

Features:

- High contact capacity: 200A contact switching capability.
- The coil holding voltage can be reduced to 50~60% of the rated coil voltage for energy saving.
- One set of normally open contacts with contact spacing > 4 mm.
- Conforms to European photovoltaic standards IEC62109, VDE0126.


Approvals

UL (File No.) : E179745
 TUV (File No.) : R50624027
 CQC (File No.) : CQC24002426482

Contact Data

Contact arrangement	1 Form A
Contact material	AgSnO ₂
Contact Resistance	≤1mΩ (at 6V 20A)
Contact Rating (resistive load)	200A 1000VAC
Max. Contact Voltage	1000VAC
Max. Contact Current	200A
Max. Breaking Capacity	2000000VA
Min. recommended contact load	100mA 6VDC
Operate Time (at nominal volt.)	≤30ms
Release Time (at nominal volt.)	≤10ms
Electrical endurance	Making 50A, Carrying 200A, Breaking 50A, 1000VAC, resistive load, 85°C, 1s on : 9s off, 3×10 ⁴ ops.

Insulation Data

Insulation resistance	1000MΩ (500VDC)
Initial dielectric strength	
between contact sets	2000VAC, 50/60Hz 1min.
between contact and coil	5000VAC, 50/60Hz 1min.

Other Data

Material compliance	EU RoHS/ELV, China RoHS, REACH	
Temperature rise	<70K(After the coil is energized with rated voltage for 200ms, set the holding voltage to 60% of rated voltage, load current carrying 200A, @85°C)	
Shock resistance	Functional	98m/s ²
	Destructive	980m/s ²
Vibration resistance	10Hz to 55Hz 1.5mm DA	
Mechanical endurance	1×10 ⁶ ops	
Ambient temperature	-40°C to +85°C	
Humidity	5% to 85%RH	
Termination	PCB	
Weight	Approx. 150g	

Note:

* refers to non width direction indicators

Coil Data

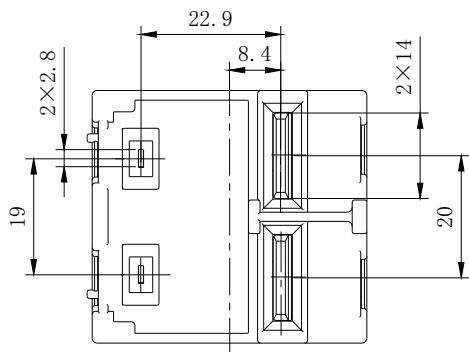
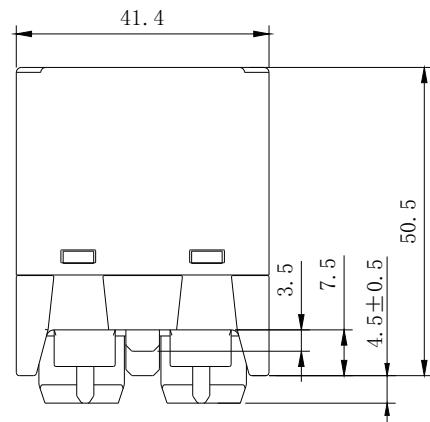
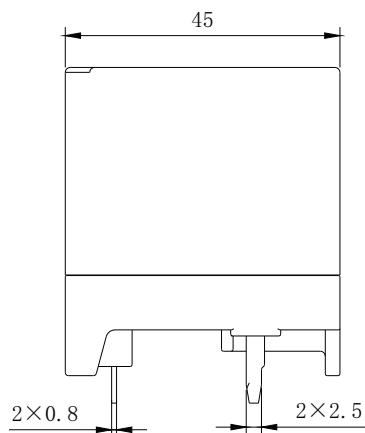
Nominal Voltage VDC	Max. Operate Voltage VDC	Min. Release Voltage VDC	Max. Allowable Voltage VDC	Coil Resistance (1±10%) Ω	Coil Power W	Holding Voltage
12	9	0.6	13.2	48	3	40% to 100% Nomi. Volt. (at 23°C) 50% to 60% Nomi. Volt. (at 85°C)
24	18	1.2	26.4	192		

Note:

- (1) Relay coil full voltage for 200 milliseconds.
- (2) The coil holding voltage is the value of the voltage applied to the coil after the coil excitation voltage has been maintained for 200ms.
- (3) The relay coil is not allowed to apply more than the upper limit of the holding voltage for a long period of time to prevent the relay from overheating and burning out.

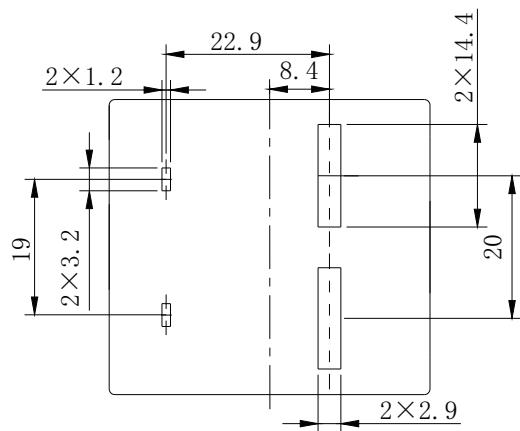
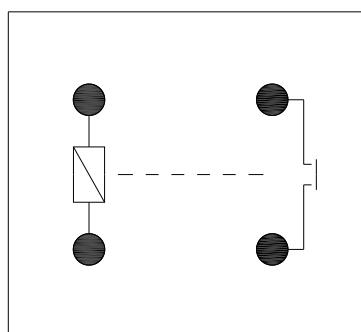
Safety certification load

Certification	File No.	Approved ratings
UL	E179745	
TUV	R50624027	1000VAC 50A/200A/50A
CQC	CQC24002426482	

Dimensions


Unless otherwise specified:

If dimension < 1mm, tolerance: $\pm 0.2\text{mm}$;
 If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$;
 If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$.

Wiring diagram (bottom view)

Wiring Diagrams


Product Code Structure

SPV	200B	-M	XX	X	X	
Special parameters: Nil-Standard type, Letters or digits-Special requirement						
Contact material: 1-AgSnO2						
Coil specification: 12, 24 (VDC)						
Contact form: M-Form A						
Load current: 200B-200A						
Basic model: SPV						

Disclaimer

This product specification is for reference only, subject to change without prior notice. It is not possible for Sanyou to evaluate all the performance parameter requirements of relays in each specific application field, so customers should choose the suitable product according to the specific application conditions. If you have any questions, please contact us for more technical support, but the customer should be responsible for product selection.