

# RUSTROL SSP SURGE PROTECTOR

## Surge Protection

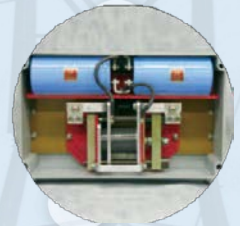


The Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup>, Solid State Surge Protector, Model: SSP effectively blocks the DC current needed for cathodic protection, while simultaneously providing an effective AC continuity grounding path for:

- AC Fault Currents
- Lightning Protection
- Mitigation of Induced AC Voltages
- Power Switching Surge Currents



- Non-Electrolytic
- High Blocking DC Voltage
- Fail Safe
- Maintenance-Free



All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential users are urged to trial and /or conduct conformity tests of the product to determine its suitability in application for a particular end use prior to purchase.

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# RUSTROL SSP SURGE PROTECTOR

## Surge Protection

The Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup> Solid-State Surge Protector Model: SSP is entirely electronic/electrical construction throughout, similar to the Model: CI. The Cathodic Isolator<sup>®</sup> Model: SSP remains the preferred product choice by “End-Users” for cathodic protection applications whereby the need to block the protective DC current at the isolating assembly (*flange/monolithic joint*) remains crucial; maintaining a safe and effective electrical grounding path is paramount. The Cathodic Isolator<sup>®</sup> Model: SSP maintains safety standards for effective grounding within International Codes, including criteria set forth within the National Electrical Code (NEC) and Canadian Standards Association (CSA).

The Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup>, Model: SSP-ATEX is CE listed, ATEX/IECEx certified under the European Directive 94/9/EC and the IECEx Scheme for equipment intended for use in Gas and Dust Explosive Atmospheres, in accordance to IEC and EN Standards.

The IECEx Certificate of the Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup>, Model: SSP-ATEX is accepted by Certification Bodies in twenty-nine (29) IECEx member countries including the European Community, Australia, Brazil, Canada, China, India, Japan, Korea, Russia, United Kingdom, USA, and many other leading countries.

In addition, the Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup>, Model: SSP-ETL is bearing the CETLUS Listed Mark for use in Class 1, Division 2, Groups A, B, C & D Hazardous (*Classified*) Locations; in compliance with the latest North American Safety Standards (*ANSI, ISA and CSA*)

The Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup>, Model: SSP can be manufactured either to European/International Standards, Model: SSP-ATEX, or North American Standards, Model: SSP-ETL, and certified accordingly. The “End-User” must select one (1) criteria for Product Certification.

All Models of the Rustrol<sup>®</sup> Cathodic Isolator<sup>®</sup> Solid-State Surge Protector are available mounted within Underwriters Laboratories Classified Enclosures, File No. E81696 (FTRV), & (FTRV7)

### Model: SSP SELECTION GUIDE

**Cathodic Isolator<sup>®</sup> - Solid State Surge Protector - Model: SSP**  
 Standard assembly is installed in a performance test rated NEMA 4X enclosure, complete with access cover and cable termination fittings.

**AC Fault Current Exposure - 1 cycle @ 60 Hz rms:** (1 cycle @ 50 Hz rms, per drawing No. SSP-00)

<input checked="" type="checkbox"/> 7 kA	<input type="checkbox"/> 20 kA	<input type="checkbox"/> 70 kA
<input type="checkbox"/> 10 kA	<input type="checkbox"/> 35 kA	
<input type="checkbox"/> 15 kA	<input type="checkbox"/> 50 kA	

*(Refer to Drawing No. SSP-00 for detailed specifications @ 1, 3, 10 & 30 cycle. 50 or 60 Hz rms; visit web site)*

**Surge/Lightning Protection:**  
 Standard assembly, peak surge current @ 8/20  $\mu$ sec. waveform  
 Primary @ 100,000 Amperes

**DC Voltage Threshold @ 3 volts**  
 Standard assembly @ -3.0/+1.0 volts DC  
*Optional Voltage Threshold Settings Available (i.e. -6/+6, -4/+4, -6/+1 volts DC or other)*

**Mitigation of Induced AC-Steady State @ 50 or 60 Hz rms**  
 Selection range 0-100 Amperes, as specified by the customer.

<input type="checkbox"/> 12 amps	<input type="checkbox"/> 36 amps	<input type="checkbox"/> 75 amps
<input type="checkbox"/> 24 amps	<input checked="" type="checkbox"/> 48 amps	<input type="checkbox"/> 100 amps

**Optional (as specified by the customer):**

- ATEX/IECEx Certified
- cETLus Certified
- Submersible enclosure (NEMA 6P/IP68 certified)
- Free-Standing Fibreglass Pedestal Mount
- Special finishes (specify)

SSP-07-SL-03-A48-specify

(Typical ordering code)

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