



Armada

Surge Protection

Installation Manual

Galeos Series 2

■■ English: armadasurge.com



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Safety Instructions

Thank you for choosing Armada! Keep these instructions.

Warning

PLEASE READ ALL INFORMATION IN THIS MANUAL CAREFULLY BEFORE INSTALLATION. THE PROCEDURES DESCRIBED IN THIS DOCUMENT DO NOT SUPERSEDE APPLICABLE LOCAL OR NATIONAL ELECTRICAL REGULATIONS. PLEASE CONSULT AND FOLLOW ALL APPLICABLE ELECTRICAL REGULATIONS TO ENSURE YOUR INSTALLATION IS COMPLIANT. IN ALL CASES, LOCAL AND NATIONAL ELECTRICAL CODE REQUIREMENTS MUST BE FOLLOWED.

The Armada Galeos Series 2 provides protection against transient voltages and power surges. A properly performed installation is essential to maximize the protector's performance and effectiveness.

IMPORTANT

This device DOES NOT PROTECT against sustained surges or direct lightning strikes.

▪ QUALIFICATION

This device must be installed by a qualified, licensed electrician or technician. The electrician must follow the steps described in this manual to ensure the installation is compliant.

This manual provides the instructions required to install the Armada Galeos Series 2 surge protection device (SPD). This protector can be installed in two ways:

- The preferred method is to mount the SPD directly on the outside of the electrical panel using the fitting located on the protector's enclosure.
- The SPD can also be installed against the panel or wall using hardware supplied by the installer. This method requires the use of conduit and additional hardware (not included).

The Armada Galeos Series 2 is listed under UL 1449, 4th Edition. The product is suitable for installation on electrical distribution equipment.

▪ POWERING UP

During installation on an electrical system, the Armada Galeos Series 2 must NOT be energized until the electrical installation has been installed, connected, inspected, and tested. All conductors must be connected and functional.

Notice

FAILURE TO FOLLOW THE RECOMMENDATIONS IN THIS MANUAL MAY RESULT IN ABNORMALLY HIGH VOLTAGE AT THE SPD. THIS MAY RENDER THE ARMADA GALEOS SERIES 2 PROTECTOR INOPERABLE. THE WARRANTY DOES NOT COVER AN IMPROPERLY INSTALLED DEVICE.

▪ HIGH-POTENTIAL TESTING

Do not high-potential test the electrical system while the SPD is connected. Disconnecting the SPD during a high-voltage test will damage the surge arresters and/or other electrical components.

Safety Information

This section provides important safety information to consider before installing the SPD.

Do not install the device during stormy weather. This device is NEMA 4X rated, suitable for both indoor and outdoor installation. The installer must seal the protector's fitting against the electrical panel using weatherproof gaskets (not included) to ensure a watertight connection.

Operation

Armada protectors normally do not require repair. However, in the event of an electrical anomaly or malfunction, the protector's status may change and require intervention. If the device needs to be removed or replaced, it must be removed by an electrician or other qualified professional.

If the SPD breaker trips while energized, first try resetting it. If the problem recurs shortly after, the device must be replaced. After a breaker trip, always inspect the Armada product; if soot is present at the 3/4" nipple, do not reset the breaker — replace the device instead.

The device will disconnect on its own at the end of its service life. Electrical power will be maintained, but the installation will no longer be protected. Follow the manufacturer's instructions to replace the protector.

Installation Instructions

Requirements

The Armada Galeos Series 2 is a Type 2 SPD. A Type 2 SPD certified in Canada is defined by UL® as “an SPD permanently connected and designed for installation on the load side of the service transformer, with its own external overcurrent protective device.”

It is suitable for installation both upstream and downstream of the main panel.

- Comply with all applicable local and national regulations.
- Verify that the system voltage matches the SPD's rated voltage (a 120V SPD will be destroyed immediately if installed on a 240V, 277V, or other system).
- Mount the SPD as close as possible to the panel or equipment to shorten cable runs (long cables degrade performance).
- Ensure cables are as short and straight as possible, particularly the neutral and ground conductors. Use a breaker close to the SPD, neutral, and ground of the panel.
- The breaker must be 20A, 2-Pole.
- Ensure the system is grounded below 100 Ω and free of anomalies before energizing the SPD.
- Never high-potential test the SPD (this will prematurely degrade the SPD).
- Ensure the 3/4" nipple of the Armada product remains fixed to the electrical panel it is connected to at all times.

Installation Steps

WARNING: DO NOT MODIFY THE SPD ENCLOSURE — THIS WILL DAMAGE THE SPD AND ENDANGER PERSONNEL AND EQUIPMENT.

- 1** Use a voltmeter to verify the installation's voltages. Ensure the SPD is compatible. Refer to the technical data sheet for the protector's specifications.
- 2** Determine the installation location for the SPD.
- 3** De-energize the electrical panel.
- 4** Identify the location of the SPD breaker inside the electrical panel.
- 5** Mount the SPD (see wiring diagram): – Remove an appropriately sized knockout on the panel. – Connect the cables inside the SPD, keeping them as short and straight as possible.
- 6** Identify or mark the cables: – Neutral: **white** | Ground: **green** | Power: **red**

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Ensure the system is connected in accordance with the Canadian Electrical Code (CEC®) and is free of any hazards or anomalies before energizing. An N-G connection that does not comply with the code will destroy the SPD: this is the leading cause of failures.

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Energize the system and verify that the breaker remains engaged.

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Register your product online at **armadasurge.com** or by email at **register@armadasurge.com** to receive full support and benefit from the lifetime warranty (25 years).

Maintenance

Once installed, Galeos devices do not require any special maintenance. However, it is important to regularly check that the breaker circuit on the electrical panel remains engaged. If the breaker cannot be reset, the protector must be replaced.

— CAUTION! —

ENSURE ALL ELECTRICAL CIRCUITS ARE DE-ENERGIZED BEFORE MAKING ANY CONNECTION.

All electrical connections must be performed by a qualified electrician or technician. All wiring must comply with the Canadian Electrical Code (CEC®) and other applicable local codes.

Wiring Diagram

