

# Scope of Accreditation

(Measurement Method)

Accreditation Number : VLAC-038  
Expiration Date : November 26, 2023

[Name of Laboratory]

**SOSHIN ELECTRIC CO., LTD.**

[Test site name]

**Asama Testing Lab.**

[Test site Address]

**800-38 Nagatoro, Saku City, Nagano 385-0021 Japan**

[Measurement Method]

## Emission test

**Radiated disturbance : Enclosure Port**

**Disturbance electric field test**

[Test condition] On the reference ground plane Measurement distance : 3m/10m

Measurement Frequency Range : 30 MHz - 1 GHz

[Test condition] Quasi Free Space

Measurement Frequency Range : 1 GHz – 18 GHz

**Disturbance magnetic field strength measurement**

[Test condition] Loop Antenna

**Conducted disturbance Measurement: AC mains port / DC power line port**

Voltage Measurement [Test condition] AMN, High impedance probe

**Conducted disturbance Measurement: Telecommunication port**

Voltage Measurement [Test condition] ISN, AAN

Current Measurement [Test condition] Current probe

## Immunity test

**Electro static discharge test**

Contact discharge, Air discharge, Indirect discharge

**Radiated electromagnetic field strength**

Measurement Frequency Range : 80 MHz – 6 GHz

**Electrical fast transient/burst (EFT/B)**

Mains port, Telecommunication/Signal port

**Surge**

Mains port, Telecommunication/Signal port

**RF conducted interference**

Mains port measurement frequency range: 150 kHz - 80 MHz

Telecommunication port measurement frequency range: 150 kHz - 80 MHz

**Common mode disturbances**

**Radiated magnetic field**

**Interruptions and Voltage variations**

## Harmonic current

**Harmonic current test**

**Voltage changes, Voltage fluctuations and Flicker test**

**Voluntary EMC Laboratory Accreditation Center Inc.**

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(Test standards)

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[Test standards]

## **Emission test**

**VCCI Technical Requirement: VCCI-CISPR 32**

**FCC 47CFR Part15 Subpart B: ANSI C63.4-2014 (up to 18 GHz)**

**CISPR 11, CISPR32, EN 55011, EN55032**

**IEC 61000-6-3/-6-4/-6-8, EN 61000-6-3/-6-4/-6-8**

**IEC 61800-3, EN 61800-3, ISO 22199, EN 12015, IEC 60533, EN 60533, IEC 60945, EN 60945**

**IEC 62236-3-2, EN 50121-3-2, IEC 62236-4, EN 50121-4, EN 50370-1**

**IEC 61326-1, EN 61326-1, JIS C 61326-1**

**IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2**

## **Immunity test**

**IEC 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-8/-4-11, IEC 61000-4-16, EN 61000-4-16**

**CISPR 24, EN 55024, CISPR 35\*<sup>1</sup>, EN 55035\*<sup>1</sup>**

**IEC 61000-6-1/-6-2/-6-7, EN 61000-6-1/-6-2/-6-7**

**IEC 61800-3, EN 61800-3, IEC 61800-5-2, EN 61800-5-2, IEC 61326-3-1, EN 61326-3-1**

**IEC 60533, EN 60533, IEC 60945, EN 60945, IEC 62236-3-2, EN 50121-3-2**

**IEC 62236-4, EN 50121-4, ISO 22200, EN 12016, EN 50370-2**

**IEC 61326-1, EN 61326-1, JIS C 61326-1**

**IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2**

**\*<sup>1</sup> Except for broadband impulse conduction disturbance test, Annex F (Network function), Annex G(Audio output function) and Annex H (Telephony function)**

## **Harmonic Test in Public Low Voltage Systems**

**IEC 61000-3-2, EN 61000-3-2, IEC 61000-3-3, EN 61000-3-3**

**IEC 61000-3-11, EN 61000-3-11, IEC 61000-3-12, EN 61000-3-12**

**IEC 61000-6-3, EN 61000-6-3**

**IEC 61326-1, EN 61326-1, JIS C 61326-1**

**IEC 60601-1-2, EN 60601-1-2, JIS T 0601-1-2**

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