



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NOJA POWER SWITCHGEAR PTY LTD.  
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ELECTRICAL

Valid To: April 30, 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 Methods<sup>1</sup>:**

**Dielectric<sup>2</sup>**

**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 Measurement<sup>2</sup>**

(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

(A2LA Cert No. 6056.01) Revised 01/21/2025

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<b>Controller Characteristics</b>	NOJA-3327
<b>Measuring / Protection Injection Testing<sup>2</sup></b>	
Voltage Testing - (0 – 300) V	NOJA-3331
Current Testing - (0 – 30) A	
Phase Angle Testing - (0 – 360) °	
Frequency Testing - (0 – 10) kHz	
<b>Simulated Surge Arrestor Operation<sup>2</sup></b>	IEC 62271-111
Up to 7kA, 160kV	
<b>Protocol Testing</b>	IEC 61850 Ed 2.0 & Ed 2.1, Parts 6, 7-1, 7-2, 7-3, 7-4, and 8-1

MECHANICAL

<b><u>Test Type/Technology:</u></b>	<b><u>Test Methods<sup>1</sup>:</u></b>
<b>Environmental Chamber<sup>2</sup></b> (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
<b>Mechanical Operation</b>	IEC 62271-1; IEC 62271-100, -103, -111
<b>Temperature Rise / Continuous Current</b> 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
<b>Salt Fog (1000 Hr)<sup>2</sup></b> Test Voltage: (2 to 30) kV	IEC 62217
<b>Degrees of Protection Against Mechanical Impacts (IK)<sup>2</sup></b> 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

<sup>1</sup> 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*.

<sup>2</sup> 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 29<sup>th</sup> day of June 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 6056.01  
Valid to April 30, 2025  
Revised January 21, 2025

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