

Re: Whole house surge suppressors

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"w_tom" <w_tom1@usa.net> wrote in message
news:dfee1359.0407070456.395d9fe6@posting.google.com...
> *Appliances already have effective internal protection. With a
> properly installed 'whole house' protector and the so critical earth
> ground, then any induced potential inside the building will remain
> well below what appliances are designed to withstand. A 'whole house'
> protector may not be perfect. But with it, residual transients inside
> a building should remain at below what appliances must withstand;
> below those ratings of appliance internal protection.*
>
> *Anything that can be effective adjacent to the appliance is already
> inside that appliance. One of the early requirements for such
> internal protection was the CBEMA. Even Intel specifications for
> power supplies require sufficient internal protection. Internal
> protection that assumes the 'whole house' protector exists and that
> all incoming utilities are properly earthed to the single point earth
> ground.*
>

The problem is not with the power supply, it is with the communications ports. Nine out of ten failed appliances that we examine have failures associated with the communications ports. If you don't provide the proper TVSS that ties the power and communications references together, then you will damage equipment.

<http://www.eeel.nist.gov/817/817g/spd-anthology/files/Enlightening.pdf>

A very good paper that mentions this.

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