

Features:

- High contact capacity: 200A breaking capacity
- A set of normally open (NO) contacts with contact spacing >4mm
- Compliant with European PV standards (IEC62109、VDE0126)
- Low Holding Voltage Saves Energy
- Class F Insulation



Approvals

UL (File No.) : E179745
TUV (File No.) : R 50609945
CQC (File No.) : CQC23002412659

Contact Data

Contact arrangement	Form A
Contact material	AgSnO2
Contact Resistance	1mΩ max(@ 6VDC 20A)
Rated load	200A 1000VAC
Max. Contact Voltage	1000VAC
Max. Contact Current	200A
Min. recommended contact load	1A,6VDC
Operate Time (at nominal volt.)	≤45ms
Release Time (at nominal volt.)	≤20ms

Electrical endurance

Making 50A, Carrying 200A, Breaking 50A, 1000VAC,
Resistiveload, 85°C, 1s On 9s Off, 3×10⁴ops.

Coil Data

Coil Voltage Rating 12 VDC、24VDC

Rated Voltage VDC	Operating Voltage VDC	Release Voltage VDC	Coil Resistance x(1±10%) Ω	Coil Power W	Holding Voltage
12	9	0.6	48	3	40% to 100% Rated Voltage (at 23°C)
24	18	1.2	192	3	50% to 100% Rated Voltage (at 85°C)

Note:

- (1) Continuous application of voltage above the holding voltage may cause coil overheating and failure
- (2) The holding voltage is applied subsequent to 200ms of the rated voltage.

Insulation Data

Insulation resistance	1000MΩ (500VDC)
between main contact sets	2500VAC, 50/60Hz 1min.
between main 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)
Ambient Temperature	-40°C~85°C
Ambient Humidity	5% to 85% RH
Weight	Approx. 210g
Packaging	EPE Foam
Shock resistance *	Functional 98m/s ² Destructive 980m/s ²
Vibration resistance *	10Hz to 55Hz 1.0mm DA
Mechanical Life	3×10 ⁵ ops
Terminal Configuration	pcb

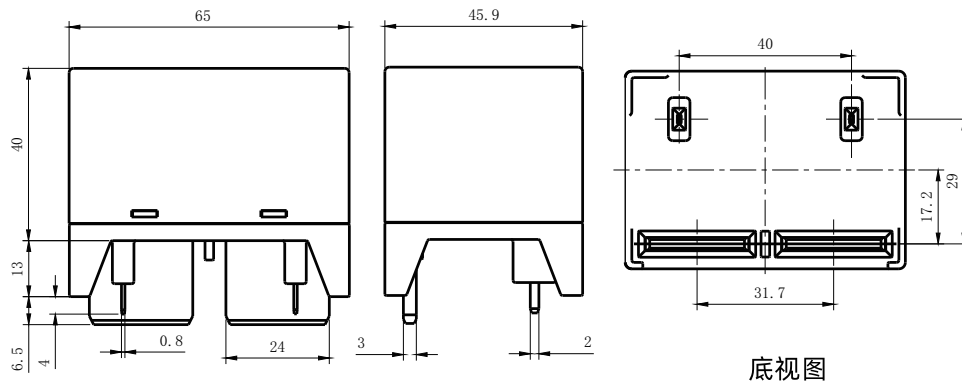
Note:

* :Excluding width-directional parameters

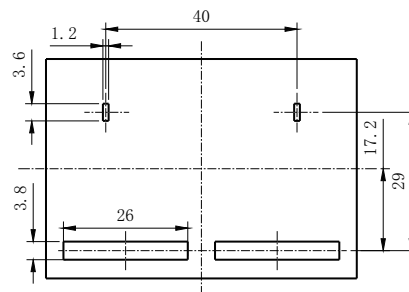
Safety certification load

Certification	Approved ratings
UL/CUL	Main Contact: Making 50A, Carrying 200A, Breaking 50A, 1000VAC, Resistiveload, 85°C, 1s On 9s Off.
TUV	
CQC	

Dimensions



Wiring diagram (bottom view)



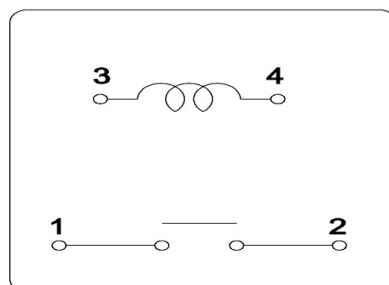
Unless otherwise specified:

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 Diagrams



Product Code Structure

SPV	200	-M	12	1	-xx
					Special parameters: Nil-No special parameters X: Customer-specific requirements, unrelated to structural design G: External auxiliary heat sink added to the terminal
					Contact material:
					Coil specification: (VDC) 12,24
					Contact form: -M: Form A
					Load current: 200: 200A
					Basic model: SPV

Note:

- (1) Flux-proof type can not be used in polluted environment containing HS, SO₂, NO, dust and other pollutants.
- (2) Water cleaning or surface process is not suggested after the flux-proofed relays are assembled on PCB..
- (3) Customer special requirements (XX) shall be evaluated by our company and marked by specail suffix.

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.