

Leach to Unveil Breakthrough Hyperion-800 Contactor at Verticon 2025

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BUENA PARK, CA, March 10, 2025 – Leach International Corporation today released their new Hyperion-800 Contactor at Verticon 2025 in Dallas. This new contactor is part of the innovative high-voltage contactor line from Leach and represents a significant advance in aerospace power switching, combining unprecedented power handling with built-in safety features in a compact 2.25-pound package.

The contactor prevents dangerous electrical arcs through an innovative galvanically isolated electronic arc suppression system while handling 800 V power for 50,000 switching cycles and managing temporary power surges up to 400 A. It performs consistently in extreme temperatures from -40°C to +71°C and at altitudes up to 25,000 feet, meeting rigorous RTCA/DO-160 and MIL-STD-810 standards.

“This Hyperion-800 Contactor marks a major leap forward in aerospace power management,” said Henry Yang, Business Unit Manager at Leach International. “We’ve created a contactor that’s not only more powerful but also safer and more reliable than conventional designs, while keeping it remarkably compact.”

The contactor features two sets of auxiliary contacts (2PDT) and a mechanical coil economizer switch for minimized coil power dissipation and enhanced efficiency. Its busbar-mount compatibility optimizes thermal management and unidirectional power flow, while its compact dimensions (4.90” x 3.10” x 4.20”) make it ideal for space-constrained applications. The initial voltage drop across the contacts is less than 50 mV at 200 A and the unit is rated for 25,000 make-only cycles at 2,000 A.

This patented design represents a significant advancement from existing high-power switching devices in the market. The combination of high-voltage capability and compact size addresses the growing demand for efficient power management in next-generation aircraft, particularly in the emerging electric aviation sector, where space and weight considerations are critical. Its robust design and high cycle rating make it particularly suitable for applications requiring frequent power switching, such as electric propulsion systems and high-power electrical distribution networks. Its galvanically isolated arc suppression technology not only enhances safety but also extends the operational life of the contactor, reducing maintenance requirements and improving overall system reliability.

“The Hyperion-800 Contactor builds on our century-long heritage of innovation in aerospace power management technology,” added Yang. “Its development reflects our commitment to advancing power distribution technology for the next generation of aircraft.”

For more information about the Hyperion-800 Contactor or other Leach International products, visit www.leachcorp.com or contact sales at relayed@leachcorp.com.

About Verticon 2025

Verticon 2025 (March 10–13, Dallas) serves as a global platform for vertical aviation leaders to collaborate on advancing air mobility technologies, including eVTOL systems, advanced rotorcraft, and drone solutions. Hosted by Vertical Aviation International, the event attracts manufacturers, operators, regulators, and innovators aiming to shape the future of urban air mobility and specialized aviation services. Exhibitors use the conference to demonstrate cutting-edge systems, engage in safety discussions, and forge partnerships addressing infrastructure and certification challenges in this rapidly evolving sector.

About Leach International Corporation

Leach International Corporation has been a leader in aerospace switching and control technology since 1919. Leach designs and manufactures high-reliability relays, contactors, and power distribution systems for aerospace, defense, and industrial applications.

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