



## Features

- Microminiature high power automotive relay.
- Max. switching current: 30A.
- Sealed type available.
- Both single and dual relays available.
- Patent number: ZL 2008 20050973.6  
ZL 2008 20050974.0

## Contact Capacity

Model	SARK
Nominal switching capacity (res. load)	NO/NC: 30A /25A 13.5VDC
Max. switching current	30A
Max. switching voltage	30VDC
Max. switching power	420W

## Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	100mΩ Max.	
Operate time (at nominal volt.)	4msec. Max.	
Release time (at nominal volt.)	4msec. Max.	
Initial insulation resistance	100MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC500V, 50/60Hz 1min.	
	Between coil and contact: AC500V, 50/60Hz 1min.	
Vibration resistance	6G, 10Hz–500Hz	
Shock resistance	30G, 6ms	
Endurance (operations)	Mechanical	5,000,000
	Electrical	Res. Load: 300,000, 20A 13.5 VDC
		Wiper motor: 300,000, 25A On 5A OFF, L=1.0mH
		Motor locker: 100,000, 20A 13.5 VDC, L=0.77mH
		Lamp load (N.O.): 100,000, Inrush current 100A, steady current 10A
Flashing light (N.O.): 1,000,000, 3×21W		
Ambient temperature	–40°C ~ +125°C (No condensation)	
Unit weight	4.0g (single); 8.0g (dual)	

## Coil Data (at 20°C)

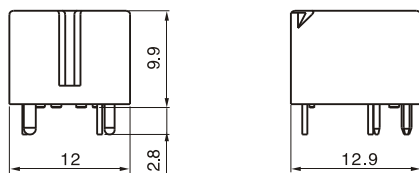
Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. Allowable voltage		Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
			23°C	85°C			
6	95.24	63	13.2	7.8	3.5	0.8	Approx. 0.55W
10	55.25	181	22	13	5.7	1.25	
12	47.24	254	26	16	6.9	1.5	
24	23.62	1,016	53	31	13.8	3.0	
12	66.30	181	22	13	6.9	1.5	Approx. 0.80W

**Ordering Information**

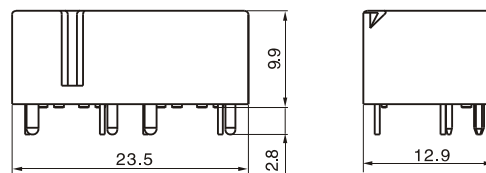
Nomenclature				
SARK	-S-	1	12	D M-XX
Special Parameter: Nil-Standard type, Letter or number-Special requirement				
Contact Form: Nil-Form C, M-Form A				
Coil Power: D-0.55W, H-0.8W				
Coil Voltage (VDC): 06, 10, 12, 24				
Number of Poles: 1-Single relay, 2-Dual relays				
Protective Construction: S-Flux proofed, SH-Sealed type washable				
Type Designation: SARK				

**Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)**

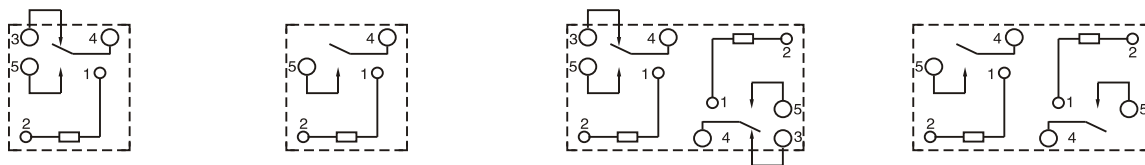
Single relay



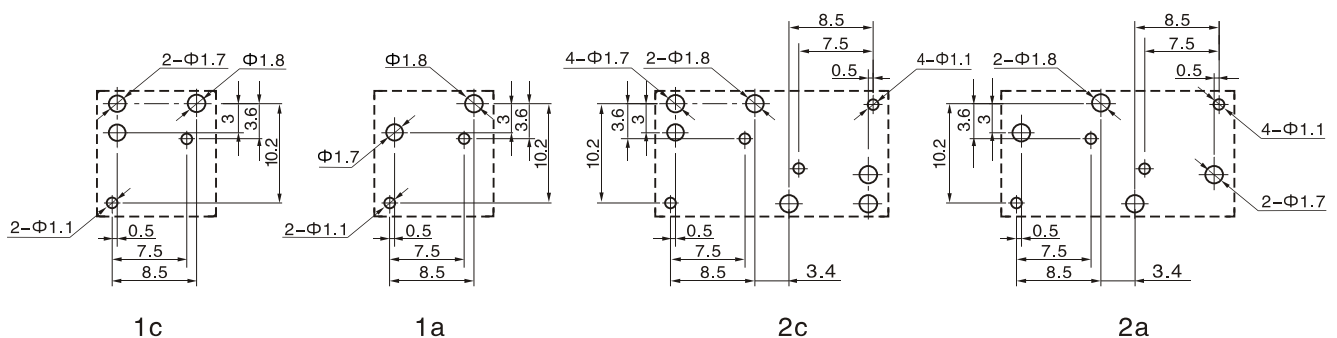
Dual relay



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 P.C.B. layout: ±0.1mm.



Wiring Diagram (bottom view)



P.C.B. Layout (bottom view)

## Typical Applications

- Control box, central door lock, instrument control, engine control, power door & window, wiper control, anti-theft system, lighting and flashlight control, etc.

## Characteristic Curves

