

ENIDINE By Design

Volume 3 Number 3

Enidine Energy Absorption Application.

Shock Absorbers Reduce Field Service and Improve Circuit-Breaker Reliability

By Mark Courtney

Application Overview

A major circuit-breaker manufacturer (SIC 3699) had been utilizing gas springs as an integral control component for contacts within its power system. Usage of the product in that manner was creating premature field failure, part replacement difficulty and unacceptable performance in outdoor conditions.

As circuit breakers control power distributions within hospitals, schools, data centers and telecommunications facilities, the need for component safety was also of particular importance. Having learned of Enidine through our distributor, the customer approached us for a solution.

Product Solution

Enidine recommended the use of our PRO Series hydraulic shock absorbers for this application. These self-contained products offered solid, repeatable performance and operated well over a wide range of temperatures.

To meet specific application needs, Enidine added a customer-designed piston cap that improved durability in rotary installations, with high impact force and minimal pivot radius. Our engineers also used fluid suitable for outdoor ambient conditions, as Enidine wanted to take every possible measure to ensure that the product was functioning well in all environments.

Application Opportunity

Customer performance expectations were surpassed with the first installation. The Enidine solution replaced existing product for initial build, and the customer designed field replacement kits for existing gas spring installations. As a result of this successful implementation, the customer noted a significant decrease in service calls from operational failure of contacts within the circuit breaker. It is estimated that this solution has saved nearly \$10,000 to \$20,000 per year on labor and replacement part costs. All major circuit-breaker OEM's with heavy commercial or industrial switch gears could benefit from this Enidine application.



World Headquarters

Enidine Incorporated
7 Centre Drive
Orchard Park, New York 14127 • USA
Tel: +1 716 662-1900
Fax: +1 716 662-1909
Hotline: 1-800-852-8508
techsales@enidine.com
www.enidine.com

European Headquarters

Enidine GmbH
Rheinauenstr. 5
79415 Bad Bellingen
Rheinweiler • Germany
Tel: +49 7635 8101-0
Fax: +49 7635 8101 99
info@enidine.de
www.enidine.de

European Subsidiary

Enidine UK
Patrick Gregory Road
Wolverhampton, West Midlands
WV11 3DZ United Kingdom
Tel: +44 1902 304000
Fax: +44 1902 305676
sales@enidine.co.uk
www.enidine.co.uk