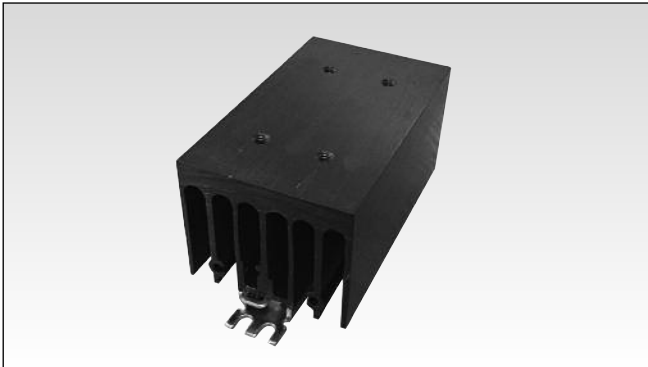


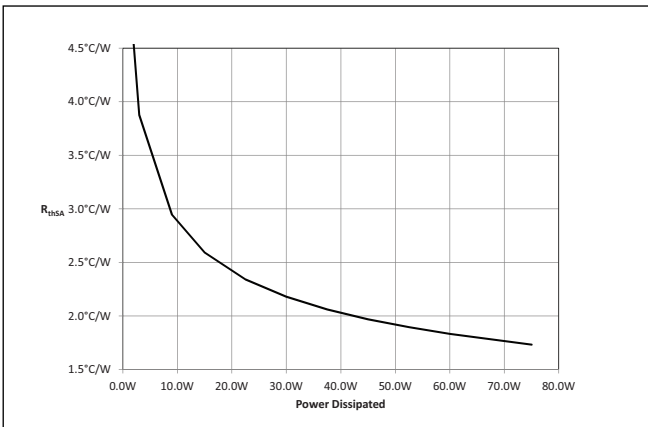
Solid State Relays Accessories, Heatsinks Types RHS542, RHS542D

CARLO GAVAZZI



- 1.85 °C/W thermal resistance
- Suitable for mounting of 2x 1-phase SSRs
- DIN rail mounting
- Suitable for panel mounting
- Dimensions W x H x D: 54 x 110 x 51 mm
- RoHS compliant

Thermal Resistance Curve



Ordering Key

RHS542

RHS542D

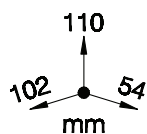
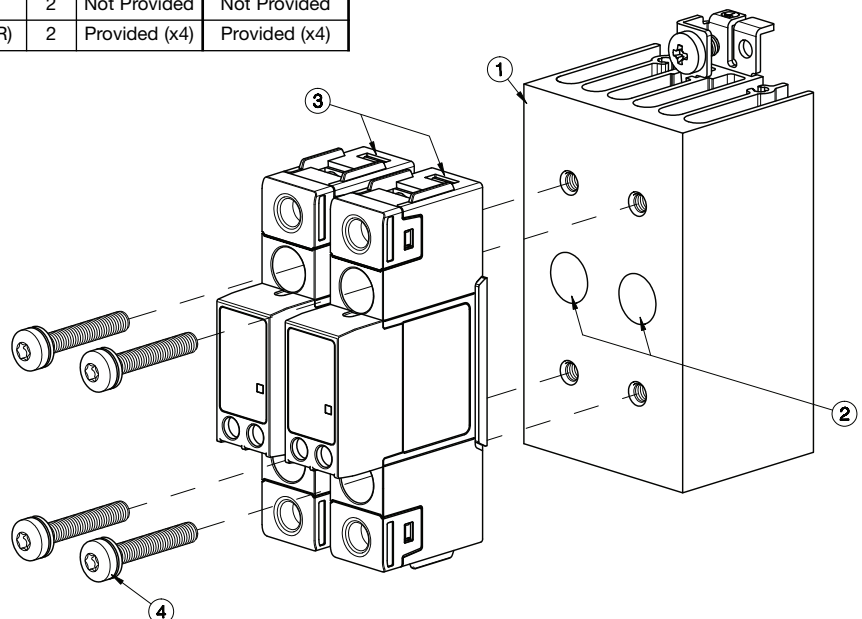
Product Description

Heatsink assembly suitable for mounting of maximum 2x 1-phase solid state relays (SSRs).

Suffix H66 added to SSR part no. refers to factory mounted heatsink. Conditions apply. Please ask your Sales representative for further details.

Heatsink Assembly

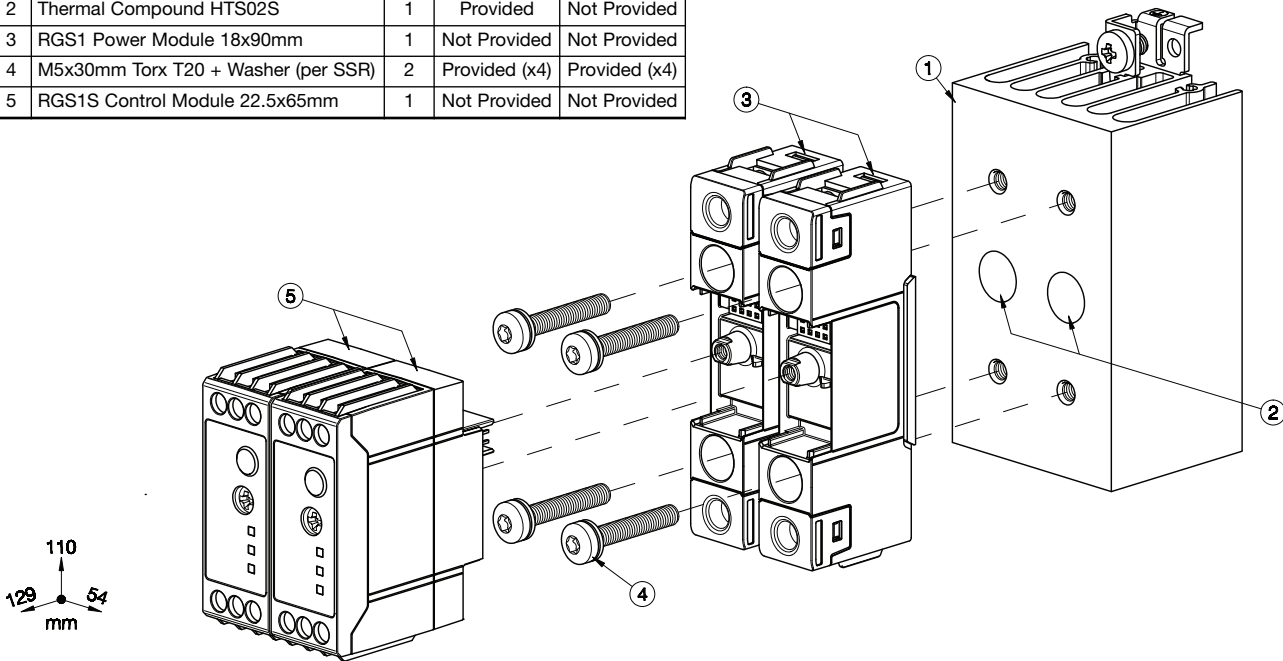
Components for assembly	Qty	RHS542	RHS542D
1 RHS542 Heatsink Assembly	1	Provided	Provided
2 Thermal Compound HTS02S	1	Provided	Not Provided
3 RGS1 SSR 18x90mm (max.)	2	Not Provided	Not Provided
4 M5x30mm Torx T20 + Washer (per SSR)	2	Provided (x4)	Provided (x4)



Dimensions including the SSR

Heatsink Assembly

Components for assembly		Qty	RHS542	RHS542D
1	RHS542 Heatsink Assembly	1	Provided	Provided
2	Thermal Compound HTS02S	1	Provided	Not Provided
3	RGS1 Power Module 18x90mm	1	Not Provided	Not Provided
4	M5x30mm Torx T20 + Washer (per SSR)	2	Provided (x4)	Provided (x4)
5	RGS1S Control Module 22.5x65mm	1	Not Provided	Not Provided



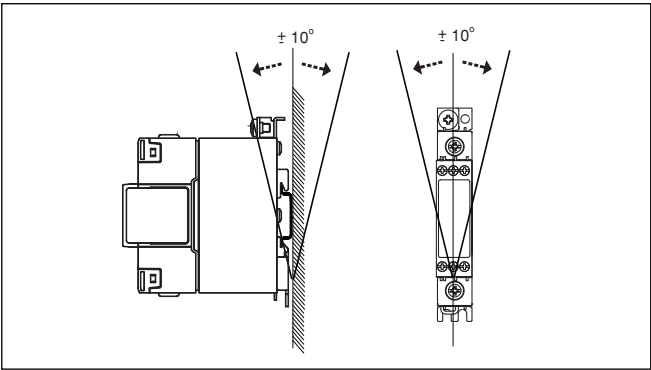
Dimensions including the SSR

General Specifications

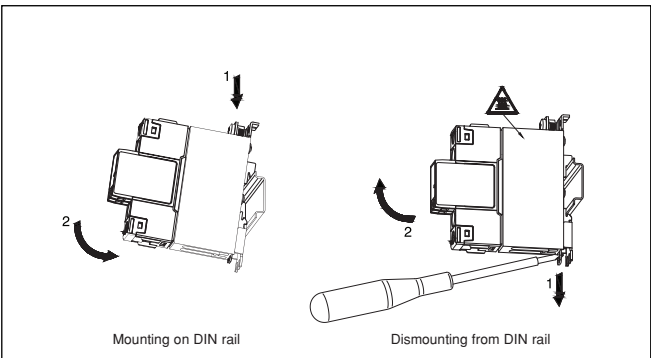
SSR max. mounting torque	1.5Nm (13.3 lb-in)
PE screw*	M5, max. 1.5Nm (13.3 lb-in)
Weight (excl. SSR)	approx. 325g
Material	Aluminium
Finish	Black anodization
Fan mounting	Possible refer to RHS542F40-24

* Not provided with assembly

Mounting Position



Installation



Mounting on DIN rail

Dismounting from DIN rail

Illustrations are for example only

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**

2x 1-phase SSR	Surrounding temperature							
	°C °F	20 68	30 86	40 104	50 122	60 140	70 158	80 176
RGS1..E	25	25	23.5	21	18	15.5	12.5	10
	50	28.5	27	23.5	20.5	17	14	11
	51	28.5	27	24	20.5	17.5	14.5	11
	75	31.5	29.5	26	22.5	19	15.5	12
	90 91 92	33	31	27.5	23.5	20	16	12.5
RGS1..U	20	20	20	20	18	15.5	12.5	10
	30	28.5	27	23.5	20.5	17	14	11
RGS1S..E	20	23	23	21	18	15.5	12.5	n/a
	30	28.5	27	23.5	20.5	17	14	n/a
	31	30	30	27.5	23.5	20	16	n/a
	92	33	31	27.5	23.5	20	16	n/a
RGS1D..	15	15	15	13.5	12	10	8.5	6.5
	25	16	15.5	13.5	12	10	8.5	6.5

2x 1-phase SSR	Surrounding temperature							
	°C °F	20 68	30 86	40 104	50 122	60 140	70 158	80 176
RGS1..E	25	22.5	21.5	19	16.5	14	11.5	9
	50	26	24.5	21.5	18.5	15.5	13	10
	51	26	24.5	21.5	19	16	13	10.5
	75	29	27	24	20.5	17.5	14	11
	90 91 92	30.5	29	25.5	22	18.5	15	11.5
RGS1..U	20	20	20	19	16.5	14	11.5	9
	30	26	24.5	21.5	18.5	15.5	13	10
RGS1S..E	20	22.5	21.5	19	16.5	14	11.5	n/a
	30	26	24.5	21.5	18.5	15.5	13	n/a
	31	30	29	25.5	22	18.5	15	n/a
	92	30.5	29	25.5	22	18.5	15	n/a
RGS1D..	15	14	13.5	12	10.5	9	7.5	6
	25	14	13.5	12	10.5	9	7.5	6

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: **RHSF40-24**
- Fan 40x40mm, 24VDC

Screw Kits



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