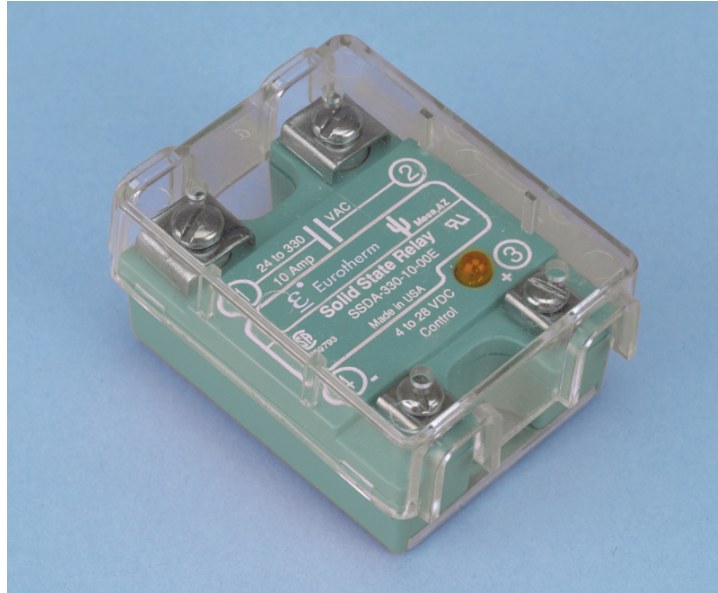


SSDA/SSAA RSDD

MODELS

Solid State Relays



**EUROTHERM
CONTROLS**



- **Heavy duty solid state relays for superior performance in industrial applications**
- **No moving parts, no parts to wear out**
- **Capable of switching up to 75 amps**
- **Zero crossing control**
- **High surge capability**
- **Photo isolation**
- **100% tested at rated current**
- **Capable of switching 5-10 times per second**
- **Compatible with most temperature controllers, logic systems, PLCs, or similar control circuits**
- **Activated by a Vdc or Vac signal**
- **Made in the USA**

The Eurotherm Solid State Relay (SSR) products offer a superior method of switching power to resistive heaters, lamps, alarm devices, small motors, and other similar applications. Available in a wide variety of amperage sizes, the SSRs can be cycled as fast as the mating controller requests without any wear or degradation in the expected life of the relay. For some heater applications, fast cycling of the SSR actually causes a dramatic increase in the life of the heater due to a reduction in the thermal expansion and contraction of the heater.

Heatsinks

All SSR products generate heat based upon the amperage of the applications. Eurotherm has a range of heatsinks which are sized for your application. In addition, we can provide a technical note which can help you size your own heatsink for custom applications or unique installations.

Safety

The SSRs for AC switching include a clear plastic cover in order to provide IP-20 (finger safe) protection. The DC switching SSRs have this cover as an option if needed. The SSRs are built to meet international safety standards including CE regulations.

Support

The SSRs are sold and supported by a team of factory-trained Eurotherm representatives and distributors throughout the world. Please contact us for further information or application assistance.

**SSDA/SSAA
RSDD
Solid State
Relays**

Technical Specifications

SSDA models

Output switched 10, 25, 40, or 75Amps at 24-330Vac
50 Amps at 48-660 VAC

LDC input models >4-28Vdc = "on"
<1Vdc = "off"

LED Diagnostics Red LED = requested to turn "on"

Safety Cover Included

SSAA models

Output switched 10, 25, 40, or 75A at 24-330 Vac
50Amps at 48-660 VAC

HAC input models 90-280Vac = "on"
<20Vac = "off"

LED Diagnostics Red LED = requested to turn "on"

Safety cover Included

RSDD models

Output switched 8, 12, 20, or 40A at 1-100Vdc

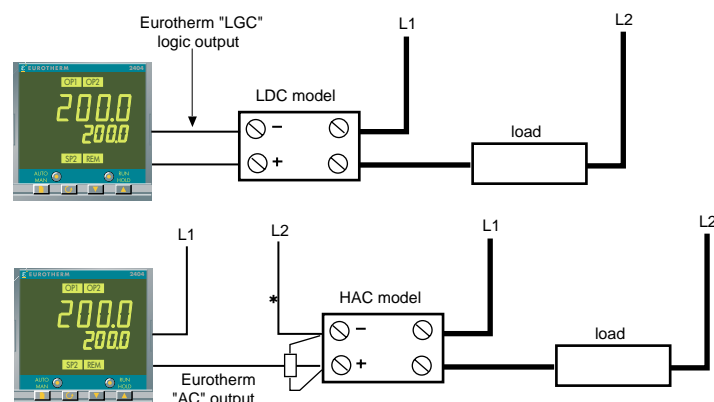
LDC input models 4-28 Vdc = "on"
<1Vdc = "off"

Heatsinks	Part Number	Size
For <20A SSRs	HEATSK/A/2.1	4.0H x 4.5W x 1.03D"
For <39A SSRs	HEATSK/B/1.5	3.0H x 4.75W x 2.63D"
For <76A SSRs	HEATSK/B/1.0	5.5H x 4.75W x 2.63D"

Safety Covers	Part Number
For RSDD or as spares	COVER/SAFETY/000

Product /	Max / Amps	Max / Volts	Input /	Features
SSDA	10A 25A 40A 50A 75A	330Vac or 660VAC	LDC	Cover
SSAA	10A 25A 40A 50A 75A	330Vac or 660VAC	HAC	Cover
RSDD	8A 12A 20A 40A	100Vdc	LDC	—

Typical Installations



* For triac outputs, a 4K, 8 watt loading resistor is required to ensure turn off.

EUROTHERM CONTROLS INC

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Reston, Virginia 20190-5286
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Fax: 703-787-3436
BBS: 703-787-3444
Fax-On-Demand service: 703-787-3441
<http://www.eurotherm.com>

A Siebe Group Company

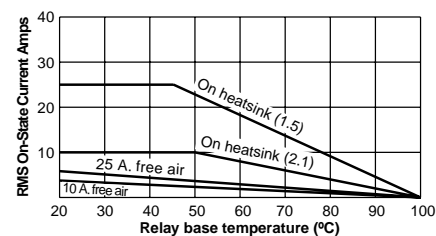
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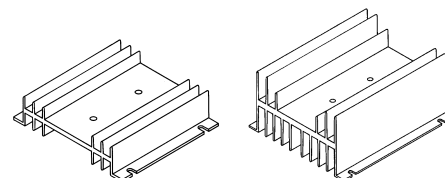
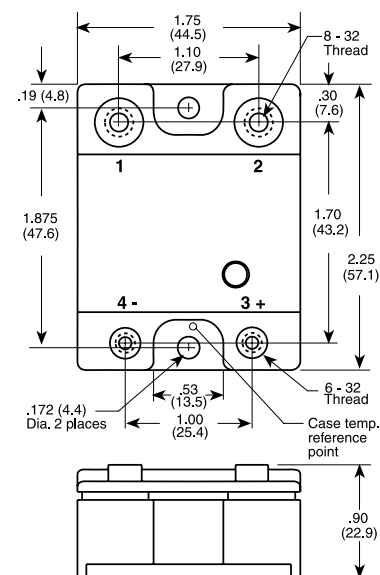
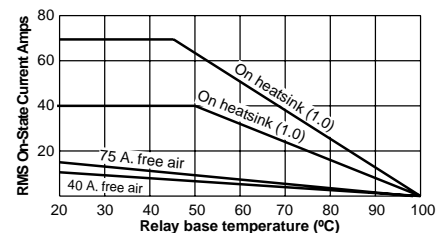
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Derating Curves

10 Amp and 25 Amp



40 Amp and 75 Amp



Heatsink "A" Heatsink "B"

Note: The SS and RS products must use a suitable heatsink and thermal transfer compound (DOW 340™ or equivalent) to perform properly. A mounting torque of 10 in. lbs. is required.

For more information, contact your local representative: