

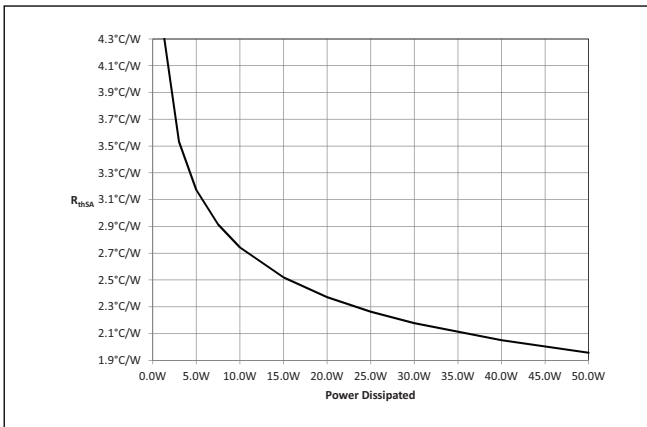
Solid State Relays Accessories, Heatsinks Type RHS52A

CARLO GAVAZZI



- 2.0 °C/W thermal resistance
- Suitable for mounting of 1-phase RG SSRs
- DIN rail mounting
- Suitable for panel mounting
- Dimensions W x H x D: 22.5 x 110 x 90 mm
- RoHS compliant

Thermal Resistance Curve



Ordering Key

RHS52A

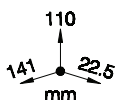
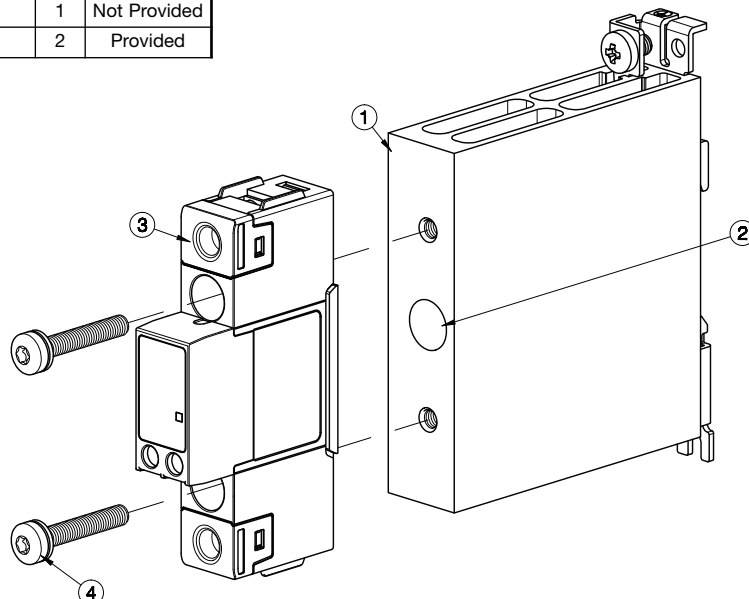
Product Description

Heatsink assembly suitable for mounting of 1x 1-phase RG solid state relay (SSR).

Suffix H61 added to SSR part no. refers to factory mounted heatsink. Conditions apply. Please ask your Sales representative for further details.

Heatsink Assembly

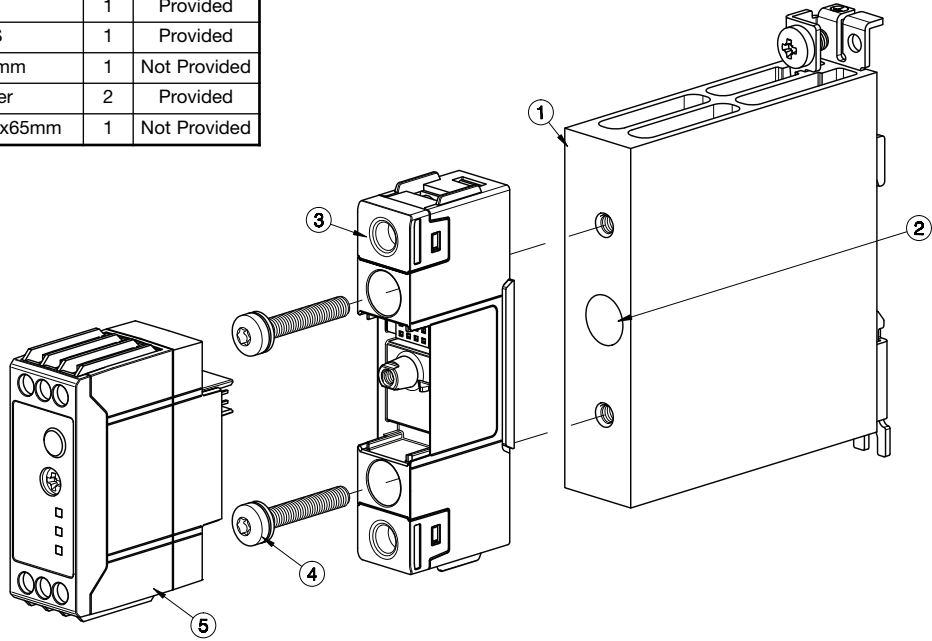
Components for assembly	Qty	RHS52A
1 RHS52A Heatsink Assembly	1	Provided
2 Thermal Compound HTS02S	1	Provided
3 RGS1 SSR 18x90mm	1	Not Provided
4 M5x30mm Torx T20 + Washer	2	Provided



Dimensions including the SSR

Heatsink Assembly

Components for assembly		Qty	RHS52A
1	RHS52A Heatsink Assembly	1	Provided
2	Thermal Compound HTS02S	1	Provided
3	RGS1 Power Module 18x90mm	1	Not Provided
4	M5x30mm Torx T20 + Washer	2	Provided
4	RGS1S Control Module 22.5x65mm	1	Not Provided



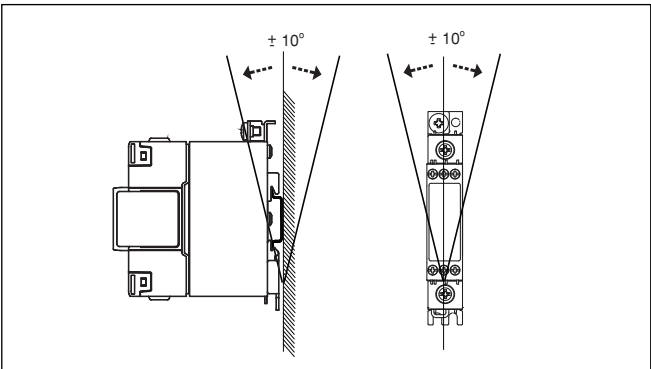
110
168 22.5
mm
Dimensions including the SSR

General Specifications

SSR max. mounting torque	1.5Nm (13.3 lb-in)
PE screw*	M5, max. 1.5Nm (13.3 lb-in)
Weight (excl. SSR)	approx. 265g
Material	Aluminium
Finish	Black anodization
Fan mounting	Not possible

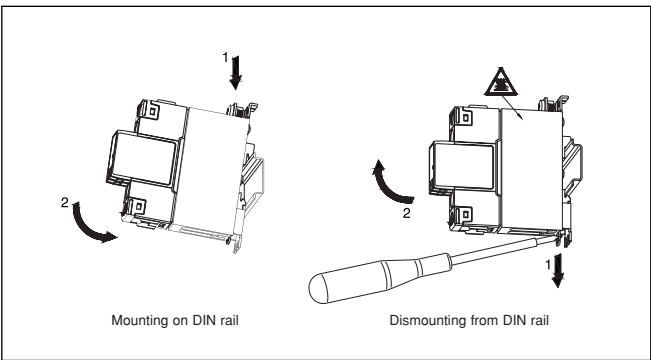
* Not provided with assembly

Mounting Position



Illustrations are for example only

Installation



Recommended Maximum Current Rating (per SSR)

Notes:

- The below recommendations are only valid when the assembly (SSR + heatsink) is mounted as shown in the mounting instructions unless otherwise indicated.
- The indicated ratings are applicable to one SSR, one pole. Please refer to the online selector tool at www.productselection.net for different load currents, surrounding temperatures or multiple units on one heatsink.
- These recommendations are applicable only with the indicated Carlo Gavazzi thermal interface material between SSR and heatsink. In case a different thermal interface is utilised these recommendation may no longer be valid.

Thermal interface = Thermal compound, **HTS02S**

Thermal interface = Thermal pad, **RGHT**

1x 1-phase SSR	Surrounding temperature							
	°C	20	30	40	50	60	70	80
	°F	68	86	104	122	140	158	176
RGS1..E	25	25	25	25	25	22.5	18.5	15
	50	41	39	34.5	30.5	26	21.5	17
	51	40.5	38.5	34.5	30	26	21.5	17.5
	75	45.5	43	38.5	33.5	28.5	23.5	18.5
	90							
	91	48.5	46	40.5	35.5	30	25	19.5
	92							
RGS1..U	20	20	20	20	20	20	18.5	15
	30	30	30	30	30	26	21.5	17
RGS1S..E	20	23	23	23	23	22.5	18.5	n/a
	30	30	30	30	30	26	21.5	n/a
	31	30	30	30	30	30	25	n/a
	92	48.5	46	40.5	35.5	30	25	n/a
RGS1D..	15	15	15	15	15	15	12.5	10.5
	25	23	22	19.5	17.5	15	12.5	10.5

1x 1-phase SSR	Surrounding temperature							
	°C	20	30	40	50	60	70	80
	°F	68	86	104	122	140	158	176
RGS1..E	25	25	25	25	22.5	19.5	16	13
	50	35	33	29.5	26	22	18.5	14.5
	51	34.5	33	29.5	26	22.5	18.5	15
	75	39	37	33	28.5	24.5	20.5	16
	90							
	91	41.5	39.5	35	30.5	26	21.5	17
	92							
RGS1..U	20	20	20	20	20	19.5	16	13
	30	30	30	29.5	26	22	18.5	14.5
RGS1S..E	20	23	23	23	22.5	19.5	16	n/a
	30	30	30	29.5	26	22	18.5	n/a
	31	30	30	30	30	26	21.5	n/a
	92	41.5	39.5	35	30.5	26	21.5	n/a
RGS1D..	15	15	15	15	14	12.5	10.5	8.5
	25	18.5	17.5	16	14	12.5	10.5	8.5

Accessories

Thermal Pads



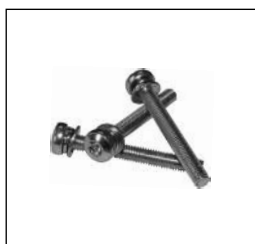
- Ordering key: **RGHT**
- Packing qty. 10 pcs.
- Suitable for RG SSRs
- Dimensions: 14 x 35mm

Thermal Compound



- Ordering key: **HTS02S**
- 2ml syringe of silicone based thermal compound

Screw Kits



- Ordering key: **SRWKITM5X30MM**
- M5x30mm Torx T20 + washers
- Packing qty. 20pcs.