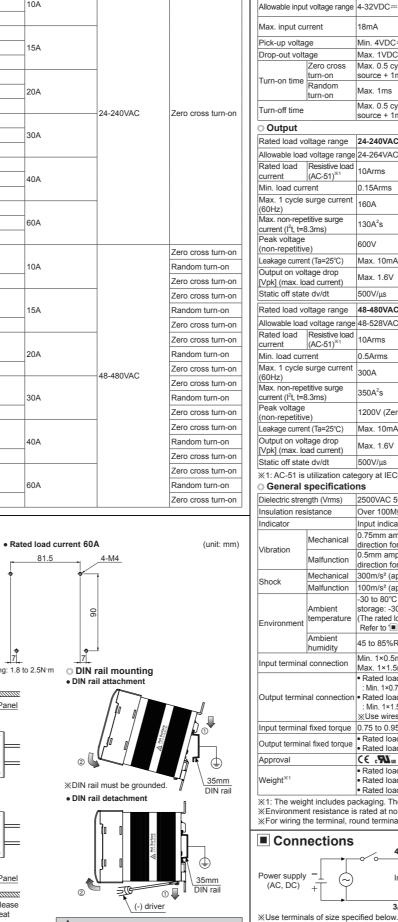


Model Model Rated input voltage Rated load current Rated load voltage Function SRH1-1210-N 4-30VDC SRH1-2210-N 24VAC 10A SRH1-4210-N 90-240VAC SRH1-1215-N 4-30VDC SRH1-2215-N 24VAC 15A SRH1-4215-N 90-240VAC SRH1-1220-N 4-30VDC SRH1-2220-N 24VAC 20A SRH1-4220-N 90-240VAC 24-240VAC SRH1-1230-N 4-30VDC SRH1-2230-N 24VAC 304 SRH1-4230-N 90-240VAC SRH1-1240-N 4-30VDC SRH1-2240-N 24VAC 404 SRH1-4240-N 90-240VAC SRH1-1260-N 4-30VDC SRH1-2260-N 24VAC 60A SRH1-4260-N 90-240VAC SRH1-1410-N -30VDC SRH1-1410R-N 10A SRH1-2410-N 24VAC SRH1-1415-N 4-30VDC SRH1-1415R-N 15**Δ** Random turn-on SRH1-2415-N 24VAC SRH1-1420-N -30VDC SRH1-1420R-N 20A SRH1-2420-N 24VAC 48-480VAC SRH1-1430-N -30VDC SRH1-1430R-N 30A SRH1-2430-N 24VAC SRH1-1440-N 4-30VDC SRH1-1440R-N 404 Random turn-on 24VAC SRH1-2440-N SRH1-1460-N 4-30VDC SRH1-1460R-N 60A Random turn-on SRH1-2460-N 24VAC O Panel cut-out

81.5

\Panel



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

Terminal type

Rated load current

<Round>

Input

Min. 3.5mm

Max. 7.0mm

10A, 15A, 20A, 30A, 40A, 60A

Output

10A. 15A. 20A

Min. 4.0mm

Max. 9.0mm

-	ification	IS					
⊃ Input				24VACrm	s~	90-240VA	Crms \sim
Rated input voltage range		4-30VDC=		(50/60Hz)		(50/60Hz)	
Allowable input voltage range		4-32VDC==		19-30VACrms~ (50/60Hz)		85-264VACrms~ (50/60Hz)	
Max. input current		18mA		15mArms		18mArms	
Pick-up voltage		Min. 4VDC==		(24VACrms~) Min. 19VACrms~		(240VACrms~) Min. 85VACrms~	
Drop-out voltage		Max. 1VDC==		Max. 4VACrms~		Max. 10VACrms~	
Turn-on time	Zero cross turn-on	Max. 0.5 cycle of load source + 1ms			Max. 2 cycle of load source + 1ms		cle of load ms
	Random	Max. 1ms		300100 1	_		1110
turn-on		Max. 0.5 cycle of load		Max. 2 cycle of load		Max. 2 cycle of load	
Turn-off time		source + 1n			source + 1ms source + 1ms		
Output							
Rated load voltage range		24-240VACrms~ (50/60Hz)					
Allowable load voltage range Rated load Resistive load				T .	_	1	
urrent	(AC-51) ^{**1}	10Arms	15Arms	20Arms	30Arms	40Arms	60Arms
/lin. load curr		0.15Arms	0.15Arms	0.2Arms	0.5Arms	0.5Arms	0.5Arms
Max. 1 cycle surge current 60Hz)		160A	160A	250A	400A	500A	1000A
fax. non-repetitive surge		130A ² s	130A ² s	300A ² s	910A ² s	1000A ² s	4000A ² s
urrent (l ² t, t=8.3ms) Peak voltage				000,10	0.0710		
non-repetitive)		600V					
Leakage current (Ta=25°C)		Max. 10mArms (240VAC~/60Hz)					
Output on voltage drop Vpk] (max. load current)		Max. 1.6V					
Static off state dv/dt		500V/µs					
Rated load voltage range		48-480VACrms~ (50/60Hz)					
	l voltage range	48-528VAC	$rms \sim (50/6$	0Hz)		_	
Rated load	Resistive load (AC-51) ^{×1}	10Arms	15Arms	20Arms	30Arms	40Arms	60Arms
urrent /lin. load curi	N /	0.5Arms	0.5Arms	0.5Arms	0.5Arms	0.5Arms	0.5Arms
Max. 1 cycle surge current		300A	300A	300A	500A	500A	1000A
60Hz) Max. non-repetitive surge							
current (I ² t, 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 current (Ta=25°C)		Max. 10mArms (480VAC~/60Hz)					
Output on voltage drop		Max. 1.6V					
[Vpk] (max. load current) Static off state dv/dt		500V/µs					
	utilization cate		60947-4-3				
	specificatio	• •					
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)					
nuicator		Input indicator: green LED 0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z					
Vibration	Mechanical	direction for 1 hour 0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z					
	Malfunction	0.5mm amp direction for		quency of 1	บ เข ๖๖Hz (fo	r 1 min) in ea	асп х, Ү, Д
Shock	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times					
	Malfunction		. ,		r, Z direction		00 to 7000
	Ambient	-30 to 80°C (in case of the rated input voltage 90-240VAC~: -20 to 70°C), storage: -30 to 100°C					
Environment	temperature	(The rated load current capacity is different depending on ambient temperature.					
	Ambient	Refer to ' SSR Derating Curve'.)					
	humidity	45 to 85%RH, storage: 45 to 85%RH					
Output terminal connection		Min. 1×0.5mm ² (1×AWG20), Max. 1×1.5mm ² (1×AWG16) or 2×1.5mm ² (2×AWG16)					
		Rated load current 10A/15A/20A					
		: Min. 1×0.75mm ² (1×AWG18), max. 1×4mm ² (1×AWG12) or 2×2.5mm ² (2×AWG14) • Rated load current 30A/40A/60A					
		: 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. 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					
pproval		 C € ε Ν us Rated load current 10A/15A/20A: approx. 298g (approx. 225g) 					
Veight ^{×1}		Rated load current 30A/40A: approx. 500g (approx. 410g) Rated load current 60A: approx. 770g (approx. 680g)					
1. The weig	ht includes pa						
Environmer	nt resistance is	s rated at no	freezing or	condensatio		у.	
<pre>%For wiring t</pre>	he terminal, ro	ound termina	I must be us	sed.			
Conn	ections		SSR	Module	1.0	ad	
		4	/A2-	O	2/L1		
Ower supply		-					Load
Power supply (AC, DC)	_+ [⊥] ⇔	Ir	nput SRH	1 series	Output	\bigcirc	ower source (AC)
2	'L_		0	0		d fuse	(10)
(I lse termin	als of size sne		/A1+	9	1/T1		

30A. 40A. 60A

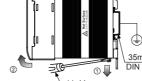
Min. 5.0mm

Max. 12.0mm

load current %The above specifications are subject to change and some models may be discontinued without notice. %Be sure to follow cautions written in the instruction manual and the technical descriptions (catalog, homepage)

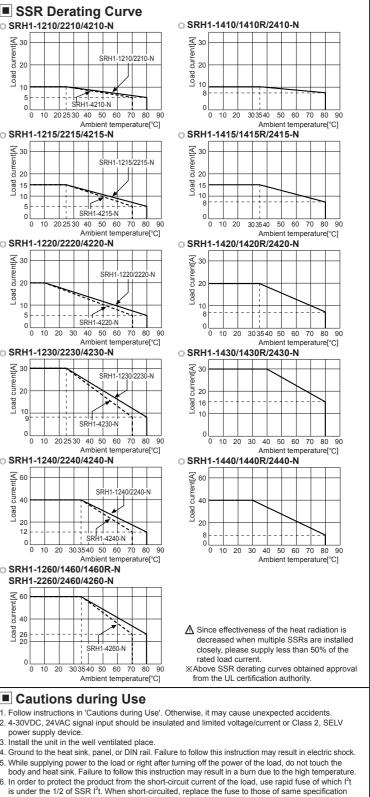
2-M4

DIN rail detachment



High Temperature Caution

the high temperature.



with the used rapid fuse. . 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.

When using random turn-on model for phase control, install noise filter between the load and the power of the load. Do not use near the equipment which generates strong magnetic force or high frequency noise.

④ Installation category III

10. This unit may be used in the following environments Indoors (in the environment condition rated in 'Specifications')

② Altitude max. 2,000m ③ Pollution degree 2

Major Products

Temp Photoelectric Sensors Fiber Optic Sensors Door Sensors Door Side Sensors Area Sensors Proximity Sensors Rs/Power Controller Counters Timers Panel Meters Autonics Corporation Pressure Sensors Tachometers/Pulse (Rate) Meters Rotary Encoders Display Units Sensor Controllers Connectors/Sockets Switching Mode Powe HEADQUARTERS 18, Bansong-ro 513bec South Korea, 48002 TEL: 82-51-519-3232 indae-gu, Busar I/O Terminal Blocks & Cables Stepper Motors/Drivers/Motio c/Logic Pa Field Network Devices Laser Marking System (Fiber, Co₂, Nd:YAG) Laser Welding/Cutting System E-mail: sales@autonics.com DRW160914AC