Edco SLAC Series

AC Power/Signal

The Edco SLAC Series suppressor was specifically designed to protect electronic instruments used by the water/wastewater industries. It combines hybrid AC power protection and signal line protection in a NEMA-4X polycarbonate case. The AC power suppressor can supply up to 1875 Watts and has a 15 Amp replaceable fuse to prevent overloading of the protective elements. A "Power ON" LED provides visual indication that power is applied to instruments. Signal line protection is accomplished by the Edco PC642 Series available in a variety of voltage clamps. Signal current can be monitored by reading the voltage across the 10 ohm, 1% resistors (TP1 & TP2 or TP3 & TP4). All leads going to the Edco SLAC board are terminated by quick disconnect or barrier block connectors to facilitate easy removal for service or replacement.

General Technical Specifications

AC Power

Technology		Three-Stage Series Hybrid
Voltage Clamp		325 VAC
Input Voltage		120 VAC 50/60 Hz
Output Current		15 Amps Max.
Response Time		<5 Nanoseconds
Maximum Surge Current (8x20 μs)		39 kA
Occurrences at 500 Amps		>50
Parameter	Normal Mode (L-N)	Common Mode (L-G) (N-G)
IEEE 587 CAT A Ring*	172 V	280 V
IEEE 587 CAT B Ring*	205 V	280 V
IEEE 587 CAT B Impulse*	330 V	360 V

**Measured from zero volts, 90° Phase angle*

Signal Line

Technology	Three-Stage Series Hybrid
Peak Surge Current (8x20 μs)	10 kA
Response Time	<5 Nanoseconds
Voltage Clamp (customer selected)	8–200 Volts
Series Resistance	5 ohm (Typical)
Certification	UL 1449 3rd Edition (2009), Type 2

Standard Enclosure

NEMA-4X	Corrosion Resistant
Polycarbonate Base	Resists Temperatures up to 250 deg. F
Smoked Grey Transparent Cover	Flammability Rating UL94-5V
Knockouts for 20mm and 32mm	Nominal Outside Dimensions (inches): H=7.1, W=7.1, D=3.0
Bosses for 6-32 x 3/8 self-tapping screws	
Maximum Protection-Total Insulation	

Features

- Lightning and surge suppression for AC power and low-voltage signal lines
- Series hybrid AC suppressor/filter
- Plug-in protection module
- 15 Amp replaceable fuse
- Test jacks for signal line monitoring
- "Power ON" indicator
- Optional stainless steel or fiberglass enclosure
- 5 year warranty

Optional Enclosure

NEMA-4X
Stainless Steel or Fiberglass
Continuous Hinge
Nominal Outside Dimensions (Inches) H=10, W=8, D=4

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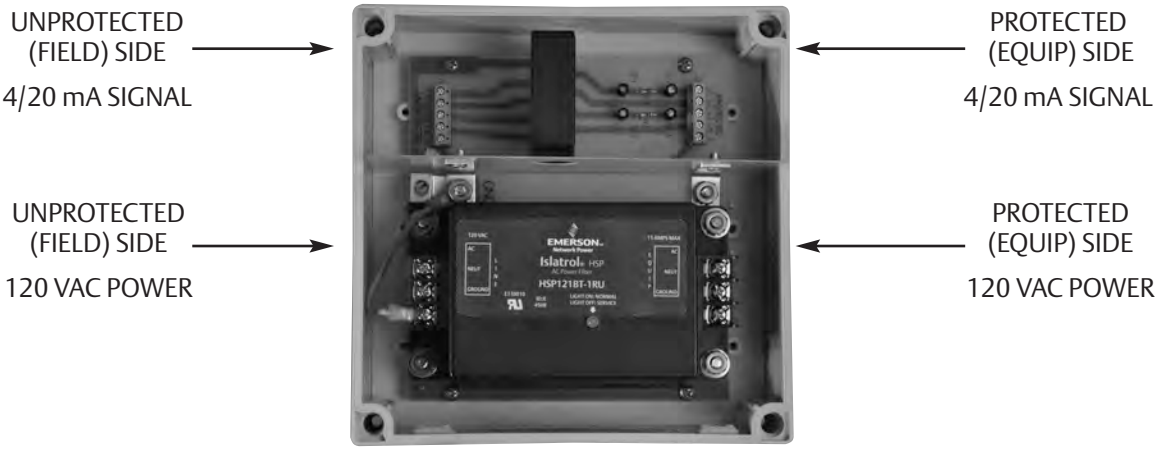

Installation

Signal Line Connections:

- Connect GND Terminal to Local Ground using #12 AWG wire minimum
- L1 and L2 – Connect for Signal Pair #1
- L3 and L4 – Connect for Signal Pair #2
- Terminals accept #24-#14 AWG wire, torque to 4kg-cm
- "S" Connection for Cable Shield (If Applicable)

CAUTION: Do not place this product in service on any signal line capable of suppying more than 150 milliamperes continuously.

AC Power Connections:

- Connect AC Power as Marked on Case using #12 AWG wire minimum
- Keep 120 VAC Power feed separate from Low Voltage 4/20 mA feed

Ordering Information

**For Standard Unit order part # SLAC-12036*

SLAC — 1 2 3 LC

1	=	0	No Enclosure
		1	Polycarbonate Case (Standard)
		2	Stainless Steel (Optional)
		3	Fiberglass (Special)
2	=	0	Without PC642 Signal Protector
		2	With PC642
3	=	036	PC642 Voltage Clamp Selection
		043	

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