



Overview

Solid state relays

Overview

Solid state relays

Function table

		Panel mount			DIN-Rail mount			PCB
		1-phase	2-pole	3-phase	1-phase	3-phase, 2-pole	3-phase	1-phase
Heater switching		RF1 RA / RA60 RS1 RGS1 RM1 / RAM1	RA2A RKD2 RK2	RZ3A	RGC1 RGH1	RGC2A RGCM2A	RGC3A RGCM3A	RP1 RP..10
Motor switching		RGS1 RM1	RA2A	RZ3A	RGC1 RGH1	RGC2A RGCM2A	RGC3A RGCM3A	RP1 RP..10
DC switching		RD RGS1D			RGC1D			RP1D
Peak switching		RM1C						
Proportional controllers		RM1E RGS1P			RGC1P	RGC2P	RGC3P	
Soft starting		RGS1P..K			RGC1P..K		RGC3P	
Reversing relays						REC2R		
Integrated fuse					RGC1FA RGC1FS			
System monitoring		RA..S RGS1..M			RGC1..M	RGC2..M	RGC3..M	
Current monitoring		RGS1S			RGC1S			
Real time monitoring					NRG RJ..MB			
Hybrid relays			RMD2H	RMD3H	RMD1H			

Specification table

Ratings (Amps)		1	5	10	15	25	30	40	50	55	65	75	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					▼		▼					▼		▼		
	RD	60 VDC, 350 VDC	▼	▼														
	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							▼					▼				
	RGS1P..K	Soft start, 600 VAC							▼					▼				
	RGS1S..E	E layout, Current monitoring						▼						▼				
	RGS1S..U	U layout, Current monitoring										▼						
	RK2	Screws, common control								▼			▼					
	RKD2	Screws, 600 VAC								▼			▼					
	RM1	1400V blocking, 690 VAC					▼		▼				▼		▼			
	RM1C	Peak switching, 600 VAC					▼		▼				▼		▼			
	RM1E	Phase angle, 600 VAC					▼		▼						▼		▼	
	RMD2H, RMD3H	SSR + EMR combination						▼	▼									
	RS1	No varistor, 480 VAC			▼		▼		▼									
	RS1..E	Triac output, 480 VAC					▼		▼									
RZ3A	3-phase, 3-pole, 690 VAC					▼				▼		▼						
Ratings (Amps)		8	10	15	20	23	25	30	37	40	43	50	60	63	65	75	85	
DIN-Rail mount	NRG	Real time monitoring, Modbus					▼	▼	▼		▼				▼			
	REC2R	Reversing, 480 VAC	▼															
	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			▼													
	RGC1FA, RGC1FS	Integrated fuse, 600 VAC				▼			▼		▼							
	RGC1P	Analog input, 600 VAC			▼				▼		▼	▼		▼				
	RGC1P..K	Soft start, 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			▼			▼								▼		
	RGCM2A	3-phase, 2-pole 45 mm wide				▼												
RGCM3A	3-phase, 3-pole 45 mm wide		▼															
RGH1..E	E layout, 1600 Vp, 690 VAC					▼		▼		▼			▼					
RGH1..U	U layout, 1600 Vp, 690 VAC									▼			▼					
RJ..MB	Real time monitoring, Modbus											▼						
RMD1H	SSR + EMR combination				▼													
Ratings (Amps)		1	3	4	5	6	8	10										
PCB	RP1, RP..10	Triac, 480 VAC		▼		▼	▼	▼										
	RP1D	60 VDC, 350 VDC	▼		▼		▼											

Overview

Solid state relays

1-phase 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	CE - cURus	CE - cURus - CSA - VDE - EAC	CE - cURus - CSA	CE - cURus - CSA
Features	<ul style="list-style-type: none"> • PCB mount • RP..M, DIN accessory 	<ul style="list-style-type: none"> • PCB mount • 25A with forced cooling 	<ul style="list-style-type: none"> • Conforms to EN 60335-1 • UL 100,000 cycle test 	<ul style="list-style-type: none"> • Flat mounting surface 	<ul style="list-style-type: none"> • 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-phase switching



Family	RS1..E	RS1	RM1	RAM1	RAM1..G
Maximum output ratings	up to 530 VAC, 40 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	CE - cURus - CSA - EAC	CE - cURus - CSA - CCC - EAC	CE - cURus - CSA - CCC - VDE - EAC	CE - cURus - CSA - CCC - VDE - EAC
Features	<ul style="list-style-type: none"> • Triac output • Varistor protection 	<ul style="list-style-type: none"> • 1200 Vp blocking 	<ul style="list-style-type: none"> • 1400 Vp blocking • Varistor protection 	<ul style="list-style-type: none"> • 1200 Vp blocking • Optional protection 	<ul style="list-style-type: none"> • 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-phase 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 - cURus - CSA - EAC - VDE	CE - cURus - CSA - EAC - VDE	CE - cULus - EAC - VDE - GL*	CE - cULus - EAC - VDE - GL*	CE - cULus - EAC - VDE
Features	<ul style="list-style-type: none"> • Varistor protection • 18,000 A²s for I²t 	<ul style="list-style-type: none"> • Varistor protection • Slim U-type platform 	<ul style="list-style-type: none"> • Varistor protection • 100 kA UL508 SCCR 	<ul style="list-style-type: none"> • Varistor protection • 100 kA UL508 SCCR 	<ul style="list-style-type: none"> • 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

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

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	CE - cURus	CE - cURus - CSA - VDE - EAC	CE - cURus - CSA - VDE - EAC
Features	<ul style="list-style-type: none"> • Fastons for quick setup • 'M' option for inductive loads 	<ul style="list-style-type: none"> • Varistor protection • 4-pin header for control 	<ul style="list-style-type: none"> • Transil protection • Conforms to EN 60335-1 	<ul style="list-style-type: none"> • 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	RGCM2A	RGC2A	RZ3A	RGCM3A	RGC3A
Maximum output ratings	up to 660 VAC, 20 AAC	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	5-32 VDC 20-275 VAC / 24-190 VDC	4-32 VDC 24-275 VAC / 24-50 VDC	5-32 VDC 20-275 VAC / 24-190 VDC	5-32 VDC 20-275 VAC / 24-190 VDC
Width x Height x Depth (mm)	45 x 105 x 105	54 up to 72 width	103 x 74 x 41	45 x 105 x 105	54 up to 72 width
Certifications	CE - cULus - EAC	CE - cULus - VDE* - CCC - EAC	CE - cURus - CSA	CE - cULus - EAC	CE - cULus - VDE* - CCC - EAC
Features	<ul style="list-style-type: none"> • 45 mm product width • Varistor protection 	<ul style="list-style-type: none"> • 100 kA UL508 SCCR • Varistor protection 	<ul style="list-style-type: none"> • 1600 V_r blocking • Optional integrated OTP 	<ul style="list-style-type: none"> • 45 mm product width • Varistor protection 	<ul style="list-style-type: none"> • 100 kA UL508 SCCR • Varistor protection
Typical part number	RGCM2 A 60 D 20 GKE	RGC2 A 60 D 40 GKE	RZ3 A 60 D 55	RGCM3 A 60 D 15 GKE	RGC3 A 60 D 30 GKE

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	CE - cURus - CSA - EAC	CE - cULus - EAC	CE - cULus - EAC - CCC	CE - cULus - EAC - CCC
Features	<ul style="list-style-type: none"> • Phase angle 	<ul style="list-style-type: none"> • Phase angle, Full cycle, Advanced full cycle, Soft start 	<ul style="list-style-type: none"> • Phase angle, Full cycle, Advanced full cycle, Soft start 	<ul style="list-style-type: none"> • Full cycle 	<ul style="list-style-type: none"> • 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 data sheet / SCCR = Short Circuit Current Rating / OTP = Over Temperature Protection / * 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 - cURus - CSA	CE - cURus - CSA - EAC	CE - cULus - EAC	CE - cULus - CCC - EAC	CE - cULus - CCC - EAC
Features	<ul style="list-style-type: none"> • DC external supply • NC or NO alarm o/p 	<ul style="list-style-type: none"> • DC external supply • NC or NO alarm o/p 	<ul style="list-style-type: none"> • DC external supply • NC or NO alarm o/p 	<ul style="list-style-type: none"> • DC/AC external supply • NC or NO alarm o/p 	<ul style="list-style-type: none"> • 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 fuse

Integrated current monitoring



Family	RGC1FA	RGC1FS	RGS1S	RGC1S
Maximum output ratings	up to 660 VAC, 40 AAC	up to 660 VAC, 40 AAC	up to 660 VAC, 90 AAC	up to 660 VAC, 85 AAC
Failure detection	-	Open fuse, Mains, Load or SSR failure	Partial Load Failure (1/6), Load or SSR failure, OTP	Partial Load Failure (1/6), Load or SSR failure, OTP
Width x Height x Depth (mm)	35.6 x 110 x 170	35.6 x 110 x 170	22.5 x 90 x 78	22.5 up to 70 width
Certifications	CE - cULus* - EAC	CE - cULus* - EAC	CE - UR - CSA - EAC	CE - cULus - EAC
Features	<ul style="list-style-type: none"> • DC control SSR with onboard short circuit protection 	<ul style="list-style-type: none"> • DC external supply • NC alarm o/p 	<ul style="list-style-type: none"> • Local or remote TEACH • NC alarm o/p 	<ul style="list-style-type: none"> • Local or remote TEACH • NC alarm o/p
Typical part number	RGC1F A 60 D 40 GGE	RGC1F S 60 D 40 GGE	RGS1 S 60 D 30 G K E P	RGC1 S 60 D 25 G K E P

Integrated OTP

Real time monitoring



Family	RGC1..P	RJ..MB	NRG
Maximum output ratings	up to 660 VAC, 85 AAC	up to 660 VAC, 50 AAC	up to 660 VAC, 65 AAC
Control voltage	5-32 VDC 20-275 VAC / 24-190 VDC	ModBus RTU on RS485	4-32 VDC
Width x Height x Depth (mm)	22.5 up to 70 width	45 x 103 x 122	17.8 up to 70 width
Certifications	CE - cULus - EAC	CE - UR - cUR	CE - cULus - EAC
Features	<ul style="list-style-type: none"> • Varistor protection • 100kA UL508 SCCR 	<ul style="list-style-type: none"> • Selectable mode: ON/OFF, Phase angle, Burst • Read out: Current, Voltage, Power 	<ul style="list-style-type: none"> • Modbus RTU: Current, Voltage, Power, Energy consumption, Running hours
Typical part number	RGC1 A 60 D 30 G K E P	RJ1P 23 MBT 50 E CV	NRG, RGC1 A 60 D 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 / *RGC1E.40 not UL approved

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

Solid state relays

Peak switching

Soft starting



Family	RM1C	RGS1P..K	RGC1P..K
Maximum output ratings	up to 660 VAC, 100 AAC	up to 660 VAC, 90 AAC	up to 660 VAC, 63 AAC
Control voltage	4.25-32 VDC	19.2-28.8 VDC	19.2-28.8 VDC
Width x Height x Depth (mm)	45 x 58 x 29	35.8 x 90 x 51	35.8 up to 72 width
Certifications	CE - cURus - CSA - EAC	CE - UR - CSA - EAC	CE - cULus - EAC
Features	<ul style="list-style-type: none"> Ideal for loads with power factor >0.2 such as transformer switching 	<ul style="list-style-type: none"> Ramp up time up to 5s Varistor protection 	<ul style="list-style-type: none"> Ramp up time up to 5s Varistor protection
Typical part number	RM1C 40 D 100	RGS1P 60 K 50 ED	RGC1P 60 K 30 ED

DC switching



Family	RP1D	RD	RGS1D	RGC1D
Maximum output ratings	8A/60 VDC, 1A/350 VDC	5A/60 VDC, 1A/350 VDC	up to 1000 VDC, 25 ADC	up to 1000 VDC, 15 ADC
Control voltage	4.25-32 VDC	3-32 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	CE - CSA	CE - UR - CSA - EAC	CE - cULus - EAC
Features	<ul style="list-style-type: none"> PCB mount RP..M, DIN accessory 	<ul style="list-style-type: none"> Flat mounting surface 	<ul style="list-style-type: none"> Slim platform IGBT output 	<ul style="list-style-type: none"> Slim platform IGBT output
Typical part number	RP1D 060 D 8	RD 06 05 -D	RGS1 D 1000 D 25 KKE	RGC1 D 1000 D 15 KKE

Reversing relays

Hybrid relays

Heatsinks



Family	REC2R	RMD1H	RMD2H	RMD3H	RHS
Maximum output ratings	up to 530 VAC, 3 kW	up to 253 VAC, 20 AAC	up to 264 VAC, 40 AAC	up to 530 VAC, 40 AAC	5.4 to 0.4 °C/W
Control voltage	15-32 VDC 90-253 VAC	4-32 VDC 24-275 VAC / 24-190 VDC	24 VAC/DC 120 VAC, 240 VAC	24 VAC/DC 120 VAC, 240 VAC	-
Width x Height x Depth (mm)	45 x 105 x 100	17.5 x 81 x 67	141 x 97 x 51	141 x 97 x 51	-
Certifications	CE - cULus - EAC	CE - UR - cUR	CE - UR - cUR	CE - UR - cUR	CE (RoHS conformant)
Features	<ul style="list-style-type: none"> Max. 7.6 AAC AC53a Integrated interlock circuitry 	<ul style="list-style-type: none"> SSR+ EMR combination Low EM noise (class B) 	<ul style="list-style-type: none"> SSR + EMR combination UL 100,000 cycle test 	<ul style="list-style-type: none"> SSR + EMR combination UL 100,000 cycle test 	<ul style="list-style-type: none"> DIN mount, Panel mount and thru wall mount heatsinks
Typical part number	REC2R 48 D 30 GKE	RMD1H 23 D 20	RMD2H 24 LA 30	RMD3H 48 LA 30	RHS...

Red digits are changeable. Refer to data sheet / SCCR = Short Circuit Current Rating / SSR = Solid State Relay / EMR = Electro Mechanical Relay

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