Project Number: 4789302847
File Number: DA487

Data Acceptance Program (DAP) Assessment Report for

Institute for International Product Safety GmbH

Hein-Moeller Strasse 7-11
Bonn 53115
DE

in Underwriters Laboratories

Third Party Test Data Program (TPTDP)

Assessment conducted on Q- Audit: 2020-09-22/24, T- Audit: 2020-08-27

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 Q- Audit: 2020-09-22/24, T- Audit: 2020-08-27 by Lead Auditor Stefan Hochwart (stefan.hochwart@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.)

A general reassessment of laboratory operations was conducted of the Institute for International Product Safety GmbH laboratory facility, located in Bonn, Germany, for continuation in the Data Acceptance Program (DAP) as a Third Party Test Data Program (TPTDP) laboratory under File DA487. As Institute for International Product Safety GmbH has been in the TPTDP and a CBTL since approx. 20 years and has ISO17025 accreditation by DAkks (D-PL-19125-01-00, valid until 2023-06-28) for the testing laboratory and has a ISO17025 accreditation by DAkks (D-K-19125-01-00, valid until 2023-03-22) for the calibration laboratory, the remaining clauses of ISO17025 and the relevant technical standards were assessed along with the related policies and procedures.

This facility participates in the TPTDP for UL and is CBTL for the NCB Demko, during this assessment we conducted only a TPTDP assessment since IECEE conducted the CBTL by themselves.

Due to the current Corona situation we conducted the quality part of this assessment by webcam based on the requirements described in 95-OP-S0880. But the technical audit was conducted at the facility.

Overall, the system assessed was in compliance with the requirements. Areas of strength include the staff's technical knowledge and implementation of existing QMS procedures.

Areas of continuous improvement include development of ISO17025 policies and procedures, as well as any adaptation based on UL's DAP/CTDP requirements. UL posts DAP announcements and program tools on UL's website, and laboratory staff are encouraged to review documentation for updates. Type "ul.com/dap" into your browser or follow these links:

http://services.ul.com/service/data-acceptance-program/
http://ul.com/offerings/dap/tools/

During the assessment we added new editions of the standards UL/CSA60947-5-1, IEC61439-1 and IEC61439-2 to the TPTDP scope.

Overall, we were pleased with the results of the audit and found everyone to be well prepared. We appreciate your hospitality during our stay and your openness in sharing company policies.

The Audit Team

◉ Based on the findings of this assessment we are continuing recognition under the Client Test Data Program (CTDP)/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 17025:2017 Assessment Topics*	Number of NCRs written per clause:	
		Findings	Observations
6.2	Personnel		
6.3	Facilities and environmental conditions		
6.4	Equipment		
6.5	Metrological traceability		
6.6	Externally provided products and services		1
7.2	Selection, verification and validation of methods		
7.4	Handling of test or calibration items		
7.5	Technical Records		
7.8	Reporting of results		
7.10	Non-Conforming Work		
7.11	Control of data and information management		
8.3	Control of management system documents (Option A)		
8.4	Control of records (Option A)		
8.7	Corrective actions (Option A)		

There were 0 Finding NCR(s) and 1 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.

Previous NCRs (1, 2, 3) were reviewed to confirm implementation and effectiveness.

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

Authorized Signatories

If any changes are needed to be made to this list of authorized signatories between the annual assessment cycles, please contact DAP Customer Service at DAP@ul.com .

Signatories Authorized by the Laboratory	Status
Bernhard Schneider	
Daniel Heimerl	
Florian Kopelke	
Frank Woerdehoff	
Heribert Schorn	Primary Signatory
KLAUS HEIDELBERGER	
Karin Richter	
MATTHIAS HUNZE	
PETER GROSSER	
Pietro Pelusi	
Raimund Frings	
Ralf Hartkamp	
Toni Hoffmann	

Meeting Participants

Opening	Closing	Name of Participants	Title / Position
☑	☑	Mr. Friederichs	Quality Manager
☑	☑	Mr. Hochwart	Lead Auditor (UL)
☑	☑	Mr. Mueller	PDE Tech Auditor (UL)
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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) in 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 Actions(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 Actions(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 contract DAP@ul.com for further assistance.

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
ATTACHMENT A - Post Audit Scope (0 Tests Total)				
ATTACHMENT A - Post Audit Scope (994 Tests Total)				
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	4.2.1	FLAME TEST 5V (500 W)
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	4.2.2	VERTICAL BURNING TEST - V-0, V-1 AND V-2 (50 W)
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	4.2.3	HORIZONTAL BURNING TEST - HB
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	9.2	ALTERNATIVE FLAME TEST (NEEDLE FLAME)
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	9.3	GLOW-WIRE RATING FOR END PRODUCT
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	9.4	MOLD STRSS-RELIEF TEST
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	9.5	PHYSICAL ABUSE
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	D1	125 MM FLAME TEST
CSA-C22.2 No. 0.17	Evaluation of Properties of Polymeric Materials	2	D3	HORIZONTAL BURNING FLAME TEST (20MM)
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.11	SHORT CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.11.7	MAGNETIC TRIP OUT TEST
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.11.8	COMBINATION SHORT CIRCUIT TEST
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.12	CONTROLLERS INTENDED FOR USE ON CIRCUITS CAPABLE OF DELIVERING HIGH FAULT CURRENTS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.15.2	FLAMMABILITY OF ENCLOSURE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.15.3	RESISTANCE TO IMPACT - ENCLOSURES
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.15.4	RESISTANCE TO IMPACT - OBSERVATION OPENINGS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.15.5	POLYMERIC ENCLOSURE MATERIALS - DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.15.6	CONDUIT CONNECTIONS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.16	SECUREMENT OF SNAP-ON COVERS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.17	COMPRESSION
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.18	DEFLECTION
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.19	TRANSIENT-VOLTAGE-SURGE SUPPRESSION

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.2	TEMPERATURE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.20	DIELECTRIC VOLTAGE-WITHSTAND TEST IN LIEU OF MEASURING SPACINGS
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.22	VOLTAGE WITHSTAND
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.23.1	TEMPERATURE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.23.2	OVERLOAD AND ENDURANCE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.23.3	DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.23.4	SHORT CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.25	STRAIN RELIEF
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.3	OVERVOLTAGE AND UNDERVOLTAGE
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.4	OVERLOAD RELAY CALIBRATION
CSA-C22.2 No. 14	Industrial Control Equipment	12	6.5	OVERLOAD
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. 14	Industrial Control Equipment	13	6.11	SHORT CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.11.7	MAGNETIC TRIP-OUT TEST
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.11.8	COMBINATION SHORT-CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.12	HIGH FAULT CURRENTS
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.15.2	FLAMMABILITY OF ENCLOSURE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.15.3	RESISTANCE TO IMPACT - ENCLOSURES
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.15.4	RESISTANCE TO IMPACT - OBSERVATION OPENINGS
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.15.5	DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.15.6	CONDUIT CONNECTION

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.18	DEFLECTION
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.19	TRANSIENT-VOLTAGE-SURGE SUPPRESSION
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.2	TEMPERATURE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.20	DIELECTRIC VOLTAGE-WITHSTAND TEST IN LIEU OF MEASURING SPACINGS
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.22	VOLTAGE WITHSTAND
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.23.1	MANUAL CONTROLLERS INTENDED FOR USE AS A MOTOR DISCONNECT - TEMPERATURE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.23.2	MANUAL CONTROLLERS INTENDED FOR USE AS A MOTOR DISCONNECT - OVERLOAD AND ENDURANCE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.23.3	MANUAL CONTROLLERS INTENDED FOR USE AS A MOTOR DISCONNECT - DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.23.4	SHORT-CIRCUIT
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.25	STRAIN RELIEF
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.3	OVERVOLTAGE AND UNDERVOLTAGE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.4	OVERLOAD RELAY CALIBRATION
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.5	OVERLOAD
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.6	ENDURANCE
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.7	CURRENT WITHSTAND TEST
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.8	DIELECTRIC STRENGTH
CSA-C22.2 No. 14	Industrial Control Equipment	13	6.9	BURNOUT
CSA-C22.2 No. 158	Terminal Blocks	3	6.12	SPRING FORCE CONNECTIONS
CSA-C22.2 No. 158	Terminal Blocks	3	6.3	SECURENESS
CSA-C22.2 No. 158	Terminal Blocks	3	6.4	STATIC HEATING
CSA-C22.2 No. 158	Terminal Blocks	3	6.5	PULLOUT
CSA-C22.2 No. 158	Terminal Blocks	3	6.6	DIELECTRIC STRENGTH
CSA-C22.2 No. 158	Terminal Blocks	3	6.7	ACCELERATED AGING
CSA-C22.2 No. 158	Terminal Blocks	3	6.8	VERIFICATION OF THE PERFORMANCE OF THE TERMINAL ASSEMBLIES OF A TERMINAL BLOCK

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 158	Terminal Blocks	3	6.9	MOUNTING SECURITY
CSA-C22.2 No. 235	Supplementary Protectors	2	6.2	CALIBRATION AND RECALIBRATION VERIFICATION (OVERCURRENT-TRIP AND OVERCURRENT-TYPE SHUNT-TRIP PROTECTORS)
CSA-C22.2 No. 235	Supplementary Protectors	2	6.3.1	TEMPERATURE (NORMAL)
CSA-C22.2 No. 235	Supplementary Protectors	2	6.4	OVERVOLTAGE AND UNDERVOLTAGE (OVERVOLTAGE-TRIP, UNDERVOLTAGE-TRIP, AND SHUNT-TRIP PROTECTORS)
CSA-C22.2 No. 235	Supplementary Protectors	2	6.5	OPERATION (OVERVOLTAGE-TRIP AND UNDERVOLTAGE-TRIP PROTECTORS)
CSA-C22.2 No. 235	Supplementary Protectors	2	6.6	OVERLOAD
CSA-C22.2 No. 235	Supplementary Protectors	2	6.7	ENDURANCE
CSA-C22.2 No. 235	Supplementary Protectors	2	6.8	SHORT-CIRCUIT TESTS — LIMITED, CONDITIONAL, AND INTERRUPTING (SUITABLE FOR FURTHER USE)
CSA-C22.2 No. 235	Supplementary Protectors	2	6.9.2	VOLTAGE WITHSTAND TEST
CSA-C22.2 No. 244	Switchboards	1	9.2.3.5	AFTER SHORT CIRCUIT DIELECTRIC
CSA-C22.2 No. 244	Switchboards	1	9.2.4	SHORT CIRCUIT
CSA-C22.2 No. 254	Motor Control Centres	5	8.2.29	GROUNDING AND BONDING
CSA-C22.2 No. 254	Motor Control Centres	5	9.10	SHORT-CIRCUIT TESTS - BUS STRUCTURE
CSA-C22.2 No. 254	Motor Control Centres	5	9.11	DIELECTRIC VOLTAGE-WITHSTAND TEST (AFTER SHORT-CIRCUIT TEST - BUS STRUCTURE)
CSA-C22.2 No. 254	Motor Control Centres	5	9.12	SHORT-CIRCUIT (STANDARD-LEVEL) TESTS FOR MOTOR CONTROL CENTRE UNITS
CSA-C22.2 No. 254	Motor Control Centres	5	9.15	SHORT-CIRCUIT (HIGH-LEVEL) TEST FOR MOTOR CONTROL CENTRE UNITS
CSA-C22.2 No. 254	Motor Control Centres	5	9.3	TEMPERATURE-RISE TEST
CSA-C22.2 No. 254	Motor Control Centres	5	9.9	DIELECTRIC VOLTAGE-WITHSTAND TEST (AFTER CONTACTOR OVERLOAD TEST)
CSA-C22.2 No. 27	Busways	6	8.2.1	VERIFICATION OF TEMPERATURE-RISE LIMITS
CSA-C22.2 No. 27	Busways	6	8.2.2	VERIFICATION OF DIELECTRIC VOLTAGE WITHSTAND
CSA-C22.2 No. 27	Busways	6	8.2.3	VERIFICATION OF SHORT-CIRCUIT WITHSTAND STRENGTH
CSA-C22.2 No. 27	Busways	6	8.2.4	VERIFICATION OF ELECTRICAL CONDUCTIVITY
CSA-C22.2 No. 27	Busways	6	8.2.7.1	VERIFICATION OF BENDING RESISTANCE

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 27	Busways	6	8.2.7.2	VERIFICATION OF IMPACT STRENGTH
CSA-C22.2 No. 27	Busways	6	8.2.7.3	VERIFICATION OF CRUSHING RESISTANCE
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.13	BREAKDOWN OF COMPONENTS
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.14	PROTECTIVE BONDING
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.16.2	RESISTANCE TO IMPACT - ENCLOSURES
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.16.3	RESISTANCE TO IMPACT - OBSERVATION
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.16.4	DIELECTRIC STRENGTH
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.18	CONTACTOR OVERLOAD
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.19	CAPACITOR DISCHARGE TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.2	TEMPERATURE
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.21	IMPULSEVOLTAGE
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.22	INTERLOCK INTEGRITY
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.24	MOLD STRESS RELIEF TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.3	DIELECTRIC STRENGTH
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.4	VERIFICATION OF ELECTRONIC MOTOR OVERLOAD PROTECTION
CSA-C22.2 No. 274	Adjustable Speed Drives	1	6.5	CURRENT LIMITING CONTROL
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	2	6.12	BREAKDOWN OF COMPONENTS TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.13	PROTECTIVE BONDING
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.15.2	RESISTANCE TO IMPACT — ENCLOSURES
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.15.3	RESISTANCE TO IMPACT — OBSERVATION OPENINGS
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.15.4	DIELECTRIC STRENGTH
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.17	CONTACTOR OVERLOAD

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.18	CAPACITOR DISCHARGE TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.2	TEMPERATURE
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.20	IMPULSE VOLTAGE TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.21	ISOLATING MEANS AND INTERLOCK INTEGRITY
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.23	MOULD STRESS RELIEF TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.3	DIELECTRIC STRENGTH
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.4	VERIFICATION OF ELECTRONIC MOTOR OVERLOAD PROTECTIVE CIRCUITRY
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.5	CURRENT LIMITING CONTROL
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.6	SHORT CIRCUIT TEST
CSA-C22.2 No. 274	Adjustable Speed Drives	2	6.7	HIGH FAULT CURRENT TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.2	HEATING TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.3	OVERLOAD TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.4	ENDURANCE TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.7	SHORT-CIRCUIT WITHSTAND TEST
CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	7	7.9	SHORT-CIRCUIT CLOSING TEST
CSA-C22.2 No. 61010-2 201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	4.4	TESTING IN SINGLE FAULT CONDITION
CSA-C22.2 No. 61010-2 201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	4.4.2.101.1	OVERLOAD TEST
CSA-C22.2 No. 61010-2 201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	4.4.2.101.2	ENDURANCE TEST
CSA-C22.2 No. 61010-2 201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	8.2.2	IMPACT
CSA-C22.2 No. 61010-2 201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	8.3	DROP TEST
CSA-C22.2 No. 65	Wire Connectors	5	7.3/8.3/9.3	STATIC-HEATING SEQUENCE

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA-C22.2 No. 65	Wire Connectors	5	7.4/8.4/9.4	MECHANICAL SEQUENCE
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	1	13	TEST FOR PROTEC-TION AGAINST SOLID OBJECTS
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	1	14	TESTS FOR PROTECTION AGAINST WATER INDICATED BY THE SECOND CHARACTERISTIC NUMERAL - IP20
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	1	14.2.6	HOSEDOWN
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	2.2	12	TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	2.2	13	TEST FOR PROTECTION AGAINST SOLID OBJECT
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	2.2	14	TEST FOR PROTECTION AGAINST WATER
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)	2.2	15	TESTS FOR PROTECTION AGAINST ACCESS TO HAZARDOUS PARTS INDICATED BY THE ADDITIONAL LETTER
IEC 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5.2	8.2.1.1	TEST OF RESISTANCE TO ABNORMAL HEAT AND FIRE
IEC 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5.2	8.2.3	DEGREES OF PROTECTION OF ENCLOSED EQUIPMENT
IEC 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5.2	8.2.4	MECHANICAL AND ELECTRICAL PROPERTIES OF TERMINALS
IEC 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5.2	8.2.5	VERIFICATION OF THE EFFECTIVENESS OF INDICATION OF THE MAIN CONTACT POSITION OF EQUIPMENT SUITABLE FOR ISOLATION
IEC 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5.2	8.2.7	CONDUIT PULL-OUT TEST, TORQUE TEST AND BENDING TEST WITH METALLIC CONDUITS
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IEC 60947-2	Low-Voltage Switchgear and Controlgear - Part 2: Circuit-Breakers	5.0	8.3.3.5	OVERLOAD PERFORMANCE
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IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	2 (2)	8.3.3.1	TEMPERATURE-RISE
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IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	3 (2)	8.3.3.1	TEMPERATURE-RISE
IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	3 (2)	8.3.3.2	DIELECTRIC PROPERTIES
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IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	3 (2)	8.3.5.1	SHORT-TIME WITHSTAND CURRENT

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IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	3 (2)	8.4.1	EMC TESTS - IMMUNITY
IEC 60947-3	Low-Voltage Switchgear and Controlgear - Part 3: Switches, Disconnectors, Switch-Disconnectors and Fuse-Combination Units	3 (2)	8.4.2	EMC TESTS - EMISSION
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.3.1 AND 9.3.3.2	OPERATION AND OPERATING LIMITS
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.3.3	TEMPERATURE RISE
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.3.4	DIELECTRIC PROPERTIES
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.3.5	RATED MAKING AND BREAKING CAPACITIES, CHANGE-OVER ABILITY AND REVERSIBILITY
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.3.6	CONVENTIONAL OPERATIONAL PERFORMANCE
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.4	SHORT-CIRCUIT CONDITIONS
IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.3.5	ABILITY TO WITHSTAND OVERLOAD CURRENTS
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IEC 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3.1	9.4.3	EMC TESTS - EMISSION
IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.3.3	TEMPERATURE RISE
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IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.3.5	MAKING AND BREAKING CAPACITY OF MECHANICAL SWITCHING DEVICES
IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.3.6	OPERATING CAPABILITY
IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.4	PERFORMANCE UNDER SHORT-CIRCUIT CONDITIONS
IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.5.1	EMC TESTS - EMISSION
IEC 60947-4-2	Low-Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	3.0	9.3.5.2	EMC TESTS - IMMUNITY
IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.3.3.3	TEMPERATURE RISE
IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.3.3.4	DIELECTRIC PROPERTIES

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IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.3.3.5	MAKING AND BREAKING CAPACITIES OF MECHANICAL SWITCHING DEVICES
IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.3.3.6	OPERATING CAPABILITY
IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.3.4	PERFORMANCE UNDER SHORT-CIRCUIT CONDITIONS
IEC 60947-4-3	Low-Voltage Switchgear and Controlgear - Part 4-3: Contactors and Motor-Starters - AC Semiconductor Controllers and Contactors for Non Motor Loads	2.0	9.4.1	EMC TESTS - EMISSION
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	7.1.3	CLEARANCE AND CREEPAGE DISTANCES
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.2.5	ACTUATION FORCE OR MOMENT
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.2.6	LIMITATION OF ROTATION OF A ROTARY SWITCH
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.3.3.2	OPERATING LIMITS OF CONTACTOR RELAYS
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.3.3.3	TEMPERATURE RISE
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.3.3.4	DIELECTRIC PROPERTIES
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.3.3.5	MAKING AND BREAKING CAPACITIES
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3.1	8.3.4	CONDITIONAL SHORT-CIRCUIT CURRENT
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	7.1.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.2.5	VERIFICATION OF ACTUATING FORCE (OR MOMENT)
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.2.6	VERIFICATION OF LIMITATION OF ROTATION OF A ROTARY SWITCH
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.3.3.2	OPERATING LIMITS OF CONTACTOR RELAYS
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.3.3.3	TEMPERATURE RISE
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.3.3.4	DIELECTRIC PROPERTIES

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IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.3.3.5.2	MAKING AND BREAKING CAPACITIES OF SWITCHING ELEMENTS UNDER NORMAL CONDITIONS
IEC 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	4.0	8.3.3.5.3	MAKING AND BREAKING CAPACITIES OF SWITCHING ELEMENTS UNDER ABNORMAL CONDITIONS
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	7.4.1	SHOCK
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	7.4.2	VIBRATION
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.3.3.2	OPERATING LIMITS
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.3.3.3	TEMPERATURE RISE
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.3.3.4	DIELECTRIC PROPERTIES
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.3.3.5	MAKING AND BREAKING CAPACITIES
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.3.4	PERFORMANCE UNDER SHORT-CIRCUIT CONDITIONS
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.4	OPERATING DISTANCES
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.5	OPERATING FREQUENCY
IEC 60947-5-2	Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches	3.1	8.6	ELECTROMAGNETIC COMPATIBILITY
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.2	GENERAL DESIGN INSPECTION
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.3.2	ROBUSTNESS OF A BUTTON ACTUATOR
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.3.3	DURABILITY TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.4	CONDITIONING
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.5	SHOCK TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.6	VIBRATION TEST

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IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.7.2	OPENING
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.7.3	LATCHING
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.7.4	RESETTING
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.1	7.7.5	IMPACT
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.2	GENERAL DESIGN INSPECTION
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.3.2	ROBUSTNESS OF A BUTTON ACTUATOR
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.3.3	DURABILITY TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.5	SHOCK TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.6	VIBRATION TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.4	CONDITIONING PROCEDURES
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.7.5	IMPACT TEST FOR BUTTON TYPE ACTUATORS
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.7.2	OPENING TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.7.3	LATCHING TEST
IEC 60947-5-5	Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical Emergency Stop Device with Mechanical Latching Function	1.2	7.7.4	RESETTING TEST
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.10	VERIFICATION OF TEMPERATURE RISE

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IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.11	SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.12	ELECTROMAGNETIC COMPATIBILITY (EMC)
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.13	MECHANICAL OPERATION
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.2	RESISTANCE TO CORROSION
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.3.1	THERMAL STABILITY
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.3.2	RESISTANCE TO ABNORMAL HEAT AND FIRE DUE TO INTERNAL ELECTRIC EFFECTS
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.5	LIFTING
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.6	MECHANICAL IMPACT
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.2.7	MARKING
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.3	DEGREE OF PROTECTION OF ENCLOSURES
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2.0	10.9	DIELECTRIC PROPERTIES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.10	VERIFICATION OF TEMPERATURE RISE
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.11	SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.12	ELECTROMAGNETIC COMPATIBILITY (EMC)
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.13	MECHANICAL OPERATION
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.2	RESISTANCE TO CORROSION
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.3.1	THERMAL STABILITY
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.3.2	RESISTANCE TO ABNORMAL HEAT AND FIRE DUE TO INTERNAL ELECTRIC EFFECTS
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.5	LIFTING
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.6	MECHANICAL IMPACT
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.2.7	MARKING
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.3	DEGREE OF PROTECTION OF ENCLOSURES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2.0	10.9	DIELECTRIC PROPERTIES
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.10	VERIFICATION OF TEMPERATURE RISE

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IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.11	SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.12	ELECTROMAGENTIC COMPATIBILITY (EMC)
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.13	MECHANICAL OPERATION
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.101	ABILITY TO WTIHSTAND MECHANICAL LOADS
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.102	THERMAL CYCLING TEST
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.2	RESISTANCE TO CORROSION
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.3.1	THERMAL STABILITY
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.3.2	RESISTANCE TO ABNORMAL HEAT AND FIRE DUE TO INTERNAL ELECTRIC EFFECTS
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.5	LIFTING
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.6	MECHANICAL IMPACT
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.2.7	MARKING
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.3	DEGREE OF PROTECTION OF ENCLOSURES
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61439-6	Low-Voltage Switchgear and Controlgear Assemblies - Part 6: Busbar Trunking Systems (Busways)	1.0	10.9	DIELECTRIC PROPERTIES
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.1	VISUAL INSPECTION
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.1	MECHANICAL TESTS - CLEARANCE AND CREEPAGE DISTANCE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.2	MECHANICAL TESTS - PWB SHORT-CIRCUIT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.3	MECHANICAL TESTS - NON-ACCESSIBILITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.4	MECHANICAL TESTS - ENCLOSURE INTEGRITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.5.2	MECHANICAL TESTS - DEFORMATION - DEFLECTION
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.2.5.3	MECHANICAL TESTS - DEFORMATION - IMPACT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.1	ELECTRICAL TESTS - IMPULSE VOLTAGE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.2	ELECTRICAL TESTS - AC OR DC VOLTAGE

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IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.5	ELECTRICAL TESTS - TOUCH CURRENT MEASUREMENT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.6.3	ELECTRICAL TESTS - SHORT-CIRCUIT TEST AND BREAKDOWN OF COMPONENTS TEST - SHORT-CIRCUIT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.6.4	ELECTRICAL TESTS - SHORT-CIRCUIT TEST AND BREAKDOWN OF COMPONENTS TEST - BREAKDOWN OF COMPONENTS
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.7	ELECTRICAL TESTS - CAPACITOR DISCHARGE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.8	ELECTRICAL TESTS - TEMPERATURE RISE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.3.9	ELECTRICAL TESTS - PROTECTIVE BONDING
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.4.4	ABNORMAL OPERATION TESTS - LOSS OF PHASE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.4.5.2	ABNORMAL OPERATION TESTS - COOLING FAILURE TESTS - INOPERATIVE BLOWER
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.4.5.3	ABNORMAL OPERATION TESTS - COOLING FAILURE TESTS - CLOGGED FILTER
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.5.2	MATERIAL TESTS - GLOW WIRE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.5.4	MATERIAL TESTS- FLAMMABILITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.6.3.1	ENVIRONMENTAL TESTS - CLIMATIC TESTS - DRY HEAT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.6.3.2	ENVIRONMENTAL TESTS - CLIMATIC TESTS - DAMP HEAT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.0	5.2.6.4	ENVIRONMENTAL TESTS - VIBRATION
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.1	VISUAL INSPECTION
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.1	MECHANICAL TESTS - CLEARANCE AND CREEPAGE DISTANCE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.2	MECHANICAL TESTS - PWB SHORT-CIRCUIT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.3	MECHANICAL TESTS - NON-ACCESSIBILITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.4	MECHANICAL TESTS - ENCLOSURE INTEGRITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.5.2	MECHANICAL TESTS - DEFORMATION - DEFLECTION
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.2.5.3	MECHANICAL TESTS - DEFORMATION - IMPACT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.1	ELECTRICAL TESTS - IMPULSE VOLTAGE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.2	ELECTRICAL TESTS - AC OR DC VOLTAGE

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IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.4	ELECTRICAL TESTS - PROTECTIVE IMPEDANCE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.5	ELECTRICAL TESTS - TOUCH CURRENT MEASUREMENT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.6.3	ELECTRICAL TESTS - SHORT-CIRCUIT TEST AND BREAKDOWN OF COMPONENTS TEST - SHORT-CIRCUIT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.6.4	ELECTRICAL TESTS - SHORT-CIRCUIT TEST AND BREAKDOWN OF COMPONENTS TEST - BREAKDOWN OF COMPONENTS
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.7	ELECTRICAL TESTS - CAPACITOR DISCHARGE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.8	ELECTRICAL TESTS - TEMPERATURE RISE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.3.9	ELECTRICAL TESTS - PROTECTIVE BONDING
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.4.4	ABNORMAL OPERATION TESTS - LOSS OF PHASE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.4.5.2	ABNORMAL OPERATION TESTS - COOLING FAILURE TESTS - INOPERATIVE BLOWER
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.4.5.3	ABNORMAL OPERATION TESTS - COOLING FAILURE TESTS - CLOGGED FILTER
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.5.2	MATERIAL TESTS - GLOW WIRE
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.5.4	MATERIAL TESTS- FLAMMABILITY
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.6.3.1	ENVIRONMENTAL TESTS - CLIMATIC TESTS - DRY HEAT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.6.3.2	ENVIRONMENTAL TESTS - CLIMATIC TESTS - DAMP HEAT
IEC 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	2.1	5.2.6.4	ENVIRONMENTAL TESTS - VIBRATION
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IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.2	VERIFICATION OF DIELECTRIC PROPERTIES
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.3	VERIFICATION OF THE SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.4	VERIFICATION OF THE EFFECTIVENESS OF THE PROTECTIVE CIRCUIT
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.5	VERIFICATION OF CLEARANCES AND CREEPAGE DISTANCES
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.6	VERIFICATION OF MECHANICAL OPERATION
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	1.0	7.2.7	VERIFICATION OF THE DEGREE OF PROTECTION
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UL 1008	Transfer Switch Equipment	8	9.12	ENDURANCE TEST
UL 1008	Transfer Switch Equipment	8	9.13	SHORT CIRCUIT TEST
UL 1008	Transfer Switch Equipment	8	9.8	TEMPERATURE RISE TEST
UL 1008	Transfer Switch Equipment	8	9.9	DIELECTRIC VOLTAGE-WITHSTAND TEST
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UL 1059	TERMINAL BLOCKS	4	30	CONDITIONING-SPRING FORCE CONNECTIONS
UL 1059	TERMINAL BLOCKS	4	31	TEMPERATURE-SPRING FORCE CONNECTIONS
UL 1059	TERMINAL BLOCKS	4	32	DIELECTRIC VOLTAGE-WITHSTAND TEST - SPRING FORCE CONNECTIONS
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UL 1059	TERMINAL BLOCKS	4	51	SHORT TIME CURRENT SEQUENCE
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UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	30.7	OVERVOLTAGE-TRIP APPLIANCE PROTECTORS– DIELECTRIC VOLTAGE-WITHSTAND
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UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	32.5	SHUNT-TRIP PROTECTORS - OVERLOAD
UL 1077	Supplementary Protectors for Use in Electrical Equipment	7	32.6	SHUNT-TRIP PROTECTORS - ENDURANCE
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UL 1953	Outline of Investigation for Power Distribution Blocks	5	13	SHORT-CIRCUIT CURRENT TEST
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UL 2237	Outline of Investigation for Multi-Point Interconnection Power Cable Assemblies for Industrial Machinery	5	37	SHORT-CIRCUIT WITHSTAND TEST
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UL 248-1/CSA-C22.2 No. 248.1	Low-Voltage Fuses - Part 1: General Requirements	3	8.3	VERIFICATION OF OVERLOAD OPERATION
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 248-13	Low-Voltage Fuses - Part 13: Semiconductor Fuses	2	8.2	VERIFICATION OF TEMPERATURE RISE AND CURRENT-CARRYING CAPACITY
UL 248-13	Low-Voltage Fuses - Part 13: Semiconductor Fuses	2	8.3	VERIFICATION OF OVERLOAD OPERATION
UL 248-13	Low-Voltage Fuses - Part 13: Semiconductor Fuses	2	8.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
UL 248-13	Low-Voltage Fuses - Part 13: Semiconductor Fuses	2	8.5	VERIFICATION OF PEAK LET-THROUGH CURRENT AND CLEARING I2T CHARACTERISTICS
UL 248-14/CSA-C22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses	2	8.2	VERIFICATION OF TEMPERATURE RISE AND CURRENT-CARRYING CAPACITY
UL 248-14/CSA-C22.2 No. 248.14	Low-Voltage Fuses - Part 14: Supplemental Fuses	2	8.3	VERIFICATION OF OVERLOAD OPERATION
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 248-19/CSA-C22.2 No. 248.19	Low-Voltage Fuses - Part 19: Photovoltaic Fuses	1	6.2	VERIFICATION OF TEMPERATURE RISE AND CURRENT-CARRYING CAPACITY
UL 248-19/CSA-C22.2 No. 248.19	Low-Voltage Fuses - Part 19: Photovoltaic Fuses	1	6.3	VERIFICATION OF OVERLOAD OPERATION
UL 248-19/CSA-C22.2 No. 248.19	Low-Voltage Fuses - Part 19: Photovoltaic Fuses	1	6.4	VERIFICATION OF OPERATION AT RATED VOLTAGE
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UL 486A-486B	Wire Connectors	2	7.3/8.3/9.3	STATIC-HEATING SEQUENCE
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UL 486A-486B/CSA-C22.2 No. 65	Wire Connectors	3/6	7.3/8.3/9.3	STATIC-HEATING SEQUENCE
UL 486A-486B/CSA-C22.2 No. 65	Wire Connectors	3/6	7.4/8.4/9.4	MECHANICAL SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	7.12/8.12/9.12	SPRING ACTION SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	7.2/8.2/9.2	CURRENT CYCLING
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	7.4/8.4/9.4	MECHANICAL SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	7.5/8.5/9.5	DIELECTRIC-VOLTAGE WITHSTAND
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	7.8/8.8/9.8	LOW-TEMPERATURE INSTALLATION
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	9.3	STATIC HEATING SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	6/3	9.4	GENERAL - MECHANICAL SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.12/8.12/9.12	SPRING ACTION SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.2/8.2/9.2	CURRENT CYCLING
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.3/8.3/9.3	STATIC HEATING SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.4/8.4/9.4	MECHANICAL SEQUENCE
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.5/8.5/9.5	DIELECTRIC WITHSTAND
UL 486C/CSA-C22.2 No. 188	Splicing Wire Connectors	7/4	7.8/8.8/9.8	LOW-TEMPERATURE INSTALLATION
UL 486E	Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors	5	7.2/8.2/9.2	CURRENT-CYCLING
UL 486E	Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors	5	7.3/8.3/9.3	STATIC-HEATING SEQUENCE
UL 486E	Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors	5	7.4/8.4/9.4	MECHANICAL SEQUENCE

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	11.1.2	TEMPERATURE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	11.1.3	OVERLOAD TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	11.1.4	ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	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	10/1	11.1.6.1	MECHANICAL TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	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	10/1	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	10/1	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	10/1	15.2.1	SHUNT-TRIP RELEASE DEVICES - TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.2.2	SHUNT-TRIP RELEASE DEVICES - OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.2.3	SHUNT-TRIP RELEASE DEVICES - OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.2.4	SHUNT-TRIP RELEASE DEVICES - ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.2.5	SHUNT-TRIP RELEASE DEVICES - DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.3.1	UNDERVOLTAGE-TRIP RELEASE DEVICES - TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.3.2	UNDERVOLTAGE-TRIP RELEASE DEVICES - OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.3.3	UNDERVOLTAGE-TRIP RELEASE DEVICES - OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.3.4	UNDERVOLTAGE-TRIP RELEASE DEVICES - ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	15.3.5	UNDERVOLTAGE-TRIP RELEASE DEVICES - DIELECTRIC VOLTAGE-WITHSTAND TEST

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	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	10/1	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	10/1	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	10/1	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	10/1	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	10/1	7.1.3	OVERLOAD
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	7.1.4	TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	7.1.5	ENDURANCE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	7.1.6	CALIBRATION-REPEATED
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	7.1.7	INTERRUPTING
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	10/1	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	10/1	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	11.1.2	TEMPERATURE TEST
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	11.1.4	ENDURANCE 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	11.1.6.1	MECHANICAL 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

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
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	11.1.7.6	CONTACT OPENING 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	11.2	DRAW-OUT SWITCHES
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.2.1	SHUNT-TRIP RELEASE DEVICE-TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.2.2	SHUNT-TRIP RELEASE DEVICE-OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.2.3	SHUNT-TRIP RELEASE DEVICE-OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.2.4	SHUNT-TRIP RELEASE DEVICE-ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.2.5	SHUNT-TRIP RELEASE DEVICE-DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.1	UNDERVOLTAGE-TRIP RELEASE DEVICES-TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.2	UNDERVOLTAGE-TRIP RELEASE DEVICES-OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.3	UNDERVOLTAGE-TRIP RELEASE DEVICES-OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.4	UNDERVOLTAGE-TRIP RELEASE DEVICES-ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	12/3	15.3.5	UNDERVOLTAGE-TRIP RELEASE DEVICES-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	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	7.1.2.2	200 PERCENT CALIBRATION

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
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
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	7.3.1.5	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	SA5	VIBRATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	11.1.2	TEMPERATURE 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	11.1.4	ENDURANCE 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	11.1.6.1	MECHANICAL TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	11.2	DRAW-OUT SWITCHES

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.2.1	SHUNT-TRIP RELEASE DEVICE-TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.2.2	SHUNT-TRIP RELEASE DEVICE-OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.2.3	SHUNT-TRIP RELEASE DEVICE-OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.2.4	SHUNT-TRIP RELEASE DEVICE-ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.2.5	SHUNT-TRIP RELEASE DEVICE-DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.1	UNDERVOLTAGE-TRIP RELEASE DEVICES-TEMPERATURE
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.2	UNDERVOLTAGE-TRIP RELEASE DEVICES-OVERVOLTAGE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.3	UNDERVOLTAGE-TRIP RELEASE DEVICES-OPERATION TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.4	UNDERVOLTAGE-TRIP RELEASE DEVICES-ENDURANCE TEST
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	15.3.5	UNDERVOLTAGE-TRIP RELEASE DEVICES-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	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	7.1.2.2	200 PERCENT CALIBRATION
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.2.3	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	7.1.2.5	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

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
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
UL 489/CSA-C22.2 No. 5	Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	13/4	7.1.7	INTERRUPTING TEST
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	7.3.1.5	CALIBRATION TEST
UL 489A	Circuit Breakers for Use in Communications Equipment	1	09	CALIBRATION TEST
UL 489A	Circuit Breakers for Use in Communications Equipment	1	10	OVERLOAD TEST
UL 489A	Circuit Breakers for Use in Communications Equipment	1	11	TEMPERATURE
UL 489A	Circuit Breakers for Use in Communications Equipment	1	12	ENDURANCE TEST
UL 489A	Circuit Breakers for Use in Communications Equipment	1	13	INTERRUPTING TEST
UL 489A	Circuit Breakers for Use in Communications Equipment	1	14	HIGH AMBIENT CONDITIONING TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	10	ENDURANCE TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	11	TEMPERATURE TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	12	100 PERCENT CALIBRATOIN AT 50°C
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	13	LIMITED FAULT INTERRUPTING TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	14	STANDARD FAULT INTERRUPTING TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	15	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	20	ABNORMAL CURRENT OPENING TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	21	SHORT CIRCUIT CURRENT WITHSTAND TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	22	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 489B	Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	1	27	SHORT CIRCUIT CURRENT
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	10	ENDURANCE

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	11	TEMPERATURE
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	12	100 PERCENT CALIBRATION AT 50C
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	13	LIMITED FAULT INTERRUPTING
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	14	STANDARD FAULT INTERRUPTING
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	15	DIELECTRIC VOLTAGE-WITHSTAND
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	20	ABNORMAL CURRENT OPENING
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	21	SHORT CIRCUIT CURRENT WITHSTAND
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	22	DIELECTRIC VOLTAGE-WITHSTAND
UL 489B	Outline of Investigaton for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems	4	27	SHORT CIRCUIT CURRENT TEST
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.1	COMPARATIVE DEFLECTION (ENCLOSURE)
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.10	CRUSHING RESISTANCE
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.11	MOLD STRESS RELIEF
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.2	DEFLECTION (DOORS AND COVERS)
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.4	MULTIPLE KNOCKOUTS TEST
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.6.2	POLYMERIC ENCLOSURES - RIGID METALLIC CONDUIT CONNECTIONS - PULLOUT
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.6.3	POLYMERIC ENCLOSURES - RIGID METALLIC CONDUIT CONNECTIONS - TORQUE
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.6.4	POLYMERIC ENCLOSURES - RIGID METALLIC CONDUIT CONNECTIONS - BENDING
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.6.5	BREAKOUTS

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UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.7.2	TORQUE
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.7.3	BENDING MOMENT
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.8	METALLIC ENCLOSURE CONDUIT HUB TEST
UL 50/CSA-C22.2 No. 94.1	Enclosures for Electrical Equipment, Non-Environmental Considerations	13/2	8.9	ROD ENTRY TEST
UL 506	SPECIALTY TRANSFORMERS	12	28	HEATING
UL 506	SPECIALTY TRANSFORMERS	12	30	OVERLOAD
UL 506	SPECIALTY TRANSFORMERS	12	32	LIFTING OR MOUNTING MEANS
UL 506	Specialty Transformers	13	29	HEATING
UL 506	Specialty Transformers	14	34.2	OVERLOAD TEST
UL 506	Specialty Transformers	14	29	HEATING TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	113	HUB AND NIPPLE TESTS
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	114	FLOAT SWITCH TESTS
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	137	AUXILIARY DEVICES - OVERLOAD
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	138	AUXILIARY DEVICES - ENDURANCE
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	160	LOCKED ROTOR ENDURANCE TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	161	PART WINDING ENDURANCE TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	173B	INPUT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	174A	NORMAL OPERATION TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	174B	ABNORMAL OPERATION PAR. 174B
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	174C	BURNOUT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	174D	INOPERATIVE BLOWER MOTOR TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	190	IMPEDANCE TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	206.2	PROXIMITY SWITCHES - POWER SUPPLY CORD - TENSILE STRENGTH AND ELONGATION
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	206.3	PROXIMITY SWITCHES - POWER SUPPLY CORD - OVEN CONDITIONING
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	207.2	PROXIMITY SWITCHES - CABLE GLAND CONNECTOR - OVEN CONDITIONING (RUBBER COMPOSITION)
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	207.3	PROXIMITY SWITCHES - CABLE GLAND CONNECTOR - OVEN CONDITIONING (THERMOPLASTIC COMPOSITION)
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	207.5	STRAIN RELIEF
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	209	TESTS FOR ENVIROMENTAL ENCLOSURES
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	43	TEMPERATURE
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	44	OVERVOLTAGE AND UNDERVOLTAGE TEST
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 508	INDUSTRIAL CONTROL EQUIPMENT	17	52	HIGH AVAILABLE FAULT CURRENT CIRCUITS
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	55	TRANSIENT-VOLTAGE-SURGE SUPPRESSION
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	56	ACCELERATED AGING
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	57	BREAKDOWN OF COMPONENTS
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	57B	PUSH-BACK RELIEF
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	58	WIRE FLEXING
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	6.6.4	BOND WIRE
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	6.7	RESISTANCE MEASUREMENT
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	60	PRINTED WIRING BOARD ABNORMAL OPERATION
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	61	SECONDARY CIRCUITS TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	73F	MAGNETIC TRIP OUT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	79	CURRENT WITHSTAND TEST

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	79	CONTACTOR OVERLOAD TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	80	VOLTAGE WITHSTAND TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	81	MAGNETIC TRIP OUT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	82	COMBINATION CIRCUIT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	85	HIGH AVAILABLE SHORT CIRCUIT CURRENT TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	86	COORDINATION TEST
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	9	SECUREMENT OF SNAP-ON COVER
UL 508	INDUSTRIAL CONTROL EQUIPMENT	17	90	OPERATION TEST
UL 508	Industrial Control Equipment	18	10	SECUREMENT OF SNAP-ON COVER TEST
UL 508	Industrial Control Equipment	18	100	COMBINATION MOTOR CONTROLLERS - VOLTAGE-WITHSTAND
UL 508	Industrial Control Equipment	18	101	COMBINATION MOTOR CONTROLLERS - MAGNETIC TRIP OUT
UL 508	Industrial Control Equipment	18	102	COMBINATION MOTOR CONTROLLERS - COMBINATION SHORT CIRCUIT
UL 508	Industrial Control Equipment	18	106	HIGH AVAILABLE SHORT CIRCUIT CURRENT
UL 508	Industrial Control Equipment	18	107	COORDINATION
UL 508	Industrial Control Equipment	18	111	OPERATION
UL 508	Industrial Control Equipment	18	135	HUB AND NIPPLE
UL 508	Industrial Control Equipment	18	136	FLOAT SWITCH
UL 508	Industrial Control Equipment	18	159	OVERLOAD TEST (PILOT DUTY)
UL 508	Industrial Control Equipment	18	160	ENDURANCE (PILOT DUTY)
UL 508	Industrial Control Equipment	18	182	LOCKED ROTOR ENDURANCE TEST
UL 508	Industrial Control Equipment	18	183	PART WINDING ENDURANCE TEST
UL 508	Industrial Control Equipment	18	198	INPUT TEST
UL 508	Industrial Control Equipment	18	200	NORMAL OPERATION
UL 508	Industrial Control Equipment	18	201	ABNORMAL OPERATION
UL 508	Industrial Control Equipment	18	202	BURNOUT TEST
UL 508	Industrial Control Equipment	18	203	INOPERATIVE BLOWER MOTOR
UL 508	Industrial Control Equipment	18	218	IMPEDANCE
UL 508	Industrial Control Equipment	18	227.2	PROXIMITY SWITCHES - POWER SUPPLY CORD - TENSILE STRENGTH AND ELONGATION
UL 508	Industrial Control Equipment	18	227.3	PROXIMITY SWITCHES - POWER SUPPLY CORD - OVEN CONDITIONING
UL 508	Industrial Control Equipment	18	228	CABLE GLAND CONNECTOR TEST
UL 508	Industrial Control Equipment	18	229	PROXIMITY SWITCHES - STRAIN RELIEF
UL 508	Industrial Control Equipment	18	230	TESTS FOR ENVIRONMENTAL TYPE ENCLOSURES
UL 508	Industrial Control Equipment	18	45	TEMPERATURE TEST
UL 508	Industrial Control Equipment	18	46	OVERVOLTAGE AND UNDERVOLTAGE
UL 508	Industrial Control Equipment	18	47	OVERLOAD TEST
UL 508	Industrial Control Equipment	18	49	ENDURANCE
UL 508	Industrial Control Equipment	18	50	CALIBRATION
UL 508	Industrial Control Equipment	18	51.2	DIELECTRIC VOLTAGE-WITHSTAND - COILS
UL 508	Industrial Control Equipment	18	52	SHORT CIRCUIT - GENERAL
UL 508	Industrial Control Equipment	18	54	HIGH-AVAILABLE FAULT CURRENT CIRCUITS (OPTIONAL)
UL 508	Industrial Control Equipment	18	58	TRANSIENT-VOLTAGE-SURGE SUPPRESSION
UL 508	Industrial Control Equipment	18	59	ACCELERATED AGING
UL 508	Industrial Control Equipment	18	60	BREAKDOWN OF COMPONENTS TEST
UL 508	Industrial Control Equipment	18	62	PUSH-BACK RELIEF
UL 508	Industrial Control Equipment	18	63	WIRE FLEXING
UL 508	Industrial Control Equipment	18	64	PRINTED WIRING BOARD ABNORMAL OPERATION TEST
UL 508	Industrial Control Equipment	18	65	SECONDARY CIRCUITS TEST
UL 508	Industrial Control Equipment	18	7.6	BONDING
UL 508	Industrial Control Equipment	18	7.7	RESISTANCE MEASUREMENT
UL 508	Industrial Control Equipment	18	89	MANUAL MOTOR CONTROLLERS - MAGNETIC TRIP OUT TEST
UL 508	Industrial Control Equipment	18	98	COMBINATION MOTOR CONTROLLERS - CURRENT WITHSTAND
UL 508	Industrial Control Equipment	18	99	COMBINATION MOTOR CONTROLLERS - CONTACTOR OVERLOAD
UL 508C	POWER CONVERSION EQUIPMENT	3	40	TEMPERATURE
UL 508C	POWER CONVERSION EQUIPMENT	3	41.2	CONTACTOR OVERLOAD

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 508C	POWER CONVERSION EQUIPMENT	3	41.3	SINGLE PHASING
UL 508C	POWER CONVERSION EQUIPMENT	3	41.4	INOPERATIVE BLOWER MOTOR
UL 508C	POWER CONVERSION EQUIPMENT	3	41.5	CLOGGED FILTER
UL 508C	POWER CONVERSION EQUIPMENT	3	41.6	CURRENT LIMITING CONTROL
UL 508C	POWER CONVERSION EQUIPMENT	3	43	SOLID STATE MOTOR OVERLOAD PROTECTION
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	46	CALIBRATION OF SHORT CIRCUIT TEST CIRCUITS
UL 508C	POWER CONVERSION EQUIPMENT	3	47	SHORT CIRCUIT - HIGH FAULT CURRENTS
UL 508C	POWER CONVERSION EQUIPMENT	3	48	TRANSIENT-VOLTAGE-SURGE SUPPRESSION
UL 508C	POWER CONVERSION EQUIPMENT	3	49	ACCELERATED AGING
UL 508C	POWER CONVERSION EQUIPMENT	3	50	BREAKDOWN OF COMPONENTS
UL 508C	POWER CONVERSION EQUIPMENT	3	52	PRINTED WIRING BOARD ABNORMAL OPERATION
UL 508C	POWER CONVERSION EQUIPMENT	3	6.6.4	BONDING - BOND WIRE
UL 508C	POWER CONVERSION EQUIPMENT	3	6.7	RESISTANCE MEASUREMENT
UL 508C	Power Conversion Equipment	4	40	TEMPERATURE
UL 508C	Power Conversion Equipment	4	41.2	CONTACTOR OVERLOAD
UL 508C	Power Conversion Equipment	4	41.3	SINGLE PHASING
UL 508C	Power Conversion Equipment	4	41.4	INOPERATIVE BLOWER MOTOR
UL 508C	Power Conversion Equipment	4	41.5	CLOGGED FILTER
UL 508C	Power Conversion Equipment	4	41.6	CURRENT LIMITING CONTROL
UL 508C	Power Conversion Equipment	4	43	SOLID STATE MOTOR OVERLOAD PROTECTION
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	50	ACCELERATED AGING TEST
UL 508C	Power Conversion Equipment	4	51	BREAKDOWN OF COMPONENTS
UL 508C	Power Conversion Equipment	4	54	PRINTED WIRING BOARD ABNORMAL OPERATION
UL 508C	Power Conversion Equipment	4	6.6.4	BONDING - BOND WIRE
UL 508C	Power Conversion Equipment	4	6.7	RESISTANCE MEASUREMENT
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.10	SUBMERSION
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.11	SUBMERSION TEST
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.12	OIL EXCLUSION
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.13	GASKET TESTS
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.14	ROD ENTRY TEST
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.15	MISALIGNMENT
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.16/ ANNEX D	WATER EXPOSURE AND IMMERSION

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.2	DRIP
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.3	RAIN
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.4	ATOMIZED WATER (DUST ALTERNATIVE TEST)
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.5	EXTERNAL ICING TEST
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.6	HOSEDOWN
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.7	INDOOR CORROSION PROTECTION
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.8	OUTDOOR CORROSION PROTECTION
UL 50E/CSA-C22.2 No. 94.2	Enclosures for Electrical Equipment, Environmental Considerations	2	8.9	ADDITIONAL CORROSION FOR TYPE 4X AND 6P
UL 60947-1/CSA-C22.2 No. 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5/2	8.3.3.4	DIELECTRIC PROPERTIES
UL 60947-1/CSA-C22.2 No. 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5/2	8.3.5DV.1	WIRE FLEXING TEST
UL 60947-1/CSA-C22.2 No. 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5/2	8.3.6DV.1	BREAKDOWN OF COMPONENTS TEST
UL 60947-1/CSA-C22.2 No. 60947-1	Low-Voltage Switchgear and Controlgear - Part 1: General Rules	5/2	DVC.2 (Annex DVC)	SECONDARY CIRCUITS TEST
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	8.2.1.2	LIMITS OF OPERATION OF CONTACTORS AND POWER-OPERATED STARTERS
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	8.2.1.5	LIMITS OF OPERATION OF CURRENT OPERATED RELAYS AND RELEASES
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.3.3 AND 8.2.2DV	TEMPERATURE TEST
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.3.4DV	DIELECTRIC VOLTAGE WITHSTAND
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.3.5.5DV	OVERLOAD TEST
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.3.6DV.1	ENDURANCE TEST (MANUAL MOTOR CONTROLLER FOR USE AS STARTER

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.3.6DV.6.1	OPERATION TEST (REDUCED VOLTAGE STARTER)
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	9.3.4	PERFORMANCE UNDER SHORT-CIRCUIT CONDITIONS
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	DVC.5.1.13	MAGNETIC TRIP OUT TEST (MMC / SPCMC)
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	DVC.5.1.2	CONTACTOR OVERLOAD TEST (CMC)
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	DVC.5.1.5	CURRENT WITHSTAND TEST
UL 60947-4-1/CSA-C22.2 No. 60947-4-1	Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters	3/2	DVC.5.1.6	OVERLOAD AND SHORT CIRCUIT COORDINATION
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	9.3.3.3	TEMPERATURE
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	9.3.3.3	OVERVOLTAGE AND UNDERVOLTAGE
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	9.3.3.4	DIELECTRIC
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	9.3.3.5DV	OVERLOAD/ENDURANCE
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	9.3.4DV	SHORT CIRCUIT
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVB	BREAKDOWN OF COMPONENTS
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVE.2	CONTROLLER OVERLOAD
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVE.3	SINGLE PHASING
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVE.4	INOPERATIVE BLOWER MOTOR
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVE.5	CLOGGED FILTER
UL 60947-4-2/CSA-C22.2 No. 60947-4-2	Voltage Switchgear and Controlgear - Part 4-2: Contactors and Motor-Starters - AC Semiconductor Motor Controllers and Starters	1	ANNEX DVE.6	CURRENT LIMITING CONTROL

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UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	10.1-10.4	NORMAL TEMPERATURE TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	10.5.1	INTEGRITY OF CLEARANCES AND CREEPAGE DISTANCES
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	10.5.2	NONMETALLIC ENCLOSURE
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	11.2	CLEANING TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	11.3	SPILLAGE
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	11.4	OVERFLOW
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	13.2.2	BATTERY ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	14.3	OVER TEMPERATURE PROTECTIVE DEVICES
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	14.8	CIRCUITS AND COMPONENTS USED AS TRANSIENT OVERVOLTAGE LIMITING DEVICES
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	15.2	PREVENTION OF REACTIVATING
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	15.3	INTERLOCK RELIABILITY
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.1	COMPONENT ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.10	COOLING ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.11	HEATING DEVICE ABNORMAL

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UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.12	INSULATION BETWEEN CIRCUITS AND PARTS ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.13	INTERLOCK ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.14	SUPPLY VOLTAGE SELECTOR
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.2	PROTECTIVE IMPEDANCE
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.3	PROTECTIVE CONDUCTOR ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.4	SHORT TERM / INTERMITTENT DUTY ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.5	MOTOR ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.6	CAPACITOR SHORT ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.7.2	MAINS TRANSFORMER SHORT CIRCUIT ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.7.3	MAINS TRANSFORMER OVERLOAD ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.8	OUTPUT ABNORMAL TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	4.4.2.9	MULTI-SUPPLY ABNORMAL
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	5.1.3	MAINS SUPPLY
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	5.3	DURABILITY OF MARKING TEST

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UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.10.2.2	CORD ANCHORAGE TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.10.3	PLUGS AND CONNECTORS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.2	DETERMINATION OF ACCESSIBLE PARTS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.3.1	LIMIT VALUES FOR ACCESSIBLE PARTS(SINGLE FAULT CONDITIONS)
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.3.2	LIMIT VALUES FOR ACCESSIBLE PARTS(SINGLE FAULT CONDITIONS)
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.5.2.3J	TIGHTNING TORQUE TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.5.2.4 AND 6.5.2.5	GROUNDING CONTINUITY TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.5.2.6	TRANSFORMER PROTECTIVE BONDING SCREEN TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.7, ANNEX K	INSULATION REQUIREMENTS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.8	DIELECTRIC VOLTAGE WITHSTAND
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.8	PROCEDURE FOR VOLTAGE TESTS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	6.8.2	HUMIDITY PRECONDITIONING TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.2	SHARP EDGES
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.3.4	LIMITATION OF FORCE AND PRESSURE

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UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.3.5.1	GAP LIMITATIONS BETWEEN MOVING PARTS - ACCESS NORMALLY ALLOWED
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.3.5.2	GAP LIMITATIONS BETWEEN MOVING PARTS - ACCESS NORMALLY PREVENTED
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.4	STABILITY 10 DEGREE
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.4	STABILITY 1 METER
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.5.2	HANDLES AND GRIPS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.5.3	LIFTING DEVICES AND SUPPORTING PARTS
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	7.6	WALL MOUNTING
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	8.2.1	STATIC TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	8.2.2	IMPACT
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	8.3.1	DROP TEST OTHER THAN HAND-HELD AND DIRECT PLUG-IN
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	8.3.2	DROP TEST HAND-HELD AND DIRECT PLUG-IN
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	9.4	LIMITED ENERGY CIRCUIT DETERMINATION TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	ANNEX H	QUALIFICATION OF CONFORMAL COATINGS FOR PROTECTION AGAINST POLLUTION
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	DVD.4.1	CONDUIT PULL OUT TEST

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UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	DVD.4.2	CONDUIT TORQUE TEST
UL 61010-1/ CSA-C22.2 No. 61010-1	Electrical Equipment for Measurement, Control, and Laboratory - Part 1: General Requirements	3	DVD.4.3	BENDING TEST
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	10.1-10.4	TEMPERATURE TEST
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	4.4	SINGLE FAULT CONDITION
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	4.4.1.101.1, 4.4.1.101.2	OVERLOAD AND ENDURANCE TEST - PILOT DUTY LOADS
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	4.4.1.101.1, 4.4.1.101.2	OVERLOAD AND ENDURANCE TEST - GENERAL USE AND RESISTIVE LOADS
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	6.2	DETERMINATION OF ACCESSIBLE PARTS
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	6.5.2.4, 6.5.2.5	GROUNDING CONTINUITY TEST
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	6.5.2.6	TRANSFORMER PROTECTIVE BONDING SCREEN TEST
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	6.7, ANNEX K	INSULATION REQUIREMENTS
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	6.8	DIELECTRIC VOLTAGE WITHSTAND
UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	8.2.2	IMPACT TEST

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UL 61010-2-030/CSA-C22.2 No. 61010-2-030	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-030: Particular Requirements for Testing and Measuring Circuits	1	8.3.1	DROP TEST OTHER THAN HAND-HELD EQUIPMENT AND DIRECT PLUG-IN EQUIPMENT
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	10.1 - 10.4	TEMPERATURE TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	4.4	TESTING IN SINGLE FAULT CONDITION
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	4.4.1.101.1	OVERLOAD TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	4.4.1.101.2	ENDURANCE TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	6.2	DETERMINATION OF ACCESSIBLE PARTS
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	6.5.2.4 AND 6.5.2.5	GROUNDING CONTINUITY TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	6.5.2.6	TRANSFORMER PROTECTIVE BONDING SCREEN
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	6.7, ANNEX K	INSULATION REQUIREMENTS
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	6.8	PROCEDURE FOR VOLTAGE TESTS
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	8.2.2	IMPACT
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	1	8.3.1	DROP TEST OTHER THAN HAND-HELD EQUIPMENT AND DIRECT PLUG-IN EQUIPMENT
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	4.4.2.101.1	OVERLOAD TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	4.4.2.101.2	ENDURANCE TEST
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	8.2.2	IMPACT
UL 61010-2-201	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular Requirements for Control Equipment	2	8.3	DROP TEST
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.1	VISUAL INSPECTION
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

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UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.1	CLEARANCES AND CREEPAGE DISTANCES
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.2	PWB SHORT-CIRCUIT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.3	NON-ACCESSIBILITY
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.4	ENCLOSURE INTEGRITY
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.5	DEFORMATION TESTS
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.5.2	DEFLECTION
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.2.5.3	IMPACT
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	5.2.3.4	PROTECTIVE IMPEDANCE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.5	TOUCH CURRENT MEASUREMENT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.6.2.1DV.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	5.2.3.6DV.1.5	BREAKDOWN OF COMPONENTS 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.1.6	BREAKDOWN OF COMPONENTS TEST – GROUP INSTALLATION FOR HIGH FAULT CURRENT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.7	CAPACITOR DISCHARGE TEST
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.8	TEMPERATURE RISE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.3.9	PROTECTIVE BONDING
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.4	LOSS OF PHASE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.2	INOPERATIVE BLOWER
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.3	CLOGGED FILTER
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.4	LOSS OF COOLANT
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

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UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.4.5.6DV	CURRENT LIMITING CONTROL
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.5.1	HIGH CURRENT ARCING IGNITION
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.5.2	GLOW-WIRE
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.5.4	MATERIAL TEST - FLAMMABILITY
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.6.3.1	ENVIRONMENTAL TESTS - DRY HEAT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.6.3.2	ENVIRONMENTAL TESTS - DAMP HEAT
UL 61800-5-1	Adjustable Speed Electrical Power Drive Systems Part 5-1: Safety Requirements - Electrical, Thermal and Energy	1	5.2.6.4	ENVIRONMENTAL TESTS - VIBRATION
UL 67	Panelboards	12	19	TEMPERATURE TEST
UL 67	Panelboards	12	20	RAIN TEST
UL 67	Panelboards	12	21	STRENGTH OF INSULATING BASE AND SUPPORT TEST
UL 67	Panelboards	12	22	MOLD STRESS RELIEF TEST
UL 67	Panelboards	12	23	SHORT-CIRCUIT CURRENT TEST
UL 67	Panelboards	12	24	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 67	Panelboards	12	25	BONDING RESTISTANCE TEST
UL 67	Panelboards	13	21	TEMPERATURE
UL 67	Panelboards	13	22	RAIN
UL 67	Panelboards	13	23	STRENGTH OF INSULATING BASE AND SUPPORT
UL 67	Panelboards	13	24	MOLD STRESS RELIEF
UL 67	Panelboards	13	25	SHORT-CIRCUIT CURRENT
UL 67	Panelboards	13	26	DIELECTRIC VOLTAGE-WITHSTAND
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	15, 50	FLAMMABILITY - 12 MM FLAME
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	16, 51	FLAMMABILITY - 20 MM (3/4 INCH) FLAME
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	17, 52	FLAMMABILITY - 127 MM (5 INCH) FLAME
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	21, 55	CRUSHING RESISTANCE
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	22, 56	RESISTANCE TO IMPACT
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	29, 61	MOLD STRESS-RELIEF DISTORTION
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	31	STRAIN-RELIEF TEST AFTER MOLD STRESS-RELIEF DISTORTION
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	7	73	GLOW-WIRE END-PRODUCT TEST
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	15,50	FLAMMABILITY - 12 MM FLAME
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	16,51	FLAMMABILITY - 20 MM (3/4-INCH) FLAME
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	17,52	FLAMMABILITY - 127 MM (5 INCH) FLAME
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	21,55	CRUSHING RESISTANCE
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	22,56	RESISTANCE TO IMPACT TEST
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	29,61	MOLD STRESS-RELIEF DISTORTION
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	31	STRAIN-RELIEF TEST AFTER MOLD STRESS-RELIEF DISTORTION
UL 746C	POLYMERIC MATERIALS-USE IN ELECTRICAL EQUIPMENT EVALUATIONS	6	73	GLOW-WIRE END-PRODUCT

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UL 845/CSA-C22.2 No. 254	Motor Control Centers	5/1	9.4	OVERVOLTAGE AND UNDERVOLTAGE
UL 845/CSA-C22.2 No. 254	Motor Control Centers	5/1	9.5	DIELECTRIC VOLTAGE-WITHSTAND TESTS (AFTER TEMPERATURE-RISE TEST OR OVERVOLTAGE/UNDERVOLTAGE)
UL 857	Busways	13	8.2.1	VERIFICATION OF TEMPERATURE-RISE LIMITS
UL 857	Busways	13	8.2.2	VERIFICATION OF DIELECTRIC VOLTAGE WITHSTAND
UL 857	Busways	13	8.2.3	VERIFICATION OF SHORT-CIRCUIT WITHSTAND STRENGTH
UL 857	Busways	13	8.2.4	VERIFICATION OF ELECTRICAL CONDUCTIVITY
UL 857	Busways	13	8.2.7.1	VERIFICATION OF BENDING RESISTANCE
UL 857	Busways	13	8.2.7.2	VERIFICATION OF IMPACT STRENGTH
UL 857	Busways	13	8.2.7.3	VERIFICATION OF CRUSHING RESISTANCE
UL 891	DEAD-FRONT SWITCHBOARDS	11	9.2.3.5	AFTER SHORT CIRCUIT DIELECTRIC
UL 891	DEAD-FRONT SWITCHBOARDS	11	9.2.4	SHORT CIRCUIT
UL 935	FLUORESCENT-LAMP BALLASTS	10	34	LIMITED SHORT-CIRCUIT
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	6	7	HORIZONTAL BURNING: HB
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	6	8	50 W (20 MM) VERTICAL BURNING: V-0, V-1, V-2
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	6	9	500 W (125 MM) VERTICAL BURNING: 5VA OR 5VB
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.2	HEATING TEST
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.3	OVERLOAD TEST
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.4	ENDURANCE TEST
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.5	DIELECTRIC VOLTAGE-WITHSTAND TEST
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.7	SHORT-CICUIT WITHSTAND TEST
UL 98	ENCLOSED AND DEAD-FRONT SWITCHES	13	7.9	SHORT-CIRCUIT CLOSING TEST
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.2	HEATING
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.3	OVERLOAD
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.4	ENDURANCE
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.5	DIELECTRIC VOLTAGE WITHSTAND
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.7	CLOSE-OPEN
UL 98/CSA-C22.2 No. 4	Enclosed and Dead-Front Switches	14/8	7.9	LOW LEVEL DIELECTRIC VOLTAGE WITHSTAND
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	2	7.11	VERIFICATION OF SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	2	7.9	VERIFICATION OF DIELECTRIC PROPERTIES
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IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	2	7.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	2	7.13	VERIFICATION OF MECHANICAL OPERATION
IEC 61921	Power Capacitors - Low-Voltage Power Factor Correction Banks	2	7.1	VERIFICATION OF TEMPERATURE-RISE LIMITS
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		10	VOLTAGE WITHSTAND TEST
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		5	TEMPERATURE TEST
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		6	OVERLOAD TEST
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		7	ENDURANCE TEST
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		8	DIELECTRIC VOLTAGE WITHSTAND TEST
UL Subject 508I	Outline of Investigation for Manual Disconnect Switches for Use in Photovoltaic Systems		9	SHORT CIRCUIT TEST
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.1	VERIFICATION OF TEMPERATURE RISE
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.11	SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.12	ELECTROMAGNETIC COMPATIBILITY (EMC)
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.13	MECHANICAL OPERATION
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.2	RESISTANCE TO CORROSION
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.3.1	THERMAL STABILITY
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.3.2	RESISTANCE TO ABNORMAL HEAT AND FIRE DUE TO INTERNAL ELECTRIC EFFECTS
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.5	LIFTING
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.6	MECHANICAL IMPACT
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.2.7	MARKING
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.3	DEGREE OF PROTECTION OF ENCLOSURES
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61439-1	Low-Voltage Switchgear and Controlgear Assemblies - Part 1: General Rules	2020	10.9	DIELECTRIC PROPERTIES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.1	VERIFICATION OF TEMPERATURE RISE
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.11	SHORT-CIRCUIT WITHSTAND STRENGTH
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.12	ELECTROMAGNETIC COMPATIBILITY (EMC)
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.13	MECHANICAL OPERATION
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.2	RESISTANCE TO CORROSION
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.3.1	THERMAL STABILITY
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.3.2	RESISTANCE TO ABNORMAL HEAT AND FIRE DUE TO INTERNAL ELECTRIC EFFECTS

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IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.5	LIFTING
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.6	MECHANICAL IMPACT
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.2.7	MARKING
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.3	DEGREE OF PROTECTION OF ENCLOSURES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.4	CLEARANCES AND CREEPAGE DISTANCES
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.5	PROTECTION AGAINST ELECTRIC SHOCK AND INTEGRITY OF PROTECTIVE CIRCUITS
IEC 61439-2	Low-Voltage Switchgear and Controlgear Assemblies - Part 2: Power Switchgear and Controlgear Assemblies	2020	10.9	DIELECTRIC PROPERTIES
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	7.1.3	CLEARANCES AND CREEPAGE DISTANCES
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.2.5	VERIFICATION OF ACTUATING FORCE (OR MOMENT)
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.2.6	VERIFICATION OF LIMITATION OF ROTATION (OF A ROTARY SWITCH)
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.3.3.2	OPERATING LIMITS OF CONTACTOR RELAYS
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.3.3.3	TEMPERATURE RISE
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.3.3.4	DIELECTRIC PROPERTIES TEST
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.3.3.5	MAKING AND BREAKING CAPACITIES
UL 60947-5-1/CSA-C22.2 No. 60947-5-1	Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices	3/1	8.3.4	PERFORMANCE UNDER CONDITIONAL SHORT-CIRCUIT CURRENT