



SUCCESS STORY

High-Speed Fuses and DC Disconnect Switches Yield a Perfect Reference Design

Quick Facts:

Industry:

Semiconductor
Manufacturing

Application:

Reference Design for UPS
DC Regulator Cabinet

Specific Use:

Multiple product
technologies configured
for DC Regulator Cabinet
used in semiconductor
manufacturing

End Customer:

Large Semiconductor
Manufacturer in Taiwan

Benefits of Product:

Provided reference circuit
protection design resulting
in optimum performance
and competitive advantage

Introduction

A large semiconductor manufacturing company in Taiwan is expanding globally. They needed to have a precise and scalable application design with a combination of highly reliable dc switches and high-speed fuses for optimum manufacturing performance. The customer was looking specifically for application support to help them select the right product configuration for their systems. Their goal was to get the right design, configuration, and capability of products that would provide a reference design for their expanding growth opportunities.

The customer was able to work with Littelfuse engineers to design the perfect solution with multiple product technologies and all associated accessories in a dc regulator cabinet. Littelfuse engineers successfully created the reference design comprised of Littelfuse protection and control products.

"Littelfuse engineers provided top-notch technical application support to designing-in the perfect circuit protection and disconnecting control combination solutions, which will serve as a reference design for the customer's future models," said Sakthi Krishnamoorthy, Littelfuse Global Segment Manager.

Application

The reference design included several products in the dc regulator cabinet:

- LS7R Series DC Disconnect Switches (2)
- Disconnect Shaft (2), Handle (2)
- PSR Series High-Speed Fuse Size 30, Bolted Blade (6)
- MS Series Micro-switch (6)
- LPHV Series - 3 Pole Midget Fuse Holder (1)

The customer is also evaluating the Littelfuse residual current monitor and arc-flash products to incorporate into future designs.

Outcome

As a result of the outstanding application design provided by the Littelfuse engineers, the customer has substantial growth opportunity and Littelfuse is looking at expanding its potential for future business.

"Now the customer knows this works so they can plan for future expansion, for higher current-rated or higher kilowatt-rated cabinets," Sakthi stated. "This is a **win-win** for Littelfuse and for the customer."

SB5000 contact info:
800-832-3873
PG_CSG@littelfuse.com

Fuses contact info:
800-832-3873
techline@littelfuse.com