3	SHORT-TIME CURRENT
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.2.4	FAULT CLOSE
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.2.5	FUSE INTERRUPTION TEST FOR NON-SILVER-SAND FUSES
IEEE C57.12.44	Standard Requirements for Secondary Network Protectors	2005	5.2.6	FUSE INTERRUPTION TEST FOR SILVER-SAND FUSES
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	10	DIELECTRIC
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	11	TEMPERATURE-RISE
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	12	SHORT CIRCUIT
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	13	AUDIBLE SOUND EMISSIONS
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	5	RESISTANCE MEASUREMENTS
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	6	POLARITY AND PHASE-RELATION
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	7	RATIO
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	8	NO-LOAD LOSSES AND EXCITATION CURRENT
IEEE C57.12.90	Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers	2010	9	LOAD LOSSES AND IMPEDANCE VOLTAGE
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	10	DIELECTRIC TESTS
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	11	TEMPERATURE

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IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	12	SHORT CIRCUIT
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	13	AUDIBLE SOUND-LEVEL MEASUREMENTS
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	5	RESISTANCE MEASUREMENTS
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	6	POLARITY AND PHASE RELATION TESTS
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	7	RATIO TESTS
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	8	NO LOAD LOSSES AND EXCITATION CURRENT
IEEE C57.12.91	Test Code for Dry-Type Distribution and Power Transformers	2011	9	LOAD LOSSES AND IMPEDANCE VOLTAGE
IEEE C57.13	Requirements for Instrument Transformers	2008	8.10	PARTIAL DISCHARGE MEASUREMENT
IEEE C57.13	Requirements for Instrument Transformers	2008	8.2	DEMAGNETIZATION
IEEE C57.13	Requirements for Instrument Transformers	2008	8.3	IMPEDANCE AND EXCITATION MEASUREMENTS
IEEE C57.13	Requirements for Instrument Transformers	2008	8.4	POLARITY
IEEE C57.13	Requirements for Instrument Transformers	2008	8.5	RESISTANCE MEASUREMENTS
IEEE C57.13	Requirements for Instrument Transformers	2008	8.6	SHORT-TIME CHARACTERISTICS
IEEE C57.13	Requirements for Instrument Transformers	2008	8.7	TEMPERATURE RISE TESTS
IEEE C57.13	Requirements for Instrument Transformers	2008	8.8	DIELECTRIC
IEEE C57.13	Requirements for Instrument Transformers	2008	8.9	MEASUREMENT OF OPEN-CIRCUIT VOLTAGE OF CURRENT TRANSFORMERS
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.10	SHORT-TIME CURRENT TEST
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.4.1	TRIP-DEVICE CALIBRATION CHECK TEST
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.5	AC DIELECTRIC WITHSTAND-VOLTAGE TEST
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.6	CONTINUOUS-CURRENT TEST
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.7	OVERLOAD SWITCHING TEST
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.8	ENDURANCE TESTS
NEMA C37.50	Switchgear - Low Voltage AC Power Circuit Breakers Used in Enclosures - Test Procedures	2012	4.9	SHORT-CIRCUIT CURRENT TESTS
NEMA C37.51	Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies - Conformance Test Procedures	2003	5.4	DIELECTRIC TESTS
NEMA C37.51	Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies - Conformance Test Procedures	2003	5.5	CONTINUOUS CURRENT TEST
NEMA C37.51	Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies - Conformance Test Procedures	2003	5.6	SHORT-TIME WITHSTAND CURRENT TESTS

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NEMA C37.51	Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies - Conformance Test Procedures	2003	5.7	SHORT-CIRCUIT WITHSTAND CURRENT TESTS
NEMA C37.51	Metal-Enclosed Low-Voltage AC Power Circuit Breaker Switchgear Assemblies - Conformance Test Procedures	2003	5.8	MECHANICAL PERFORMANCE TESTS- REMOVABLE CIRCUIT BREAKERS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.10	SHORT-CIRCUIT CURRENT TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.5	LIGHTNING IMPULSE WITHSTAND VOLTAGE TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.6	CONTINUOUS CURRENT CARRYING TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.7	MECHANICAL ENDURANCE TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.8	LOAD CURRENT SWITCHING TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	3.9	SHORT TIME CURRENT CARRYING TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	6.2	POWER FREQUENCY WITHSTAND VOLTAGE TESTS
NEMA C37.54 (2002)	Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear - Conformance Test Procedures	2002	6.3	CONDUCTIVITY OF CURRENT PATH
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.5.2	POWER-FREQUENCY WITHSTAND VOLTAGE TESTS
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.5.3	LIGHTNING IMPULSE WITHSTAND TESTS
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.6	MECHANICAL PERFORMANCE TESTS
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.7	CONTINUOUS CURRENT TEST
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.8	SHORT-TIME WITHSTAND CURRENT TEST
NEMA C37.55	Switchgear - Medium Voltage Metal-Clad Assemblies - Conformance Test Procedures	2002	5.9	MOMENTARY WITHSTAND CURRENT TEST
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.5.2	POWER-FREQUENCY WITHSTAND VOLTAGE TESTS
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.5.3	LIGHTNING-IMPULSE WITHSTAND TEST
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.6	MECHANICAL PERFORMANCE TESTS
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.7	CONTINUOUS CURRENT TEST
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.8	SHORT-TIME WITHSTAND CURRENT TEST
NEMA C37.57	Metal-Enclosed Interrupter Switchgear Assemblies - Conformance Testing	2003	4.9	MOMENTARY WITHSTAND CURRENT TEST

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NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.5	LIGHTNING IMPULSE WITHSTAND
NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.6	CONTINUOUS CURRENT
NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.7.2	MOMENTARY WITHSTAND CURRENT TEST
NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.7.3	SHORT-TIME WITHSTAND CURRENT TEST
NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.8	MECHANICAL ENDURANCE
NEMA C37.58	Indoor AC Medium-Voltage Switches for Use in Metal-Enclosed Switchgear - Conformance Test Procedures	2003	4.9	LOAD-SWITCHING CURRENT (IF RATED)
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.10	OVERLOAD
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.11	CONTACT OPENING
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.12	ENDURANCE
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.13	SHORT CIRCUIT
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.14	DIELECTRIC VOLTAGE-WITHSTAND (FOLLOWING SHORT-CIRCUIT WITHSTAND OR CLOSING TESTS)
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.15	SHORT-TIME CURRENT RATING (OPTIONAL)
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.16	RECEPTACLE WITHSTAND
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.8	TEMPERATURE RISE
UL 1008/CSA-C22.2 No. 178.1	Transfer Switch Equipment	8/3	9.9	DIELECTRIC WITHSTAND-VOLTAGE
UL 1059	TERMINAL BLOCKS	4	12	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 1059	TERMINAL BLOCKS	4	SA2.1	SHORT-CIRCUIT CURRENT EVALUATION - HIGH FAULT CURRENTS
UL 1066	Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures	4	19	DIELECTRIC VOLTAGE-WITHSTAND TESTS
UL 1066	Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures	4	21	TRIP DEVICE CALIBRATION TESTS
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	19	OVERCURRENT PROTECTORS - CALIBRATION

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UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	20	OVERCURRENT PROTECTORS - TEMPERATURE
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	21	OVERCURRENT PROTECTORS - OVERLOAD TEST
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	23	OVERCURRENT PROTECTORS - DIELECTRIC STRENGTH AND VOLTAGE-WITHSTAND
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	24	OVERCURRENT PROTECTORS - RECALIBRATION
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	25	OVERCURRENT PROTECTORS - SHORT CIRCUIT
UL 1691	Single Pole Locking-Type Separable Connectors	1	6.11	SHORT-TIME CURRENT TEST
UL 248-1/CSA-C22.2 No. 248.1	Low-Voltage Fuses - Part 1: General Requirements	3	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-1/CSA-C22.2 No. 248.1	Low-Voltage Fuses - Part 1: General Requirements	3	8.5	VERIFICATION OF PEAK LET-THROUGH CURRENT AND CLEARING I2T CHARACTERISTICS
UL 248-10/CSA-C22.2 No. 248.10	Low-Voltage Fuses - Part 10: Class L Fuses	3	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-11/CSA-C22.2 No. 248.11	Low-Voltage Fuses - Part 11: Plug Fuses	3	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-12/CSA-C22.2 No. 248.12	Low-Voltage Fuses - Part 12: Class R Fuses	3	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-13/CSA-C22.2 No. 248.13	Low-Voltage Fuses - Part 13: Semiconductor Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-14/CSA-C22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-15/CSA-C22.2 No. 248.15	Low-Voltage Fuses - Part 15: Class T Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-16/CSA-C22.2 No. 248.16	Low-Voltage Fuses - Part 16: Test Limiters	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-2/CSA-C22.2 No. 248.2	Low-Voltage Fuses - Part 2: Class C Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-3/CSA-C22.2 No. 248.3	Low-Voltage Fuses - Part 3: Class CA and CB Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-4/CSA-C22.2 No. 248.4	Low-Voltage Fuses - Part 4: Class CC Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-5/CSA-C22.2 No. 248.5	Low-Voltage Fuses - Part 5: Class G Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE



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UL 248-6/CSA-C22.2 No. 248.6	Low-Voltage Fuses - Part 6: Class H Non-Renewable Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-7/CSA-C22.2 No. 248.7	Low-Voltage Fuses - Part 7: Class H Renewable Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-8/CSA-C22.2 No. 248.8	Low-Voltage Fuses - Part 8: Class J Fuses	3	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-9/CSA-C22.2 No. 248.9	Low-Voltage Fuses - Part 9: Class K Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.101.1	OPERATING VOLTAGE TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.101.2 & 6.101.3	MECHANICAL ENDURANCE TESTS & INTERLOCK INTEGRITY TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.102	MAKE AND BREAK CAPACITY TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.103	OVERLOAD TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.104	FAULT INTERRUPTION TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.107	ELECTRICAL ENDURANCE TESTS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.201	IMPULSE WITHSTAND
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.202.1	POWER FREQUENCY VOLTAGE WITHSTAND - GENERAL
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.202.2	POWER FREQUENCY VOLTAGE WITHSTAND - TESTED AT THE "COMMON VALUE" TEST VOLTAGE IN TABLE 1
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.202.3	POWER FREQUENCY VOLTAGE WITHSTAND - TESTED AT THE "ACROSS THE ISOLATING DISTANCE" VOLTAGE IN TABLE 1
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.202.4	POWER FREQUENCY VOLTAGE WITHSTAND - POWER FREQUENCY VOLTAGE WITHSTAND (REPEATED) TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.2.202.5	POWER FREQUENCY VOLTAGE WITHSTAND - TEST FOR BUS BAR INSULATION

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UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.201	SWITCHING CAPACITY TEST-ISOLATING MEANS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.202	SHORT TIME CAPABILITY
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.203	DRIVEN RAIN TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.4	MEASUREMENT OF THE RESISTANCE OF THE CONTACTOR
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.5	TEMPERATURE RISE TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	5/1	6.6	SHORT-TIME, MOMENTARY AND PEAK WITHSTAND CURRENT BUS TESTS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.1	GENERAL
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.101.1	MECHANICAL TESTS - RANGE OF OPERATING VOLTAGE (VERIFICATION OF OPERATING LIMITS)
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.101.2	MECHANICAL TESTS - MECHANICAL ENDURANCE
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.101.3	MECHANICAL TESTS - INTERLOCK INTEGRITY
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.102	MAKE AND BREAK CAPACITY
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.102.201	BASIC REQUIREMENT - ELECTROMAGNETIC CONTACTORS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.102.201.3	COMBINED TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.103	OVERLOAD TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.103.204	OVERLOAD TEST PROCEDURE - ELECTROMAGNETIC CONTROLLERS OTHER THAN REVERSING STARTERS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.103.205	OVERLOAD TEST PROCEDURE - ELECTROMAGNETIC REVERSING STARTERS

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UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.104	FAULT INTERRUPTION TEST
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.104.205	FAULT INTERRUPTION TEST CYCLE
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.104.205.1	FOR ELECTROMAGNETIC STARTERS, THE FOLLOWING TEST DUTIES SHALL APPLY
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.104.205.2	FAULT INTERRUPTION TEST - FOR CLASS E1 AND CLASS E2 REDUCED-VOLTAGE SOLID STATE CONTROLLERS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.109	CAPACITIVE CURRENT SWITCHING TESTS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2	DIELECTRIC
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.201	IMPULSE WITHSTAND
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202	POWER FREQUENCY VOLTAGE WITHSTAND
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202.1	POWER FREQUENCY VOLTAGE WITHSTAND - GENERAL
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202.2	POWER FREQUENCY VOLTAGE WITHSTAND - TESTED AT THE "COMMON VALUE" TEST VOLTAGE IN TABLE 1
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202.3	POWER FREQUENCY VOLTAGE WITHSTAND - TESTED AT THE "ACROSS THE ISOLATING DISTANCE" VOLTAGE IN TABLE 1
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202.4	POWER FREQUENCY VOLTAGE WITHSTAND - POWER FREQUENCY VOLTAGE WITHSTAND (REPEATED) TEST
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.2.202.5	POWER FREQUENCY VOLTAGE WITHSTAND - TEST FOR BUS BAR INSULATION
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.202.1	SHORT-TIME CAPABILITY - ELECTROMAGNETIC CONTROLLERS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.202.2	SHORT-TIME CAPABILITY - REDUCED-VOLTAGE SOLID STATE CONTROLLERS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.202.3	SHORT-TIME CAPABILITY - CONDITIONS OF CONTROLLER AFTER TEST

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UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.205	ENCLOSURE GROUND INTEGRITY
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.207	ROD ENTRY
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.4	RESISTANCE MEASUREMENT
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.4.1	MEASUREMENT OF THE RESISTANCE OF THE CONTACTOR
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.4.2	MEASUREMENT OF THE RESISTANCE OF THE CONTROLLER
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5	TEMPERATURE RISE TEST
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.1	CONDITIONS OF THE CONTROLLER TO BE TESTED
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.2	ARRANGEMENT OF THE EQUIPMENT
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.3	MEASUREMENT OF THE TEMPERATURE AND THE TEMPERATURE RISE
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.3.201	MEASUREMENT OF THE TEMPERATURE AND THE TEMPERATURE RISE - GENERAL
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.3.203	MEASUREMENT OF TEMPERATURE BY THERMOCOUPLE METHOD
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.3.205	EVALUATION OF TEMPERATURE RISE LIMITS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.4	AMBIENT AIR TEMPERATURE
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.5.6	INTERPRETATION OF THE TEMPERATURE-RISE TESTS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6	SHORT-TIME, MOMENTARY, AND PEAK WITHSTAND CURRENT BUS TESTS
UL 347/CSA- C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6.1	SHORT-TIME, MOMENTARY, AND PEAK WITHSTAND CURRENT BUS TESTS - GENERAL

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UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6.2	SHORT-TIME CURRENT WITHSTAND AND MOMENTARY CURRENT WITHSTAND TEST
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6.2.2	EXPENDABLE POWER BUS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6.2.3	GROUND BUS
UL 347/CSA-C22.2 No. 253	Medium-Voltage AC Contactors, Controllers, and Control Centers	6/2	6.6.3	PEAK WITHSTAND CURRENT TESTS
UL 4248-1/CSA-C22.2 No. 4248.1	Fuseholders - Part 1: General Requirements	1	8.3.1	DIELECTRIC STRENGTH
UL 4248-1/CSA-C22.2 No. 4248.1	Fuseholders - Part 1: General Requirements	1	8.5	VERIFICATION OF WITHSTAND RATING
UL 467/CSA-C22.2 No. 41	Grounding and Bonding Equipment	10/6	7.5/8.5/9.5	SHORT-TIME CURRENT
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.3	OVERLOAD TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.7.2	SHORT-CIRCUIT CURRENT WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.7.3	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.7.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	11.1.7.7	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.6	CONTACT CLOSING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	19	CIRCUIT BREAKER ENCLOSURE - PERFORMANCE (SHORT CIRCUIT RATING)
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	19.10	DIELECTRIC VOLTAGE-WITHSTAND TEST

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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	19.8	SHORT CIRCUIT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.11	HIGH AVAILABLE FAULT CURRENT TEST SEQUENCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.11.2	CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.11.3	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.11.4	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.11.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.1.6	100 PERCENT CALIBRATION AT 40 DEGREES CELCIUS TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.1.6	100 PERCENT CALIBRATION AT 25 DEGREES CELCIUS TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.2	200 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.3	135 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.4	100 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.2.5	ADJUSTABLE INSTANTANEOUS TRIP CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.3	OVERLOAD
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.4	TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.5	ENDURANCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.6	CALIBRATION

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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.7	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.8	TRIP-OUT AT 200 PERCENT CURRENT
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.1.9	DIELECTRIC VOLTAGE-WITHSTAND
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.12.2	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.13	SERIES-CONNECTED CIRCUIT BREAKERS
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.13.5	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.13.6	INTERMEDIATE INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.13.7	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.13.8	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.16.2.4	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.16.3	HIGH AVAILABLE FAULT CURRENT TEST SEQUENCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.2.2	CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.2.4	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.2.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.3.1.11	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.4.2.4	INTERRUPTING TESTS

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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.4.2.6	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.4.3	HIGH AVAILABLE FAULT CURRENT CIRCUITS
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.5.2.4	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.5.2.6	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.5.3	HIGH AVAILABLE FAULT CURRENT CIRCUITS TESTS
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	7.5.3.4	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	SC5	OVERLOAD TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	SC7	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	SC8	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	SC9	HIGH AVAILABLE FAULT CURRENT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	SD6	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	11.1.3	OVERLOAD TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	11.1.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.6	UNDERVOLTAGE-TRIP RELEASE DEVICES-CONTACT CLOSING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	19.10	DIELECTRIC VOLTAGE-WITHSTAND
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	19.8	SHORT-CIRCUIT



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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11	HIGH AVAILABLE FAULT CURRENT TEST SEQUENCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11.2	CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11.3	OTHER FUNKTIONALITY CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11.4	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11.5	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.11.7	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.	CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.2	200 PERCENT CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.3	135 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.4	100 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.4,7.1.4	100 PERCENT CALIBRATION AT 40°C
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.5	ADJUSTABLE INSTANTANEOUS TRIP CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.3	OVERLOAD
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.4	TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.5	ENDURANCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.6	CALIBRATION

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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.8	TRIP-OUT AT 200 PERCENT CURRENT
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.9	DIELECTRIC VOLTAGE-WITHSTAND
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.12.2	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13	SERIES-CONNECTED CIRCUIT BREAKERS
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13.5	INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13.6	INTERMEDIATE INTERRUPTING TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13.7	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13.8	OTHER FUNCTIONALITY CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.13.9	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.16.3	HIGH AVAILABLE FAULT CURRENT TEST SEQUENCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.16.4	THERMAL WITHSTAND SEQUENCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.2.2	CALIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.2.4	TRIP-OUT TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.2.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.3.1.11	TRIP-OUT TEST

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UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.5.2.4	INTERRUPTING
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.5.3	HIGH AVAILABLE FAULT CURRENT CIRCUITS
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.5.3.4	INTERRUPTING
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	45	OVERLOAD
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	46	ENDURANCE
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	48	CALIBRATION
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	49	DIELECTRIC VOLTAGE WITHSTAND TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	50	SHORT CIRCUIT
UL 508C	POWER CONVERSION EQUIPMENT	3	40	TEMPERATURE
UL 508C	POWER CONVERSION EQUIPMENT	3	44	DIELECTRIC VOLTAGE-WITHSTAND
UL 508C	POWER CONVERSION EQUIPMENT	3	45	SHORT CIRCUIT - STANDARD FAULT CURRENTS
UL 508C	POWER CONVERSION EQUIPMENT	3	45A	GROUP INSTALLATION (OPTIONAL)
UL 508C	POWER CONVERSION EQUIPMENT	3	46	CALIBRATION OF SHORT CIRCUIT TEST CIRCUITS
UL 508C	POWER CONVERSION EQUIPMENT	3	47	SHORT CIRCUIT - HIGH FAULT CURRENTS
UL 508C	Power Conversion Equipment	4	44	DIELECTRIC VOLTAGE-WITHSTAND
UL 508C	Power Conversion Equipment	4	45	SHORT CIRCUIT - STANDARD FAULT CURRENTS
UL 508C	Power Conversion Equipment	4	47	CALIBRATION OF SHORT CIRCUIT TEST CIRCUITS
UL 508C	Power Conversion Equipment	4	48	SHORT CIRCUIT - HIGH FAULT CURRENTS
UL 508C	Power Conversion Equipment	4	49	TRANSIENT-VOLTAGE-SURGE SUPPRESSION
UL 508C	Power Conversion Equipment	4	6.7	RESISTANCE MEASUREMENT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.13DV	CLAMPED JOINT TEST
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.13DV.1	CLAMPED JOINT TEST
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.1	IMPULSE VOLTAGE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.2	A.C. OR D.C. VOLTAGE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.2	AC OR DC VOLTAGE TEST FOLLOWING SHORT CIRCUIT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.2	AC OR DC VOLTAGE TEST FOLLOWING BREAKDOWN OF COMPONENTS
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.2	AC OR DC VOLTAGE TEST FOLLOWING ABNORMAL OPERATION
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6	BREAKDOWN OF COMPONENTS TEST - HIGH FAULT CURRENT

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UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6	BREAKDOWN OF COMPONENTS TEST - STANDARD FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.1DV1	GROUP INSTALLATION
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.2.1D V.2.4	BREAKDOWN OF COMPONENTS TEST – HIGH FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.2.1D V.3	CALIBRATION OF SHORT CIRCUIT TEST CURRENTS 10,000 A OR LESS
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.2.1D V.4	CALIBRATION OF SHORT CIRCUIT CURRENTS OVER 10,000 A
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.2.1D V.5	SHORT CIRCUIT TEST - HIGH FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.3	SHORT CIRCUIT TEST - STANDARD FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.4	BREAKDOWN OF COMPONENTS
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.4	BREAKDOWN OF COMPONENTS - STANDARD FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6DV.1.3	SHORT CIRCUIT TEST – GROUP INSTALLATION FOR STANDARD FAULT CURRENT
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6DV.1.4	SHORT CIRCUIT TEST – GROUP INSTALLATION FOR HIGH FAULT CURRENT
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UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6DV.1.6	BREAKDOWN OF COMPONENTS TEST – GROUP INSTALLATION FOR HIGH FAULT CURRENT
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UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.5DV	CONTACTOR OVERLOAD
UL 61800-5 1	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.5DV.1	CONTACTOR OVERLOAD
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UL 67	Panelboards	12	24	DIELECTRIC VOLTAGE-WITHSTAND TEST
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