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# SR2/SR3 Series

## 3-Phase, Detachable/Integrated Heatsink Type SSR

### ■ Features

- Two mounting hole types and sizes
- Alarm output (overheating): Alarm output indicator (red LED), disconnect standard output, alarm output
- Dielectric strength: 4000 VAC (also 2,500VAC model)
- High heat dissipation efficiency with ceramic PCB and integrated heatsink
- Zero cross turn-on, random turn-on models available
- Input indicator (green LED)
- Various mounting methods (DIN rail, panel) - SRH2/SRH3 series
- \*DIN rail mount not available for 50 A, 75 A load current models



⚠ Please read "Safety Considerations" in operation manual before using.



### ■ Ordering Information

|    |   |   |   |   |   |    |   |                                    |         |                           |
|----|---|---|---|---|---|----|---|------------------------------------|---------|---------------------------|
| SR | H | 3 | - | 1 | 4 | 15 | R | Function                           | No mark | Zero cross turn-on        |
|    |   |   |   |   |   |    |   |                                    | R       | Random turn-on            |
|    |   |   |   |   |   |    |   | Rate load current (Resistive load) | 15      | 15A                       |
|    |   |   |   |   |   |    |   |                                    | 30      | 30A                       |
|    |   |   |   |   |   |    |   |                                    | 40      | 40A                       |
|    |   |   |   |   |   |    |   |                                    | 50      | 50A                       |
|    |   |   |   |   |   |    |   |                                    | 75      | 75A                       |
|    |   |   |   |   |   |    |   | Rated load voltage                 | 2       | 24-240VAC                 |
|    |   |   |   |   |   |    |   |                                    | 4       | 48-480VAC                 |
|    |   |   |   |   |   |    |   | Rated input voltage                | 1       | 4-30VDC                   |
|    |   |   |   |   |   |    |   |                                    | 2       | 24VAC                     |
|    |   |   |   |   |   |    |   |                                    | 4       | 90-240VAC                 |
|    |   |   |   |   |   |    |   | Control phase                      | 2       | 3-phase (2-pole)          |
|    |   |   |   |   |   |    |   |                                    | 3       | 3-phase (3-pole)          |
|    |   |   |   |   |   |    |   | Type                               | No mark | Detachable heatsink type  |
|    |   |   |   |   |   |    |   |                                    | H       | Integrated heat sink type |
|    |   |   |   |   |   |    |   | Item                               | SR      | Solid State Relay         |

| Model       | Rated input voltage | Rated load current | Rated load voltage | Function |
|-------------|---------------------|--------------------|--------------------|----------|
| SR(H)2-1215 | 4-30VDC             | 15A                |                    |          |
| SR(H)3-1215 |                     |                    |                    |          |
| SR(H)2-4215 | 90-240VAC           |                    |                    |          |
| SR(H)3-4215 |                     |                    |                    |          |
| SR(H)2-1230 | 4-30VDC             | 30A                |                    |          |
| SR(H)3-1230 |                     |                    |                    |          |
| SR(H)2-4230 | 90-240VAC           |                    |                    |          |
| SR(H)3-4230 |                     |                    |                    |          |
| SR(H)2-1250 | 4-30VDC             | 50A                |                    |          |
| SR(H)3-1250 |                     |                    |                    |          |
| SR(H)2-4250 | 90-240VAC           |                    |                    |          |
| SR(H)3-4250 |                     |                    |                    |          |
| SR(H)2-1275 | 4-30VDC             | 75A                |                    |          |
| SR(H)3-1275 |                     |                    |                    |          |
| SR(H)2-4275 | 90-240VAC           |                    |                    |          |
| SR(H)3-4275 |                     |                    |                    |          |

# 3-Phase, Detachable/Integrated Heatsink Type SSR

| Model        | Rated input voltage | Rated load current | Rated load voltage | Function           |
|--------------|---------------------|--------------------|--------------------|--------------------|
| SR(H)2-1415  | 4-30VDC             | 15A                | 48-480VAC          | Zero cross turn-on |
| SR(H)3-1415  |                     |                    |                    |                    |
| SR(H)2-1415R |                     |                    |                    | Random turn-on     |
| SR(H)3-1415R |                     |                    |                    |                    |
| SR(H)2-2415  | 24VAC               |                    |                    | Zero cross turn-on |
| SR(H)3-2415  |                     |                    |                    |                    |
| SR(H)2-4415  | 90-240VAC           |                    |                    | Zero cross turn-on |
| SR(H)3-4415  |                     |                    |                    |                    |
| SR(H)2-1430  | 4-30VDC             | 30A                |                    | Zero cross turn-on |
| SR(H)3-1430  |                     |                    |                    |                    |
| SR(H)2-1430R |                     |                    |                    | Random turn-on     |
| SR(H)3-1430R |                     |                    |                    |                    |
| SR(H)2-2430  | 24VAC               |                    |                    | Zero cross turn-on |
| SR(H)3-2430  |                     |                    |                    |                    |
| SR(H)2-4430  | 90-240VAC           |                    |                    | Zero cross turn-on |
| SR(H)3-4430  |                     |                    |                    |                    |
| SR(H)2-1440  | 4-30VDC             | 40A                |                    | Zero cross turn-on |
| SR(H)3-1440  |                     |                    |                    |                    |
| SR(H)2-1440R |                     |                    |                    | Random turn-on     |
| SR(H)3-1440R |                     |                    |                    |                    |
| SR(H)2-2440  | 24VAC               |                    |                    | Zero cross turn-on |
| SR(H)3-2440  |                     |                    |                    |                    |
| SR(H)2-4440  | 90-240VAC           |                    |                    | Zero cross turn-on |
| SR(H)3-4440  |                     |                    |                    |                    |
| SR(H)2-1450  | 4-30VDC             | 50A                |                    | Zero cross turn-on |
| SR(H)3-1450  |                     |                    |                    |                    |
| SR(H)2-1450R |                     |                    |                    | Random turn-on     |
| SR(H)3-1450R |                     |                    |                    |                    |
| SR(H)2-2450  | 24VAC               |                    |                    | Zero cross turn-on |
| SR(H)3-2450  |                     |                    |                    |                    |
| SR(H)2-4450  | 90-240VAC           |                    |                    | Zero cross turn-on |
| SR(H)3-4450  |                     |                    |                    |                    |
| SR(H)2-1475  | 4-30VDC             | 75A                |                    | Zero cross turn-on |
| SR(H)3-1475  |                     |                    |                    |                    |
| SR(H)2-1475R |                     |                    |                    | Random turn-on     |
| SR(H)3-1475R |                     |                    |                    |                    |
| SR(H)2-2475  | 24VAC               |                    |                    | Zero cross turn-on |
| SR(H)3-2475  |                     |                    |                    |                    |
| SR(H)2-4475  | 90-240VAC           |                    |                    | Zero cross turn-on |
| SR(H)3-4475  |                     |                    |                    |                    |

|     |                                                                          |
|-----|--------------------------------------------------------------------------|
| (A) | Photoelectric Sensors                                                    |
| (B) | Fiber Optic Sensors                                                      |
| (C) | Door/Area Sensors                                                        |
| (D) | Proximity Sensors                                                        |
| (E) | Pressure Sensors                                                         |
| (F) | Rotary Encoders                                                          |
| (G) | Connectors/<br>Connector Cables/<br>Sensor Distribution<br>Boxes/Sockets |
| (H) | Temperature Controllers                                                  |
| (I) | SSRs / Power Controllers                                                 |
| (J) | Counters                                                                 |
| (K) | Timers                                                                   |
| (L) | Panel Meters                                                             |
| (M) | Tacho / Speed / Pulse Meters                                             |
| (N) | Display Units                                                            |
| (O) | Sensor Controllers                                                       |
| (P) | Switching Mode Power Supplies                                            |
| (Q) | Stepper Motors & Drivers & Controllers                                   |
| (R) | Graphic/ Logic Panels                                                    |
| (S) | Field Network Devices                                                    |
| (T) | Software                                                                 |

## ■ Specifications

### ○ Input

|                           |                                      |                                                 |                                          |
|---------------------------|--------------------------------------|-------------------------------------------------|------------------------------------------|
| Rated input voltage range | 4-30VDC <sup>***</sup>               | 24VACrms~ (50/60Hz)                             | 90-240VACrms~ (50/60Hz)                  |
| Input voltage range       | 4-32VDC <sup>***</sup>               | 19-26.4VACrms~ (50/60Hz)                        | 85-264VACrms~ (50/60Hz)                  |
| Max. input current        | 25mA                                 | 15mA                                            | 25mA                                     |
| Pick-up voltage           | Min. 4VDC <sup>***</sup>             | Min. 19VACrms~                                  | Min. 85VACrms~                           |
| Drop-out voltage          | Max. 1VDC <sup>***</sup>             | Max. 4VACrms~                                   | Max. 10VACrms~                           |
| Turn-on time              | Zero cross turn-on<br>Random turn-on | Max. 0.5 cycle of load source + 1ms<br>Max. 1ms | Max. 1.5 cycle of load source + 1ms<br>— |
| Turn-off time             |                                      | Max. 0.5 cycle of load source + 1ms             | Max. 1.5 cycle of load source + 1ms      |

# SR2/SR3 Series

## ■ Specifications

### ○ Output

|                                                               |                                      |                             |                      |                      |        |                                                    |                      |        |                      |        |
|---------------------------------------------------------------|--------------------------------------|-----------------------------|----------------------|----------------------|--------|----------------------------------------------------|----------------------|--------|----------------------|--------|
| Rated load voltage range                                      |                                      | 24-240VACrms~ (50/60Hz)     |                      |                      |        | 48-480VACrms~ (50/60Hz)                            |                      |        |                      |        |
| Load voltage range                                            |                                      | 24-264VACrms~ (50/60Hz)     |                      |                      |        | 48-528VACrms~ (50/60Hz)                            |                      |        |                      |        |
| Rated load current                                            | Resistive load (AC-51) <sup>※1</sup> | 15Arms                      | 30Arms               | 50Arms               | 75Arms | 15Arms                                             | 30Arms               | 40Arms | 50Arms               | 75Arms |
| Min. load current                                             |                                      | 0.15Arms                    | 0.2Arms              | 0.5Arms              |        | 0.5Arms                                            |                      |        |                      |        |
| Max. 1 cycle surge current (60Hz)                             |                                      | 250A                        | 400A                 | 1000A                |        | 300A                                               | 500A                 |        | 1000A                |        |
| Max. non-repetitive surge current (I <sup>2</sup> t, t=8.3ms) |                                      | 340A <sup>2</sup> S         | 1000A <sup>2</sup> S | 4000A <sup>2</sup> S |        | 350A <sup>2</sup> S                                | 1000A <sup>2</sup> S |        | 4000A <sup>2</sup> S |        |
| Peak voltage (non-repetitive)                                 |                                      | 600V                        |                      |                      |        | 1200V (Zero cross turn-on), 1000V (Random turn-on) |                      |        |                      |        |
| Leakage current (Ta=25°C)                                     |                                      | Max. 10mArms (240VAC~/60Hz) |                      |                      |        | Max. 10mArms (480VAC~/60Hz)                        |                      |        |                      |        |
| Output on voltage drop [Vpk] (Max. load current)              |                                      | Max. 1.6V                   |                      |                      |        |                                                    |                      |        |                      |        |
| Static off-state dv/dt                                        |                                      | 500V/μs                     |                      |                      |        |                                                    |                      |        |                      |        |

※1: AC-51 is utilization category at IEC 60947-4-3.

### ○ Alarm output (Temperature overheat)

|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Rated input voltage range | 4-30VDC <sup>***</sup>    | 24VACrms~ (50/60Hz)       | 90-240VACrms~ (50/60Hz)   |
| Load input voltage        | Max. 30VDC <sup>***</sup> | Max. 30VDC <sup>***</sup> | Max. 30VDC <sup>***</sup> |
| Load input current        | Max. 100mA                | Max. 50mA                 | Max. 50mA                 |
| Turn-off time             | Max. 20ms                 | Max. 40ms                 | Max. 40ms                 |

### ○ General specifications

|                              |                     |                                                                                                                                                                                                                                                                                                                                   |
|------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength (Vrms)   |                     | <ul style="list-style-type: none"> <li>• 24-240VAC~ rated load current 15A/30A : 2500VAC 50/60Hz 1 min (Input-Output, Input/Output-Case)</li> <li>• 24-240VAC~ rated load current 50A/75A</li> <li>• 48-480VAC~ rated load current 15A/30A/40A/50A/75A : 4000VAC 50/60Hz 1 min (Input-Output, Input/Output-Case)</li> </ul>       |
| Insulation resistance        |                     | Over 100MΩ (at 500VDC megger) (Input-Output, Input/Output-Case)                                                                                                                                                                                                                                                                   |
| Indicator                    |                     | Input indicator: Green LED / Alarm output indicator: Red LED                                                                                                                                                                                                                                                                      |
| Vibration                    | Mechanical          | 0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour                                                                                                                                                                                                                                      |
|                              | Malfunction         | 0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min                                                                                                                                                                                                                                       |
| Shock                        | Mechanical          | 300m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction for 3 times                                                                                                                                                                                                                                                           |
|                              | Malfunction         | 100m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction for 3 times                                                                                                                                                                                                                                                           |
| Environment                  | Ambient temperature | -30 to 80°C (in case of the rated input voltage 90-240VAC~: -30 to 70°C), Storage: -30 to 100°C (The rated load current capacity is different depending on ambient temperature. Refer to '■ SSR Derating Curve'.)                                                                                                                 |
|                              | Ambient humidity    | 45 to 85%RH, Storage: 45 to 85%RH                                                                                                                                                                                                                                                                                                 |
| Input terminal connection    |                     | Min. 1×0.5mm <sup>2</sup> (1×AWG 20) Max. 1×1.5mm <sup>2</sup> (1×AWG 16) or 2×1.5mm <sup>2</sup> (2×AWG 16)                                                                                                                                                                                                                      |
| Output terminal connection   |                     | Min. 1×1.5mm <sup>2</sup> (1×AWG 16) Max. 1×16mm <sup>2</sup> (1×AWG 6) or 2×6mm <sup>2</sup> (2×AWG 10)                                                                                                                                                                                                                          |
| Input terminal fixed torque  |                     | 0.75 to 0.95N·m                                                                                                                                                                                                                                                                                                                   |
| Output terminal fixed torque |                     | 1.6 to 2.2N·m                                                                                                                                                                                                                                                                                                                     |
| Approval                     |                     | CE  US                                                                                                                                                                                                                                         |
| Weight <sup>※1</sup>         |                     | <ul style="list-style-type: none"> <li>• Detachable heatsink type : approx. 365g (approx. 275g)</li> <li>• Integrated heat sink type - Rated load current 15A/30A/40A: approx. 896g (approx. 686g)<br/>Rated load current 50A: approx. 1508g (approx. 1268g)<br/>Rated load current 75A: approx. 2354g (approx. 2064g)</li> </ul> |

※1: The weight includes packaging. The weight in parenthesis is for unit only.

※Environment resistance is rated at no freezing or condensation.

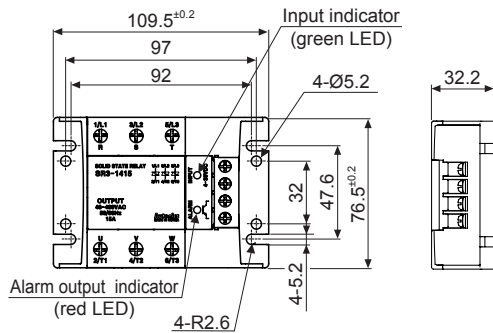
※For wiring the terminal, an O-ring terminal must be used.

# 3-Phase, Detachable/Integrated Heatsink Type SSR

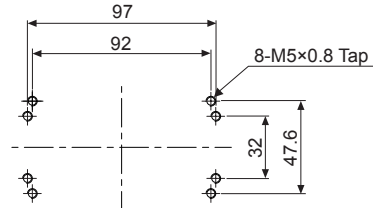
## ■ Dimensions

(unit: mm)

### ◎ Detachable heatsink type

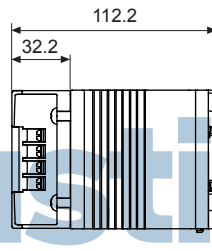
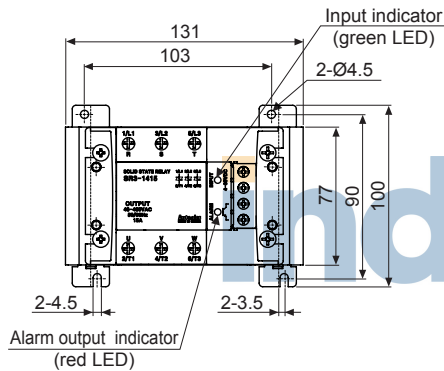


#### • Panel cut-out



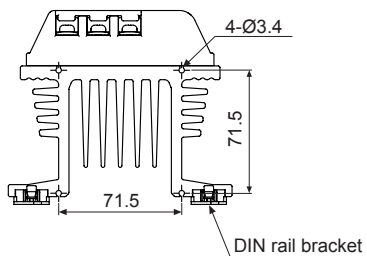
※Detachable heatsink type screw tightening torque for mounting: 2.5N·m to 3N·m

### ◎ Integrated heat sink (rated load current 15A/30A/40A)

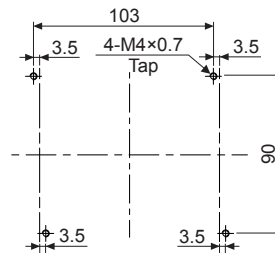


※DIN rail must be grounded.

#### • Cooling fan mounting hole (rated load current 30A/40A)



#### • Panel cut-out



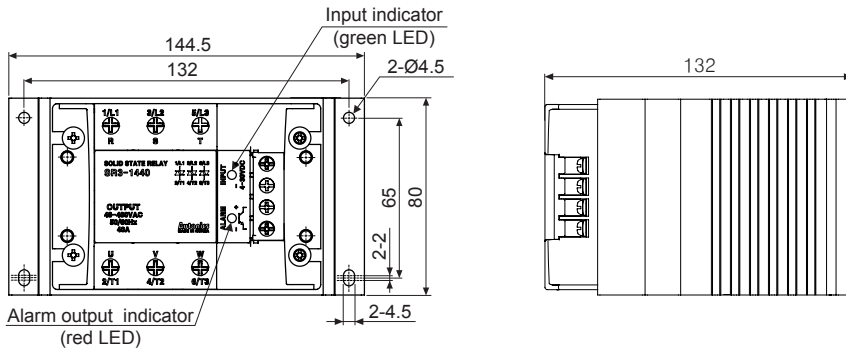
※Detachable heatsink type screw tightening torque for mounting: 1.35N·m

※For horizontal installation(when the heights of input part and output part are equal), it is recommended to apply 50% of rated load current.

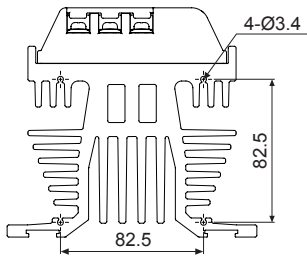
|     |                                                                 |
|-----|-----------------------------------------------------------------|
| (A) | Photoelectric Sensors                                           |
| (B) | Fiber Optic Sensors                                             |
| (C) | Door/Area Sensors                                               |
| (D) | Proximity Sensors                                               |
| (E) | Pressure Sensors                                                |
| (F) | Rotary Encoders                                                 |
| (G) | Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets |
| (H) | Temperature Controllers                                         |
| (I) | SSRs / Power Controllers                                        |
| (J) | Counters                                                        |
| (K) | Timers                                                          |
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| (O) | Sensor Controllers                                              |
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| (R) | Graphic/ Logic Panels                                           |
| (S) | Field Network Devices                                           |
| (T) | Software                                                        |

# SR2/SR3 Series

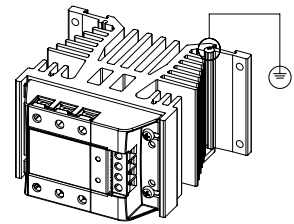
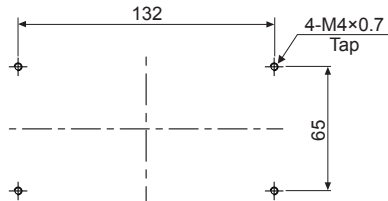
## © Integrated heat sink (rated load current 50A)



### • Cooling fan mounting hole

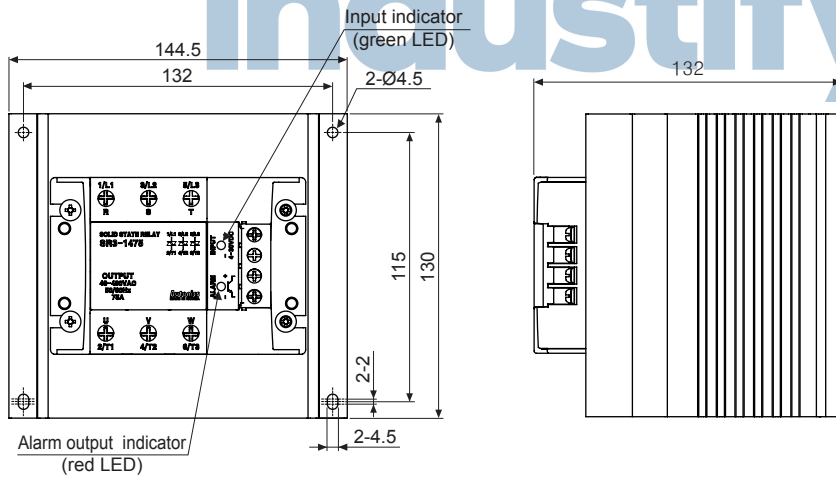


### • Panel cut-out

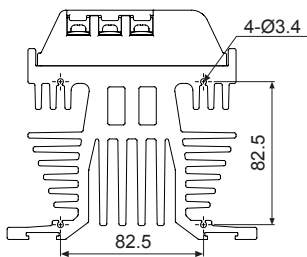


※Bolts for grounding must be grounded.

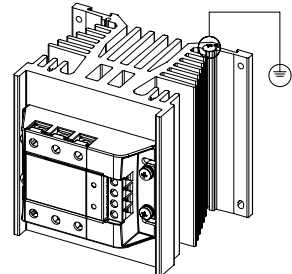
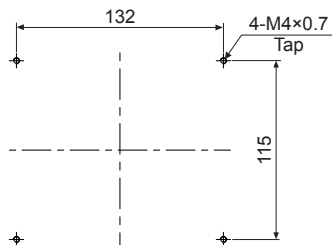
## © Integrated heat sink (rated load current 75A)



### • Cooling fan mounting hole



### • Panel cut-out



※Bolts for grounding must be grounded.

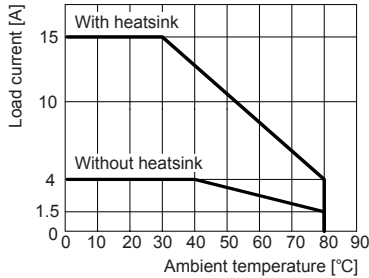
※Detachable heatsink type screw tightening torque for mounting:1.35N·m

※For horizontal installation (when the heights of input part and output part are equal), it is recommended to apply 50% of rated load current.

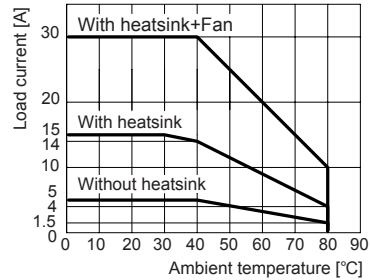
# 3-Phase, Detachable/Integrated Heatsink Type SSR

## ■ SSR Derating Curve

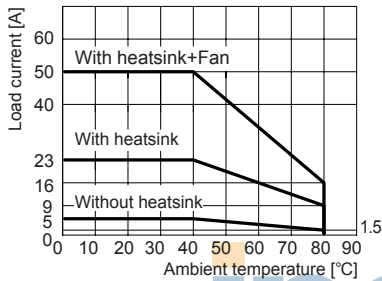
◎ SR(H)2/SR(H)3-1215



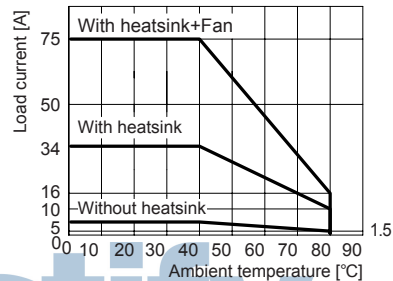
◎ SR(H)2/SR(H)3-1230



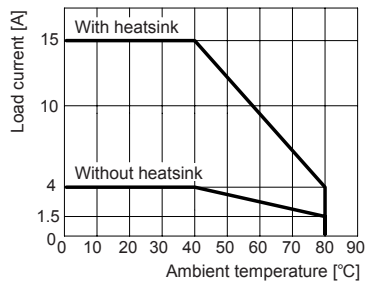
◎ SR(H)2/SR(H)3-1250/1450/1450R/2450



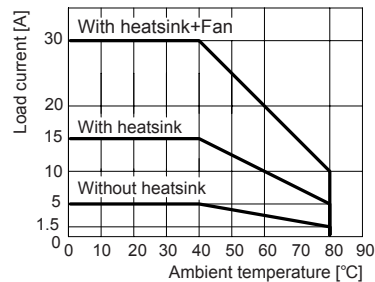
◎ SR(H)2/SR(H)3-1275/1475/1475R/2475



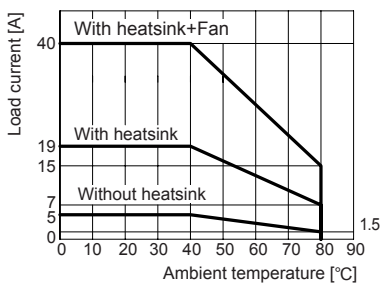
◎ SR(H)2/SR(H)3-1415/1415R/2415



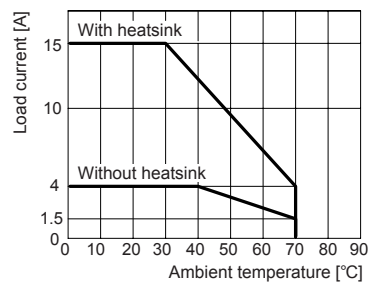
◎ SR(H)2/SR(H)3-1430/1430R/2430



◎ SR(H)2/SR(H)3-1440/1440R/2440



◎ SR(H)2/SR(H)3-4215



(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

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(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

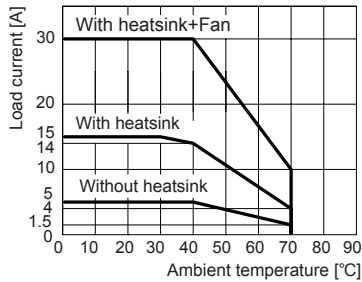
(S) Field Network Devices

(T) Software

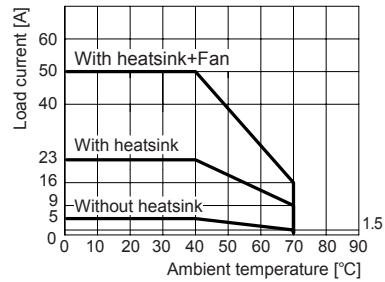
# SR2/SR3 Series

## ■ SSR Derating Curve

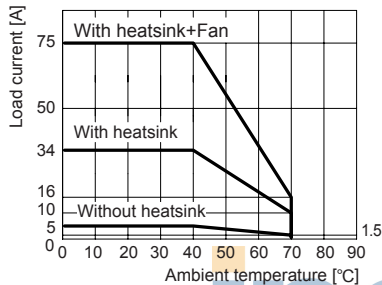
### ◎ SR(H)2/SR(H)3-4230



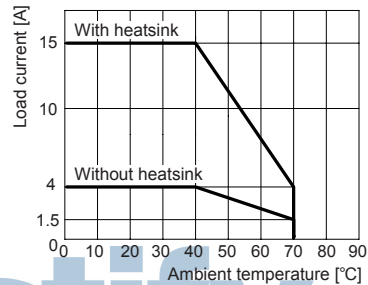
### ◎ SR(H)2/SR(H)3-4250/4450



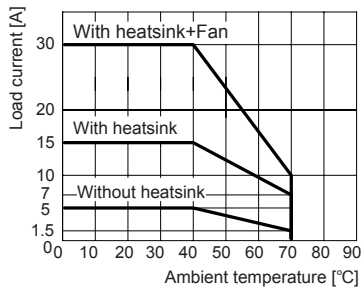
### ◎ SR(H)2/SR(H)3-4275/4475



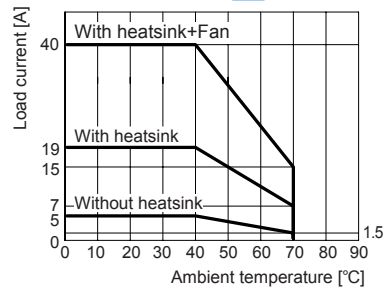
### ◎ SR(H)2/SR(H)3-4415



### ◎ SR(H)2/SR(H)3-4430



### ◎ SR(H)2/SR(H)3-4440



※The heatsink of the curves is dedicated for the SRH2/SRH3.

※Install SR2/SR3 Series on the metal plate (min. 130mm×120mm).

△Please supply less than 50% of the rated load current when installing several SSRs closely due to decreasing effectiveness of protection against heat.

## ◎ Specification of Fan

| Load capacity | Fan type | Size (mm) | Rated air flow <sup>※1</sup> |      |
|---------------|----------|-----------|------------------------------|------|
|               |          |           | m <sup>3</sup> /min          | CFM  |
| 30A/40A       | AC Fan   | 80×80     | 0.68                         | 24.0 |
|               | DC Fan   |           | 1.25                         | 44.0 |
| 50A/75A       | AC Fan   | 92×92     | 1.13                         | 40.0 |
|               | DC Fan   |           | 1.80                         | 63.5 |

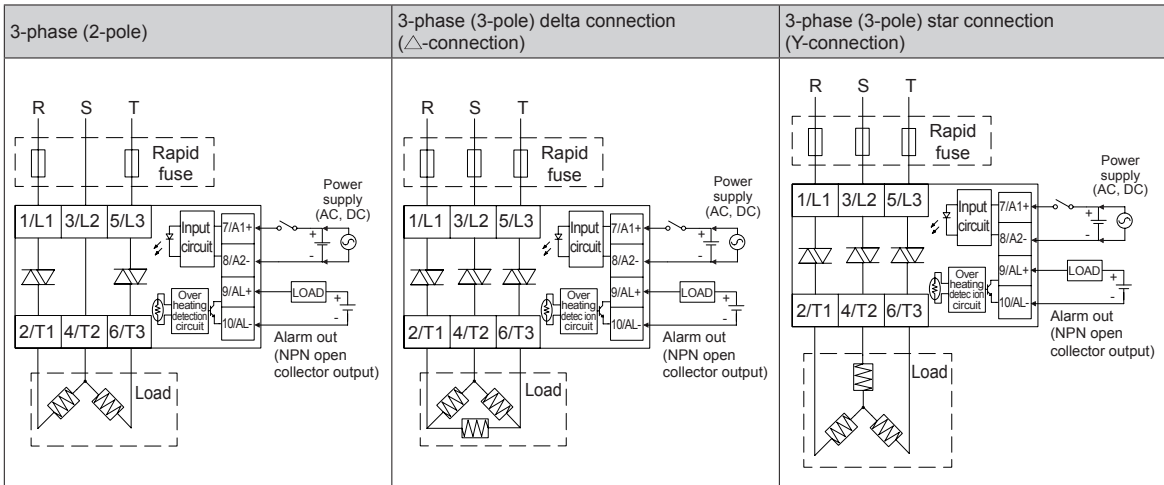
※1: The fan should be over the rated air flow value.

※Autonics does not provide or sell a fan. (Please buy a fan separately.)



# 3-Phase, Detachable/Integrated Heatsink Type SSR

## ■ Connections



※For DC signal input models, 8 and 10 terminals are connected inside.

※For AC signal input models, 8 and 10 terminals are insulated inside.

## ■ Proper Usage

### ⚠ High temperature caution

Make sure do not touch the heat sink or the unit body while power is supplied or right after load power is turned off. If not, it may cause a burn.

### ⚠ Cautions during use

1. Attach a heatsink and ventilate for smooth convection current. If not, congested heat transfer may cause product failure or malfunction.
2. Must ground heatsink or mounted DIN rail. Failure to follow this instruction may cause electric shock.
3. For mounting multiple SSR, please keep certain installation intervals for heat prevention. For horizontal installation (when the heights of input part and output part are equal), it is recommended to apply less than 50% of the rated load current.
4. Make sure do not touch the heatsink or the unit body while power is supplied or right after load power is turned OFF. If not, it may cause a burn.
5. Connect the proper cable for the rated load current with output terminal.
6. Use rapid fuse of which  $I^2t$  is under 1/2 of SSR  $I^2t$  in order to protect the unit from load's short-circuit current. In case of a short-circuit please replace the fuse which has same specification.
7. In case that load's current is lower than SSR min. load current, connect dummy resistance to the load in parallel so as to make load's current higher than SSR min. load current.
8. When selecting phase control with random turn-on model, install the noise filter between load and load's source.
9. Make sure that the screw on output terminal is tightly fastened. Using the unit with loose bolt may cause product failure or malfunction.
10. Do not touch the load's terminal even if output is OFF. It may cause electric shock.
11. In case of 4-30VDC, 24VAC model, the signal input should be insulated and limited voltage/current or Class 2, SELV power supply device.
12. To attach the heatsink, use Thermal Grease as below or that of equal specification.  
※Thermal Grease: GE TOSHIBA (YG6111), KANTO-KASEI (FLOIL G-600), SHINETSU (G746)
13. Avoid following environments to install this unit.
  - ① Where temperature/humidity is over the rated specifications
  - ② Where dew condensation occurs due to temperature change
  - ③ Where inflammable or corrosive gas exists
  - ④ Where direct rays of light exist
  - ⑤ Where severe shock, vibration or dust exists
  - ⑥ Where near facilities generating strong magnetic forces or electric noise
14. This product may be used in the following environments.
  - ① Indoors
  - ② Max. altitude: Under 2,000m
  - ③ Pollution degree 2
  - ④ Installation category III

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure Sensors

(F) Rotary Encoders

(G) Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J) Counters

(K) Timers

(L) Panel Meters

(M) Tacho / Speed / Pulse Meters

(N) Display Units

(O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T) Software