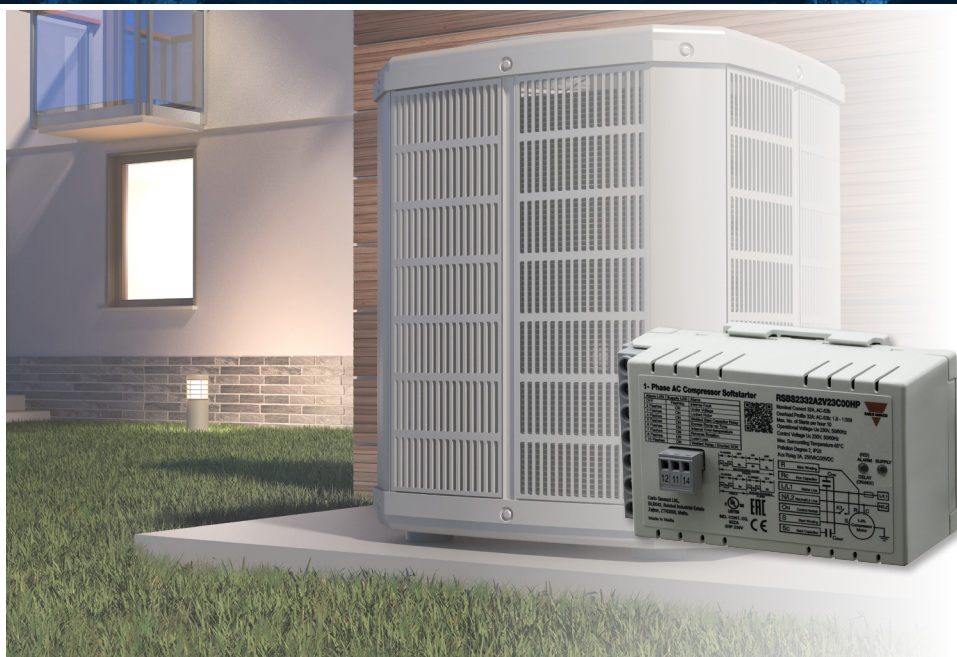


Application note



Subject:
**A Safe and Compliant Solution
 for A2L Refrigerant HVAC
 Systems**

Industry:
HVAC

Product:
RSBS

Customer:
OEMs

CUSTOMER ISSUE

Scroll compressors are widely used in HVAC applications, particularly in heat pumps.

The adoption of A2L (mildly flammable) refrigerants is driving new safety requirements across the industry. Customers increasingly need solutions that ensure safe operation in the presence of flammable refrigerants, while complying with evolving international standards and regulations.

Particular attention must be given to minimizing potential ignition risks inside electrical panels, especially in indoor or enclosed installations where safety constraints are more stringent.

At the same time, OEMs are looking for reliable, proven components that can be easily integrated into their systems, while also simplifying the certification process of HVAC units and control panels.

OUR SOLUTION

RSBS is a single-phase soft starter designed for scroll compressors up to 32 A.

It addresses these requirements by combining proven performance with flammability-certified materials, enabling safer operation in applications involving A2L refrigerants.

It is specifically designed for safe integration into HVAC systems operating in flammability-sensitive environments, without compromising performance.

Based on well-established and field-proven technology for compressor starting, RSBS ensures reliable operation under all typical conditions.

Its compact design and ease of installation allow seamless integration into existing systems, with no need for redesign. At the same time, it maintains the same electrical performance and functionality as the standard RSBS, ensuring full continuity for existing applications.

BENEFITS

- **Reduces risks** in applications where fire safety is a concern, thanks to flammability-certified materials
- **Enables access to regulated and safety-driven markets** requiring compliance with fire-related standards
- **Simplifies the design and certification process** of HVAC units and control panels, reducing engineering effort and time to market
- **Provides a clear opportunity** for product differentiation beyond price and performance, enabling a strong safety-driven value proposition