

Solid-State Relays

Accessories for Solid-State Relays

Solid State Relays (SSRs) require various accessories to perform at optimal levels. These include heatsinks for dissipating heat, thermal interfaces for effective heat transfer, and fastening and connection components for secure mounting and reliable electrical connections.

Heatsinks

Heatsinks are designed to dissipate heat generated by Solid State Relays (SSRs), ensuring they operate within their rated values. They come in various thermal resistances, with some models featuring integrated fans for enhanced cooling.

PRODUCT	FEATURES	ACCESSORY FOR
SADH-C1N600 DIN Rail Adaptor 6.0 °C/W 	Allows one SSR to be mounted on a 35 mm DIN rail. Thermal resistance: 6.0 °C/W. Dimensions: 45mm x 110mm x 15mm [1.77" x 4.33" x 0.59"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NN210 Heatsink 2.1 °C/W 	Allows one SSR to be mounted. Thermal resistance: 2.1 °C/W. Dimensions: 45mm x 90mm x 73.5mm [1.77" x 3.54" x 2.89"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NN175 Heatsink 1.75 °C/W 	Allows one SSR to be mounted. Thermal resistance: 1.75 °C/W. Dimensions: 45mm x 100mm x 73.5mm [1.77" x 3.94" x 2.89"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NN120 Heatsink 1.2 °C/W 	Allows one or two SSRs to be mounted. Thermal resistance: 1.2 °C/W. Dimensions: 100mm x 100mm x 40mm [3.94" x 3.94" x 1.57"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NN100 Heatsink 1.0 °C/W 	Allows one or two SSR to be mounted. Thermal resistance: 1.0 °C/W. Dimensions: 110mm x 90mm x 100mm [4.33" x 3.54" x 3.94"] Allows one SSR to be mounted.	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NN050 Heatsink with Fan 0.5 °C/W 	Allows one SSR to be mounted. Thermal resistance: 0.5 °C/W. Requires 24 VDC power. Dimensions: 40mm x 134.7mm x 116.1mm [1.57" x 5.30" x 4.57"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-ND030 Heatsink with Fan 0.3 °C/W 	Allows one or two SSRs to be mounted. Thermal resistance: 0.3 °C/W. Requires 24 VDC power. Dimensions: 110mm x 90mm x 120mm [4.33" x 3.54" x 4.72"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SADH-NA030 Heatsink with Fan 0.3 °C/W 	Allows one or two SSRs to be mounted. Thermal resistance: 0.3 °C/W. Requires 230 VAC power. Dimensions: 110mm x 90mm x 120mm [4.33" x 3.54" x 4.72"]	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL

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Thermal Interface Material

Thermal interface materials are essential for effective heat transfer between SSRs and heatsinks. These materials ensure optimal thermal conductivity and enhance the overall performance of the cooling system.

PRODUCT	FEATURES	ACCESSORY FOR
SANP-C1N030 Thermal Pad 	Allows one SSR to be mounted.	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SANG-CNN090 Thermal Grease 20ml 	Allows 60+ SSRs to be mounted.	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL SRP1-ME
P0200-19 Thermal Compound 2 grams 	Allows one SSR to be mounted.	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL SRP1-ME
P0200-20 Thermal Compound 100 grams 	Allows 50+ SSRs to be mounted.	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL SRP1-ME

Fastening and Connection

Fastening and connection components are essential for securely mounting and efficiently operating Solid State Relays (SSRs).

PRODUCT	FEATURES	ACCESSORY FOR
SANT-C1NM40 Mounting Screw Kit 	2 square nuts Q7x7 M4, 2 screws M4x10, 2 screws M3x8, 2 screws M4x12, 2 screws M4x20	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
SANL-C1N040 Power Lugs 	For wires > 25mm ² (AWG4): 2 power connections, 2 screws M8x20, 4 contact washers 8x18, 2 nuts M8	SRP1-CB SRP1-CB...F SRP1-CR SRP1-CE SRP1-CC...DL
P1015-13 Terminals 	AWG 14/16 Female Quick Connect Terminals 0.25 in. (6.35 mm)	SRP1-CB...F SRP1-ME
P1015-14 Terminals 	AWG 18/22 Female Quick Connect Terminals 0.25 in. (6.35 mm)	SRP1-CB...F SRP1-ME
P1015-64 Terminals 	AWG 18/22 Female Quick Connect Terminals 0.25 in. (6.35 mm)	SRP1-CB...F SRP1-ME

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