



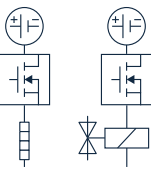

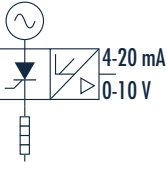

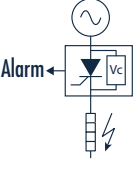
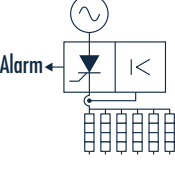
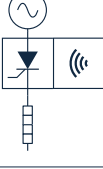
## Overview

# 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.K			RGC1P.K		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	15	20	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					▼		▼					▼		▼	
	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, 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		▼				▼		▼	▼			▼			
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			▼			▼							▼		
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	<ul style="list-style-type: none"> <li>• PCB mount</li> <li>• RP..M, DIN accessory</li> </ul>	<ul style="list-style-type: none"> <li>• PCB mount</li> <li>• 25A with forced cooling</li> </ul>	<ul style="list-style-type: none"> <li>• Conforms to EN 60335-1</li> <li>• UL 100,000 cycle test</li> </ul>	<ul style="list-style-type: none"> <li>• Flat mounting surface</li> </ul>	<ul style="list-style-type: none"> <li>• 1600 Vp blocking</li> <li>• Varistor protection</li> </ul>
Typical part number	<b>RP1 A 23 D 5</b>	<b>RP1 A 23 D 10</b>	<b>RF1 A 23 D 25</b>	<b>RA 24 25 -D 06</b>	<b>RA 60 50 -D 16</b>

### 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	<ul style="list-style-type: none"> <li>• Triac output (up to 80 AAC)</li> <li>• Varistor protection</li> </ul>	<ul style="list-style-type: none"> <li>• 1200 Vp blocking</li> </ul>	<ul style="list-style-type: none"> <li>• 1400 Vp blocking</li> <li>• Varistor protection</li> </ul>	<ul style="list-style-type: none"> <li>• 1200 Vp blocking</li> <li>• Optional protection</li> </ul>	<ul style="list-style-type: none"> <li>• Conforms to EN 60335-1</li> <li>• Varistor protection</li> </ul>
Typical part number	<b>RS1 A 40 D 25 E</b>	<b>RS1 A 40 D 25</b>	<b>RM1 A 23 D 25</b>	<b>RAM1 A 60 D 25</b>	<b>RAM1 A 60 D 25 G</b>

### 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	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 18,000 A<sup>2</sup>s for I<sup>2</sup>t</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• Slim U-type platform</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 100 kA UL508 SCCR</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 100 kA UL508 SCCR</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 1600 Vp blocking</li> </ul>
Typical part number	<b>RGS1 A 60 D 50 K K E</b>	<b>RGS1 A 60 D 30 K G U</b>	<b>RGC1 A 60 D 25 K K E</b>	<b>RGC1 A 60 D 25 K G U</b>	<b>RGH1 A 60 D 41 K G E</b>

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	<b>RA2A</b>	<b>RA2A..C</b>	<b>RKD2</b>	<b>RK2</b>
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 - EAC - UKCA	CE - cURus - CSA - VDE - EAC - UKCA	CE - cURus - CSA - VDE - EAC - UKCA
Features	<ul style="list-style-type: none"> <li>• Fastons for quick setup</li> <li>• 'M' option for inductive loads</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 4-pin header for control</li> </ul>	<ul style="list-style-type: none"> <li>• Transil protection</li> <li>• Conforms to EN 60335-1</li> </ul>	<ul style="list-style-type: none"> <li>• Common control</li> <li>• Conforms to EN 60335-1</li> </ul>
Typical part number	<b>RA2A 23 D 25 M</b>	<b>RA2A 23 D 25 C</b>	<b>RKD2 A 60 D 50 P</b>	<b>RK2 A 60 D 50 P</b>

## 3-phase switching



Family	<b>RGC2A</b>	<b>RZ3A</b>	<b>RGC3A</b>	<b>RGC3A</b>
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	<ul style="list-style-type: none"> <li>• 2-pole switching</li> <li>• 100 kA UL508 SCCR</li> </ul>	<ul style="list-style-type: none"> <li>• 1600 Vp blocking</li> <li>• Optional integrated OTP</li> </ul>	<ul style="list-style-type: none"> <li>• 45 mm product width</li> <li>• Varistor protection</li> </ul>	<ul style="list-style-type: none"> <li>• 100 kA UL508 SCCR</li> <li>• Varistor protection</li> </ul>
Typical part number	<b>RGC2 A 60 D 40 KGE</b>	<b>RZ3 A 60 D 55</b>	<b>RGC3 A 60 D 15 GKE</b>	<b>RGC3 A 60 D 30 KGE</b>

## Proportional controllers



Family	<b>RM1E</b>	<b>RGS1P</b>	<b>RGC1P</b>	<b>RGC2P</b>	<b>RGC3P</b>
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	<ul style="list-style-type: none"> <li>• Phase angle</li> </ul>	<ul style="list-style-type: none"> <li>• Phase angle, Full cycle, Advanced full cycle, Soft start</li> </ul>	<ul style="list-style-type: none"> <li>• Phase angle, Full cycle, Advanced full cycle, Soft start</li> </ul>	<ul style="list-style-type: none"> <li>• Full cycle</li> </ul>	<ul style="list-style-type: none"> <li>• Phase angle, Full cycle, Soft start</li> </ul>
Typical part number	<b>RM1E 40 AA 50</b>	<b>RGS1P 60 V 50 E D</b>	<b>RGC1P 60 V 30 E D</b>	<b>RGC2P 60 V 40 C1 D M</b>	<b>RGC3P 60 V 30 C1 D M</b>

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

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# Solid state relays

## Integrated system monitoring



Family	<b>RA..S</b>	<b>RGS1..M</b>	<b>RGC1..M</b>	<b>RGC2A..M</b>	<b>RGC3A..M</b>
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 - EAC - UKCA	CE - cURus - CSA - EAC - UKCA	CE - cULus - EAC - UKCA	CE - cULus - CCC - EAC - UKCA	CE - cULus - CCC - EAC - UKCA
Features	<ul style="list-style-type: none"> <li>• DC external supply</li> <li>• NC or NO alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• DC external supply</li> <li>• NC or NO alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• DC external supply</li> <li>• NC or NO alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• DC/AC external supply</li> <li>• NC or NO alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• DC/AC external supply</li> <li>• NC or NO alarm o/p</li> </ul>
Typical part number	<b>RA 23 25 H 06 N C S</b>	<b>RGS1 A 60 D 50 K EM</b>	<b>RGC1 A 60 D 25 K EM</b>	<b>RGC2A 60 D 40 GGE DM</b>	<b>RGC3A 60 D 30 GGE DM</b>

## Integrated current monitoring

## Integrated OTP



Family	<b>RGS1S</b>	<b>RGC1S</b>	<b>RGC1..P</b>
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	<ul style="list-style-type: none"> <li>• Local or remote TEACH</li> <li>• NC alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• Local or remote TEACH</li> <li>• NC alarm o/p</li> </ul>	<ul style="list-style-type: none"> <li>• Varistor protection</li> <li>• 100kA UL508 SCCR</li> </ul>
Typical part number	<b>RGS1 S 60 D 30 G K E P</b>	<b>RGC1 S 60 D 25 G K E P</b>	<b>RGC1 A 60 D 30 G K E P</b>

## Communication interface



Family	<b>NRG - Modbus RTU</b>		<b>NRG - Ethernet</b>
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, Bust with soft start option Read-outs: Current, Voltage, Power, Energy consumption, Running hours	Switching mode: RGC1A: ON/OFF, DFC, AFC, Bust RGC1P: PA, ON/OFF, DFC, AFC, Bust with soft start option Read-outs: Current, Voltage, Power, Energy consumption, Running hours
Typical part number	<b>NRGC, RGC1 A 60 D 25 K EN</b>		<b>NRGC-PN, RGC1 A 60 CM 25 K EN</b>

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

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# Solid state relays

## Peak switching

## Soft starting



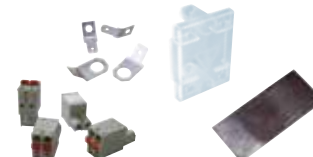
Family	<b>RM1C</b>	<b>RGS1P..K</b>	<b>RGC1P..K</b>
Maximum output ratings	up to 660 VAC, 100 AAC	up to 660 VAC, 90 AAC	up to 660 VAC, 63 AAC
Control voltage	4.25-32 VDC	19.2-28.8 VDC	19.2-28.8 VDC
Width x Height x Depth (mm)	45 x 58 x 29	35.8 x 90 x 51	35.8 up to 72 width
Certifications	CE - cURus -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

## DC switching



Family	<b>RP1D</b>	<b>RM1D</b>	<b>RGS1D</b>	<b>RGC1D</b>
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	<ul style="list-style-type: none"> <li>• PCB mount</li> <li>• RP..M, DIN accessory</li> </ul>	<ul style="list-style-type: none"> <li>• Low power dissipation</li> <li>• Up to 1kHz switching frequency</li> </ul>	<ul style="list-style-type: none"> <li>• Slim platform</li> <li>• IGBT output</li> </ul>	<ul style="list-style-type: none"> <li>• Slim platform</li> <li>• IGBT output</li> </ul>
Typical part number	<b>RP1D 060 D 8</b>	<b>RM1D 060 D 100</b>	<b>RGS1 D 1000 D 25 KKE</b>	<b>RGC1 D 1000 D 15 KKE</b>

## Accessories



Family	<b>Heatsinks</b>	<b>Other accessories</b>
Ratings	5.4 to 0.4 °C/W	-
Width x Height x Depth (mm)	-	-
Certifications	CE - UKCA (RoHS conformant)	CE - UKCA (RoHS conformant)
Features	<ul style="list-style-type: none"> <li>• DIN mount, Panel mount and thru wall mount heatsinks</li> </ul>	<ul style="list-style-type: none"> <li>• Thermal pads, Terminal adaptors, Protection covers, etc.</li> </ul>
Typical part number	<b>RHS...</b>	-

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

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



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