

Solid State Relays 1-Phase with Integrated Current Monitoring Types RGC1S, RGS1S

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- Product width ranging from 22.5mm to 70mm
- Available with or without integrated heatsink
- Partial load failure detection
- Zero cross switching
- Ratings up to 600VACrms & 85AACrms @ 40°C
- Up to 6600A²s for I²t and 1200Vp for blocking voltage
- Control voltage range : 4 - 32 VDC
- Local or remote current set-point
- LED indications for the different faults
- Alarm signal output for SSR or load circuit malfunction
- IP20 protection
- Integrated voltage transient protection with varistor
- RoHS compliant
- Short circuit current rating 100kArms

Product Description

This slim RG design is capable of detecting various failure modes occurring to the heaters and also to the product itself. Failures which can be detected include partial load failure, heater loss, open circuit SSR, short circuit SSR and SSR over temperature. A normally closed, potential free alarm, opens in the event of a system or power semiconductor fault.

A load current setpoint has to be TEACHed to the SSR either locally by the TEACH button

on the front of the device or remotely through the provided terminal.

This product is available either with integrated heatsink (RGC1S series) and also without heatsink (RGS1S series). The minimum product width is 22.5mm. The control and auxiliary terminals are double box clamps to facilitate safe looping whilst the power terminals are either screw terminals or box clamps depending on the model selected.

Note: Specifications stated at 25°C unless specified.

Ordering Key

RGC 1 S 60 D 30 G K E P _

Solid state relay	_____
Number of poles	_____
Switching mode	_____
Rated operational voltage	_____
Control voltage	_____
Rated operational current	_____
Connection type for control	_____
Connection type for power	_____
Connection configuration	_____
Protection	_____
Options	_____

Ordering Key

1-Phase SSR	Switching mode	Rated V, Blocking V*	Control voltage	Rated current ¹ @ 40°C I ² t data	Connection input	Connection output	Connection configuration	Protection
RGC1: with heatsink	S: Zero cross with current sensing	60:600VAC +10% -15%, 1200Vp	D: 4-32VDC	20: 23AAC, 525A ² s 25: 23AAC, 1800A ² s 30: 30AAC, 1800A ² s 31: 30AAC, 6600A ² s 41: 40AAC, 6600A ² s 61: 60AAC, 6600A ² s 90: 85AAC, 6600A ² s	G: Box Clamp	K: Screw G: Box Clamp	E: Contactor U: SSR	P: Over-temperature protection

* Rated voltage, Blocking voltage

1: refer to derating curves for RGC models and heatsink selection tables for RGS models