



The Rustrol® Cathodic Isolator®, 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:

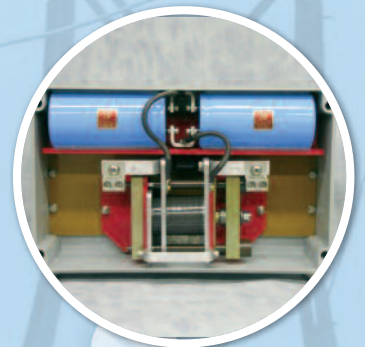
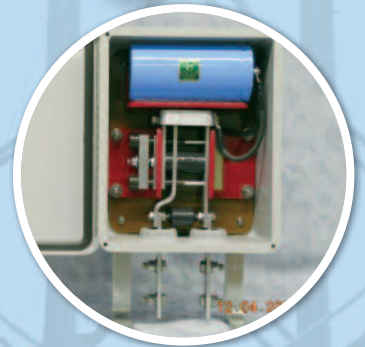
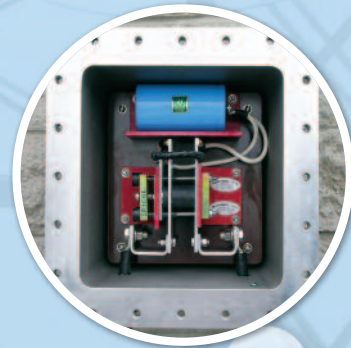
- AC Fault Currents
- Lightning Protection
- Mitigation of Induced AC Voltages
- Power Switching Surge Currents



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



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The Rustrol® Cathodic Isolator® Solid-State Surge Protector Model: SSP is entirely electronic/electrical construction throughout, similar to the Model: CI. The Cathodic Isolator® 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® 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® Cathodic Isolator®, Model: SSP-ATEX is CE listed, ATEX/IECEX certified under the European Directive 2014/34/EU 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® Cathodic Isolator®, Model: SSP-ATEX is accepted by Certification Bodies in thirty-three (33) 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® Cathodic Isolator®, 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® Cathodic Isolator®, 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® Cathodic Isolator® Solid-State Surge Protector are available mounted within Underwriters Laboratories Classified Enclosures, File No. E81696 (FTRV), & (FTRV7).

## Model: SSP SELECTION GUIDE

**Cathodic Isolator® - Solid State Surge Protector - Model: SSP**

Standard assembly is installed in a performance test rated moulded Non-Metallic enclosure, suitable for indoor/outdoor applications (*IP67 Certified; Equivalent to NEMA 4, 4X, 6P*), complete with access cover and cable termination fittings.

**AC Fault Current Exposure - 1 cycle @ 60 Hz rms:** (*1 cycle @ 50 Hz rms, Refer to 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 µsec. waveform  
 Primary @ 100,000 Amperes

**DC Voltage Threshold:** (*Up to ± 20.0 volts DC*)  
Standard assembly @ -3.0/+1.0 volts DC  
*Optional Voltage Threshold Settings Available (i.e. -20/+20, -6/+6, -4/+2, -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
- Cable Termination - Standard - Internal  
- Optional - External
- 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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