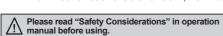
Features

- 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)
- Varous mounting methods (DIN rail, panel) SRH2/SRH3 series
 *DIN rail mount not available for 50 A, 75 A load current models







Ordering Information

			Function	No mark	Zero cross turn-on
				R	Random turn-on
				15	15A
			Rate load current (Resistive load)	30	30A
			(INESISTIVE IOAU)	40	40A
				50	50A
				75	75A
		Rate	d load voltage	2	24-240VAC
				4	48-480VAC
		Rated input	voltage	1	4-30VDC
		Nateu Iriput	. voitage	2	24VAC
				4	90-240VAC
	Control pl	hase		2	3-phase (2-pole)
				3	3-phase (3-pole)
Тур	e			No mark	Detachable heatsink type
				Н	Integrated heat sink type

Model	Rated input voltage	Rated load current	Rated load voltage	Function	
SR(H)2-1215	4-30VDC				
SR(H)3-1215	4-30VDC	454			
SR(H)2-4215	90-240VAC	15A			
SR(H)3-4215	90-240VAC				
SR(H)2-1230	4-30VDC				
SR(H)3-1230	4-30VDC	-30A			
SR(H)2-4230	00.040\/A.C			Zero cross turn-on	
SR(H)3-4230	90-240VAC		-24-240VAC		
SR(H)2-1250	4.20V/DC	-50A			
SR(H)3-1250	4-30VDC				
SR(H)2-4250	00.240\/AC				
SR(H)3-4250	90-240VAC				
SR(H)2-1275	4.20V/DC	-75A			
SR(H)3-1275	4-30VDC				
SR(H)2-4275	00.040\/4.0				
SR(H)3-4275	90-240VAC				

I-10 Autonics

Model	Rated input voltage	Rated load current	Rated load voltage	Function	
SR(H)2-1415				Zero cross turn-on	
SR(H)3-1415	4-30VDC			Zoro orose tarri ori	
SR(H)2-1415R	4-30VDC			Random turn-on	
SR(H)3-1415R		15A		Trandom turn-on	
SR(H)2-2415	24VAC	IJA		Zero cross turn-on	
SR(H)3-2415	24VAC			Zelo closs turn-on	
SR(H)2-4415	90-240VAC			Zero cross turn-on	
SR(H)3-4415	90-240VAC				
SR(H)2-1430				Zero cross turn-on	
SR(H)3-1430	4-30VDC			Zelo closs turn-on	
SR(H)2-1430R	4-30 VDC			Random turn-on	
SR(H)3-1430R		30A		ixandom tum-on	
SR(H)2-2430	24VAC	JUA		Zoro cross turn on	
SR(H)3-2430	24VAC			Zero cross turn-on	
SR(H)2-4430	90-240VAC			Zero cross turn-on	
SR(H)3-4430	90-240VAC				
SR(H)2-1440				Zoro oroso turn on	
SR(H)3-1440	4-30VDC	—40A	48-480VAC	Zero cross turn-on	
SR(H)2-1440R	4-30VDC			Random turn-on	
SR(H)3-1440R					
SR(H)2-2440	24)/AC			Zero cross turn-on	
SR(H)3-2440	24VAC				
SR(H)2-4440	00.240\/A.C			Zero cross turn-on	
SR(H)3-4440	90-240VAC				
SR(H)2-1450				Zero cross turn-on	
SR(H)3-1450	4-30VDC				
SR(H)2-1450R	4-30VDC			Random turn-on	
SR(H)3-1450R		50A			
SR(H)2-2450	24VAC	750A		Zero cross turn-on	
SR(H)3-2450	Z4VAC				
SR(H)2-4450	00.240\/AC			Zoro orogo turn on	
SR(H)3-4450	90-240VAC			Zero cross turn-on	
SR(H)2-1475				Zoro orogo turn on	
SR(H)3-1475	4-30VDC			Zero cross turn-on	
SR(H)2-1475R	4-30VDC			Davidson I among	
SR(H)3-1475R		75.4		Random turn-on	
SR(H)2-2475	24)/AC	75A		Zero cross turn-on	
SR(H)3-2475	24VAC				1
SR(H)2-4475	00.240\/40			Zoro orogo turz	
SR(H)3-4475	90-240VAC			Zero cross turn-on	1

Specifications

O Input

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

(A) Photoelectric Sensors

(B) Fiber Optic Sensors

> (C) Door/Area Sensors

(D) Proximity Sensors

(F) Rotary

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

(H) Temperature Controllers

(I) SSRs / Power Controllers

(J)

K) Timers

Panel Meters

Tacho / Speed / Pulse Meters

(N) Display Units

Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motor & Drivers & Controllers

(R) Graphic/ Logic Panels

(S) Field Network Devices

(T)

Software

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) ^{×1}	15Arms	30Arms	50Arms	75Arms	15Arms 30Arms 40Arms 50Arms 75Ai			75Arms		
Min. load c	urrent	0.15Arms	0.2Arms	0.5Arms		0.5Arms				•	
Max. 1 cycle surge current (60Hz)		250A	400A	1000A		300A	500A		1000A	1000A	
Max. non-repetitive surge current (I ² t, t=8.3ms)		340A ² S	1000A ² S	4000A ² S		350A ² S	1000A ² S		4000A ² S		
Peak voltage (non-repetitive) 600V				1200V (Zero cross turn-on), 1000V (Random turn-on)				rn-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-s	off-state dv/dt 500V/μs										

X1: AC-51 is utilization category at IEC 60947-4-3.

Alarm output (Temperature overheat)

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

O General specifications

	24-240VAC~ rated load current 15A/30A : 2500VAC 50/60Hz 1 min (Input-Output, Input/Output-Case)				
strength (Vrms)	24-240VAC~ rated load current 50A/75A 48-480VAC~ rated load current 15A/30A/40A/50A/75A : 4000VAC 50/60Hz 1 min (Input-Output, Input/Output-Case)				
resistance	Over 100MΩ (at 500VDC megger) (Input-Output, Input/Output-Case)				
	Input indicator: Green LED / Alarm output indicator: Red LED				
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				
Mechanical	00m/s² (approx. 30G) in each X, Y, Z direction for 3 times				
Malfunction	100m/s² (approx. 30G) in each X, Y, Z direction for 3 times				
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				
ninal connection	Min. 1×0.5mm² (1×AWG 20) Max. 1×1.5mm² (1×AWG 16) or 2×1.5mm² (2×AWG 16)				
rminal connection	Min. 1×1.5mm² (1×AWG 16) Max. 1×16mm² (1×AWG 6) or 2×6mm² (2×AWG 10)				
ninal fixed torque	0.75 to 0.95N·m				
rminal fixed torque	1.6 to 2.2N·m				
	(€ ₀ LP ₂)				
	Detachable heatsink type : approx. 365g (approx. 275g) Integrated heat sink type - Rated load current 15A/30A/40A: approx. 896g (approx. 686g) Rated load current 50A: approx. 1508g (approx. 1268g) Rated load current 75A: approx. 2354g (approx. 2064g)				
	resistance Mechanical Malfunction Mechanical Malfunction Ambient temperature Ambient humidity ninal connection rminal fixed torque				

 $[\]ensuremath{\,\mathbb{X}}$ 1: The weight includes packaging. The weight in parenthesis is for unit only.

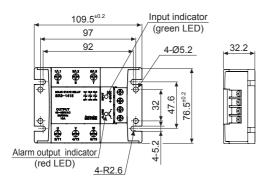
I-12 Autonics

 $[\]ensuremath{\mathsf{XEnvironment}}$ resistance is rated at no freezing or condensation.

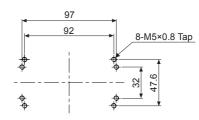
XFor wiring the terminal, an O-ring terminal must be used.

Dimensions

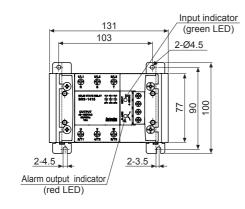
O Detachable heatsink type

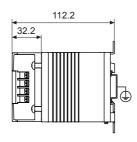


Panel cut-out



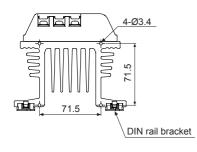
※Detachable heatsink type screw tightening torque for mounting: 2.5N⋅m to 3N⋅m



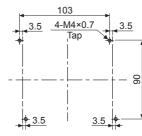


XDIN rail must be grounded.

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.

(unit: mm)

(A) Photoelectric Sensors (B) Fiber

(C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure

(F)

Encoders (G)

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

Temperature Controllers



Counters

imers

Meters

Tacho / Speed / Pulse Meters

> l) isplay nits

O) Sensor

(P) Switching Mode Power Supplies

(Q) Stepper Motors & Drivers & Controllers

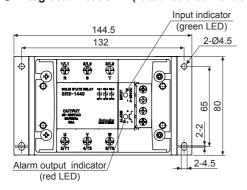
(R) Graphic/ Logic Panels

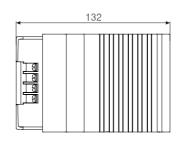
(S) Field Network Devices

(T) Software

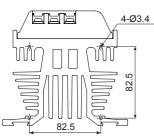
Autonics I-13

O Integrated heat sink (rated load current 50A)

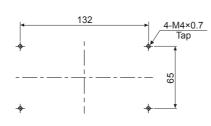


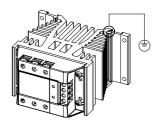


• Cooling fan mounting hole

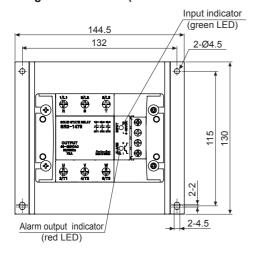


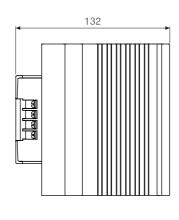
Panel cut-out



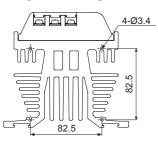


O Integrated heat sink (rated load current 75A)

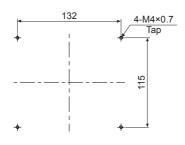


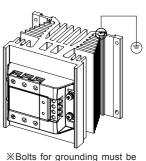


• Cooling fan mounting hole



Panel cut-out





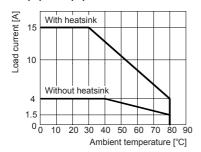
**Bolts for grounding must be grounded.

 $[\]times$ Detachable heatsink type screw tightening torque for mounting:1.35N·m

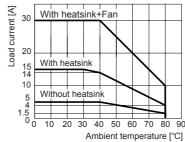
^{**}For horizontal installation (when the heights of input part and output part are equal), it is recommended to apply 50% of rated load current.

■ SSR Derating Curve

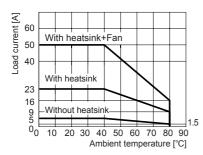
OSR(H)2/SR(H)3-1215



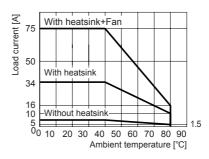
© SR(H)2/SR(H)3-1230



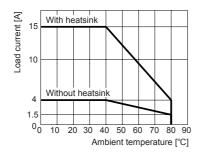
○ SR(H)2/SR(H)3-1250/1450/1450R/2450



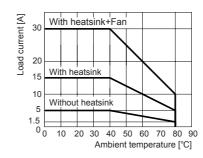
○ SR(H)2/SR(H)3-1275/1475/1475R/2475



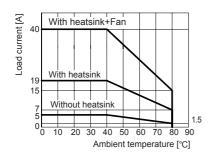
OSR(H)2/SR(H)3-1415/1415R/2415



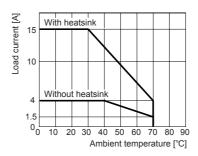
SR(H)2/SR(H)3-1430/1430R/2430



OSR(H)2/SR(H)3-1440/1440R/2440



OSR(H)2/SR(H)3-4215



(A) Photoelectric Sensors

(B) Fiber Optic

> (C) Door/Area Sensors

(D) Proximity Sensors

(E) Pressure

> (F) Rotary

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

(H) Temperature Controllers

(I) SSRs / Power Controllers

Counters

K) imers

L) anel

(M) Tacho / Speed / Pulse

N) Display Jnits

O) Sensor Controllers

(P) Switching Mode Power Supplies

(Q) Stepper Motor & Drivers & Controllers

(R) Graphic/ Logic Panels

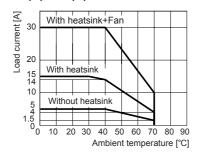
(S) Field Network Devices

(T) Software

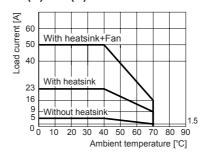
Autonics I-15

SSR Derating Curve

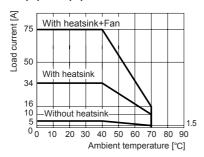
OSR(H)2/SR(H)3-4230



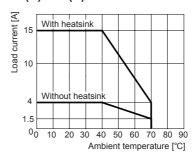
OSR(H)2/SR(H)3-4250/4450



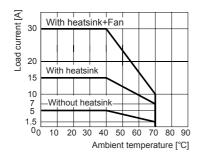
OSR(H)2/SR(H)3-4275/4475



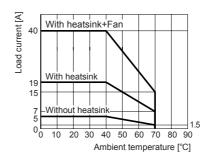
OSR(H)2/SR(H)3-4415



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.

Specification of Fan

- P					
Lood consoits	For time	Ci ()	Rated air flow ^{×1}		
Load capacity	Fan type	Size (mm)	m³/min	CFM	
204/404	AC Fan	-80×80	0.68	24.0	
30A/40A	DC Fan		1.25	44.0	
50A/75A	AC Fan	-92×92	1.13	40.0	
	DC Fan	-92×92	1.80	63.5	

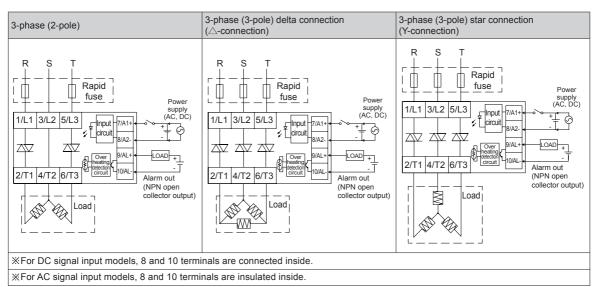
X1: The fan should be over the rated air flow value.

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

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

^{**}Autonics does not provide or sell a fan. (Please buy a fan separately.)

Connections



Proper Usage

Migh 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 I2t is under 1/2 of SSR I2t 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/currentor Class 2, SELV

Autonics

- 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
 - Where direct rays of light exist
 - (5) Where severe shock, vibration or dust exists
 - 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

(C) Door/Area Sensors

(D) Proximity

Connectors/ Connector Cables/ Sensor Distribution Boxes/Sockets

(I) SSRs / Powe

(N) Display Units

(P) Switching Mode Power Supplies

(Q) Stepper Motors

Logic Panels

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