

# SOLID STATE RELAYS

12/24V 25A

PWM Signal (Form A and Form C)



**Solid State Relays (SSRs)** offer reliable and efficient switching for various applications. Designed for high performance, energy efficiency, and durability, these relays are ideal for automotive, mobility, and industrial environments.

Built to withstand harsh conditions, SSRs ensure dependable operation while providing advanced protection for enhanced safety.

## 12/24V 25A

This Solid-State Relay with PWM control is designed for high-performance applications that demand precise and silent switching. Ideal for automotive and industrial environments, it efficiently manages lamp, resistive, and inductive loads without the wear or noise of mechanical relays.

Its solid-state design ensures high reliability even under extreme vibration and g-load conditions. Faster switching speeds and a compact ISO mini-relay footprint simplify integration, making it a robust solution for modern systems.

## Benefits:

**Silent Operation:** Wear-free, noise-free switching for sensitive environments.

**High Performance:** Handles peak inductive and resistive currents effortlessly.

**Durability:** Maintenance-free design with no moving parts.

**Compact design** with ISO-compatible connections for seamless integration and easy replacement.

**Enhanced Reliability:** Built-in overcurrent protection ensures long-term performance.

## Technical Data

Nominal Input Voltage	12/24 Vdc
Input Range Voltage	9-32 Vdc
Nominal Current	25 A
Peak Current	50 A ( $\leq 1''$ )
Current Consumption	<1mA
Duty Cycle	$\leq 100\%$
PWM Frequency	$\leq 30$ KHz
Storage Temperature	-40°C to 85°C
Working Temperature	-40°C to 75°C (with derating)
Housing	PA6.6GF30
Connector	4/ pins (ISO7588)
Environmental Protection	IP54

## Applications:

Guilera's SSRs are trusted across multiple sectors:

### Industrial Equipment:

Automation systems, conveyor belts, and manufacturing lines.

### Automotive:

Electrical systems in vehicles, including lighting, HVAC, and motor controls.

### Agriculture:

Sprayers, irrigation systems, and utility vehicles.

### Transportation:

Buses, trucks, and e-mobility solutions.

### Construction:

Machinery requiring precise and durable switching.



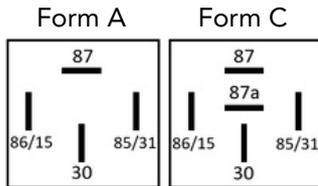
# SOLID STATE RELAY

12/24V 25A

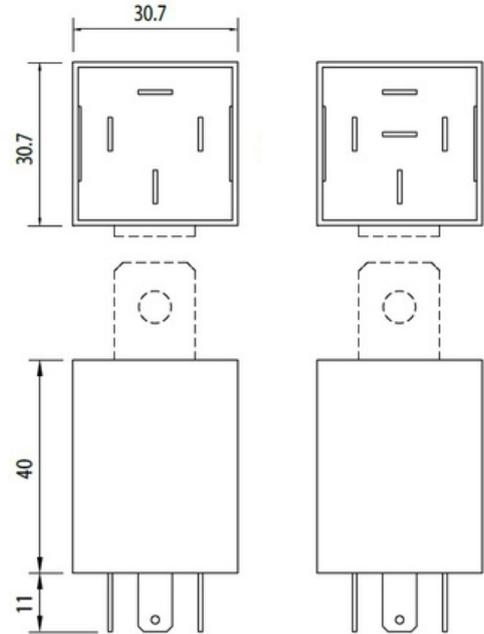
PWM N.O.

## Pin-Out (Forms A and C)

Pin 30:	Vcc	Power Input
Pin 85/31:	GND	Ground
Pin 86/15:	MOSFET Gate	Activation Signal
Pin 87:	MOSFET Out	Power Output N.O.
Pin 87a	MOSFET In	Power Output N.C.



## Dimensions



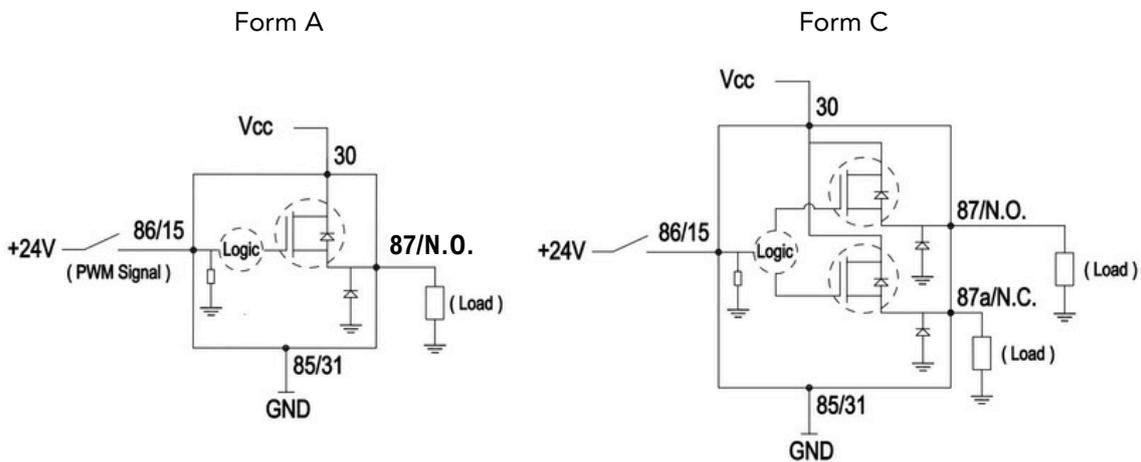
## Protections

- IP54
- Freewheeling Diode
- Internal Overheat (Automatic Restart)
- Short Circuit (Automatic Restart)

## Order Information

SSR 12/24V 25A PWM Form A:	084400
SSR 12/24V 25A PWM Form C:	084500

## Block Function Diagram



## GUILERA S.A.

Founded in 1953, Guilera S.A. specializes in advanced electronic and electromechanical systems for the automotive, off-highway, and mobility sectors.

Our products include reliable DC-DC converters, electronic power control systems for traction, advanced flasher units, and solid-state electronics.

Guilera is committed to sustainability and social responsibility, integrating eco-friendly practices and pursuing CSR certifications. Serving OEMs and Tier 1 suppliers, we continuously innovate to shape the future of transportation and mobility.

 <https://www.linkedin.com/company/guilera>

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