

Single phase, Heatsink separated type SSR [SR1 Series]

Ordering information

NEW






Appearances

Model	Input voltage	Rated load current	Load voltage	Zero cross/Random turn-on
SR1-1215	4-30VDC	15A	24-240VAC	Zero cross turn-on
SR1-4215	90-240VAC	25A		
SR1-1225	4-30VDC			
SR1-4225	90-240VAC	40A		
SR1-1240	4-30VDC			
SR1-4240	90-240VAC	50A		
SR1-1250	4-30VDC			
SR1-4250	90-240VAC	75A		
SR1-1275	4-30VDC	48-480VAC	Zero cross turn-on	
SR1-4275	90-240VAC		15A	Random turn-on
SR1-1415	4-30VDC			Zero cross turn-on
SR1-1415R	90-240VAC			Random turn-on
SR1-4415	90-240VAC		25A	Zero cross turn-on
SR1-1425	4-30VDC			Zero cross turn-on
SR1-1425R	4-30VDC			Random turn-on
SR1-4425	90-240VAC		40A	Zero cross turn-on
SR1-1440	4-30VDC			Zero cross turn-on
SR1-1440R	4-30VDC			Random turn-on
SR1-4440	90-240VAC		50A	Zero cross turn-on
SR1-1450	4-30VDC			Zero cross turn-on
SR1-1450R	4-30VDC			Random turn-on
SR1-4450	90-240VAC		75A	Zero cross turn-on
SR1-1475	4-30VDC			Zero cross turn-on
SR1-1475R	4-30VDC			Random turn-on
SR1-4475	90-240VAC			Zero cross turn-on

Specifications

Input

	4-30VDC input voltage	90-240VAC input voltage
Input voltage range	4-32VDC	85-264VACrms(50/60Hz)
Max. input current	9mA(Zero cross turn-on), 13mA(Random turn-on)	7mArms(240VACrms)
Pick-up voltage	4VDC	85VACrms
Drop-out voltage	1VDC	10VACrms
Turn-on time	Zero cross turn-on	Max. 1.5 cycle of load source + 1ms
	Random turn-on	
Turn-off time	Max. 0.5 cycle of load source + 1ms	Max. 1.5 cycle of load source + 1ms

Specifications

Output

		24-240VAC load voltage					48-480VAC load voltage				
Load voltage range(50/60Hz)		24-264VACrms(50/60Hz)					48-528VACrms(50/60Hz)				
Rated load current Ta=25°C	Resistive load (AC-51)	15Arms	25Arms	40Arms	50Arms	75Arms	15Arms	25Arms	40Arms	50Arms	75Arms
	Motor load (AC-53a)	—					5Arms	8Arms		15Arms	
Min. load current		0.15Arms	0.2Arms		0.5Arms		0.5Arms				
Max. 1cycle surge current (60Hz)		190A	270A	330A	1000A		300A	500A		1000A	
Max. non-repetitive surgecurrent(I ² t, t=8.3ms)		150A ² S	300A ² S	500A 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)				
Leakage current(Ta=25°C)		Max. 10mArms									
Output on voltage drop[Vpk] (Max. load current)		Max. 1.6V									
Static off-state dv/dt		500V/μs									

※For controlling motor load, use the product which load voltage range is within 48-480VACrms.

General Specifications

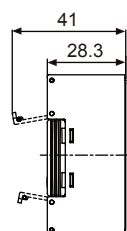
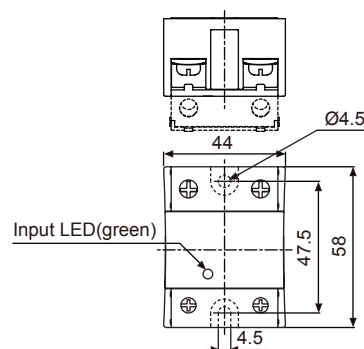
Certification		UL508, CSA22.2 No.14 and IEC/EN 60947-4-3									
Dielectric strength(Vrms)		4000VAC 50/60Hz 1min.(input-output, input/output-case)									
Insulation resistance		Min. 100MΩ(at 500VDC megger)									
Input LED		Green									
Environ-ment	Ambient temperature	-30 to 80°C, storage: -30 to 100°C (Rated load current capacity is different based on the surrounding temperature.)									
	Ambient humidity	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 terminal connection		Min. 1×1.5mm ² (1×AWG16) Max. 1×16mm ² (1×AWG6) or 2×6mm ² (2×AWG10)									
Input terminal fixed torque		0.75 to 0.95N·m									
Output terminal fixed torque		1.6 to 2.2N·m									
Unit weight		Approx. 73g									

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

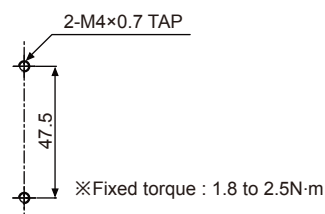
※Environment resistance is rated at no freezing or condensation.

Dimensions

(unit: mm)



Hole cut-out for panel front mounting



Connections

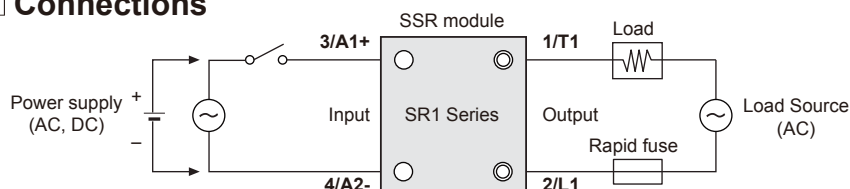


Photo electric sensor
Fiber optic sensor
Door/Area sensor
Proximity sensor
Pressure sensor
Rotary encoder
Connector/Socket
Temp. controller
SSR/Power controller
Counter
Timer
Panel meter
Tacho/Speed/ Pulse meter
Display unit
Sensor controller
Switching mode power supply
Stepper motor& Driver&Controller
Graphic/Logic panel
Field network device

Single phase, Slim heatsink separated type SSR [SRC1 Series]

■ Ordering information

NEW









Appearances

Model	Input voltage	Rated load current	Load voltage	Zero cross turn-on/Random turn-on	
SRC1-1215	4-30VDC	15A	24-240VAC	Zero cross turn-on	
SRC1-4215	90-240VAC				
SRC1-1220	4-30VDC	20A			
SRC1-4220	90-240VAC				
SRC1-1230	4-30VDC	30A	48-480VAC	Zero cross turn-on	
SRC1-4230	90-240VAC				
SRC1-1420	4-30VDC	20A			48-480VAC
SRC1-4420	90-240VAC				
SRC1-1420R	4-30VDC		Random turn-on		

■ Specifications

◎ Input

	4-30VDC input voltage	90-240VAC input voltage
Input voltage range	4-32VDC	85-264VACrms(50/60Hz)
Max. input current	9mA(Zero cross turn-on), 13mA(Random turn-on)	7mA(240VACrms)
Pick-up voltage	4VDC	85VACrms
Drop-out voltage	1VDC	10VACrms
Turn-on time	Zero cross turn-on Random turn-on	Max. 1.5 cycle of load source + 1ms —
Turn-off time	Max. 0.5 cycle of load source + 1ms	Max. 1.5 cycle of load source + 1ms

◎ Output

	24-240VAC load voltage			48-480VAC load voltage
Load voltage range(50/60Hz)	24-264VACrms			48-528VACrms
Rated load current Ta=25°C	Resistive load (AC-51)	15Arms	20Arms	30Arms
	Motor load (AC-53a)	—		
Min. load current	0.15Arms	0.2Arms	0.2Arms	0.5Arms
Max. 1 cycle surge current (60Hz)	190A	270A	330A	300A
Max. non-repetitive surge current(I ² t, t=8.3ms)	150A ² S	300A ² S	500A ² S	350A ² S
Peak voltage(Non-repetitive)	600V			1200V(zero cross turn-on), 1000V(random turn-on)
Leakage current (240VAC/60Hz, Ta=25°C)	Max. 10mA			
Output on voltage drop[Vpk] (Max. load current)	Max. 1.6V			
Static off-state dv/dt	500V/μs			

Specifications

General Specifications

Certification		UL508, CSA22.2 No.14, IEC/EN 60947-4-3
Dielectric strength(Vrms)		4000VAC 50/60Hz 1min.(Input-Output, Input/Output-Case)
Insulation resistance		Min. 100MΩ(at 500VDC Megger)
Vibration		10 to 55Hz double amplitude 0.75mm in each of X, Y, Z directions for 1 hour
Input LED		Green
Environ-ment	Ambient temperature	-30 to 80°C, storage: -30 to 100°C (Rated load current capacity is different based on the surrounding temperature.)
	Ambient humidity	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 terminal connection		Min. 1×0.75mm ² (1×AWG18), Max. 1×4mm ² (1×AWG12) or 2×2.5mm ² (2×AWG14)
Input terminal fixed torque		0.75 to 0.95N·m
Output terminal fixed torque		1 to 1.35N·m
Unit weight		Approx. 85g

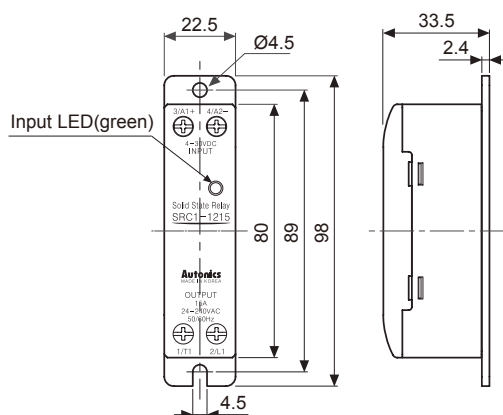
※For wiring the terminal, an O-ring terminal must be used.

※Environment resistance is rated at no freezing or condensation.

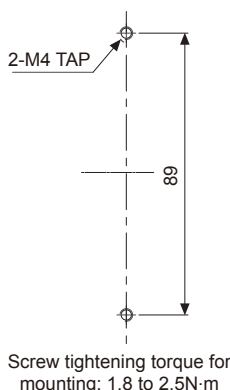
Dimensions & Mounting

(unit: mm)

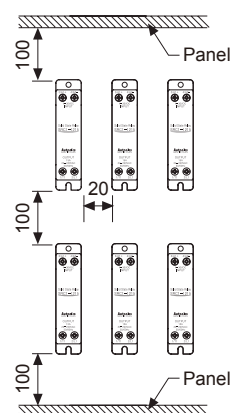
Dimensions



Hole cut-out for panel front mounting



Installation interval



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.

※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 50% of rated load current.

Connections

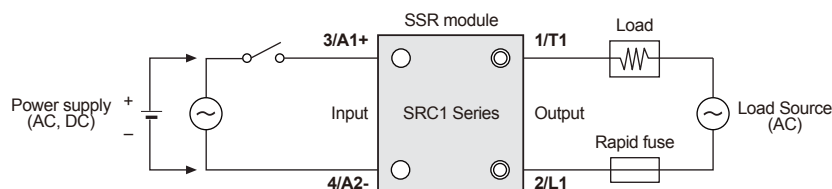


Photo electric sensor

Fiber optic sensor

Door/Area sensor

Proximity sensor

Pressure sensor

Rotary encoder

Connector/Socket

Temp. controller

SSR/Power controller

Counter

Timer

Panel meter

Tacho/Speed/ Pulse meter

Display unit

Sensor controller

Switching mode power supply

Stepper motor& Driver&Controller

Graphic/Logic panel

Field network device

Single phase, Intergrated heatsink type SSR [SRH1 Series]

Ordering information

NEW




● 15A/20A Rated load current

● 30A/40A Rated load current

● 60A Rated load current

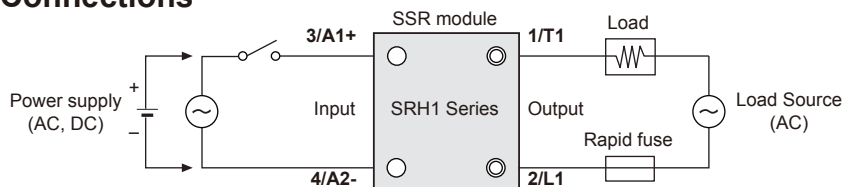
Appearances





Model	Input voltage	Rated load current	Load voltage	Zero cross turn-on/Random turn-on
SRH1-1215	4-30VDC	15A	24-240VAC	Zero cross turn-on
SRH1-2215	24VAC			
SRH1-4215	90-240VAC			
SRH1-1220	4-30VDC	20A		
SRH1-2220	24VAC			
SRH1-4220	90-240VAC			
SRH1-1230	4-30VDC	30A		
SRH1-2230	24VAC			
SRH1-4230	90-240VAC			
SRH1-1240	4-30VDC	40A		
SRH1-2240	24VAC			
SRH1-4240	90-240VAC			
SRH1-1260	4-30VDC	60A		
SRH1-2260	24VAC			
SRH1-4260	90-240VAC			
SRH1-1420	4-30VDC	20A	48-480VAC	Zero cross turn-on
SRH1-1420R	4-30VDC			Random turn-on
SRH1-2420	24VAC			Zero cross turn-on
SRH1-1430	4-30VDC	30A		Zero cross turn-on
SRH1-1430R	4-30VDC			Random turn-on
SRH1-2430	24VAC			Zero cross turn-on
SRH1-1460	4-30VDC	60A		Zero cross turn-on
SRH1-1460R	4-30VDC			Random turn-on
SRH1-2460	24VAC			Zero cross turn-on

Connections



■ Specifications

⊙ Input

4-30VDC input voltage	
Input voltage range	4-32VDC
Max. input current	9mA(Zero cross turn-on), 12mA(Random turn-on)
Pick-up voltage	4VDC
Drop-out voltage	1VDC
Turn-on time	Zero cross turn-on Max. 0.5 cycle of load source + 1ms Random turn-on Max. 1ms
Turn-off time	Max. 0.5 cycle of load source + 1ms
24VAC input voltage	
Input voltage range (50/60Hz)	19-30VACrms
Max. input current	12mArms(24VACrms)
Pick-up voltage	19VACrms
Drop-out voltage	4VACrms
Turn-on time	Max. 1.5 cycle of load source + 1ms
Turn-off time	Max. 1.5 cycle of load source + 1ms
90-240VAC input voltage	
Input voltage range (50/60Hz)	85-264VACrms
Max. input current	7mArms(240VACrms)
Pick-up voltage	85VACrms
Drop-out voltage	10VACrms
Turn-on time	Max. 1.5 cycle of load source + 1ms
Turn-off time	Max. 1.5 cycle of load source + 1ms

⊙ Output

24-240VAC load voltage						
Load voltage range (50/60Hz)		24-264VACrms				
Rated load current Ta=25°C	Resistive load (AC-51)	15Arms	20Arms	30Arms	40Arms	60Arms
Min. load current		0.15Arms	0.2Arms	0.2Arms	0.5Arms	0.5Arms
Max. 1 cycle surge current(60Hz)		190A	270A	330A	500A	1000A
Max. non-repetitivesurge current(I ² t, t=8.3ms)		150A ² S	300A ² S	500A ² S	1000A ² S	4000A ² S
Peak voltage(Non-repetitive)		600V				
Leakage current (240VAC/60Hz, Ta=25°C)		Max. 10mArms				
Output ON voltage drop[Vpk] (Max. load current)		Max. 1.6V				
Static off state dv/dt		500V/μs				
48-480VAC load voltage						
Load voltage range (50/60Hz)		48-528VACrms				
Rated load current Ta=25°C	Resistive load (AC-51)	20Arms		30Arms		60Arms
	Motor load (AC-53a)	5Arms		8Arms		15Arms
Min. load current		0.5Arms		0.5Arms		0.5Arms
Max. 1 cycle surge current(60Hz)		300A		500A		1000A
Max. non-repetitive surge current(I ² t, t=8.3ms)		350A ² S		1000A ² S		4000A ² S
Peak voltage(Non-repetitive)		1200V(Zero cross turn-on), 1000V(Random turn-on)				
Leakage current (480VAC/60Hz, Ta=25°C)		Max. 10mArms				
Output ON voltage drop[Vpk] (Max. load current)		Max. 1.6V				
Static off state dv/dt		500V/μs				

Photo electric sensor

Fiber optic sensor

Door/Area sensor

Proximity sensor

Pressure sensor

Rotary encoder

Connector/Socket

Temp. controller

SSR/Power controller

Counter

Timer

Panel meter

Tacho/Speed/ Pulse meter

Display unit

Sensor controller

Switching mode power supply

Stepper motor& Driver&Controller

Graphic/Logic panel

Field network device

■ Specifications

○ General Specifications

Certification		UL508, CSA22.2 NO. 14 and IEC/EN 60947-4-3
Dielectric strength(Vrms)		400VAC 50/60Hz for 1 min.(Input-Output, I/O-Case)
Insulation resistance		Min. 100MΩ(500VDC megger)
Vibration		10 to 55Hz double amplitude 0.75mm in each X, Y, Z direction for 1 hour
Input LED		Green
Environ-ment	Ambient temperature	-30 to 80℃, storage: -30 to 100℃ (Rated load current capacity is different based on the surrounding temperature.)
	Ambient humidity	45 to 85%RH, storage: 45 to 85%RH
Input terminal connection		Min. 1×0.5mm ² (1XAWG 20) Max. 1×1.5mm ² (1XAWG 16) or 2×1.5mm ² (2XAWG 16)
Output terminal connection		• Case width 22.5mm(M4 terminal bolt): Min. 1×0.75mm ² (1×AWG18) Max. 1×4mm ² (1×AWG12) or 2×2.5mm ² (2×AWG14) • Case width 45mm(M5 terminal bolt): Min. 1×1.5mm ² (1×AWG16) Max. 1×16mm ² (1×AWG6) or 2×6mm ² (2×AWG10) ※Use 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		• Case width 22.5mm(M4 terminal bolt): 15A/20A: 1 to 1.35N·m • Case width 45mm(M5 terminal bolt): 30A/40A/60A: 1.6 to 2.2N·m
Unit weight		• Rated load current(Resistive load) 15A/20A : Approx. 225g • Rated load current(Resistive load) 30A/40A : Approx. 410g • Rated load current(Resistive load) 60A : Approx. 680g

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

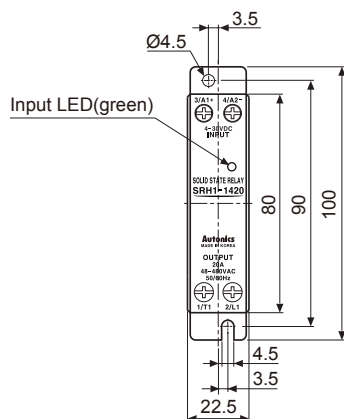
※Environment resistance is rated at no freezing or condensation.

■ Dimensions & Mounting

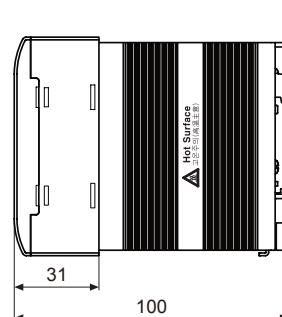
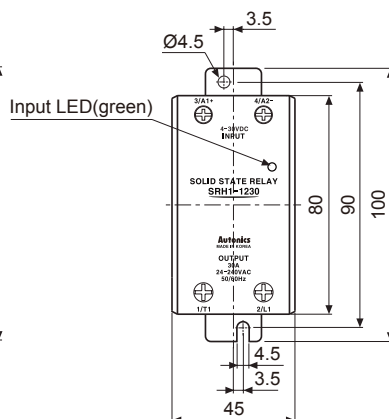
○ Dimensions

(unit: mm)

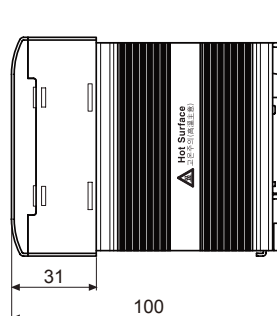
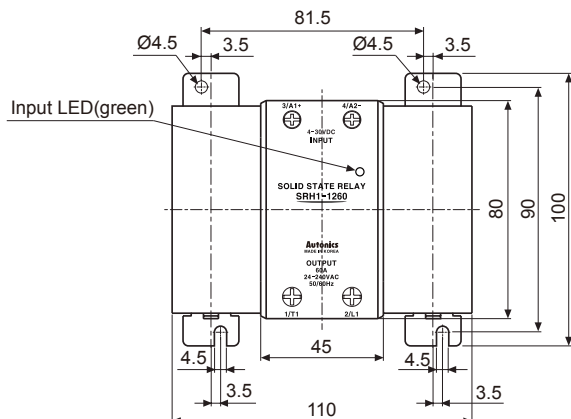
● 15A/20A rated load current



● 30A/40A rated load current

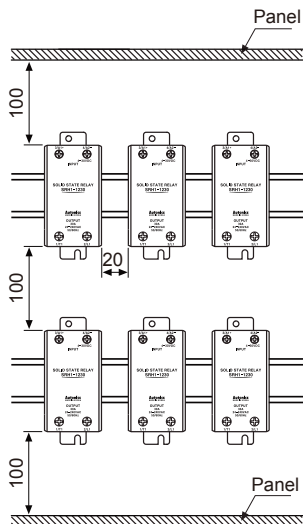


● 60A rated load current



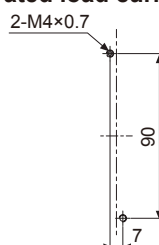
(unit: mm)

○ Installation interval

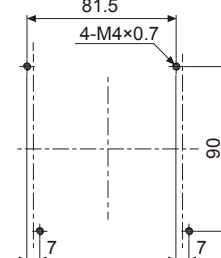


○ Hole cut-out for panel front mounting

● 15A/20A/30A/40A rated load current



● 60A rated load current



※Tightening torque for mounting: 1.8 to 2.5N·m

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.

※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 50% of rated load current.

Single phase, Analog input type SSR [SRPH1 Series]

■ Ordering information

NEW

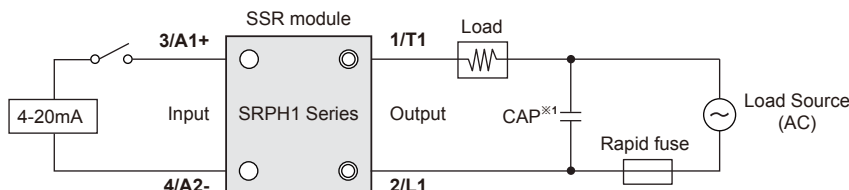
● 20A/30A Rated load current

● 60A Rated load current

Appearances

Model	Rated load current	Load voltage	Model	Rated load current	Load voltage
SRPH1-A220	20A	100-240VAC	SRPH1-A420	20A	100-240VAC
SRPH1-A230	30A		SRPH1-A430	30A	
SRPH1-A260	60A		SRPH1-A460	60A	

■ Connections



※1: As above connection, connect a capacitor. It is proper to EMC.

CAP: Load voltage 100-240VAC → 1uF/250VAC, Load voltage 200-480VAC → 0.47uF/500VAC

Photo electric sensor

Fiber optic sensor

Door/Area sensor

Proximity sensor

Pressure sensor

Rotary encoder

Connector/Socket

Temp. controller

SSR/Power controller

Counter

Timer

Panel meter

Tacho/Speed/ Pulse meter

Display unit

Sensor controller

Switching mode power supply

Stepper motor & Driver&Controller

Graphic/Logic panel

Field network device

■ Specifications

○ Input

4-20mA analog input	
Max. allowable input current	50mA
Pick-up current	4.2mA
Static off current	0.2mA
Power factor	Min. 0.9 (max. 25° of difference between voltage phase and current phase)
Input LED	Green
Start-up time	60Hz: 200ms, 50Hz: 250ms
Operation time	60Hz: 16.6ms, 50Hz: 20ms
Operation mode ^{※1}	Cycle control(fixed cycle, variable cycle) Phase control(phase equality division type, power equality division type)

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

○ Output

100-240VAC load voltage				
Load voltage range(50/60Hz)		90-264VACrms(50/60Hz)		
Rated load current Ta=25°C	Resistive load (AC-51)	20Arms	30Arms	60Arms
Min. load current		0.5Arms		
Max. 1 cycle surge current (60Hz)		300A	500A	1000A
Max. non-repetitive surge current(I ² t, t=8.3ms)		350A ² S	1000A ² S	4000A ² S
Peak voltage(Non-repetitive)		600V		
Leakage current (240VAC/60Hz, Ta=25°C)		Max. 10mArms		
Output ON voltage drop[Vpk] (max. load current)		Max. 1.6V		
Static off state dv/dt		500V/μs		
200-480VAC load voltage				
Load voltage range(50/60Hz)		200-528VACrms		
Rated load current Ta=25°C	Resistive load(AC-51)	20Arms	30Arms	60Arms
	Motor load(AC-53a)	5Arms	8Arms	15Arms
Min. load current		0.5Arms		
Max. 1 cycle surge current(60Hz)		300A	500A	1000A
Max. non-repetitive surge current(I ² t, t=8.3ms)		350A ² S	1000A ² S	4000A ² S
Peak voltage(non-repetitive)		1000V		
Leakage current(480VAC/60Hz, Ta=25°C)		Max. 10mArms		
Output ON voltage drop[Vpk](Max. load current)		Max. 1.6V		
Static off state dv/dt		500V/μs		

○ General Specifications

Certification		UL508, CSA22.2, No.14, IEC/EN 60947-4-3
Phase control (phase equality division type)		5 to 99%
Phase control (power equality division type)		10 to 99%
Frequency reading function		Yes
Dielectric strength(Vrms)		4000VAC 50/60Hz for 1min. (Input-Output, Input/Output-Case)
Insulation resistance		Min. 100MΩ(at 500VDC megger)
Vibration		10 to 55Hz double amplitude 0.75mm in each of X, Y, Z directions for 1 hour
Environ- ment	Ambient temperature	-20 to 70°C, storage : -20 to 100°C (The rated load current capacity is different depending on ambient temperature.)
	Ambient humidity	45 to 85%RH
Input terminal connection		Min. 1×0.5mm ² (1×AWG20) Max. 1×1.5mm ² (1×AWG6) or Max. 2×1.5mm ² (2×AWG16)
Output terminal connection		Min. 1×1.5mm ² (1×AWG16) Max. 1×16mm ² (1×AWG6) or Max. 2×6mm ² (2×AWG10) ※Connect appropriate cable for the load current capacity to output terminal.
Input terminal fixed torque		0.75 to 0.95N·m
Output terminal fixed torque		1.6 to 2.2N·m
Unit weight		• SRPH1-A220, SRPH1-A230, SRPH1-A420, SRPH1-A430 : Approx. 410g • SRPH1-A260, SRPH1-A460 : Approx. 680g

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

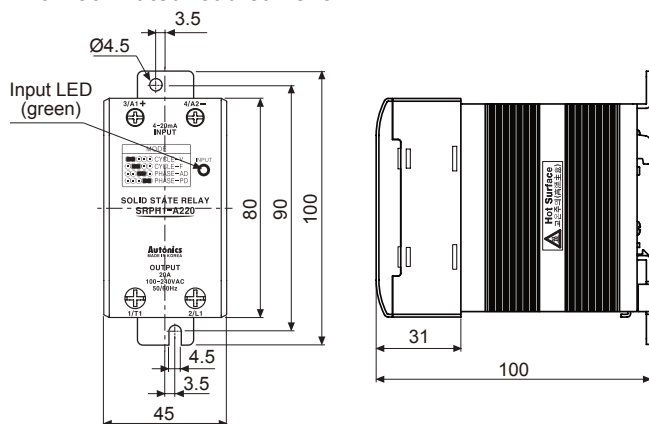
※Environment resistance is rated at no freezing or condensation.

■ Dimensions & Mounting

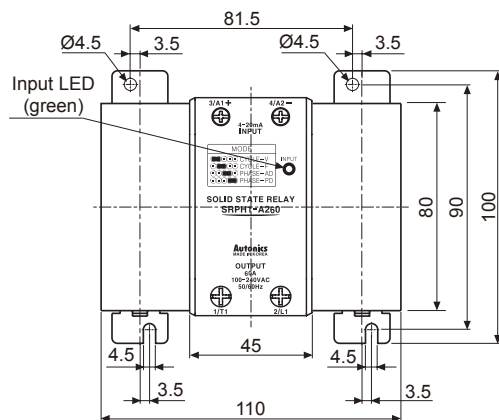
(unit: mm)

○ Dimensions

● 20A/30A rated load current



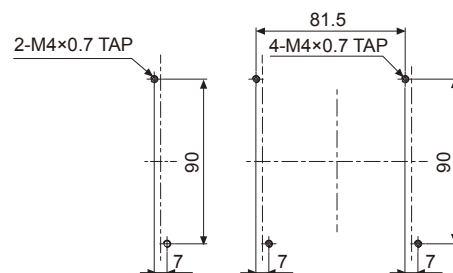
● 60A rated load current



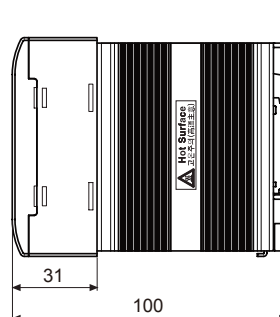
○ Hole cut-out for panel front mounting

● 20A/30A rated load current

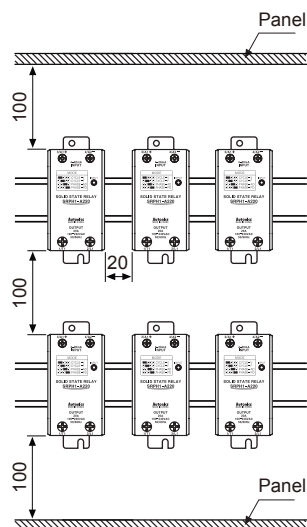
● 60A rated load current



※ Tightening torque for mounting: 1.8 to 2.5N·m



○ Installation interval



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.

※ 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 50% of rated load current.

Photo electric sensor
Fiber optic sensor
Door/Area sensor
Proximity sensor
Pressure sensor
Rotary encoder
Connector/Socket
Temp. controller
SSR/Power controller
Counter
Timer
Panel meter
Tacho/Speed/ Pulse meter
Display unit
Sensor controller
Switching mode power supply
Stepper motor& Driver&Controller
Graphic/Logic panel
Field network device

Single phase, Socket heatsink separated type SSR [SRS1 Series]

Ordering information

NEW




- SRS1-A
(Autonics socket: SK-G05)



- SRS1-B(general socket: LY2)



Appearances

Model	Input voltage	Rated load current	Load voltage	Zero cross turn-on/Random turn-on
SRS1-A ※	4-24VDC	2A	24-240VAC	Zero cross turn-on
		3A		Random turn-on
				Zero cross turn-on
		5A		Random turn-on
		5-100VDC	Zero cross turn-on	
			1A	—
			2A	
		1A	5-200VDC	—
			5-240VAC/5-200VDC	
SRS1-B ※	4-30VDC	2A (consists of 2 circuits)	90-240VAC	Zero cross turn-on
		3A		Random turn-on
				Zero cross turn-on
				Random turn-on
		5A		Zero cross turn-on
				Random turn-on

Specifications

Input

	SRS1-A	SRS1-B
Input voltage range	4-26.4VDC	4-32VDC
Max. input current	15mA	13mA
Pick-up voltage	Min. 4VDC	
Drop-out voltage	Max. 1VDC	

Output(AC)

Model	SRS1-A1202(R)	SRS1-A1203(R)	SRS1-A1205(R)	SRS1-B1202(R)-2	SRS1-B1203(R)-2	SRS1-B1205(R)-1
Load voltage range	24-264VACrms(50/60Hz)			90-240VACrms(50/60Hz)		
Rated load current resistive load	2Arms	3Arms	5Arms	2Arms	3Arms	5Arms
Min. load current	0.15Arms	0.2Arms		0.15Arms		
Max. 1cycle surge current (60Hz)	126A	250A		126A		250A
Max. non-repetitive surge current(I ² t, t=8.3ms)	65A ² S	400A ² S		65A ² S		220A ² S
Peak voltage(Non-repetitive)	600V					
Leakage current(Ta=25°C)	Max. 2mArms					
Output on voltage drop[Vpk] (Max. load current)	Max. 1.6V					
Static off-state dv/dt	500V/μs					
Turn-on time	Zero cross turn-on	0.5 cycle of load source + 1ms				
	Random turn-on	Max. 1ms				
Turn-off time	0.5 cycle of load source + 1ms					

■ Specifications

◎ Output(DC, AC/DC)

Model	SRS1-A1D101	SRS1-A1D102	SRS1-A1D201	SRS1-A1X201
Load voltage range	3-120VDC		3-220VDC	3-264VAC 50/60Hz 3-220VDC
Rated load current resistive load	1Adc	2Adc	1Adc	1Arms/1Adc
Min. load current	10mA			
Max. surge current ($\leq 10\text{ms}$)	5A	10A	4A	
Leakage current	Max. 100uA			Max. 2mArms
Output on voltage drop[Vpk] (Max. load current)	Max. 1.1V			Max. 2.2V
Static off-state dv/dt	500V/ μs			
Turn-on time	1ms	2ms	1ms	2ms
Turn-off time	1ms			

◎ General Specifications

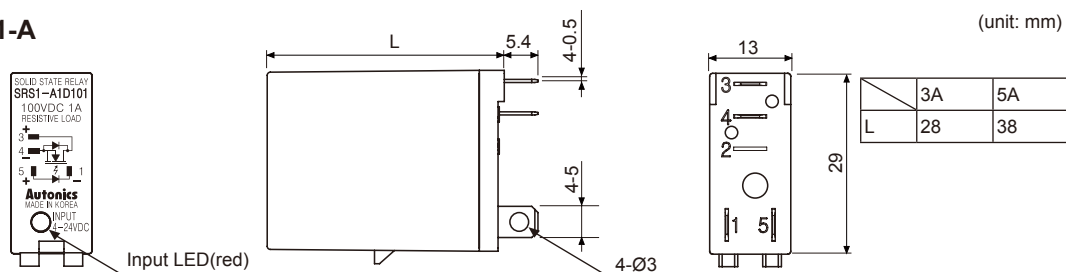
	SRS1-A	SRS1-B
Dielectric strength(Vrms)	2,500VAC 50/60Hz 1min.(Input-Output, Input/Output-Case)	
Insulation resistance	Min. 100MQ(at 500VDC Megger)	
Input LED	Red	
Protection	According to protection of socket (SK-G05: IP10)	
Environ- -ment	Ambient temperature	-20 to 70°C, storage: -30 to 100°C
	Ambient humidity	45 to 85%RH, storage: 45 to 85%RH
Unit weight	3A and below: Approx. 17g(approx. 270g), 5A: Approx. 28g (approx. 380g)	Approx. 30g (approx. 710g)

※1: The weight is per 1 unit and the weight in parentheses is with packaging .
(packaging unit- SRS1-A: 10EA, SRS1-B: 20EA)

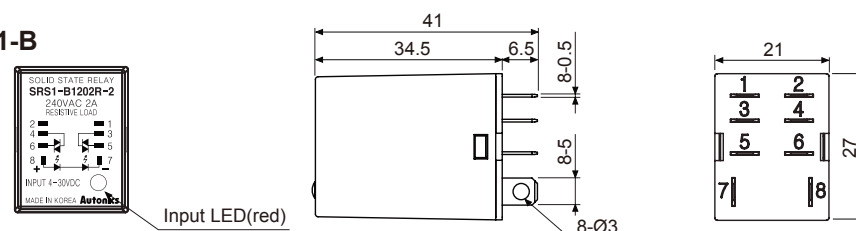
※Environment resistance is rated at no freezing or condensation.

■ Dimensions

◎ SRS1-A



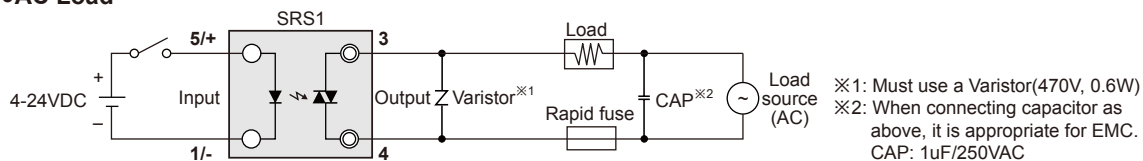
◎ SRS1-B



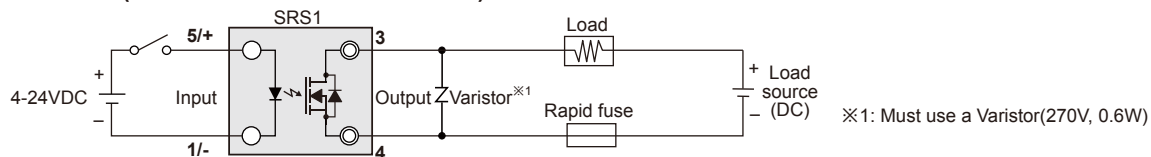
■ Example of connection

◎ SRS1-A

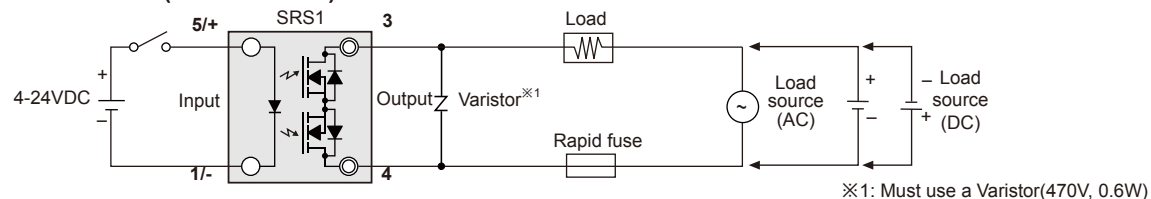
● AC Load



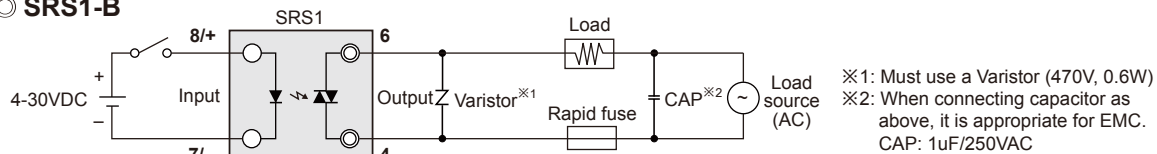
● DC Load(SRS1-A1D101/A1D102/A1D201)



● AC/DC Load(SRS1-A1X201)



◎ SRS1-B

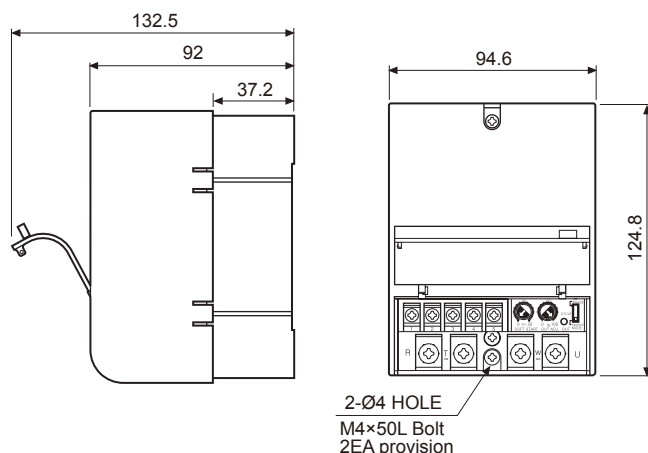


Single phase, Power Controller [SPC1 Series]

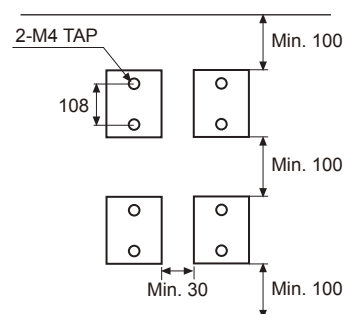
Specifications

		
Appearances		
Model	SPC1-35	SPC1-50
Power supply	220VAC 50/60Hz	
Allowable voltage range	90 to 110% of rated voltage	
Maximum rated current	35A(single phase)	50A(single phase)
Control power	220VAC	
Control range	Phase control: 0 to 98%, Cycle control: 0 to 100%	
Application load	Resistance load(min. load : over 5% of rated current)	
Cooling method	Natural cooling	
Control circuit	Micom control type	
Control input	• 1-5VDC • DC4-20mA(250Ω) • ON/OFF(external relay contact or 24VDC) • External VR(1kΩ) • Output limit input(front OUT ADJ. VR)	
Control type	By selection S/W	• Phase control ^{※1} • Cycle control(zero cross)-Period 0.5sec., 2.0sec., 10sec. ^{※1} • ON/OFF control(zero cross)
Starting type	Soft start(0 to 50 sec. variable)	
Display function	Output indication(LED)	
Insulation resistance	100MΩ(at 500VDC megger)	
Dielectric strength	2000VAC 50/60Hz for 1minute	
Noise strength	±2kV the square wave noise (pulse width: 1us) by the noise simulator	
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each of X, Y, Z directions for 1 hour
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min.) in each of X, Y, Z directions for 10 min.
Shock	Mechanical	300m/s ² (approx. 30G) in each of X, Y, Z directions for 3 times
	Malfunction	100m/s ² (approx. 10G) in each of X, Y, Z directions for 3 times
Environ-ment	Ambient temperature	0 to 50°C, storage: -25 to 65°C
	Ambient humidity	35 to 85%RH
Unit weight	Approx. 1kg	

Dimensions



Panel lay-out

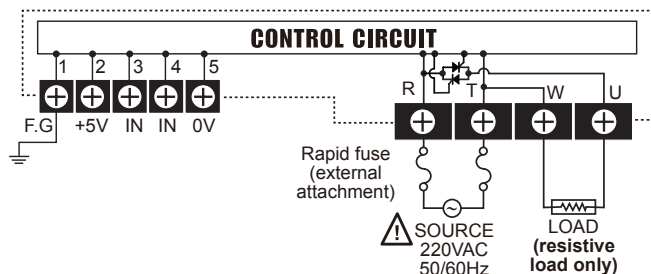


※It should have enough space between units for proper cooling.

Photo electric sensor
Fiber optic sensor
Door/Area sensor
Proximity sensor
Pressure sensor
Rotary encoder
Connector/Socket
Temp. controller
SSR/Power controller
Counter
Timer
Panel meter
Tacho/Speed/ Pulse meter
Display unit
Sensor controller
Switching mode power supply
Stepper motor& Driver&Controller
Graphic/Logic panel
Field network device

■ Connections

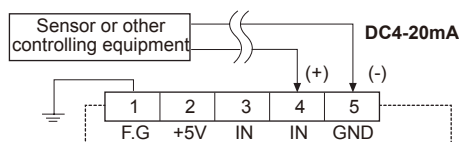
1. External connection



2. Connection of control input terminals

1) DC4-20mA control input

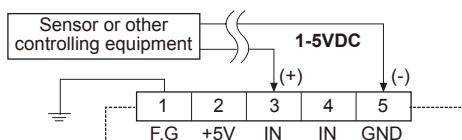
It controls 0 to 100% when you apply DC4-20mA on ④, ⑤ terminals when power is applied.



※It is not available in ON/OFF control mode.

2) 1-5VDC control input

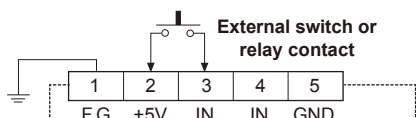
It controls 0 to 100% when you apply 1-5VDC on ③, ⑤ terminals when power is applied.



※It is not available in ON/OFF control mode.

3) ON/OFF External contact control input

It controls 100% if you connect external switch or relay contact to ②, ③ terminal when it is ON, it controls 0% when it is OFF.



※It is available in all control modes.
OUT ADJ. and SOFT START function are not available in ON/OFF control mode.