

## **RG..M: Solid state relays with integrated monitoring**

# **Switches**

# RG..M series

## Solid state relays with integrated monitoring

Fault handling is a recurring headache for machine builders due to the time consumed to identify the fault and the negative effect it leaves on productivity. Having machine components that are able to indicate where the fault is happening and distinguish between certain failures means less maintenance costs and minimised machine downtime.

With the **RG..M** series, Carlo Gavazzi has enhanced the versatility of its successful RG range of solid state relays to include monitoring functions on top of the switching capabilities in a slim 17.8mm footprint. Detection of system faults (mains loss, load loss, SSR open and short circuit), SSR internal error and supply out of range are visualised on the front façade of the SSR via LEDs and can also be monitored remotely via a transistor output integrated in the SSR.



## Timely failure detection in plug and play solutions

### Main features

- Monitoring for system fault (mains loss, load loss, SSR open and short circuit), SSR internal error and supply out of range
- 1-phase zero cross AC switching
- Ratings for RGC..M: up to 660 VAC, 65 AAC
- Ratings for RGS..M: up to 660 VAC, 90 AAC
- 17.8 mm platform, up to 70 mm for RGC > 30 AAC
- DC control voltage range: 4 - 32 VDC
- 24 VDC supply voltage
- Up to 18000 A<sup>2</sup>s for Type B Miniature Circuit Breaker protection
- 100 kArms short circuit current rating acc. to UL508

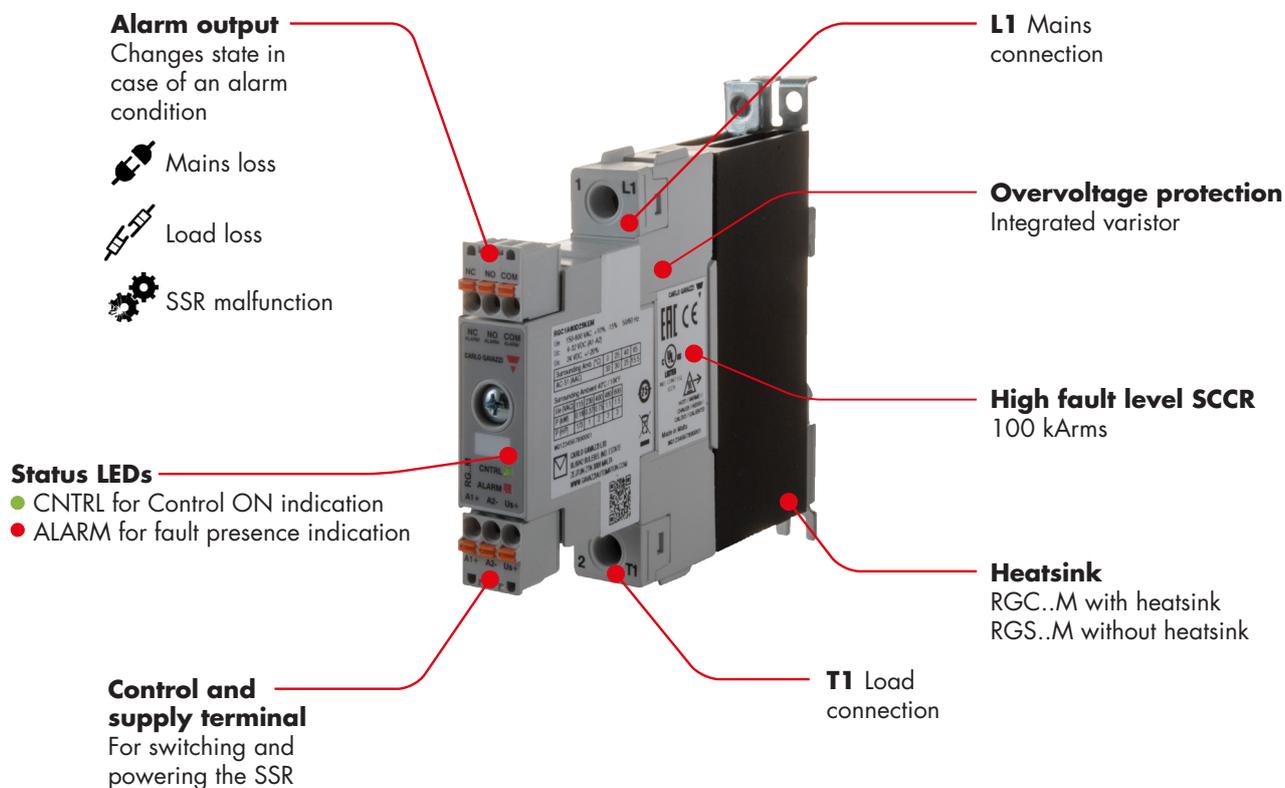
### Benefits



Cost savings with timely failure detection:

- **Increased production throughput**  
Fast reaction to failures
- **Machine uptime**  
Reliability through integrated over voltage protection
- **Fast installation**  
Spring plugs for auxiliary terminals
- **Easy troubleshooting**  
Various faults distinguished via a flashing LED
- **Panel space savings**  
Switching and monitoring in a 17.8mm platform

## Main features



UR, CSA only for RGS..M (version without integrated heatsink)

## Selection guide

### RGC..M (with integrated heatsink)

Rated voltage	20 AAC (525 A <sup>2</sup> s) 17.8 mm	25 AAC (1800 A <sup>2</sup> s) 17.8 mm	30 AAC (1800 A <sup>2</sup> s) 22.5 mm	30 AAC (6600 A <sup>2</sup> s) 17.8 mm	43 AAC (18000 A <sup>2</sup> s) 35 mm	65 AAC (18000 A <sup>2</sup> s) 70 mm
230 VAC	RGC1A23D15KEM	-	-	RGC1A23D31KEM	-	-
600 VAC	RGC1A60D15KEM	RGC1A60D25KEM	RGC1A60D30KEM	RGC1A60D31KEM	-	-
	-	-	-	-	RGC1A60D42GEM	RGC1A60D62GEM

### RGS..M (without heatsink)

Rated voltage	25 AAC (525 A <sup>2</sup> s) 17.8 mm	50 AAC (1800 A <sup>2</sup> s) 17.8 mm	90 AAC (18000 A <sup>2</sup> s) 17.8 mm	-	-	-
230 VAC	RGS1A23D25KEM	-	-	-	-	-
600 VAC	RGS1A60D25KEM	RGS1A60D50KEM	RGS1A60D92KEM RGS1A60D92GEM	-	-	-

KEM = screws for power terminals | GEM = box clamps for power terminals  
Further details are available on online datasheets at [www.gavazziautomation.com](http://www.gavazziautomation.com)

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