



ACL. SSD

Solid State decoupler/capacitive AC Limiter

- Mitigates pipeline AC voltages
- Arrest lightning transients
- Protects operating personnel
- Inhibits AC influenced corrosion
- Neutral to DC pipe/soil potential



Solid state polarization cells or AC grounding devices are used to mitigate pipeline AC voltages resulting from induction from overhead power lines sharing the same corridor.

A main purpose of the AC limiting devices is to protect operating personnel from hazardous touch voltages and second to conduct ac current from the pipeline to soil, lowering the voltage.

Balanced AC limiting

An increasingly important task for the AC limiting device is to inhibit AC influenced corrosion by lowering the pipe to soil AC voltage. CP experts throughout have reached agreement that excessive cathodic protection combined with AC voltage is a non-tolerated mixture, likely to cause accelerated AC corrosion. The AC discharge device has been designed and developed for the purpose of being close to neutral to the DC thus to maintain the rectifier in full control of the cathodic protection level. Unlike other known solid state polarization cells it does not produce additional cathodic polarization by rectifying some of the AC voltage.



Solid State and capacitive AC Limiter

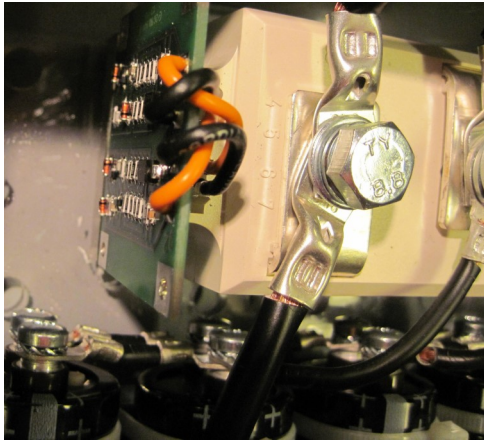
Electrical properties:

Model	321	322	323
Capacitance (μF)	2350 \pm 5%	5000 \pm 5%	50000 \pm 5%
Continuous AC drain (A)	10	20	45
Lightning impulse current (10/350 μs)	100kA	100kA	100kA
AC Current 10 Sec. (A)	450	450	450
AC Current 0,6 Sec. (A)	3500	3500	3500
AC Current 0,2 Sec. (A)	6000	6000	6000
DC Leak current (μA)	\leq 0,1	\leq 1	\leq 2,5
DC Blocking Voltage (V)	-18 to +18	-18 to +18	-3 to +3
AC voltage, fault (V)	12.6 rms	12.6 rms	2.1 rms

Information within this sheet subject to change without notice

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Physical properties:

Dimensions: 250mm x 255mm x 120mm

Weight: 6,3kg

Operating temperature: -40to +50°C.

Mounting options on request:



Mounting Brackets, set of two.

Stainless steel. Incl. 4 screws.

Unit connection solutions:

