



PowerSoak Surge Arrestors

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There is no business today which would not suffer from the failure of a piece of sensitive equipment as a result of a mains-borne voltage spike.



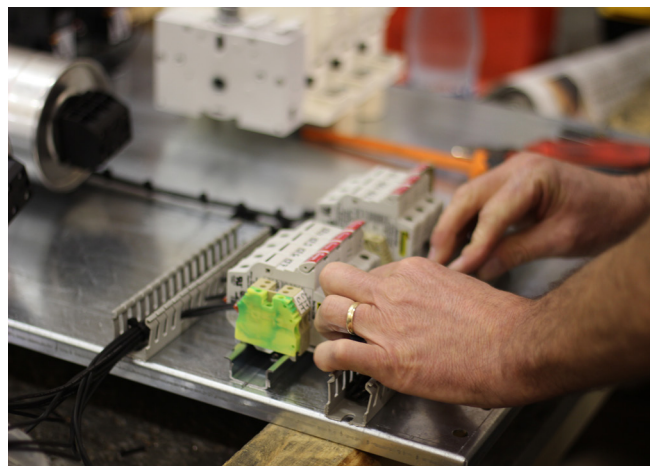
Whether it be a computer, building management system, variable speed drive, or any of the myriad of other electronic devices and systems in use, every process would suffer from an equipment failure due to a mains borne voltage spike.

The safe attenuation of mains-borne spikes and short-term surges is an important part of any co-ordinated power quality strategy. They can occur as a result of lightning strikes, distribution system switching operations, or a fault elsewhere on the electrical system, but the end result is the same, an piece of electronic equipment fails, and everything stops.

Correctly integrating Surge Protection Devices (SPD) into electricity distribution systems is now a key part of any co-ordinated power quality strategy.

The three types of SPD are broadly intended for application nearest the supply (type 1), along the distribution system (type 2), and close to the sensitive devices (type 3).

The optimum solution would involve a lengthy and costly survey, with the use of all three types of SPD at various key points in the distribution system.



Power Capacitors Ltd is able to offer this service to its clients, but much more popular is the 'one-size fits all' approach, which is more easily understood, and is far simpler to integrate into an existing distribution system.

Note - no single surge arrestor can guarantee the safety of sensitive equipment in the event of a voltage spike where the energy exceeds the attenuation capabilities of the protection installed. Multiple surge arrestors are able to attenuate increasingly energetic mains-borne voltage spikes.

The Power Capacitors 'PowerSoak' Surge Arrestor type SAIAB includes:

- 1 off 3 phase type 2 surge suppression module to EN 61643-11
 - Nominal voltage level* - 230/400V
 - Voltage protection level* - <1kV
 - Short-circuit withstand* - 50kArms
 - Nominal discharge current* - 20kA
- 1 off 3 phase door-interlocked 125 Amp fuse-switch (to support the surge current capability)
- Mounted in a sheet-steel enclosure dimensions 600mm high x 400mm wide x 260mm deep
- Both 3-wire and 4-wire types are available, suitable for use on TNC and TNS systems as required.



The cost of protection is negligible compared to the potential loss.

Once you have made the decision to protect yourself then it's wise to work with a trusted name, Power Capacitors Ltd. can offer a quick and free consultation having been in the Power Quality business for over 40 years.

All Power Capacitors Ltd. equipment is tried, tested and built right here in the U.K. at our Midlands factory.

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