

S.L.A.P.™

Surge & Lightning Advanced Protection

Three-Phase Surge Suppressor

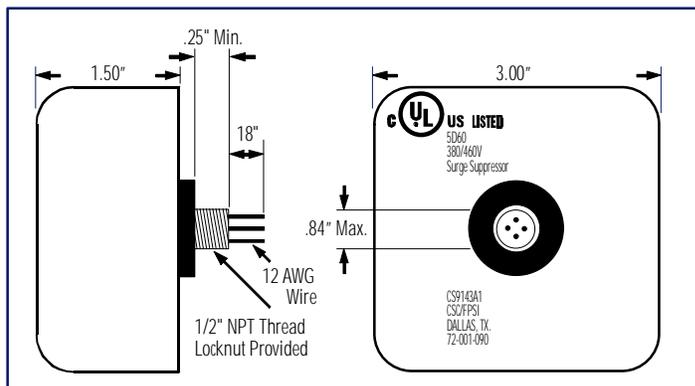
PROVIDES 82,500,000 VOLT AMPS TOTAL POWER DISSIPATION AT 380, 400, 415 AND 480 VAC

Striking the Earth an estimated 9,000,000 times each day, lightning is the most spectacular electrical display nature has to offer. Lightning is also one of the primary causes of station-damaging electrical surges, along with line surges and power transients. Flowtronex' Surge and Lightning Advanced Protection, or S.L.A.P., provides your pump station with superior protection from these dangers.

Clouds, like everything in nature, carry an electrical charge, either positive or negative, and it's a natural tendency for opposite charges to try to reach equilibrium. Lightning is a result of the sudden atmospheric discharge of natural electricity that occurs when the difference between a charged storm cloud and a grounded object is great enough. This discharge manifests itself as lightning as it seeks a grounded object through which it can immediately dissipate its energy. Any grounded object, or something providing an electrical current with a connection to the Earth like a tree or a pump station, is susceptible to lightning strikes.

S.L.A.P. helps protect your pump station from lightning and power surges by minimizing the amount of "pass voltage" that reaches the station. Pass voltage is defined as the voltage not absorbed or shunted to ground during an event. Generally, the amount of pass voltage a device permits is based on its ability to quickly absorb heat, which is the form the excess energy takes when it hits a surge protection device. Tested against comparable suppressors, S.L.A.P. maintained the lowest pass voltage while the device suffered the least post-strike performance degradation.* This is often the crucial difference among surge suppressors as, contrary to myth, lightning usually strikes the same place multiple times. A suppressor's low pass voltage rating can be meaningless if a second strike sends thousands of volts unchecked into your sensitive electrical controls.

Protecting your pump station against such unpredictable natural hazards as lightning is a simple investment. S.L.A.P. provides both long-life and a broad range of protection for your sensitive electrical equipment.



Electrical Ratings, Line-Line, Line-Phase	S.L.A.P.	Units
Maximum Continuous rating (VAC)	550	Volts
Maximum Continuous rating (VDC)	700	Volts
Maximum Energy, Single-Pulse, 10 x 1,000 usec	620	Joules
Total Power Dissipation	3,720	Joules
	82,500,000	Volt Amps
Peak Current, Single-Pulse, 8 x 20 usec	25,000	Amps
Varistor Voltage at 1mA	778-950	Volts
Maximum Clamping Voltage, 200a Pulse, 8 x 20 usec	1,500	Volts
Typical Capacitance, 1 KHz @ 25c	1,150	pF
Operating Temperature	-40 to +85	C
Storage Temperature	-40 to +85	C



* Test data available upon request