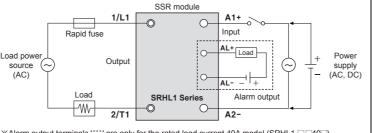


	Alarm	■ Spe ○ Input	cificati	ons					
unction	(overheat prevention)			10-30VDC			90-240VACrms \sim	(50/60Hz)	
	Alarm indicator	Allowable	input voltage	9-32VDC=			85-264VACrms \sim	(50/60Hz)	
		Max. inpu	it current	15mA			22mA		
	Alarm indicator	Pick-up v	Pick-up voltage		Min. 9VDC==		Min. 85VACrms~		
		Drop-out	Drop-out voltage		Max. 1VDC		Max. 10VACrms~		
o cross turn-on	Alarm indicator	Turn-ON	Zero cross turn-on Random turn-on	Max. 0.5 cycle of load source + 1ms Max. 2 cycle of load source - Max. 1ms		ad source + 1ms			
	Alarm indicator	time							
	Alarm indicator		Turn-off time		Max. 0.5 cycle of load source + 1ms Max. 2 cycle of load source + 1ms				
	+Alarm output	O Output		24-240VACrm	s~ (50/60Hz)				
o cross turn-on idom turn-on	Alarm indicator	Allowable		24-240VACrms~ (50/60Hz)					
ro cross turn-on		voltage ra		24-264VACrm	s~ (50/60HZ)				
ro cross turn-on			Rated load Resistive load current (AC-51) ^{×1}		10Arms 15Arms 20Arms		s 25Arms 40Arms		
dom turn-on	Alarm indicator	Min. load	. ,	0.15Arms	0.15Arms	0.2Arm	is 0.2Arms	0.5Arms	
o cross turn-on		Max. 1 cy		160A	160A	250A	250A	400A	
cross turn-on		current (6	,			2004	230A	-100/1	
dom turn-on	Alarm indicator	Max. non-re current (I ² t,	epetitive surge t=8.3ms)	130A ² s	130A ² s	300A ² s	300A ² s	910A ² s	
cross turn-on		Peak volt	,	6001/	1		I	I	
cross turn-on Iom turn-on	Alarm indicator	(non-repe	titive)	600V					
cross turn-on		· ·	· · · ·		Max. 10mArms (240VAC~/60Hz)				
cross turn-on	+		voltage drop load current)	Max. 1.6V					
om turn-on	Alarm indicator		state dv/dt	500V/µs					
cross turn-on	+Alarm output	Rated loa							
]	range	-	48-480VACrm	s~ (50/60Hz)				
	Allowable voltage ra	inge	48-528VACrms~ (50/60Hz)						
<u>A1+</u>		Rated load current	Resistive load (AC-51) ^{×1}	10Arms	15Arms	20Arms	s 25Arms	40Arms	
nput		Min. load	· /	0.5Arms	0.5Arms	0.5Arm	is 0.5Arms	0.5Arms	
,		Max. 1 cy							
L+ Load	+ Power	current (6	0Hz)	300A	300A	500A	500A	500A	
	$(\sim) \frac{1}{\tau}$ supply		epetitive surge	350A ² s	350A ² s	1000A ²	s 1000A ² s	1000A ² s	
L +	- (AC, DC)	current (l ² t, Peak volt			1			1	
Alarm outp	ut	(non-repe		1200V (Zero c	ross turn-on), 10	000V (Ra	ndom turn-on)		
A2-			.eakage current (Ta=25°C) Max. 10mArms (480VAC~/60Hz)						
42-			Output on voltage drop Nokl (max. locd aurorat) Max. 1.6V						
40A model (S	SRHL1- 40).		[Vpk] (max. load current) Instant root Static off state dv/dt 500V/µs						
				n category at IE	C60947-4-3.				
, 20A, 25A	40A	O Alarm o	output (Ove	rheat prevention					
nm	Min. 5.0mm		<u> </u>	10-30VDC=			90-240VACrms~	(50/60Hz)	
			•	Max. 30VDC=			Max. 30VDC==		
nm	Max. 12.0mm	Load curr Turn-off ti		Max. 50mA Max. 50ms			Max. 50mA Max. 100ms		
					n SSR internal to	emperatu	ire is overheated, th	ne load output is c	
ting	(unit: mm)	off to pr	event interna	I device damag	je. The alarm in	dicator tu	Irns ON and alarm		
nent							RHL1-□ □40□). SRHL1-□ □10□/□		
		□ □25□), the alarm	indicator turns	ON, regardless	of alarm	output.		
411-		*To clear tempera		F the input si	gnal during over	r alarm ou	utput return time at	the rated ambient	
	IT		l specificati	ons					
11///		Dielectric	Dielectric strength		Input-output: 2500VAC 50/60Hz for 1 min				
	(Vrms)	· ,		Input/output-case: 4000VAC 50/60Hz for 1 min Over 100MO (at 500V/DC measer) (input output input/output case)					
////	///	Insulation			Over 100MΩ (at 500VDC megger) (input-output, input/output-case) Input indicator: green LED, alarm indicator: red LED				
////			Machani	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z					
\square		Vibration	Mechanical	direction for 1	direction for 1 hour				
4	35mm		Malfunction		0.5mm amplitude at frequency of 10 to 55Hz (for lirection for 10 min			for 1 min) in each X, Y, Z	
be grounded		Mechanical			n X, Y. Z a	direction for 3 times	;		
se groundet		Shock			,		direction for 3 times		
ent			Ambient	-30 to 70°C, st	orage: -30 to 10	0°C			
1		Environ-	temperature		l current capacit R Derating Curv		ent depending on a	mpient temperature	
		ment	Ambient						
II I I I I			humidity	40 IU 85%KH,	storage: 45 to 8	oj‰KH			
		I Innuttorn			Min. 1×0.5mm ² (1×AWG20), max. 1×4mm ² (1×AWG12) or 2×1.5mm ² (2×AWG16)				
		connectio	put terminal		-				
		connectio							
		connectio alarm out connectio	'n	Rated load c	urrent 10A/15A/ m ² (1×AWG18) r			x2 5mm ² /2x Δ\//C1	
	35mm	Connection alarm out connection Output te	m rminal	Rated load ci Min. 1×0.75m Rated load ci	m ² (1×AWG18), r urrent 40A:	max. 1×6n	nm ² (1×AWG10) or 2		
36		connectio alarm out connectio	m rminal	 Rated load ci Min. 1×0.75m Rated load ci Min. 1×1.5mm 	m² (1×AWG18), r urrent 40A: n² (1×AWG16), m	max. 1×6n nax. 1×16	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2	×6mm ² (2×AWG10)	
	35mm DIN rail	Connection alarm out connection Output te connection	rminal n	Rated load cr Min. 1×0.75m Rated load cr Min. 1×1.5mn XUse wires cr	m ² (1×AWG18), r urrent 40A: n ² (1×AWG16), rr ompliant with loa	max. 1×6n nax. 1×16	nm ² (1×AWG10) or 2	×6mm ² (2×AWG10)	
	35mm DIN rail	Connection alarm out connection Output te connection	rminal m al fixed torque	Rated load ct Min. 1×0.75m Rated load ct Min. 1×1.5mn XUse wires ct 0.75 to 0.95N-	m² (1×AWG18), r urrent 40A: n² (1×AWG16), m ompliant with loa m	max. 1×6n nax. 1×16 ad curren	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2 t capacity to conne	×6mm ² (2×AWG10)	
(-) drive	er	Connection alarm out connection Output te connection	rminal n nal fixed torque rminal	Rated load ct Min. 1×0.75m Rated load ct Min. 1×1.5mn Wuse wires ct 0.75 to 0.95N Rated load ct Rated load ct	m² (1×AWG18), r urrent 40A: n² (1×AWG16), m ompliant with loa m	max. 1×6n nax. 1×16i ad curren 20A/25A:	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2 t capacity to connect 1.0 to 1.35N·m	×6mm ² (2×AWG10)	
• (-) drive	er	Connectionalarm out connection Output te connection Input termin Output te	rminal n nal fixed torque rminal	 Rated load ct Min. 1×0.75m Rated load ct Min. 1×1.5mn %Use wires ct 0.75 to 0.95N Rated load ct Rated load ct C € c Nus 	m ² (1×AWG18), r urrent 40A: n ² (1×AWG16), r ompliant with loa m urrent 10A/15A/ urrent 40A: 1.6 t	max. 1×6n nax. 1×16 ad curren 20A/25A: to 2.2N·m	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2 t capacity to conner 1.0 to 1.35N·m	×6mm ² (2×AWG10) ct to the terminal.	
h Temperatu	er UIN rail UIN rail	Connectionalarm out connection Output te connection Input termin Output te fixed torq	rminal n nal fixed torque rminal	Rated load ci Min. 1×0.75m Rated load ci Min. 1×1.5mn WUse wires ci 0.75 to 0.95N Rated load ci Rated load ci Rated load ci	m ² (1×AWG18), r urrent 40A: r ² (1×AWG16), m ompliant with loa m urrent 10A/15A/ urrent 40A: 1.6 t urrent 10A/15A/	max. 1×6n nax. 1×16 ad curren 20A/25A: to 2.2N·m 20A/25A:	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2 t capacity to connect 1.0 to 1.35N·m h	×6mm ² (2×AWG10) ct to the terminal.	
gh Temperatu pplying power hing off the pow h the body and	ar ar ar ar ar ar ar ar ar ar	Connection alarm out connection Output te connection Input termin Output te fixed torq Approval Weight ^{×1}	n rminal n lal fixed torque rminal ue	Rated load c Min. 1×0.75m Rated load c Min. 1×1.5mn %Use wires c 0.75 to 0.95N Rated load c Rated load c Rated load c Rated load c	m ² (1×AWG18), r urrent 40A: n ² (1×AWG16), m ompliant with loa m urrent 10A/15A/ urrent 40A: 1.6 f urrent 10A/15A/ urrent 40A: Appl	max. 1×6n nax. 1×16 ad curren 20A/25A: to 2.2N·m 20A/25A: rox. 468g	nm ² (1×AWG10) or 2 mm ² (1×AWG6) or 2 t capacity to conner 1.0 to 1.35N·m	×6mm ² (2×AWG10) ct to the terminal.	



Rated load

24-240VAC

48-480VAC

voltage

10A

15A

204

-25A

40A

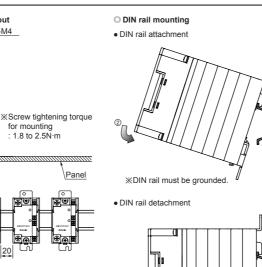
10A

154

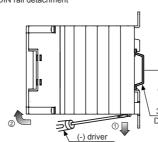
25A

*Alarm output terminals : are only for the rated load current 40A model (SRHL1- 40 XUse terminals of size specified below

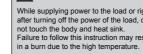
	Terminal type		Input, alarm output	Output			
	Rated load current		10A, 15A, 20A, 25A, 40A	10A, 15A, 20A, 25A	40A		
		а	Min. 3.5mm	Min. 4.0mm	Min. 5.0mm		
	<round></round>	b	Max. 7.0mm	Max. 9.0mm	Max. 12.0mm		

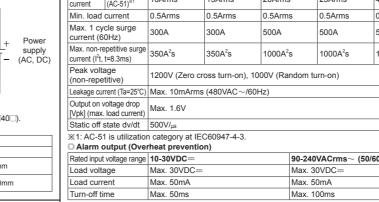


Panel

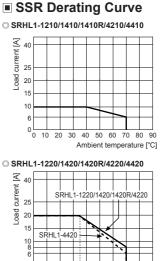


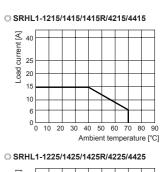


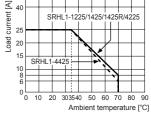




%For wiring the terminal, round terminal must be used.



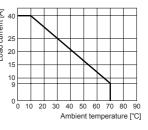




© SRHL1-1240/1440/1440R/4240/4440

10 20 303540 50 60 70 80

Ambient temperature [°C



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

*Above SSR derating curves obtained approval from the UL certification authority.

Cautions during Use

1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents. 2, 10-30VDC 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')

SSRs/Power Controllers

Tachometers/Pulse(Rate) Meter

Counters

Panel Meters

Display Units

Sensor Controlle

Timers

2 Altitude max. 2,000m

3 Pollution degree 2

④ Installation category III

Major Products

- ctric Sensors Temperature Controllers Fiber Optic Sensors Temperature/Humidity Transducers
- Door Sensors
- Door Side Sensors
- Area Sensors
- Proximity Sensors
- Pressure Sensors
- Rotary Encoders
- Connectors/Sockets
- Switching Mode Power Supplies
- Control Switches/Lamps/Buzzers
- I/O Terminal Blocks & Cables
- Stepper Motors/Drivers/Motion Controller
- Graphic/Logic Panels Field Network Devices
- Laser Marking System(Fiber, Co₂, Nd:YAG) Laser Welding/Cutting System

Autonics Corporation

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