

Feature:

- 25A motor rating
- Microminiature
- Transformational contact
- Single and dual relays available
- H (180°C)insulation Class
- 250 °C reflow soldering

Typical Application

- Central door lock, skylight control, automatic doors and Windows mirror adjustment, seat adjustment

Contact Data

| | |
|--|---------------------|
| Nominal switching capacity (res. load) | 25A 14VDC (at 23°C) |
| Max. switching current | 30A |
| Max. switching voltage | 16VDC |

Parameters Data

| | |
|---------------------------------|---|
| Contact material | Silver alloy |
| Dropping Voltage of Contacts | 250mV Max (at10A) |
| Operate time (at nominal volt.) | 10msec.Max. |
| Release time (at nominal volt.) | 10msec.Max. |
| Initial insulation resistance | 100MΩ Min.(500VDC) |
| Initial dielectric strength | Between open contacts: 500VAC, 50/60Hz 1min. |
| | Between coil and contact: 500VAC, 50/60Hz 1min. |
| Vibration resistance | Functional 10~100Hz, 44.1m/s ² |
| | Destructive 10~500Hz, 44.1m/s ² 2h |
| Shock resistance | Functional 100m/s ² (pulse duration: 11ms) |
| | Destructive 1000m/s ² (pulse duration: 6ms) |
| Mechanical | 1×10 ⁷ ops |
| Ambient temperature | -40°C to +110°C (no condensation) |
| Weight | Single type: Approx 3.5 g ; Dual type: Approx 6.5g |

Coil Data (at 23°C)

| Nominal voltage VDC | Rated current ±10%(mA) | Coil resistance ±10%(Ω) | Max. Allowable voltage VDC | Operate voltage (Max.) | Release voltage (Min.) | Coil power (W) |
|---------------------|------------------------|-------------------------|----------------------------|------------------------|------------------------|----------------|
| 5 | 178.6 | 28 | 6.6 | ≤2.7 | ≥0.3 | Approx 0.9 |
| 12 | 75 | 160 | 16 | ≤6.5 | ≥0.8 | Approx 0.9 |
| 12 | 54.3 | 221 | 16 | ≤7.7 | ≥0.8 | Approx 0.65 |
| 24 | 37.5 | 640 | 32 | ≤13 | ≥1.6 | Approx 0.9 |

Contact Performance

| Contact Voltage | Rating type | | contact rating current(A) | | Duty factor | | Endurance (cycles) | Material | Test ambient temperature |
|-----------------|----------------|-----|---------------------------|----|-------------|-----------|--------------------|--------------------|--------------------------|
| | | | 1C、1A | | Markings | Breakings | | | |
| | | | NO | NC | | | | | |
| 14VDC | Resistive Load | On | 25 | 10 | 1 | 9 | 1×10 ⁵ | AgSnO ₂ | 23°C |
| | | Off | 25 | 10 | | | | | |
| | Mator Load | On | 25 | — | 0.5 | 0.95 | 1×10 ⁵ | AgSnO ₂ | |
| | | Off | 25 | — | | | | | |

Ordering Information

SARI -S -1 12 D -M -XX

Special Parameter: Nil-Standard type,Letter or number-Special requirement

Contact Form : Nil-Form C, M - Form A

Coil Power:D-0.9W, H-0.65

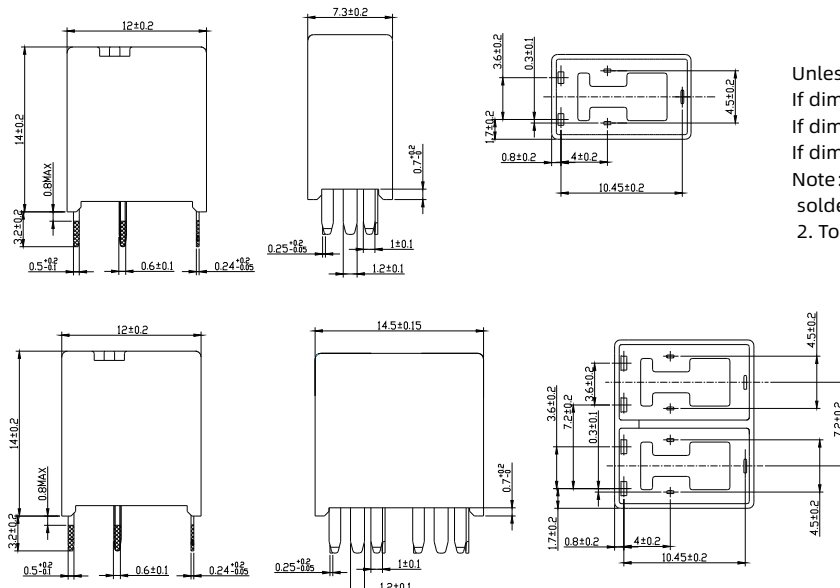
Coil Power(VDC): 05, 12, 24

Number of Poles: 1-single relay 2-dual relay

Protective Construction: S-Flux proofed ;SH-sealed type washable

Type Designation:SARI

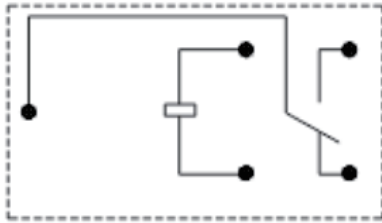
Outline Dimensions, Wiring Diagram, Mounting Holes (unit: mm)



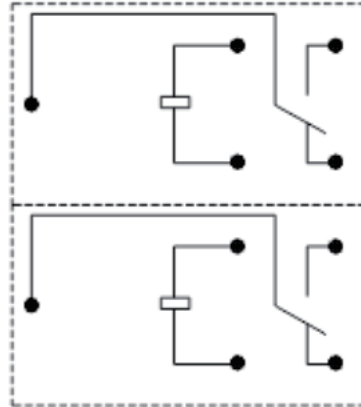
Unless otherwise specified:
 If dimension < 1mm, tolerance: ±0.2mm;
 If dimension 1~5mm, tolerance: ±0.3mm;
 If dimension > 5mm, tolerance: ±0.4mm.
 Note: 1. Extended terminal dimension is dimension before soldering.
 2. Tolerance of mountingholes: ±0.1mm.

Wiring Diagram (bottom view)

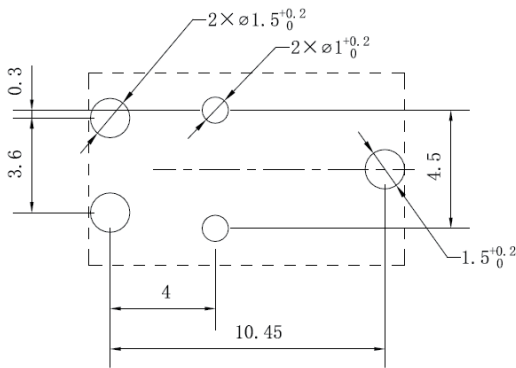
Single Relay



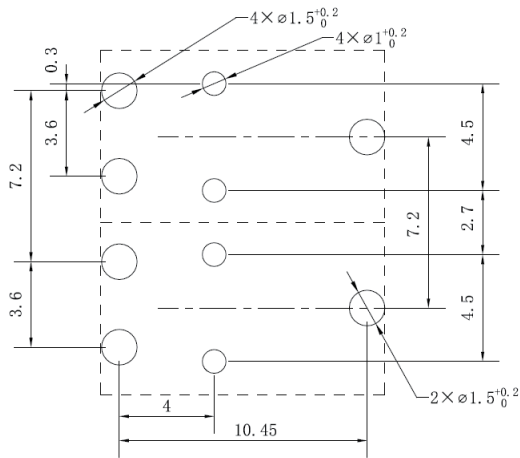
Dual Relay



P.C.B. Layout (top view)



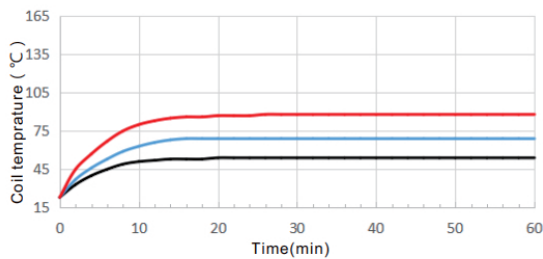
Single Relay



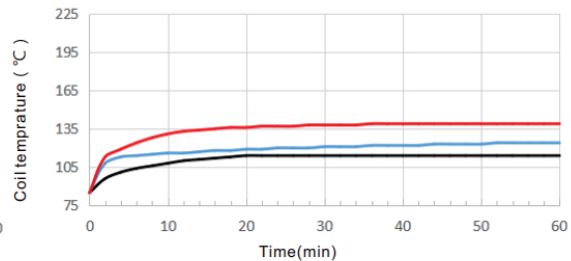
Dual Relay

Characteristic Curves

Coil voltage:12VDC
 Load current:15A,20A,25A
 Environment temperature:23°C
 Load wire specification:2.5mm², 14AWG



Coil voltage:12VDC
 Load current:15A,20A,25A
 Environment temperature:85°C
 Load wire specification:2.5mm², 14AWG



Statement:

This product specification is for reference only, subject to change without prior notice. We could not evaluate all test conditions for every possible application, thus customers should be in a right position to choose suitable products for their own application. If in doubt, please contact Sanyou for more technical support. However, it's the customer's responsibility to determine which product should be used.