



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NATIONAL ELECTRIC ENERGY TESTING RESEARCH & APPLICATION CENTER

Nicholas J. Conrad Laboratory

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ELECTRICAL

Valid to: November 30, 2022

Certificate Number: 3349.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electrical tests on reclosers, fault interrupters, switches, fuses and switchgear:

Test Type/Test Parameters ¹:

Test Method(s):

Line Charging
Up to 52 kV
1 to 10 Amps

IEC 62271-111:2019, Sub-clause 7.101;
IEEE Std. C37.60-2018, Sub-clause 7.101;
IEC 62271-100:2017, Sub clause 6.111;
IEEE Std. 1247-2005, Sub-clause 8.3.2.4

Cable Charging
Up to 52 kV
1 to 40 Amps

IEC 62271-111:2019, Sub-clause 7.101;
IEEE Std. C37.60-2018, Sub-clause 7.101;
IEEE Std. C37.74-2014, Sub-clause 6.7.5.6;
IEC 62271-100:2017, Sub clause 6.111;
IEEE Std. 1247-2005, Sub-clause 8.3.2.3

Interrupting
Up to 52 kV
Up to 40 kA

IEC 62271-111:2019, Sub-clause 7.103;
IEEE Std. C37.60-2018, Sub-clause 7.103;
IEC62271-100:2017, Sub clause 6.108

Fault-making
Up to 52 kV
Up to 63 kA

IEC 62271-111:2019, Sub-clause 7.102;
IEEE Std. C37.60-2018, Sub-clause 7.102;
IEEE Std. C37.74-2014, Sub-clause 6.7.4.6;
IEEE Std. 1247-2005, Sub-clause 8.5

Short Time and Peak Withstand
Up to 63 kA

IEC 62271-1:2017, Sub-clause 7.6;
IEC 62271-102:2018, Sub-clause 7.6;
IEC 62271-103:2011, Sub-clause 6.6;
IEC 62271-111:2019, Sub-clause 7.6;
IEEE Std. C37.60-2018, Sub-clause 7.6;
IEC 62271-200: 2011, Sub-clause 6.6;
IEC 62271-201: 2014, Sub-clause 6.6;

Test Type/Test Parameters ¹:

Test Method(s):

Short Time and Peak Withstand (*cont.*)
Up to 63 kA

IEEE Std. C37.74-2014, Sub-clause 6.7.4.3;
IEEE Std. C37.74-2014, Sub-clause 6.7.4.5;
IEC 62271-100:2017, Sub clause 6.6;
IEEE Std. 1247-2005, Sub-clause 8.4.2;
IEEE Std. 1247-2005, Sub-clause 8.4.3

Load and Loop Switching
(Making and Breaking)
Up to 52 kV
Up to 2 kA

IEC 62271-103:2011, Sub-clause 6.101;
IEC 62271-201:2014, Sub-clause 6.101;
IEEE Std. C37.74-2014, Sub-clause 6.7.5.4;
IEEE Std. C37.74-2014, Sub-clause 6.7.5.5;
IEC 62271-100:2017, Sub clauses 6.102 to 6.106;
IEEE Std. 1247-2005, Sub-clause 8.3.2.1;
IEEE Std. 1247-2005, Sub-clause 8.3.2.2

Breaking
Up to 40 kA

IEC 60282-2:2008, Sub-clause 8.6

Critical Current
Up to 40 kA

IEC 62271-111:2019, Sub-clause 7.104;
IEEE Std. C37.60-2018, Sub-clause 7.104

¹ This laboratory also uses customer supplied specifications and/or methods directly related to the testing technologies and parameters listed above.



Accredited Laboratory

A2LA has accredited

NATIONAL ELECTRIC ENERGY TESTING RESEARCH & APPLICATION CENTER

Chicago, IL

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 30th day of November 2020.

A blue ink signature of a person, written over a horizontal line.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3349.01
Valid to November 30, 2022

For the types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.