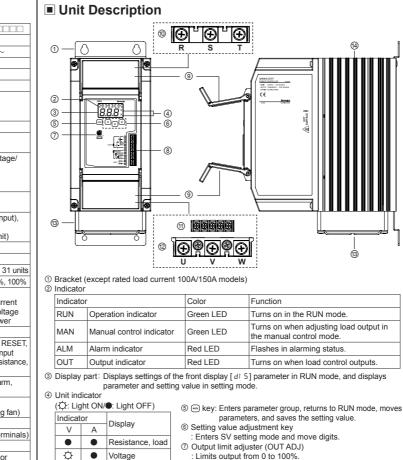


%Be sure to follow cautions written in the instruction manual, user manual, and the technical descriptions (catalog, homepage).

Model		SPR3-1	SPR3-2	SPR3-3	SPR3-4	
Control phase		3-phase				
Rated load	voltage (50/60Hz)	110VAC~	$220VAC\sim$	380VAC~	$440VAC\sim$	
Power supply		100-240VAC~ 50/60Hz				
Min. load current		1A				
Permissible voltage range		90 to 110% of rated voltage				
Power consumption		Rated load current 25A/35A/50A: max. 14VA Rated load current 70A: max. 22VA Rated load current 100A/150A: max. 32VA				
Display method		3-digit 7-segment LED				
Indicator		Operation indicator/Manual control indicator: green LED Alarm indicator/output indicator/unit (V, A) indicator: red LED				
Control method		Phase control: normal control mode, constant current/constant voltage/ constant power feedback control mode Cycle control: fixed cycle control mode ON/OFF control				
Applied load		Phase control, ON/OFF control: resistance load, inductive load Cycle control: resistance load				
Control input		Auto control: DC4-20mA, 1-5VDC=, ON/OFF contact (no-voltage input), pulse voltage (5-12VDC=) Manual control: outside adjuster (10kΩ), inside adjuster (output limit)				
Digital inp			ning, AUTO/MAN sv	Ų.		
Output	Alarm	250VAC~ 3A, 30VDC= 3A, 1c resistive load				
	1	RS485 communication output (Modbus RTU method), max. connection: 31 units				
Output rar	nge	Phase control: 0 to 98% Cycle control: 0 to 100% ON/OFF control: 0%, 100%				
Output accuracy		 Normal control: within ±10% F.S. of rated load voltage Constant current feedback control: within ±3% F.S. of rated load current Constant voltage feedback control: within ±3% F.S. of rated load voltage Constant power feedback control: within ±3% F.S. of rated load power 				
Set method		By front keys, by communication				
Functions		Output limit (OUT ADJ), AUTO/MAN selection, control method selection, RESET SOFT START, SOFT UP/DOWN, output high/low limit, input correction, input slope correction, monitoring (control input, load voltage/current/power/resistance power supply frequency, heatsink temperature)				
	Alarm	Overcurrent alarm, overvoltage alarm, fuse break alarm, SCR error alarm, heater break alarm, heatsink overheat alarm				
Cooling method		Rated load current 25A/35A/50A: natural cooling Rated load current 70A/100A/150A: forced air cooling (with the cooling fan)				
Insulation	resistance	Over 200MΩ (at 500VDC megger)				
Dielectric strength		2,000VAC 50/60Hz for 1 min (between input terminals and power terminals)				
Output leakage current		Max. 10mArms				
Noise immunity		$\pm 2kV$ the square wave noise (pulse width: 1µs) by the noise simulator				
Memory retention		Approx. 10 years (when using non-volatile semiconductor memory type)				
Vibration	Mechanical		at frequency of 5 to 8			
	Malfunction	0.5mm amplitude at frequency of 5 to 55Hz in each X, Y, Z direction for 10			direction for 10 min	
Environ	Ambient temp.	-10 to 55°C, stora				
ment	Ambient humi.		rage: 35 to 85%RH			
Accessory		11-pin connector, insulating barrier: 4				
Approval		CE				
Weight ^{ж1}		Rated load current 25A/35A/50A: approx. 4.9kg (approx. 4.1kg) Rated load current 70A: approx. 5kg (approx. 4.2kg) Rated load current 100A/150A: approx. 9.7kg (approx. 8.7kg)				



⑧ 11-pin connector termina

1 R, S, T load input terminals

AWG 13 to 4

AWG 4 to 2/0

③ Terminal cover

③ Cooling fan: For models with the rated load current of 70A/100A/150A, a cooling fan is attached.

25A, 35A, 50A

100A, 150A

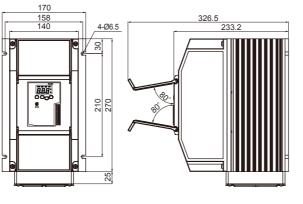
70A

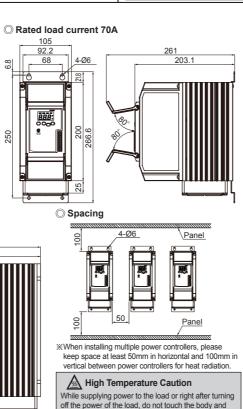
Alarm output/power input Load input/output

(B) Heatsink: In case of rated load current 100A/150A models, there are mounting holes on the right/left

Rated load current 25A/35A/50A 92.2 68 4-Ø6 Rated load current 100A/150A

Dimensions





Current

2 U. V. W load output terminals

1 Alarm output and power input terminals

Wire Specification by Load Current

Wire specification

AWG 18 to 14

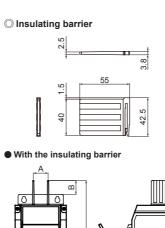
☆ ☆ Power

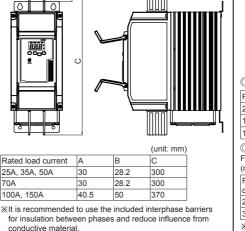
Rated load current

25A/35A/50A/70A

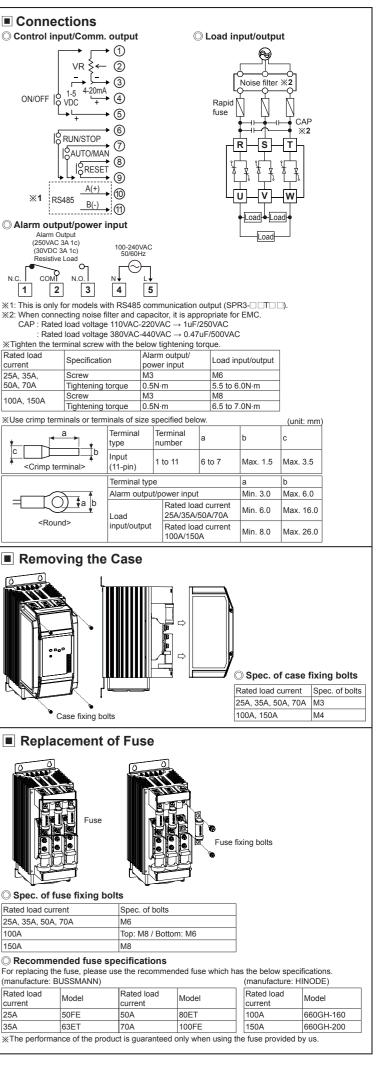
100A/150A

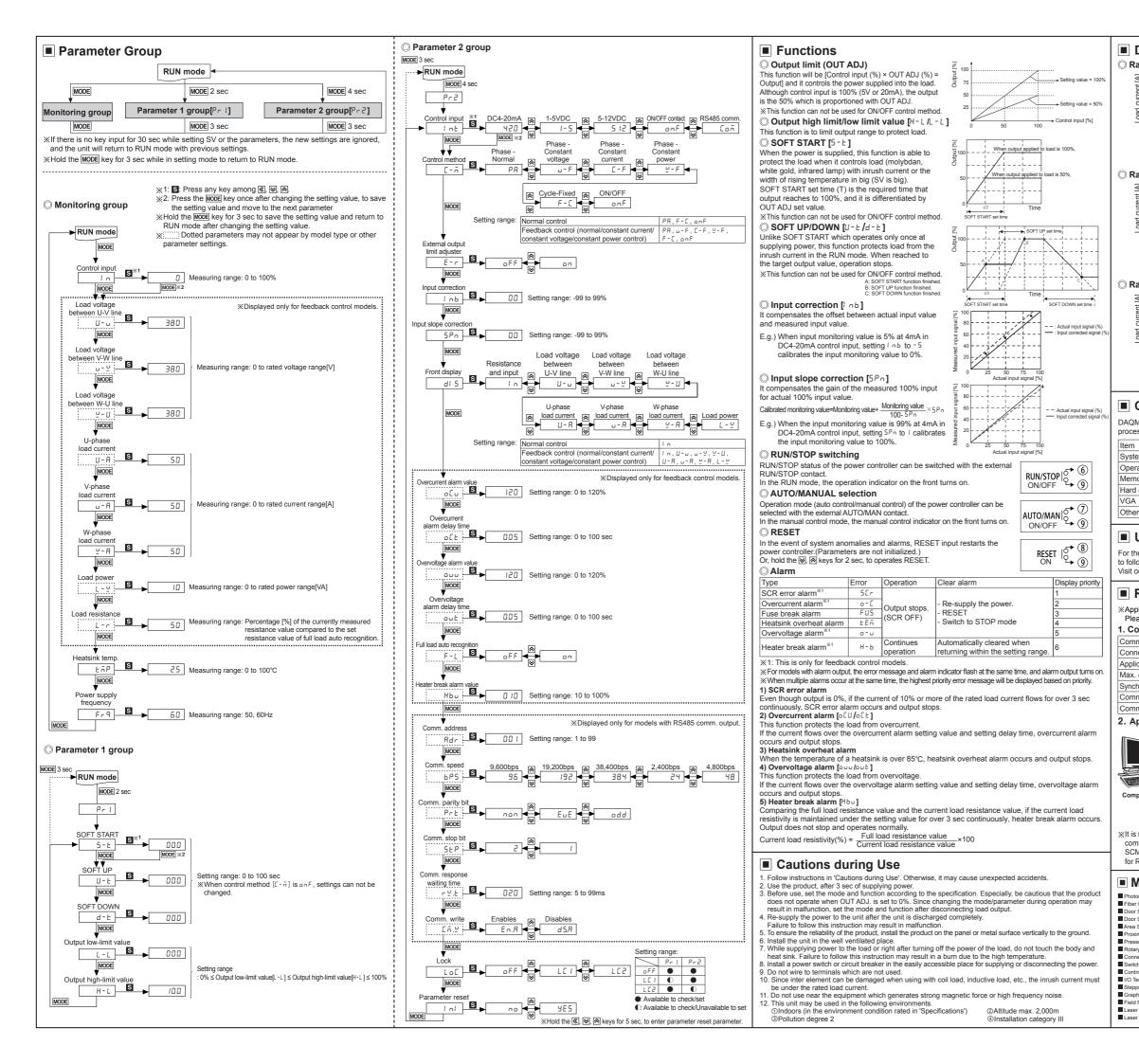
off the power of the load, do not touch the body and heatsink. Failure to follow this instruction may result in a burn due to the high temperature

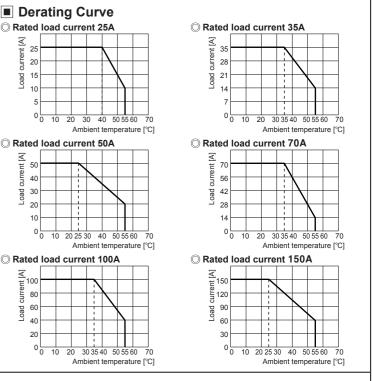




(unit: mm)







Comprehensive Device Management Program [DAQMaster]

DAQMaster is a comprehensive device management software for setting parameters and monitoring processes. DAQMaster can be downloaded from our website at www.autonics.com.

n	Minimum specifications			
tem	IBM PC compatible computer with Pentium III or above			
erations	Windows 98/NT/XP/Vista/7/8/10			
mory	256MB+			
d disk	1GB+ of available hard disk space			
۹.	Resolution: 1024×768 or higher			
ers	RS232C serial port (9-pin), USB port			

User Manual for Communication

For the detail information and instructions, please refer to user manual for communication, and be sure to follow cautions written in the technical descriptions (catalog, homepage). Visit our homepage (www.autonics.com) to download manuals.

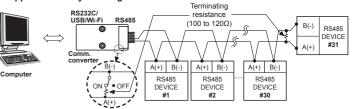
RS485 Communication Output

※Applicable for models with RS485 communication output through option output (SPR3-___T__). Please refer to I Ordering Information'.

1. Communication Specifications

nm. protocol	Modbus RTU	Comm. speed	2400, 4800, 9600, 19200,	
nection method	RS485		38400 bps	
lication standard	Compliance with EIA RS485	Comm. response time	5 to 99ms (default: 20ms)	
. connections	31 units (address: 1 to 99)	Start bit	1-bit (fixed)	
chronization method	Asynchronous	Data bit	8-bit (fixed)	
nm. method	Two-wire half duplex	Parity bit	None, Even, Odd	
nm. distance	Max. 800m	Stop bit	1-bit, 2-bit	

2. Application of system organization



%It is recommended to use Autonics communication converter; SCM-WF48 (Wi-Fi to RS485-USB wireless communication converter, sold separately), SCM-US48I (USB to RS485 converter, sold separately), SCM-38I (RS232C to RS485 converter, sold separately). Please use twisted pair wire, which is suitable for RS485 communication, for SCM-WF48, SCM-US48I and SCM-38I.

Major Products

Temperature Controllers Fiber Optic Sensors mperature/Humidity Transducer SRs/Power Cont Door Sensors Door Side Sensors Counters Area Sensors Timers Proximity Sensors Panel Meters Pressure Sensors Tachometer/Pulse (Rate) Meters Rotary Encoders Display Units Autonics Corporation Sensor Controlle Connector/Socket Connector/sockets Sen Switching Mode Power Supplies Control Switches/Lamps/Buzzers I/O Terminal Blocks & Cables http://www.autonics.com HEADQUARTERS 18, Bansong-ro 513beon-gil, Haeundae-gu, Busan, Stepper Motors/Drivers/Motion Controller South Korea, 48002 Graphic/Logic Panels TEL: 82-51-519-3232 Field Network Device E-mail: sales@autonic Laser Marking System (Fiber, CO₂, Nd: YAG) Laser Welding/Cutting System DRW180136AC