



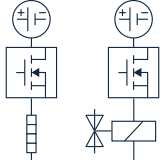
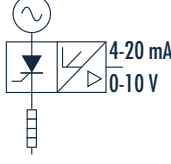
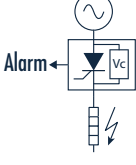
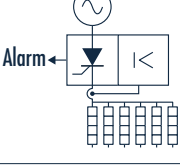
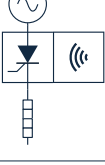
Overview

Solid state relays

Overview

Solid state relays

Function table

		Panel mount			DIN-Rail mount			PCB
		1-pole	2-pole	3-phase	1-pole	3-phase, 2-pole	3-phase	1-pole
Heater switching		RF1 RA / RA60 RS1 RGS1 RM1 / RAM1	RA2A RKD2 RK2	RZ3A	RGC1 RGH1	RGC2A	RGC3A RGCM3A	RP1 RP..10
Motor switching		RGS1 RM1	RA2A	RZ3A	RGC1 RGH1	RGC2A	RGC3A RGCM3A	RP1 RP..10
DC switching		RM1D RGS1D			RGC1D			RP1D
Peak switching		RM1C						
Proportional controllers		RM1E RGS1P			RGC1P	RGC2P	RGC3P	
Soft starting		RGS1P			RGC1P		RGC3P	
System monitoring		RA..S RGS1..M			RGC1..M	RGC2..M	RGC3..M	
Current monitoring		RGS1S			RGC1S			
Communication interface					NRG			

Overview

Solid state relays



Specification table

Ratings (Amps)			3	10	20	25	30	40	50	55	65	75	80	90	100	110	125		
Panel mount	RA	Flat top, 480 VAC				▼			▼					▼					
	RA60	Flat top, 1600 Vp, 600 VAC							▼					▼		▼			
	RA..S	System monitoring, 480 VAC				▼			▼							▼			
	RA2A	FASTONs, 600 VAC				▼		▼											
	RAM1	VDE, 690 VAC				▼			▼			▼			▼		▼		
	RAM1..G	VDE, IEC 60335-1, 600 VAC				▼			▼						▼		▼		
	RF1	FASTONs, 280 VAC				▼													
	RGS1..E	E layout, 690 VAC				▼			▼			▼		▼					
	RGS1..U	U layout, 600VAC					▼												
	RGS1..M	System monitoring, 600 VAC				▼			▼					▼					
	RGS1D	1000 VDC				▼													
	RGS1P	Analog input, 600 VAC							▼					▼					
	RGS1S..E	E layout, Current monitoring					▼							▼					
	RGS1S..U	U layout, Current monitoring										▼							
	RK2, RKD2	2-pole, screws, 600VAC							▼				▼						
	RM1	1400V blocking, 690 VAC				▼			▼				▼			▼			
	RM1C	Peak switching, 600 VAC				▼			▼				▼			▼			
	RM1D	DC switching, 60, 200, 500 VDC	▼	▼	▼				▼							▼			
	RM1E	Phase angle, 600 VAC				▼			▼							▼		▼	
	RS1	No varistor, 480 VAC		▼		▼		▼											
	RS1..E	Triac or SCR output, 480 VAC				▼		▼					▼			▼			
	RZ3A	3-phase, 3-pole, 690 VAC				▼				▼		▼							
Ratings (Amps)			10	15	20	23	25	30	37	40	43	50	60	63	65	75	85		
DIN-Rail mount	NRG	Communication*					▼	▼	▼		▼				▼				
	RGC1..E	E layout, 600 VAC			▼	▼	▼	▼	▼	▼	▼		▼		▼				
	RGC1..EP	Integrated OTP						▼			▼				▼		▼		
	RGC1..U	U layout, 600VAC			▼	▼	▼	▼		▼	▼		▼		▼				
	RGC1..UP	Integrated OTP							▼				▼				▼		
	RGC1..M	System monitoring, 600 VAC			▼		▼	▼			▼				▼				
	RGC1D	1000 VDC		▼															
	RGC1P	Analog input, 600 VAC		▼				▼			▼	▼		▼					
	RGC1S..E	E layout, Current monitoring				▼	▼	▼			▼				▼		▼		
	RGC1S..U	U layout, Current monitoring									▼				▼				
	RGC2A	3-phase, 2-pole, 600 VAC	▼				▼			▼							▼		
	RGC2A..M	System monitoring, 600 VAC					▼			▼						▼			
	RGC2P	Analog input, 600 VAC					▼			▼						▼			
	RGC3A	3-phase, 3-pole, 600VAC	▼		▼		▼	▼		▼					▼				
	RGC3A..M	System monitoring, 600 VAC			▼		▼	▼							▼				
	RGC3P	Analog input, 600 VAC			▼			▼							▼				
	RGCM3A	3-phase, 3-pole 45 mm wide		▼															
	RGH1..E	E layout, 1600 Vp, 690 VAC				▼		▼		▼			▼						
	RGH1..U	U layout, 1600 Vp, 690 VAC								▼			▼						
Ratings (Amps)													1	3	4	5	6	8	10
PCB	RP1, RP..10	Triac, 480 VAC											▼		▼	▼		▼	
	RP1D	60 VDC, 350 VDC										▼		▼			▼		

* Modbus RTU/TCP, PROFINET, EtherNET/IP, EtherCAT

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Overview

Solid state relays

1-pole switching



Family	RP1	RP.10	RF1	RA	RA60
Maximum output ratings	up to 530 VAC, 5.5 AAC	up to 530 VAC, 10 AAC	up to 280 VAC, 25 AAC	up to 530 VAC, 90 AAC	up to 660 VAC, 110 AAC
Control voltage	4-32 VDC	4-32 VDC	5 / 12 / 24 VDC	3-32 VDC 10-90 VAC/DC, 90-280 VAC/DC	4.5-32 VDC
Width x Height x Depth (mm)	10.5 x 25 x 43	22 x 37 x 43	21 x 36 x 24	45 x 58 x 29	45 x 58 x 29
Certifications	CE - cURus - VDE - EAC - UKCA	CE - cURus - EAC - UKCA	CE - cURus - CSA - VDE - EAC - UKCA	CE - cURus - CSA - EAC - UKCA	CE - cURus - CSA - EAC - UKCA
Features	• PCB mount • RP..M, DIN accessory	• PCB mount • 25A with forced cooling	• Conforms to EN 60335-1 • UL 100,000 cycle test	• Flat mounting surface	• 1600 Vp blocking • Varistor protection
Typical part number	RP1 A 23 D 5	RP1 A 23 D 10	RF1 A 23 D 25	RA 24 25 -D 06	RA 60 50 -D 16

1-pole switching



Family	RS1..E	RS1	RM1	RAM1	RAM1..G
Maximum output ratings	up to 530 VAC, 100 AAC	up to 530 VAC, 40 AAC	up to 660 VAC, 100 AAC	up to 750 VAC, 125 AAC	up to 660 VAC, 125 AAC
Control voltage	3-32 VDC 80-250 VAC	4-32 VDC 18-36 VAC/DC	4-32 VDC 20-280 VAC / 22-48 VDC	4-32 VDC 20-280 VAC / 22-48 VDC	4-32 VDC 20-280 VAC / 22-48 VDC
Width x Height x Depth (mm)	45 x 58 x 29	45 x 58 x 29	45 x 58 x 29	45 x 58 x 29	45 x 58 x 29
Certifications	CE - cURus - CSA - EAC - UKCA	CE - cURus - CSA - EAC - UKCA	CE - cURus - CSA - CCC - EAC - UKCA	CE - cURus - CSA - CCC - VDE - EAC - UKCA	CE - cURus - CSA - CCC - VDE - EAC - UKCA
Features	• Triac output (up to 80 AAC) • Varistor protection	• 1200 Vp blocking	• 1400 Vp blocking • Varistor protection	• 1200 Vp blocking • Optional protection	• Conforms to EN 60335-1 • Varistor protection
Typical part number	RS1 A 40 D 25 E	RS1 A 40 D 25	RM1 A 23 D 25	RAM1 A 60 D 25	RAM1 A 60 D 25 G

1-pole switching



Family	RGS1..E	RGS1..U	RGC1..E	RGC1..U	RGH1
Maximum output ratings	up to 750 VAC, 90 AAC	up to 660 VAC, 30 AAC	up to 660 VAC, 85 AAC	up to 660 VAC, 85 AAC	up to 750 VAC, 60 AAC
Control voltage	4-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 20-275 VAC / 24-190 VDC
Width x Height x Depth (mm)	17.8 x 90 x 51	17.8 x 90 x 51	17.8 up to 70 width	17.8 up to 70 width	17.8 up to 70 width
Certifications	CE - cULus - CSA - VDE - EAC - UKCA	CE - cULus - CSA - VDE - EAC - UKCA	CE - cULus - VDE - GL* - EAC - UKCA	CE - cULus - VDE - GL* - EAC - UKCA	CE - cULus - VDE - EAC - UKCA
Features	• Varistor protection • 18,000 A ² s for I ² t	• Varistor protection • Slim U-type platform	• Varistor protection • 100 kA UL508 SCCR	• Varistor protection • 100 kA UL508 SCCR	• Varistor protection • 1600 Vp blocking
Typical part number	RGS1 A 60 D 50 K K E	RGS1 A 60 D 30 K G U	RGC1 A 60 D 25 K K E	RGC1 A 60 D 25 K G U	RGH1 A 60 D 41 K G E

Red digits are changeable. Refer to datasheet / SCCR = Short Circuit Current Rating / *GL approval up to 30 A

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Solid state relays

2-pole switching



Family	RA2A	RA2A..C	RKD2	RK2
Maximum output ratings	up to 660 VAC, 40 AAC	up to 660 VAC, 40 AAC	up to 660 VAC, 75 AAC	up to 660 VAC, 75 AAC
Control voltage	4.5-32 VDC	4.5-32 VDC	4-32 VDC	4-32 VDC
Width x Height x Depth (mm)	45 x 58 x 32	45 x 58 x 35	45 x 58 x 33 / 44	45 x 58 x 33 / 44
Certifications	CE - cURus - CSA - EAC - UKCA	CE - cURus - TUV* - EAC - UKCA	CE - cURus - CSA - VDE - EAC - UKCA	CE - cURus - CSA - VDE - EAC - UKCA
Features	• Fastons for quick setup • 'M' option for inductive loads	• Varistor protection • 4-pin header for control	• Transil protection • Conforms to EN 60335-1	• Common control • Conforms to EN 60335-1
Typical part number	RA2A 23 D 25 M	RA2A 23 D 25 C	RKD2 A 60 D 50 P	RK2 A 60 D 50 P

3-phase switching



Family	RGC2A	RZ3A	RGCM3A	RGC3A
Maximum output ratings	up to 660 VAC, 75 AAC	up to 750 VAC, 75 AAC	up to 660 VAC, 15.5 AAC	up to 660 VAC, 65 AAC
Control voltage	5-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 24-275 VAC / 24-50 VDC	5-32 VDC	5-32 VDC 20-275 VAC / 24-190 VDC
Width x Height x Depth (mm)	54 up to 72 width	103 x 74 x 41	45 x 105 x 105	54 up to 72 width
Certifications	CE - cULus - VDE** - CCC - EAC - UKCA	CE - cURus - CSA - EAC - UKCA	CE - cULus - EAC - UKCA	CE - cULus - VDE* - CCC - EAC - UKCA
Features	• 2-pole switching • 100 kA UL508 SCCR	• 1600 Vp blocking • Optional integrated OTP	• 45 mm product width • Varistor protection	• 100 kA UL508 SCCR • Varistor protection
Typical part number	RGC2 A 60 D 40 KGE	RZ3 A 60 D 55	RGCM3 A 60 D 15 GKE	RGC3 A 60 D 30 KGE

Proportional controllers



Family	RM1E	RGS1P	RGC1P	RGC2P	RGC3P
Maximum output ratings	up to 660 VAC, 125 AAC	up to 660 VAC, 90 AAC	up to 660 VAC, 63 AAC	up to 660 VAC, 75 AAC	up to 660 VAC, 65 AAC
Control input	4-20 mA 0-10 VDC	4-20 mA 0-10 / 0-5 / 1-5 VDC, external potentiometer	4-20 mA 0-10 / 0-5 / 1-5 VDC, external potentiometer	0-20 / 4-20 / 12-20 mA 0-10 / 0-5 / 1-5 VDC, external potentiometer	0-20 / 4-20 / 12-20 mA 0-10 / 0-5 / 1-5 VDC, external potentiometer
Width x Height x Depth (mm)	45 x 58 x 29	35.8 x 90 x 51	35.8 up to 72 width	54 up to 72 width	54 up to 72 width
Certifications	CE - cURus - CSA - EAC - UKCA	CE - cURus - CSA - EAC - UKCA	CE - cULus - EAC - UKCA	CE - cULus - EAC - CCC - EAC - UKCA	CE - cULus - EAC - CCC - EAC - UKCA
Features	• Phase angle	• Phase angle, Full cycle, Advanced full cycle, Soft start	• Phase angle, Full cycle, Advanced full cycle, Soft start	• Full cycle	• Phase angle, Full cycle, Soft start
Typical part number	RM1E 40 AA 50	RGS1P 60 V 50 E D	RGC1P 60 V 30 E D	RGC2P 60 V 40 C1 D M	RGC3P 60 V 30 C1 D M

Red digits are changeable. Refer to datasheet / SCCR = Short Circuit Current Rating / OTP = Over Temperature Protection / *TUV only for RA2A60D40C / **VDE only for RGC..10

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Solid state relays

Integrated system monitoring



Family	RA..S	RGS1..M	RGC1..M	RGC2A..M	RGC3A..M
Maximum output ratings	up to 530 VAC, 110 AAC	up to 660 VAC, 90 AAC	up to 660 VAC, 65 AAC	up to 660 VAC, 75 AAC	up to 660 VAC, 65 AAC
Failure detection	Mains, load or SSR failure	Mains, load or SSR failure	Mains, load or SSR failure	Mains, Load, SSR failure or OTP	Mains, Load, SSR failure or OTP
Width x Height x Depth (mm)	45 x 58 x 29	17.8 x 90 x 82	17.8 up to 70 width	54 up to 72 width	54 up to 72 width
Certifications	CE - cULus - CSA - EAC - UKCA	CE - cULus - CSA - EAC - UKCA	CE - cULus - EAC - UKCA	CE - cULus - CCC - EAC - UKCA	CE - cULus - CCC - EAC - UKCA
Features	• DC external supply • NC or NO alarm o/p	• DC external supply • NC or NO alarm o/p	• DC external supply • NC or NO alarm o/p	• DC/AC external supply • NC or NO alarm o/p	• DC/AC external supply • NC or NO alarm o/p
Typical part number	RA 23 25 H 06 N C S	RGS1 A 60 D 50 K EM	RGC1 A 60 D 25 K EM	RGC2A 60 D 40 GGE DM	RGC3A 60 D 30 GGE DM

Integrated current monitoring

Integrated OTP



Family	RGS1S	RGC1S	RGC1..P
Maximum output ratings	up to 660 VAC, 90 AAC	up to 660 VAC, 85 AAC	up to 660 VAC, 85 AAC
Failure detection	Partial Load Failure (1/6), Load or SSR failure, OTP	Partial Load Failure (1/6), Load or SSR failure, OTP	Over temperature
Width x Height x Depth (mm)	22.5 x 90 x 78	22.5 up to 70 width	22.5 up to 70 width
Certifications	CE - UR - CSA - EAC - UKCA	CE - cULus - EAC - UKCA	CE - cULus - EAC - UKCA
Features	• Local or remote TEACH • NC alarm o/p	• Local or remote TEACH • NC alarm o/p	• Varistor protection • 100ka UL508 SCCR
Typical part number	RGS1 S 60 D 30 G K E P	RGC1 S 60 D 25 G K E P	RGC1 A 60 D 30 G K E P

Communication interface



Family	NRG - Modbus RTU		NRG - Ethernet
Maximum output ratings	up to 660 VAC, 65 AAC		up to 660 VAC, 65 AAC
Control input	4-32 VDC		Via communication (or 4-32 VDC)
Certifications	CE - cULus - EAC - UKCA		CE - cULus - EAC - UKCA
Protocols	Modbus RTU [NRGC]		PROFINET [NRGC-PN], EtherNet/IP [NRGC-EIP], EtherCat [NRGC-ECAT], Modbus TCP/IP [NRGC-MBTCP]
Features	Switching mode: ON/OFF through external control voltage Read-outs: Current, Voltage, Power, Energy consumption, Running hours		Switching mode: RGC1A: ON/OFF, DFC, AFC, Bust RGC1P: PA, ON/OFF, DFC, AFC, Burst with soft start option Read-outs: Current, Voltage, Power, Energy consumption, Running hours
Typical part number	NRGC, RGC1 A 60 D 25 K EN		NRGC-PN, RGC1 A 60 CM 25 K EN

Red digits are changeable. Refer to datasheet / SCCR = Short Circuit Current Rating / OTP = Over Temperature Protection / NC = Normally Closed, NO = Normally Open / PA = Phase angle / DFC = Distributed full cycle / AFC = Advanced full cycle

CARLO GAVAZZI Automation Components. Specifications are subject to change without notice. Illustrations are for example only.

Solid state relays

DC switching

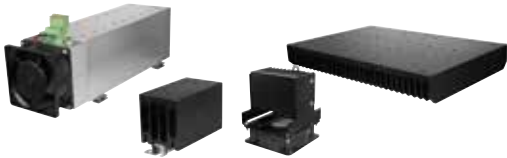
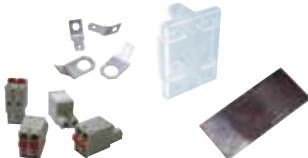
				
Family	RP1D	RM1D	RGS1D	RGC1D
Maximum output ratings	8A/60 VDC, 1A/350 VDC	100A/60VDC, 50A/200VDC, 10A/500VDC	up to 1000 VDC, 25 ADC	up to 1000 VDC, 15 ADC
Control voltage	4.25-32 VDC	4(4.5)-32 VDC	4.5-32 VDC	4.5-32 VDC
Width x Height x Depth (mm)	10.5 x 25 x 43	45 x 58 x 30	17.8 x 90 x 51	17.8 x 110 x 141
Certifications	CE - UR - cUR - EAC - UKCA	CE - UR - CSA - EAC - UKCA	CE - UR - CSA - EAC - UKCA	CE - cULus - EAC - UKCA
Features	• PCB mount • RP..M, DIN accessory	• Low power dissipation • Up to 1kHz switching frequency	• Slim platform • IGBT output	• Slim platform • IGBT output
Typical part number	RP1D 060 D 8	RM1D 060 D 100	RGS1 D 1000 D 25 KKE	RGC1 D 1000 D 15 KKE

Peak switching

Soft starting

		
Family	RM1C	RGC3P.S
Maximum output ratings	up to 660 VAC, 100 AAC	up to 660 VAC, 65 AAC
Control voltage	4.25-32 VDC	5-10 VDC
Width x Height x Depth (mm)	45 x 58 x 29	54 up to 72 width
Certifications	CE - cURus - CSA - EAC - UKCA	CE - cULus - CCC EAC - UKCA
Features	• Ideal for loads with power factor >0.2 such as transformer switching	• Ramp up time up to 5s • Ideal for Short Wave Infrared heaters
Typical part number	RM1C 40 D 100	RGC3P 60 V 30 SDM

Accessories

		
Family	Heatsinks	Other accessories
Ratings	5.4 to 0.4 °C/W	-
Width x Height x Depth (mm)	-	-
Certifications	CE - UKCA (RoHS conformant)	CE - UKCA (RoHS conformant)
Features	• DIN mount, Panel mount and thru wall mount heatsinks	• Thermal pads, Terminal adaptors, Protection covers, etc.
Typical part number	RHS...	-

Red digits are changeable. Refer to datasheet / SCCR = Short Circuit Current Rating / SSR = Solid State Relay

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