Single-Phase, Integrated Heatsink Type SSR [Top-Bottom Terminal]

Features

• High heat dissipation efficiency with ceramic PCB and integrated heatsink

- Input Indicator (green LED)
- DIN rail mount or panel mount installation
- [Voltage input type] Zero cross turn-on, random turn-on models available
- [Current input type] Phase control and cycle control possible
 - Phase control (power equality division/phase equality division)
 - Cycle control (fixed cycle/variable cycle)

Please read "Safety Considerations"

in the instruction manual before using





[Current input type] Rated load

current

(J) Temperature Controllers

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(K) SSRs

(L) Power Controllers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units (S)

Sensor Controllers (T) Switching Mode Power

Supplies

(U) Recorders

(X) Field Network

Ordering Information

RH	1 - 1	1 2 1	5 - N			
					Voltage input type	Current input type
			Version	N	Renewal	
			Function	No Mark	Zero cross turn-on	_
				R	Random turn-on	_
				10	10A	_
			Rated load current	15	15A	_
			(resistive load)	20	20A	20A
				30	30A	30A
				40	40A	_
				60	60A	60A
		Rate	d load voltage	2	24-240VAC	100-240VAC
				4	48-480VAC	200-480VAC
				1	4-30VDC	_
		Rated input		2	24VAC	<u> </u>
				4	90-240VAC	<u> </u>
	Control pl	hase		А	_	4-20mA
	Control phase				Single-phase	
l.,	Input/output termi	nal		No Mark	Top-Bottom terminal	
Item				SRH	Solid State Relay (integ	grated heatsink type)

XThis ordering information is only for reference. For ordering a specific model, check the ordering information of the model.

**For more information about models, refer to the "Model" section for the voltage input type and the current input type.

K-15 **Autonics**

Single-Phase, Integrated Heatsink Type SSR [Voltage Input Type]

■ Model

Model	Rated input voltage	Rated load current	Rated load voltage	Function
SRH1-1210-N	4-30VDC==			
SRH1-2210-N	24VAC~	10A		
SRH1-4210-N	90-240VAC~			
SRH1-1215-N	4-30VDC==			
SRH1-2215-N	24VAC~	15A		
SRH1-4215-N	90-240VAC∼			
SRH1-1220-N	4-30VDC==			
SRH1-2220-N	24VAC~	20A		
SRH1-4220-N	90-240VAC~		24 240)/40	7
SRH1-1230-N	4-30VDC==		24-240VAC~	Zero cross turn-on
SRH1-2230-N	24VAC~	30A		
SRH1-4230-N	90-240VAC~			
SRH1-1240-N	4-30VDC==			
SRH1-2240-N	24VAC~	40A		
SRH1-4240-N	90-240VAC~			
SRH1-1260-N	4-30VDC==			
SRH1-2260-N	24VAC~	60A		
SRH1-4260-N	90-240VAC~			
SRH1-1410-N	4.20\/DO			Zero cross turn-on
SRH1-1410R-N	4-30VDC==	10A		Random turn-on
SRH1-2410-N	24VAC~			Zero cross turn-on
SRH1-1415-N	4-30VDC==			Zero cross turn-on
SRH1-1415R-N	4-30VDC==	15A		Random turn-on
SRH1-2415-N	24VAC~			Zero cross turn-on
SRH1-1420-N	4-30VDC==			Zero cross turn-on
SRH1-1420R-N	4-30VDC===	20A		Random turn-on
SRH1-2420-N	24VAC~		——48-480VAC∼	Zero cross turn-on
SRH1-1430-N	4-30VDC===		40-400VAC~	Zero cross turn-on
SRH1-1430R-N	4-30VDC===	30A		Random turn-on
SRH1-2430-N	24VAC~			Zero cross turn-on
SRH1-1440-N	4 30VDC-			Zero cross turn-on
SRH1-1440R-N	4-30VDC==	40A		Random turn-on
SRH1-2440-N	24VAC~			Zero cross turn-on
SRH1-1460-N	4-30VDC==			Zero cross turn-on
SRH1-1460R-N	4-30700==	60A		Random turn-on
SRH1-2460-N	24VAC~			Zero cross turn-on

Specifications

○ Input

Rated inp	out voltage range	4-30VDC	24VACrms∼ (50/60Hz)	90-240VACrms~ (50/60Hz)
Allowable	e input voltage range	4-32VDC==	19-30VACrms∼ (50/60Hz)	85-264VACrms~ (50/60Hz)
Max. inpu	ut current	18mA	15mArms (24VACrms∼)	18mArms (240VACrms∼)
Pick-up v	oltage .	Min. 4VDC==	Min. 19VACrms∼	Min. 85VACrms~
Drop-out	voltage	Max. 1VDC==	Max. 4VACrms \sim	Max. 10VACrms∼
Turn-on	Zero cross turn-on	Max. 0.5 cycle of load source + 1ms	Max. 2 cycle of load source + 1ms	Max. 2 cycle of load source + 1ms
time	Random turn-on	Max. 1ms		_
Turn-off t	ime	Max. 0.5 cycle of load source + 1ms	Max. 2 cycle of load source + 1ms	Max. 2 cycle of load source + 1ms

K-16 Autonics

Single-Phase, Integrated Heatsink Type SSR [Voltage Input Type]

Output

Rated load voltage range		24-240VACrms~ (50/60Hz)									
Allowable load voltage range		24-264VACrms~	24-264VACrms~ (50/60Hz)								
Rated load current	Resistive load (AC-51)**1	10Arms	15Arms	20Arms	30Arms	40Arms	60Arms				
Min. load curr	ent	0.15Arms	0.15Arms	0.2Arms	0.5Arms	0.5Arms	0.5Arms				
Max. 1 cycle s (60Hz)	surge current	160A	160A	250A	400A	500A	1000A				
Max. non-repe current (l ² t, t=		130A²s	130A ² s	300A ² s	910A ² s	1000A ² s	4000A ² s				
Peak voltage	(non-repetitive)	600V									
Leakage curre	ent (Ta=25°C)	Max. 10mArms (2	240VAC~/60Hz)								
Output on volt (max. load cu	tage drop [Vpk] rrent)	Max. 1.6V									
Static off state	e dv/dt	500V/µs									
Rated load vo		48-480VACrms~ (50/60Hz)									
Allowable load	d voltage range	48-528VACrms∼ (50/60Hz)									
Rated load current	Resistive load (AC-51) ^{×1}	10Arms	15Arms	20Arms	30Arms	40Arms	60Arms				
Min. load curr	ent	0.5Arms	0.5Arms	0.5Arms	0.5Arms	0.5Arms	0.5Arms				
Max. 1 cycle s (60Hz)	surge current	300A	300A	300A	500A	500A	1000A				
Max. non-repetitive surge current (I²t, t=8.3ms)		350A ² s	350A ² s	350A ² s	1000A ² s	1000A ² s	4000A ² s				
Peak voltage (non-repetitive)		1200V (zero cross turn-on), 1000V (random turn-on)									
Leakage curre	ent (Ta=25°C)	Max. 10mArms (4	Max. 10mArms (480VAC~/60Hz)								
Output on volt (max. load cu	tage drop [Vpk] rrent)	Max. 1.6V	Max. 1.6V								
Static off state dv/dt		500V/μs									

X1: AC-51 is utilization category at IEC60947-4-3.

General specifications

	•					
Dielectric strength (Vrms)		2500VAC 50/60Hz 1 min (input-output, input/output-case)				
Insulation resistance		Over 100MΩ (at 500VDC megger) (input-output, input/output-case)				
Indicator		nput indicator: green LED				
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour				
Vibration	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min				
Chask	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times				
Shock	Malfunction	100m/s² (approx. 30G) in each X, Y, Z direction for 3 times				
Environment	Ambient temp.	-30 to 80°C (in case of the rated input voltage 90-240VAC∼: -20 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 humi.	45 to 85%RH, storage: 45 to 85%RH				
Input terminal	connection	Min. 1×0.5mm ² (1×AWG20), max. 1×1.5mm ² (1×AWG16) or 2×1.5mm ² (2×AWG16)				
Output termin	al connection	 Rated load current 10A/15A/20A : Min. 1×0.75mm² (1×AWG18), max. 1×4mm² (1×AWG12) or 2×2.5mm² (2×AWG14) Rated load current 30A/40A/60A : Min. 1×1.5mm² (1×AWG16), max. 1×16mm² (1×AWG6) or 2×6mm² (2×AWG10) 				
	6 11	XUse wires compliant with load current capacity to connect to the terminal.				
Input terminal	fixed torque	0.75 to 0.95N·m				
Output terminal fixed torque		• Rated load current 10A/15A/20A: 1.0 to 1.35N·m • Rated load current 30A/40A/60A: 1.6 to 2.2N·m				
Approval		(2.1 2.1 2.1 2.1 3.1				
Weight ^{×1}		 Rated load current 10A/15A/20A: approx. 298g (approx. 225g) Rated load current 30A/40A: approx. 500g (approx. 410g) Rated load current 60A: approx. 770g (approx. 680g) 				

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

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

ounters

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies

(U) Recorders

(W) Panel PC

(X) Field Network Devices

XEnvironment resistance is rated at no freezing or condensation.

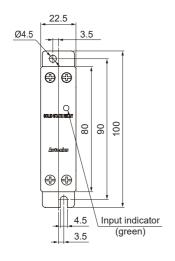
^{*}For wiring the terminal, round terminal must be used.

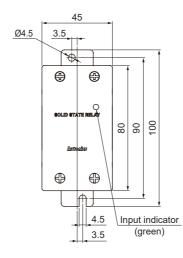
Dimensions

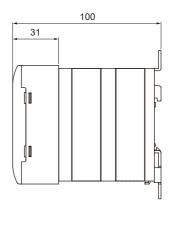
• Rated load current 10A/15A/20A

• Rated load current 30A/40A

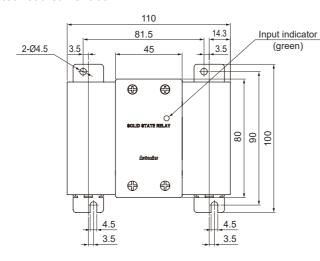
(unit: mm)

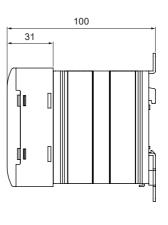






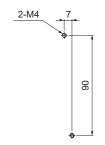
• Rated load current 60A



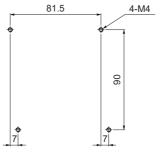


O Panel cut-out

• Rated load current 10A/15A/20A/30A/40A



• Rated load current 60A



XScrew tightening torque for mounting: 1.8 to 2.5N⋅m

K-18 Autonics

Single-Phase, Integrated Heatsink Type SSR [Voltage Input Type]

(unit: mm)

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

(M) Counters

imers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies

(U) Recorders

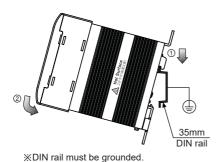
(V) HMIs

(W)

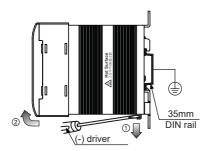
(X) Field Network Devices

O DIN rail mounting

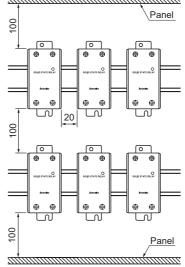
DIN rail attachment



• DIN rail detachment



Spacing



When installing multiple SSRs, please keep space between SSRs for heat radiation.

When installing SSRs horizontally (input part and all properties).

When installing SSRs horizontally (input part and all properties).

When installing SSRs horizontally (input part and all properties).

When installing multiple SSRs, please keep space between SSRs for heat radiation.

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part and all properties).

When installing multiple SSRs horizontally (input part

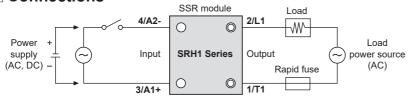
When installing SSRs horizontally (input part and output part on the same height), please supply less than 50% of the rated load current.

A High temperature caution

While supplying power to the load or right after turning off the power of the load, do not touch the body and heat sink.

Failure to follow this instruction may result in a burn due to the high temperature.

Connections

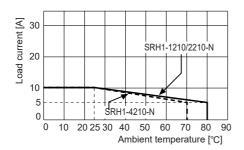


XUse terminals of size specified below.

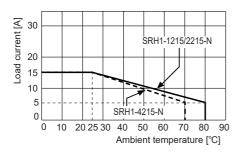
ACCCC terrimidae or olde operanea pereni								
Terminal type		Input	Output					
Rated load current		10A, 15A, 20A, 30A, 40A, 60A	A 10A, 15A, 20A 30A, 40					
(1) ta b	а	Min. 3.5mm	Min. 4.0mm	Min. 5.0mm				
<round></round>	b	Max. 7.0mm	Max. 9.0mm	Max. 12.0mm				

■ SSR Derating Curve

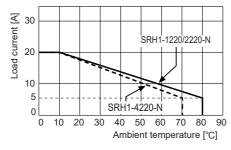
© SRH1-1210/2210/4210-N



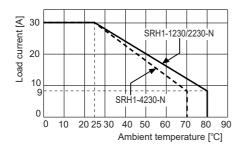
© SRH1-1215/2215/4215-N



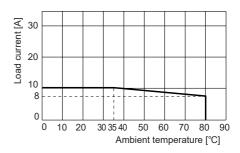
© SRH1-1220/2220/4220-N



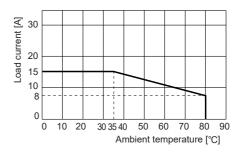
© SRH1-1230/2230/4230-N



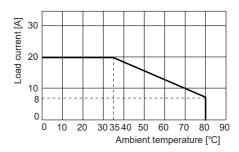
© SRH1-1410/1410R/2410-N



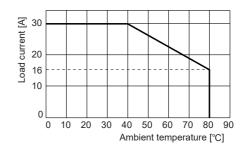
© SRH1-1415/1415R/2415-N



© SRH1-1420/1420R/2420-N



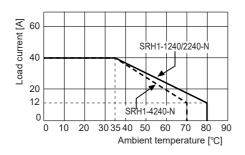
© SRH1-1430/1430R/2430-N



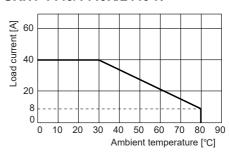
K-20 Autonics

Single-Phase, Integrated Heatsink Type SSR [Voltage Input Type]

© SRH1-1240/2240/4240-N



© SRH1-1440/1440R/2440-N



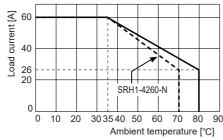
SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

© SRH1-1260/1460/1460R-N SRH1-2260/2460/4260-N



50% of the rated load current.

XAbove SSR derating curves obtained approval from the UL certification authority.

⚠ Since effectiveness of the heat radiation is decreased when multiple SSRs are installed closely, please supply less than

Proper Usage

!\ Cautions during use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- 2. 4-30VDC, 24VAC signal input should be insulated and limited voltage/current or Class 2, SELV power supply device.
- 3. Install the unit in the well ventilated place.
- 4. Ground to the heat sink, panel, or DIN rail. Failure to follow this instruction may result in electric shock.
- 5. While supplying power to the load or right after turning off the power of the load, do not touch the body and heat sink. Failure to follow this instruction may result in a burn due to the high temperature.
- 6. In order to protect the product from the short-circuit current of the load, use rapid fuse of which I2t is under the 1/2 of SSR I²t. When short-circuited, replace the fuse to those of same specification with the used rapid fuse.
- 7. Install dummy resistance in parallel with the load, to keep the sum of current flowing in the load and dummy resistance being over SSR minimum load current.
- 8. When using random turn-on model for phase control, install noise filter between the load and the power of the load.
- 9. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- 10. This unit may be used in the following environments.
 - 1 Indoors (in the environment condition rated in 'Specifications')
 - ② Altitude max. 2,000m
 - 3 Pollution degree 2
 - 4 Installation category III

(J) Temperature Controllers

(L) Power Controllers

Digital Panel Meters

(P) Indicators

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Powe Supplies

(U) Recorders

(X) Field Network

K-21 **Autonics**

Single-Phase, Integrated Heatsink Type SSR [Current Input Type]

■ Model

Model	Rated input current		Rated load voltage	IModel			Rated load voltage
SRH1-A220-N		20A		SRH1-A420-N		20A	
SRH1-A230-N	4-20mA	30A	100-240VAC∼	SRH1-A430-N	4-20mA	30A	200-480VAC∼
SRH1-A260-N		60A		SRH1-A460-N		60A	

Specifications

O Input

Rated input current	4-20mA
Max. allowable input current	50mA
Pick-up current	Min. 4.2mA
Static off current	Max. 4.0mA
Power factor	Min. 0.9 (max. 25° of difference between voltage phase and current phase)
Start-up time	60Hz: 200ms, 50Hz: 250ms
Operation time	60Hz: 16.6ms, 50Hz:20ms
Operation mode ^{×1}	Phase control (phase equality division type, power equality division type) Cycle control (fixed cycle, variable cycle)

X1: You can change operation mode by jumper pin. Default is Phase control (Power equality division type).

Output

Rated load voltage range		100-240VACrms∼ (50/60Hz)			200-480VACrms∼ (50/60Hz)		
Allowable load	l voltage range	90-264VACrms~ (50/60Hz)			200-528VACrms~ (50/60Hz)		
Rated load current	Resistive load (AC-51) ^{×1}	20Arms	30Arms	60Arms	20Arms	30Arms	60Arms
Min. load curr	ent	0.5Arms			0.5Arms		
Max. 1 cycle surge current (60Hz)		300A	500A	1000A	300A	500A	1000A
	Max. non-repetitive surge current (I ² t, t=8.3ms)		1000A ² s	4000A ² s	350A ² s	1000A ² s	4000A ² s
Peak voltage (r	non-repetitive)	600V			1000V		
Leakage curre	ent (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	e dv/dt	500V/μs					

X1: AC-51 are utilization category at IEC60947-4-3.

General specifications

Phase control					
(phase equality division type)		5 to 99%			
Phase control		10 to 99%			
(power equalit	y division type)	10 10 35 %			
Frequency rea	ding function	Yes			
Dielectric stre	ngth (Vrms)	4000VAC 50/60Hz for 1 min (input-output, input/output-case)			
Insulation resi	stance	Over 100MΩ (at 500VDC megger)			
Indicator		nput indicator: green LED			
Vibration		0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour			
	Ambient temp.	-20 to 70°C, storage: -20 to 100°C			
Environment	Ambient temp.	(The rated load current capacity is different depending on ambient temperature. Refer to 🔳 SSR Derating Curve'.)			
	Ambient humi.	45 to 85%RH, storage: 45 to 85%RH			
Input terminal	connection	Min. 1×0.5mm² (1×AWG20), max. 1×16mm² (1×AWG6) or 2×1.5mm² (2×AWG16)			
Output termina	al connection	Min. 1×1.5mm ² (1×AWG16), max. 1×16mm ² (1×AWG6) or 2×6mm ² (2×AWG10)			
Output termina	ai connection	XUse wires compliant with load current capacity to connect to the terminal.			
Input terminal	fixed torque	0.75 to 0.95N·m			
Output terminal fixed torque		1.6 to 2.2N·m			
Approval		20 ∠P 2 ∋)			
Unit weight		Rated load current 20A/30A: approx. 410g			
Unit weight		Rated load current 60A: approx. 680g			

XEnvironment resistance is rated at no freezing or condensation.

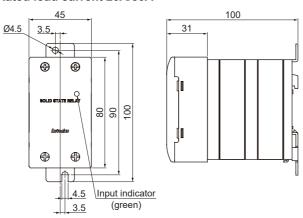
K-22 Autonics

^{*}For wiring the terminal, round terminal must be used.

Single-Phase, Integrated Heatsink Type SSR [Current Input Type]

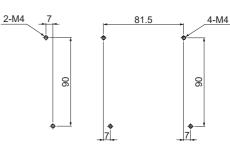
Dimensions

Rated load current 20A/30A



O Panel cut-out

Rated load current
 Rated load current
 60A



 $\ensuremath{\mbox{\%}}\mbox{Screw}$ tightening torque for mounting: 1.8 to 2.5N·m

SENSORS

(unit: mm)

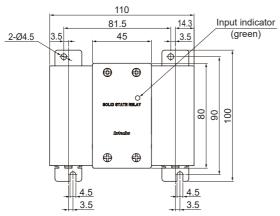
CONTROLLERS

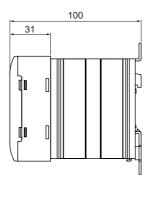
MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

Rated load current 60A





(K) SSRs

(L) Power Controllers

M) Counters

l) more

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power

Supplies
(U)
Recorders

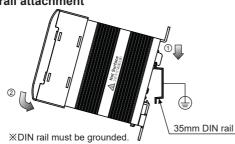
/) MIs

(W) Panel PC

(X) Field Network

O DIN rail mounting

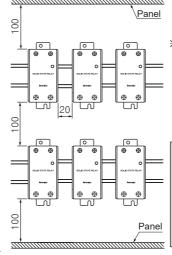
• DIN rail attachment



• DIN rail detachment

State of the state of

○ Spacing

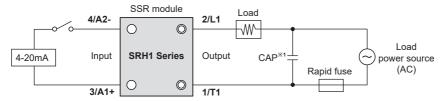


When installing multiple SSRs, please keep space between SSRs for heat radiation. When installing SSRs horizontally (input part and output part on the same height), please supply less than 50% of the rated load current.

High temperature caution

While supplying power to the load or right after turning off the power of the load, do not touch the body and heat sink. Failure to follow this instruction may result in a burn due to the high temperature.

Connections



X1: When connecting noise filter and capacitor, it is appropriate for EMC.

CAP: Rated load voltage 100-240VAC → 1uF/250VAC

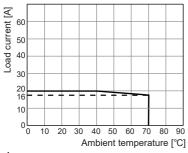
Rated load voltage 200-480VAC → 0.47uF/500VAC

XUse terminals of size specified below.

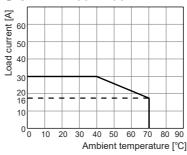
Terminal type		Input	Output	
□	а	Min. 3.5mm	Min. 5.0mm	
<round></round>	b	Max. 7.0mm	Max. 12.0mm	

SSR Derating Curve

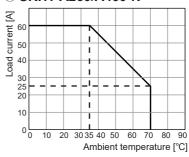
© SRH1-A220/A420-N



SRH1-A230/A430-N



SRH1-A260/A460-N



⚠ Since effectiveness of the heat radiation is decreased when multiple SSRs are installed closely, please supply less than 50% of the rated load current.

XAbove SSR derating curves obtained approval from the UL certification authority.

Operation Setting

• Detach front cover

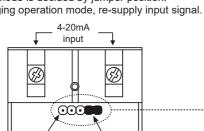
Press front cover connection 4 parts at right and left side with (-) driver, and front cover is detached. X Before detaching front cover, you must cut off load

current and input.

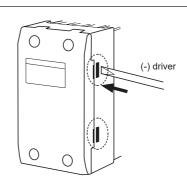
Jumper pin

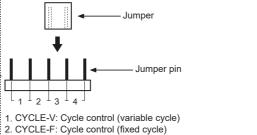
• Jumper pin setting

Operation mode is decided by jumper position. After changing operation mode, re-supply input signal.



Jumper





- 3. PHASE-AD: Phase control (phase equality division type)
- 4. PHASE-PD: Phase control (power equality division type) (factory default)

K-24

Single-Phase, Integrated Heatsink Type SSR [Current Input Type]

Operation Mode

O Phase control

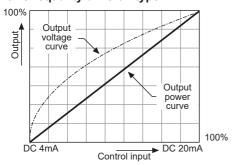
Output waveform of phase control

• When control input signal is 25% • When control input signal is 50% • When control input signal is 75%



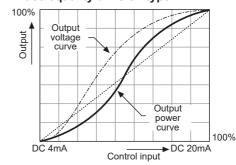
X1: The black parts of output waveform are output on the load.

• Power equality division type



Controls output power which is proportional to control input (4-20mA) level.

• Phase equality division type



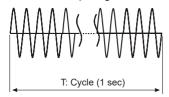
Controls phase angle which is proportional control input (4-20mA) level.

Cycle control

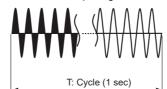
• Fixed cycle

Controls continuously the number of full cycle which is supplied to load every 1 sec by being proportional to control input (4-20mA).

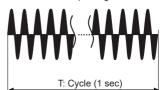
· When control input signal is 0%



· When control input signal is 50%



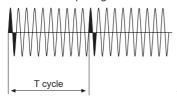
When control input signal is 100%



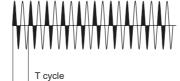
Variable cycle

Controls fast and accurately the subject with optimized the number of AC voltage cycle which is supplied to load by being proportional to control input (4-20mA).

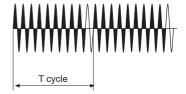
· When control input signal is 10%



· When control input signal is 50%



When control input signal is 90%



SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

Counters

N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Power Supplies

(U) Recorders

(V) HMIs

(W) Panel PC

(X) Field Network

Proper Usage

- 1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- 2. Install the unit in the well ventilated place.
- 3. Ground to the heat sink, panel, or DIN rail. Failure to follow this instruction may result in electric shock.
- 4. While supplying power to the load or right after turning off the power of the load, do not touch the body and heat sink. Failure to follow this instruction may result in a burn due to the high temperature.
- 5. In order to protect the product from the short-circuit current of the load, use rapid fuse of which l²t is under the 1/2 of SSR l²t. When short-circuited, replace the fuse to those of same specification with the used rapid fuse.
- 6. Install dummy resistance in parallel with the load, to keep the sum of current flowing in the load and dummy resistance being over SSR minimum load current.
- 7. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- 8. This unit may be used in the following environments.
 - ① Indoors (in the environment condition rated in 'Specifications')
 - ② Altitude max. 2,000m
 - 3 Pollution degree 2
 - 4 Installation category III

K-26 Autonics