



PRODUCT APPLICATION NOTE

Bakery Electrical Protection

Implementing Reliable Surge Protective Solutions in Bakeries

Ensure unparalleled reliability and availability of your electrical equipment and operational infrastructures with Strikesorb® Surge Protective Devices, a protection technology field proven and customized for facility installations worldwide.



When you operate the largest bakery in the country of Zimbabwe, people depend upon your products day in and day out. That's why Proton Bakery chose to use Raycap's Rayvoss® surge protective

devices (SPDs) featuring state-of-the-art Strikesorb technology to ensure their production equipment is safeguarded from electrical surges caused by irregularities in the power supply.

The Challenge

Proton Bakery has a successful business in Zimbabwe, but the company was experiencing excessive power disruptions caused by unreliable "dirty" power coming from the grid. The disruptions at the bakery threatened production and were compromising its ability to deliver goods to the region.

With the expertise and support of Raycap, a Rayvoss 80 system was installed at the AC power entrance of the bakery. The system effectively manages frequent voltage transients and other power surges and keeps the equipment running. See Figure 1.

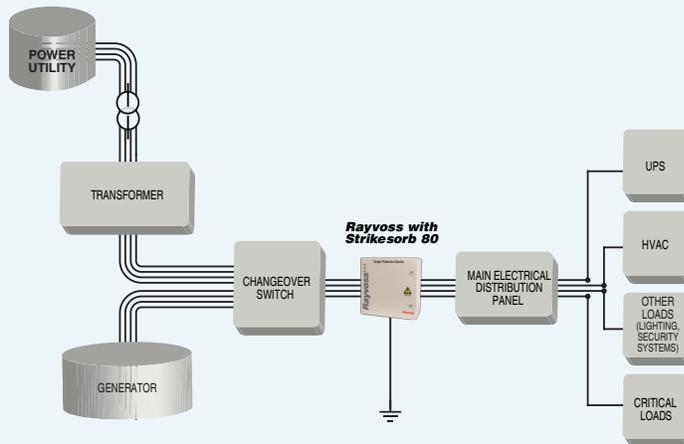
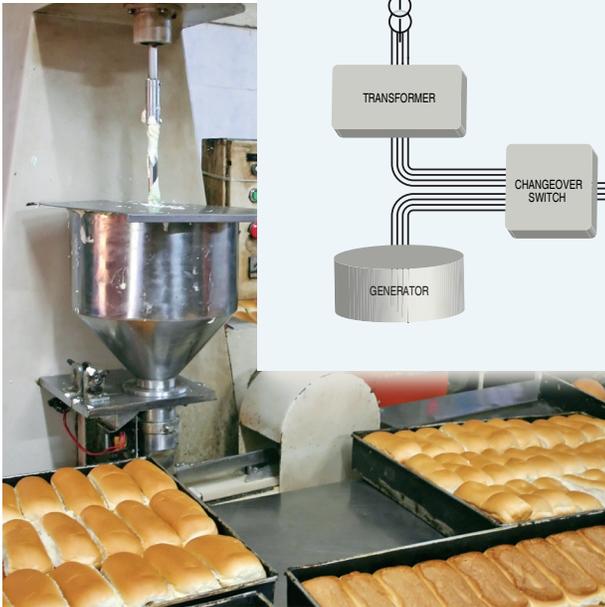


Figure 1: Recommended scheme for protection of critical systems



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INNOVATING POWER PROTECTION WORLDWIDE



### Solution

Prior to the installation of the Rayvoss system, the bakery had experienced equipment failure and burnt-out motors due to power fluctuations, resulting in costly repairs and tens of thousands in lost revenues. The installation of a three phase, 240 volt Rayvoss system with Strikesorb 80 modules, light-emitting diode (LED) indicator, and surge counter provided the protection the bakery needed to continue operation.

Raycap prides itself upon its ability to listen to customers, understand their needs and provide customized solutions that meet those needs every time. The installation of the Rayvoss systems has proven to be a great benefit to Proton, reducing operating expenses and improving product availability to customers.

### Conclusion

Raycap solutions, featuring Strikesorb SPDs, are the ideal way to protect critical equipment from catastrophic failure and ensure the reliability and availability of all manufacturing functions.



Figure 2: Rayvoss systems were installed after the generator changeover switch to regulate both utility surges and surges from the generator.

“Proton purchased the Rayvoss solution in July 2011. Since the installation no power surge problems have been experienced, and I am more than happy to recommend these systems to any other interested parties.”

Mr. Spiros Tselentis  
Technical Director, Proton Bakery  
Marondera, Zimbabwe Africa

### Strikesorb Benefits

- Maintenance-free operation
- Safe operation: No smoke, fire or explosion
- Unique capability to withstand multiple high-energy transients
- Low let-through voltage, therefore providing excellent protection compared with competitive SPD products
- Class I/Class II compliant SPD per IEC 61643-11
- Global standards compliance: UL 1449 5<sup>th</sup> Edition, IEC, IEEE, NEMA
- 10 year global product warranty

**Raycap is a trusted partner, providing maintenance-free electrical protection solutions for mission-critical applications in hundreds of thousands installations worldwide. For a detailed presentation on how Raycap’s Strikesorb-based solutions can protect your bakery operations, contact us today!**

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[www.raycap.com](http://www.raycap.com)

