

RF1 mini puck solid state relays

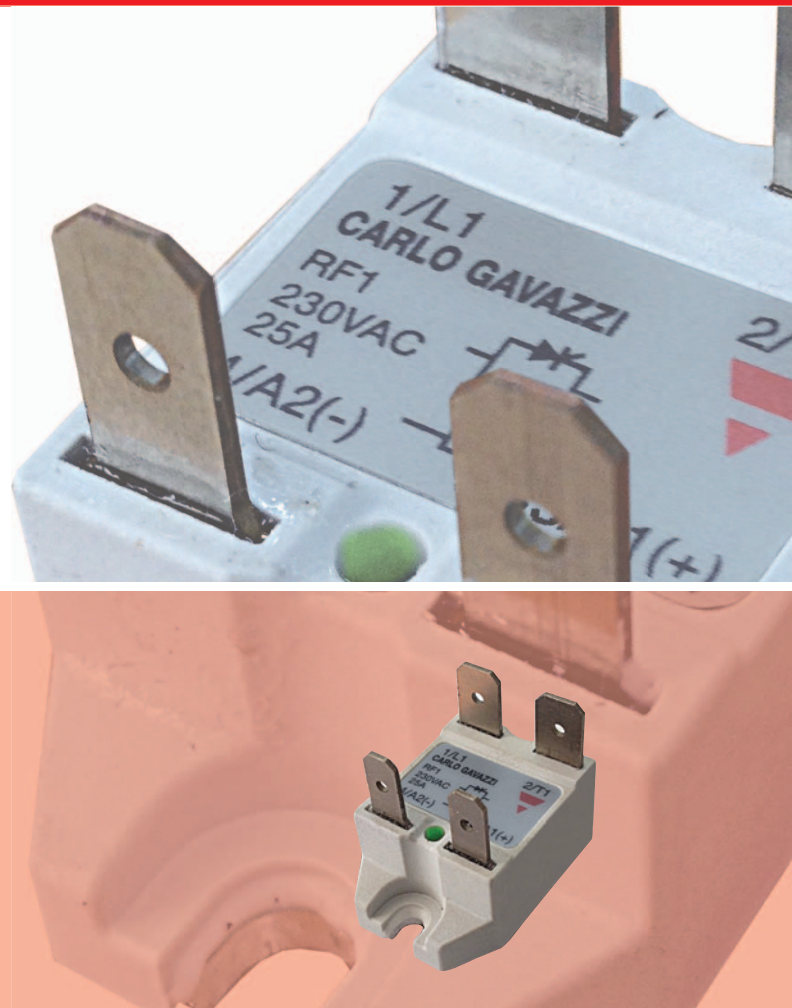
Switches

RF1 series

Mini puck solid state relay

The **RF1** mini puck solid state relay complements the extensive range of Carlo Gavazzi solid state switching solutions with the addition of a new compact platform that occupies only 30% the space normally required with standard hockey puck solid state relays.

Despite the compact dimensions, reliability is not compromised. Switching is done through back to back thyristors that are more robust compared to triacs. The use of wire bonding assembly technology adapted in the design of the **RF1** ensures less mechanical and thermal stresses on the output chips leading to a longer product lifetime. The **RF1** is the solution when space is a constraint and when trouble free frequent switching of resistive loads is required.



Compact solid state relay for quick mounting

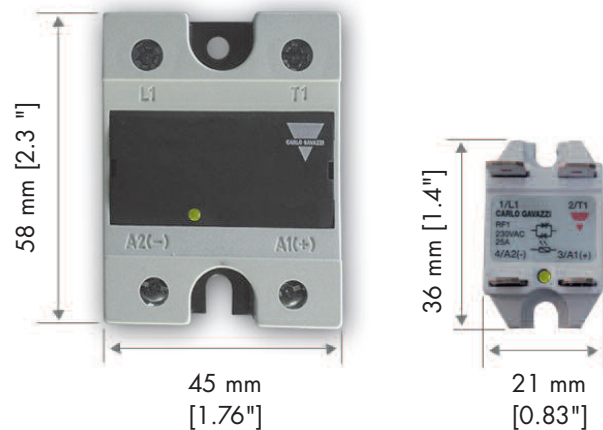
Main Features

- 1-phase AC solid state relay
- Zero cross switching or Instant on switching
- Back to back thyristors for output switching
- Long lifetime through reduced stresses on output chips
- Ratings up to 280 VAC, 25 AAC @ 80 °C (176 °F)
- 5 VDC, 12 VDC or 24 VDC control voltage
- LED indication for control ON
- Integrated output overvoltage protection
- 100,000 cycle (endurance) tests according to UL508
- Conformance to EN 60335-1 requirements
- Pre-attached thermal interface to SSR backplate



Space Economy

- A solution that occupies only 30% the space of standard hockey puck SSRs



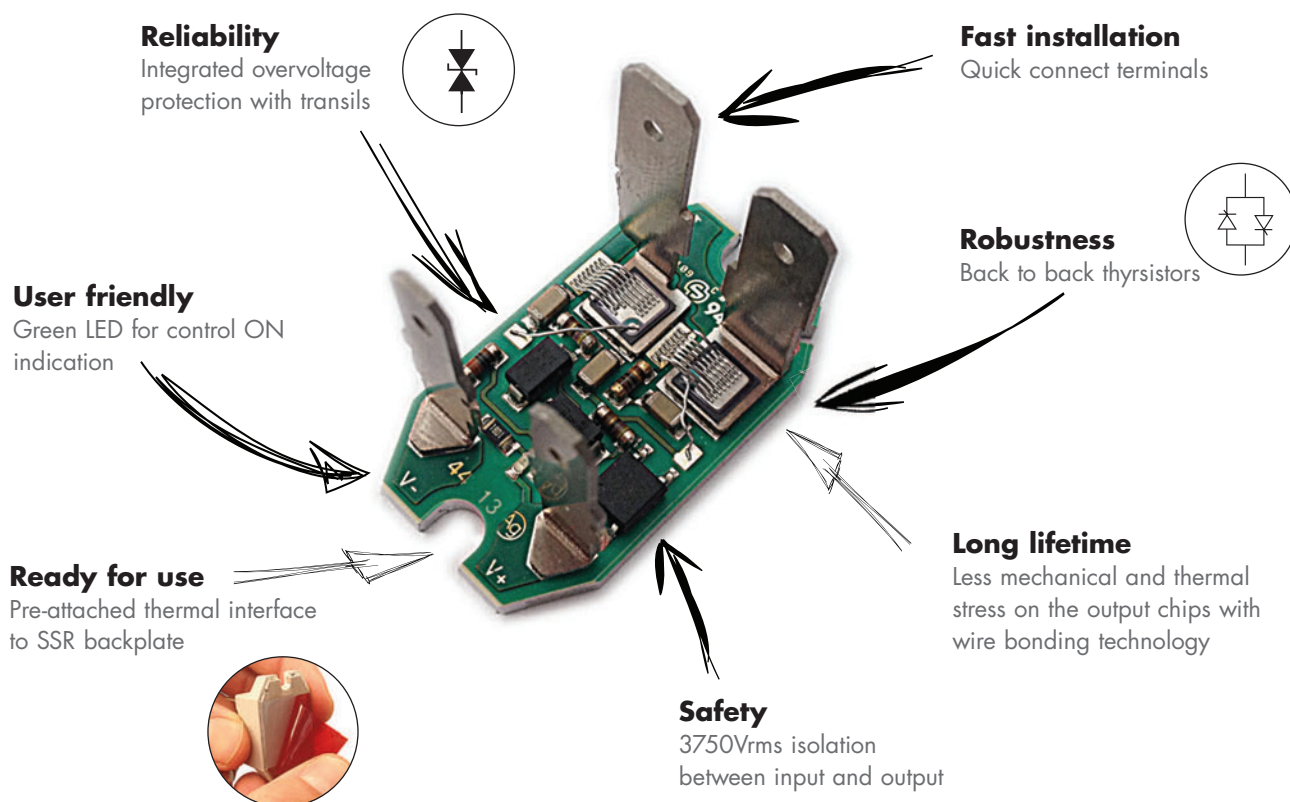
Applications

- Coffee machines
- Climatic chambers
- Kitchen appliances
- Temperature control units
- Vending machines

The **RF1** is particularly suited when trouble free operation is required for a large number of cycles and space is a big constraint. In particular to the Food & Beverage industry the **RF1** conforms to the glow wire test requirements of EN 60335-1 and is certified by UL for 100,000 cycles acc. to UL508. Integrated protection ensures reliable operation and reduces downtime.



A space and cost saving solution without compromises



Selection Guide

Switching mode	Operational voltage	Max. current	Control voltage		
			4.25 - 9 VDC	9 - 18 VDC	18 - 28.8 VDC
Zero Cross	24 - 280 VAC	25 AAC	RF1A23L25	RF1A23M25	RF1A23D25
Instant On			RF1B23L25*	RF1B23M25**	RF1B23D25

* 4.5 - 9 VDC for RF1B ** 11 - 18 VDC for RF1B

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