



F&J Specialty Products, Inc.

The Nucleus of Quality Air Monitoring Programs

ELECTRICAL SURGE PROTECTION FOR HIGH VOLUME AIR SAMPLING SYSTEMS P/N: FJ-SSI-AS-03



Surges or power line transients are brief overvoltage spikes or disturbances on a power wave form which can damage, degrade or destroy electronic equipment and motors. Externally generated transients include utility grid switching, magnetic coupling and nearby or direct lightning strikes.

F&J SPECIALTY PRODUCTS, INC. (F&J) recommends the use of a “Surge Protective Device” (SPD) for digital air samplers utilized in high volume (HV) air sampling applications. F&J has commissioned a leading manufacturer of SPDs in the USA to design and develop a product that would protect air sampling instruments utilized in NPP HV air sampling programs from the negative effects of power line surges.

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|----------------|---|
| Dimensions: | 8”L × 8”W × 4.3”H (20.3 x 20.3 x 10.9 cm) |
| Weight: | 6.1 lbs. (2.8 kg) |
| Receptacles; | Two (2) 125VAC, 20A standard USA female GFCI grounding receptacles. This unit is typically factory installed in the HV air sampler at the time of fabrication or retro fitted to older air sampler with only minor changes. |
| Test Standard; | IEEE Std C62.41.2 TM – 2002 and IEEE Std C62.62 TM —2010 |

References:

- IEEE Std C62.41.1TM–2002—IEEE Guide on the Surge Environment in Low-Voltage (1000 V and less) AC Power Circuits
- IEEE Std C62.41.2TM–2002—IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits
- IEEE Std C62.62 –2010—IEEE Standard Test Specifications for Surge-Protective Devices (SPDs) for use on the Load Side of the Service Equipment in Low-Voltage (1000 V and less) AC Power Circuits

These are the standards that describe the surge environment and govern performance specifications of SPDs.

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