

特点:

- Two sets of main contacts + one set of auxiliary contacts
- When the main contacts are stuck, the auxiliary contacts shall fulfill the safety detection function (IEC 61810-3).
- Main contact gap > 3.6 mm, auxiliary contact gap > 0.7 mm
- Suitable for inverters used in solar photovoltaic power generation and AC charging stations.
- The coil holding voltage can be reduced to 50-60% of the coil's rated voltage to achieve energy-saving benefits.

Safety Certification

UL (Number): Under Certification TÜV (Number): Under Certification CQC (Number): Under Certification

Contact Data

Contact Form 2 Form A,1 Form B

AgSnO2 Contact material

Main contact: 10mΩMax (@6VDC 20A) Contact resistance Auxiliary contact: $100m\Omega Max$ (@6VDC 20A)

Rated Load (Resistive) 480VAC 40A

Max.Switching Voltage 480VAC

Max.Switching Current 40A

19,200VA Max.Switching Power

Min.load 6VDC 100mA

Release time (at rated. volt.) ≤10ms

*(1) NO: 35A 480VAC ,5×10⁴ ops *(2) NO: 40A 480VAC,1×10⁴ ops

Electrical endurance

(3) NO: making10A, loading40A, breaking10A, 480VAC,5×10⁴ ops

(4) NC: 1A 277VAC/30VDC,1×10⁵ ops

(1) The above parameters are initial values.

Operate time (at rated. volt.)

- (2) For *load, wired according to Figure e in Table 16 of IEC 61810-1.
- (3) Electrical life on-off ratio: 1 second: 9 seconds

Insulation Data

Insulation Resistance	1000MΩ Min (500VDC)
Insulation Class	IIIa
Proof Tracking Index	PTI 250V



Dielectric strength

Between open main contacts: 2000VAC, 50/60Hz 1min

Between the main contact 5000VAC, 50/60Hz 1min and auxiliary contact:

Between the coil and the

main contact: 2000VAC, 50/60Hz 1min 5000VAC, 50/60Hz 1min Main contact group:

Between the coil and auxiliary

2000VAC, 50/60Hz1min contacts: Between the broken auxiliary

1000VAC, 50/60Hz 1min contacts:

Others Data

Environmental Complies with RoHS, ELV, and REACH regulations requirements:

< 70K (After energizing the coil at rated voltage for 200ms, set the holding voltage to 60% of rated voltage, load current 40A, @85°C) Temperature rise

Shock	Destructive	100G Min
resistance	Functional	10G Min
Vibration	Destructive	10~55Hz 1.5mm DA
resistance	Functional	10~55Hz 1.5mm DA

1×10⁶ ops Mechanical endurance

Ambient temperature -40°C~85°C (No Condensation)

Humidity 5%~85%RH

Termination PCB

Unit weight Approx. 65q

Note:

≤30ms

(1) The above parameters are initial values.

Coil Data

Nominal Voltage VDC	Nominal current ±10% mA	Coil resistance ±10% Ω	Maximum continuous applied voltage	Pickup voltage (MAX.)	Release voltage (Min.)	Nominal Power W		
12	157	76.6				1.88		
24	78	306	110% Nominal Voltage	Nominal	Nominal	75% Nominal	5% Nominal	1.88
12	250	48				Voltage	Voltage	3
24	125	192				3		

Note:

- (1) The relay applies full coil voltage for 200 milliseconds. (2) The coil holding voltage is the voltage that remains at 50-60% of the nominal coil voltage after the coil excitation voltage is maintained for 200 ms.
- (3) The relay coil must not be subjected to a voltage exceeding the upper limit of the holding voltage for extended periods to prevent overheating and burnout of the relay.



Safety Certification Program

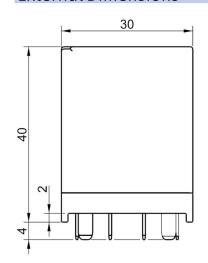
Project	No.	Certified Load
UL	linder certification	(1) NO: 35A 480VAC ,5×10 ⁴ ops (2) NO: 40A 480VAC,1×10 ⁴ ops
TUV	Under certification	(3) NO:making10A,loading 40A,
cQc	Under certification	breaking 10A,480VAC,5×10 ⁴ ops (4) NC: 1A 277VAC/30VDC,1×10 ⁵ ops

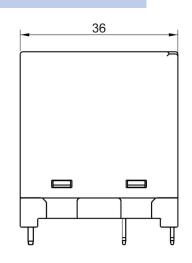
Ability to withstand abnormal currents

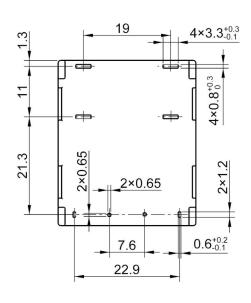
Based on IEC 62955 requirements: $Ip \ge 1.85KA$, $I^2t \ge 4.5kA^2s$ Based on IEC 62752 requirements: $Ip \ge 1.5KA$, $I^2t \ge 6kA^2s$

Based on IEC 61851 requirements (inrush current): 230A for 100us Based on IEC 62955 requirements (lightning current): 3kA for 8/20us

External Dimensions







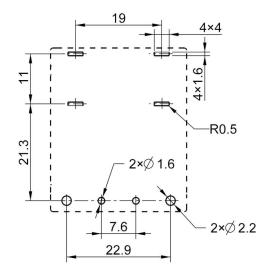
Note:

Lead dimensions are pre-soldering dimensions;

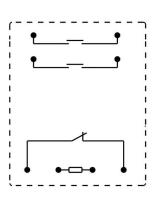
Unspecified dimensional tolerances:

Dimensions <1mm: ±0.2mm Dimensions 1-5mm: ±0.3mm Dimensions >5mm: ±0.4mm

Mounting Hole Diagram (Bottom View)

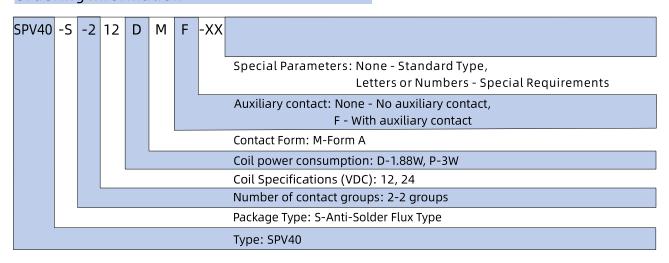


Wiring Diagram (Bottom View)





Ordering Information



Statement

Product specifications are for reference only and are subject to change without notice. Sanyou cannot evaluate all performance parameter requirements for every specific application.

Therefore, customers should select products based on their specific operating conditions. For inquiries, please contact Sanyou for additional technical support. However, product selection responsibility rests solely with the customer.