

# Cathodic Isolator (SSP)

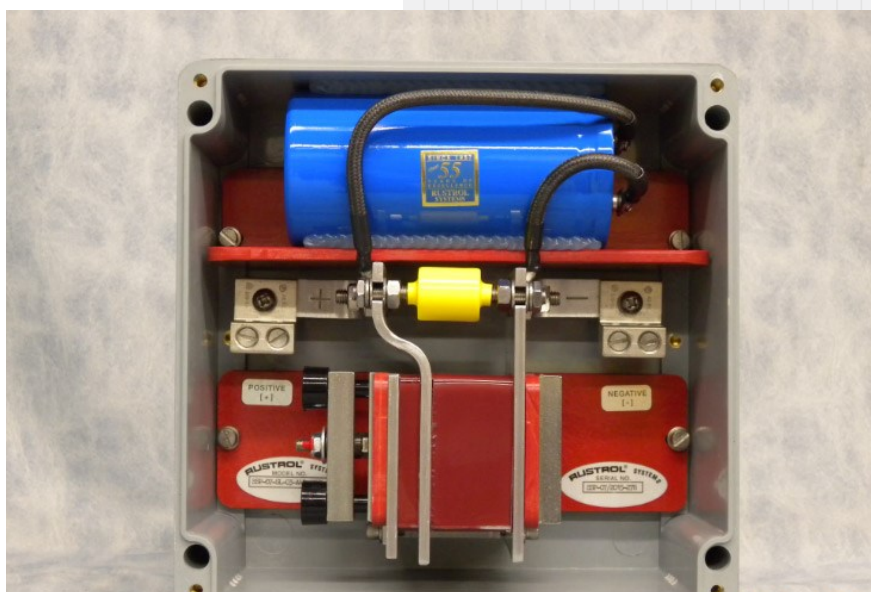
The Rustrol® Cathodic Isolator®, Solid State Surge Protector, Model: SSP effectively blocks the DC current needed for cathodic protection, while simultaneously providing an effective AC continuity grounding path for:

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



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

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).



## Rustrol® Cathodic Isolator – Model Solid-State Surge Protection (SSP)

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  $\mu$ sec. waveform

- ☒ Primary @ 100,000 Amperes

#### DC Voltage Threshold: (Up to $\pm 20.0$ 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)