

# Guarding Against The Unpredictable

**P**ower surges come in many different forms and despite an average of 50,000 lightning strikes in New Zealand every year, there are more frequent and likely occurrences that can interrupt your business or worse, damage your processes and sensitive equipment.

20% of surges are from external sources such as the national power grid, issues in neighbouring buildings or lightning strikes.

The other 80% of business-affecting power surges are generated from internal sources such as load switching or the start-up processes of motors or pumps and AC equipment.

Thankfully there are a range of products that can minimise the impacts of power surges and they operate at different stages of your power network.



## Eaton PPFi



The starting point for protection is the surge diverter. Surge diverters effectively clamp the incoming lines to neutral or earth, protecting switchboards, contactors, transformers and motors from burnout due to extreme voltages. This is the first line of protection to your site and a must-have if you are in a large industrial area or a location prone to power surges.

- Surge suppression & filtering
- Standard current ratings - 100A to 400A
- Surge suppression ratings - 80kA to 240kA
- High frequency & RF filtering
- EN certified EMI/RFI filter

## Eaton CSFi



Once past the main board, most protection involves both surge diversion and filtering. The CSFi is designed for distribution boards to provide secondary protection against power surges. Ideal for Secondary power circuits, Sub-boards, UPS Systems & Rectifiers, Telecommunications Systems, Process & Control Systems, Computer & Medical Systems and sensitive Electronic Equipment.

- Surge suppression & filtering
- DIN rail mountable (4 pole wide)
- Protection Fail Alarm Relay
- 3 mode, 3 Stage Protection

## Eaton PSFi



The PSFi is designed to provide secondary protection against power surges caused by external sources as well as from surge events generated on the secondary side of the filter. Perfect for Plug-in UPS systems, Servers, Portable instrumentation, POS systems, Small office systems and Industrial & rural surge prone sites.

- Surge suppression & filtering
- Rugged metal housing
- Surge suppression rating 40 kA
- Protection fail indicators
- 3 mode, 3 Stage Protection

**For more information including engineering support, specification advice and product support, contact UPS Power Solutions' specialist engineers.**