

Features:

- High contact capacity: 90A contact switching capability.
- The coil holding voltage can be reduced to 50~60% of the rated coil voltage to achieve energy saving.
- A set of normally open contacts with contact spacing>4mm.
- In line with European photovoltaic standards lEC62109、VDE0126.









Approx. 82g

Approvals

UL (File No.): E179745 TUV (File No.): R50632515

CQC (File No.): CQC24002433093

Contact Data

Contact arrangement		1 Form A
Contact material		AgSnO ₂
Contact Resistance		10mΩ MAX.(6VDC 20A)
Contact Rating (resistive load)		90A 1000VAC
Max. Contact Voltage		1000VAC
Max. Contact Current		100A
Max. Breaking Capacity		100,000VA
Min. recommended contact load		100mA 6VDC
Operate Time(at nominal volt.)		≤30ms
Release Time(at nominal volt.)		≤10ms
Electrical endurance	(1) Making 30A, Carrying 100A, Breaking 30A,1000VAC, resistiveload,85℃, 1s on: 9s off,3×10⁴ops.	
		320VAC, resistiveload, on : 9s off,1×10³ops.

Insulation Data

Insulation resistance	10	00MΩ (500VDC)
Initial dielectric strength		
between contact sets	2000VAC,	50/60Hz 1min.
hetween contact and coil	5000VAC	50/60Hz 1min

Other Data	
other bata	
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 90A, @85°C)
Shock resistance	Functional 98m/s² Destructive 980m/s²
Vibration resistance	10Hz to 55Hz 1.5mm DA
Mechanical enduran	ce 1×10 ⁶ ops
Ambient temperature	e -40°C to +85°C
Humidity	5% to 85%RH
Termination	РСВ

Note:

Weight

The above values are initial values

Coil Data

П	Nominal Voltage VDC	Operate	Min. Release Voltage VDC		Coil Resistance (1±10%) Ω	Coil Power W	Holding Voltage
	12	9	0.6	13.2	75	1.92	40% to 100% Nomi. Volt. (at 23°C)
	24	18	1.2	26.4	300	1.92	50% to 60% Nomi. Volt. (at 85℃)

Note:

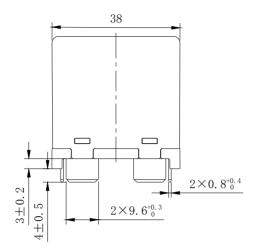
- (1) The relay applies full coil voltage to maintain 200ms.
- (2) Coil holding voltage is the coil excitation voltage maintained after 200ms, down to 50~60% of the rated coil voltage.
- (3) The relay coil is not allowed to apply more than the upper limit of the $\,$ holding voltage for a long time to prevent the relayfrom overheating and burning out.

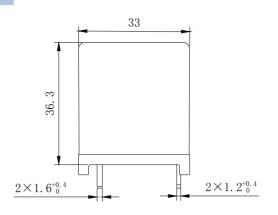
Safety certification load

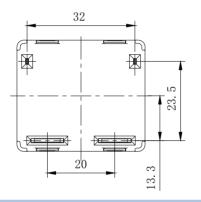
Certification	File No.	Approved ratings
UL	E179745	
TUV	R50632515	320VAC 90A 1000VAC 30A/100A/30A
CQC	CQC24002433093	



Dimensions



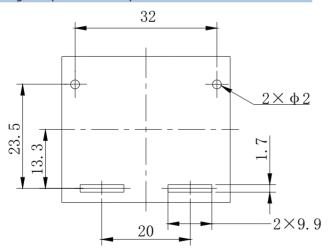




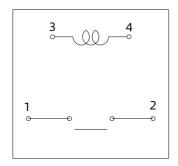
Unless otherwise specified:

If dimension < 1mm, tolerance: ±0.2mm;
If dimension 1~5mm, tolerance: ±0.3mm;
If dimension > 5mm, tolerance: ±0.4mm.

Wiring diagram (bottom view)

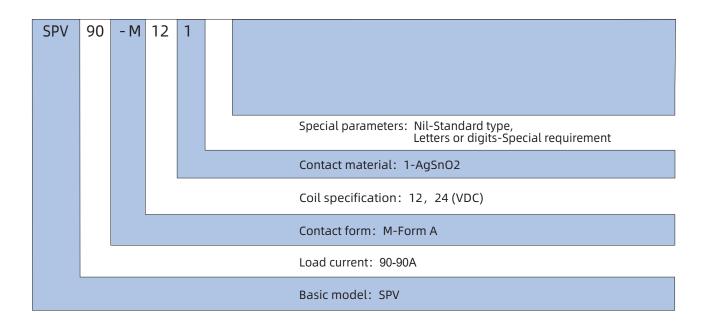


Wiring Diagrams





Product Code Structure



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.