



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NOJA POWER SWITCHGEAR PTY LTD.
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ELECTRICAL

Valid To: January 31, 2025

Certificate Number: 6056.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following electrical and mechanical tests:

Test Type/Technology:

Test Methods¹:

Dielectric²

Power Frequency voltage

Up to 200 kV, 200 mA, 50/60 Hz

IEC 60060-1; IEC 62271-1;
IEC 62271-100, -103, -111; IEC 60137;
IEC 61869-1, -3

Lightning Impulse voltage

600 kV, 60 kJ

IEC 60060-1; IEC 62271-1;
IEC 62271-100, -103, -111; IEC 61869-1;
IEC 60137

Partial Discharge

(1–100) pC

IEC 60270; IEC 62271-1;
IEC 62271-111; IEC 60137; IEC 61869-1

Contact Resistance Measurement²

(100–1000) $\mu\Omega$ at 1A

(50–500) $\mu\Omega$ at 10A

(50–500) $\mu\Omega$ at 100

IEC 62271-1;
IEC 62271-100, -103, -111

Minimum Tripping Current

IEC 62271-111

Over/Under Current Protection

IEC 60255-151

Over/Under Voltage Protection

IEC 60255-127

Frequency Protection

IEC 60255-181

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Controller Characteristics

NOJA-3327

Measuring / Protection Injection Testing²

Voltage Testing - (0 – 300) V
Current Testing - (0 – 30) A
Phase Angle Testing - (0 – 360) °
Frequency Testing - (0 – 10) kHz

NOJA-3331

Simulated Surge Arrestor Operation²

Up to 7kA, 160kV

IEC 62271-111

Protocol Testing

IEC 61850 Ed 2.0 & Ed 2.1, Parts 6, 7-1, 7-2, 7-3, 7-4, and 8-1

MECHANICAL**Test Type/Technology:****Test Methods¹:****Environmental Chamber²**

(Cold, Dry and Damp Heat Cycle)
Temperature: (-65 to +110) °C
Relative Humidity: (10 to 95) %

IEC 60068-2-1; IEC 60068-2-2;
IEC 60068-2-30**Mechanical Operation**IEC 62271-1;
IEC 62271-100, -103, -111**Temperature Rise / Continuous Current**

Single-phase / Three-phase up to
3000 A, 50/60 Hz

IEC 62271-1; IEC 61869-1, -3;
IEC 62271-100, -103, -111; IEC 60137**Salt Fog (1000 Hr)²**

Test Voltage: (2 to 30) kV

IEC 62217

Degrees of Protection Against Mechanical Impacts (IK)²

IK 08, IK 09, IK 10

IEC 62262

Types of products, materials, and/or industry that the laboratory tests:

Testing Products
Automatic Circuit Reclosers
Circuit Breakers
Disconnectors
Load Break Switches
Voltage Transformers
Insulated Bushings
Measuring / Protection Relays
Enclosures

¹ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of *A2LA R101 - General Requirements - Accreditation of ISO-IEC 17025 Laboratories*.

² Also using customer specifications directly related to the types of test parameters listed above.



Accredited Laboratory

A2LA has accredited

NOJA POWER SWITCHGEAR PTY LTD

Brisbane, AUSTRALIA

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 29th day of June 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6056.01
Valid to January 31, 2025

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