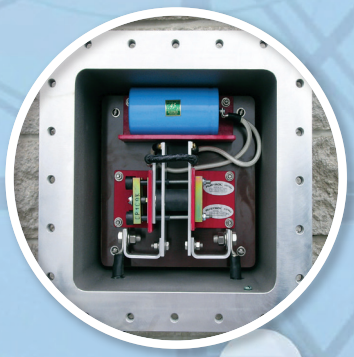
SSP SURGE PROTECTOR

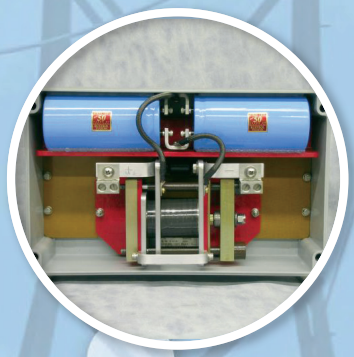
RUSTROL® SYSTEMS

SSP SURGE PROTECTOR

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

Email: Contact@Rustrol.com
Central Fax: 905-333-4313

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; it's paramount to maintain a safe and effective electrical grounding path. 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/UKEX certified under the European Directive 2014/34/EU, IECEx Scheme, and UKSI 2016:1107 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-six (36) 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-ATEX** is cQPSus certified & Model: **SSP-ETL** bears 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)*.

*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 *(IP68 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)*

- ☑ 7 kA
- ❑ 10 kA
- ❑ 15 kA
- ❑ 20 kA
- ❑ 35 kA
- ❑ 50 kA
- ❑ 70 kA

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

Surge/Lightning Protection:

Standard assembly, peak surge current rating

☑ Primary @ 150kA @ 4/10 μs • 100kA @ 8/20 μs • 100kA @ 10/350 μs

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.

- ❑ 12 amps
- ❑ 24 amps
- ❑ 36 amps
- ☑ 48 amps
- ❑ 75 amps
- ❑ 100 amps

Optional: *(As Specified by the Customer)*

- ❑ ATEX/IECEx/UKEX Certified
- ❑ cETLus Certified
- ❑ cQPSus Certified
- ❑ KCS 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)

Interprovincial Corrosion Control Company Limited
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Lewiston, New York, USA

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