

## Features

- High switching capability: 15A.
- Microminiature, standard PCB terminal.
- Sealed type available.

## Contact Capacity

Model	SARM
Nominal switching capacity (res. load)	15A 14VDC
Max. switching current	15A
Max. switching voltage	14VDC
Max. switching power	210W

## Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	100mΩ Max.	
Operate time (at nominal volt.)	8msec. Max.	
Release time (at nominal volt.)	5msec. Max.	
Initial insulation resistance	100MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC750V, 50/60Hz 1Min.	
	Between coil and contact: AC1,500V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 900 ops./h)	100,000
Ambient temperature	-40°C ~ +125°C (no condensation)	
Unit weight	Approx. 8.5 g	

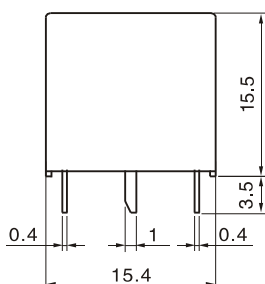
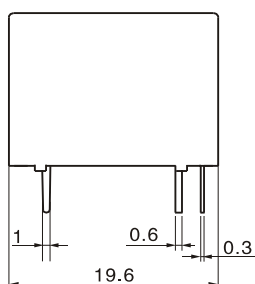
## Coil Data (at 20°C)

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
6	133.3	45	110 % of nominal voltage	70 % of nominal voltage	5 % of nominal voltage	Approx. 0.80W
9	88.8	101				
12	66.7	180				
24	33.3	720				

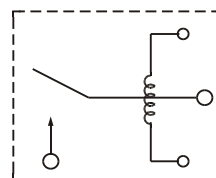
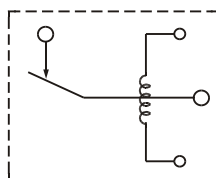
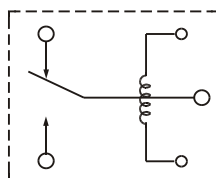
## Ordering Information

Nomenclature							
SARM	-S	-1	12	D	M	1	-XX
							Special Parameter: Nil-Standard type, Letter or number-Special requirement
							Contact Material: Nil-AgSnO <sub>2</sub> , 1-AgCdO
							Contact Form: Nil-Form C, B-Form B, M-Form A
							Coil Power: D-0.80W
							Coil Voltage (VDC): 06, 09, 12, 24
							Number of Poles: 1-1 Pole
							Protective Construction: S-Flux proofed, SH-Sealed type washable
							Type Designation: SARM

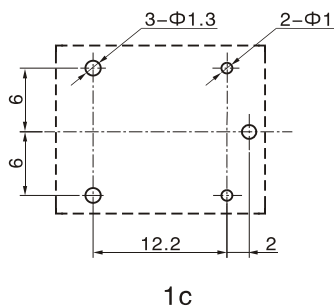
## Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)



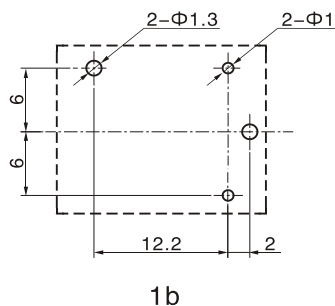
Unless otherwise specified:  
 If dimension < 1mm, tolerance:  $\pm 0.2\text{mm}$ ;  
 If dimension 1~5mm, tolerance:  $\pm 0.3\text{mm}$ ;  
 If dimension > 5mm, tolerance:  $\pm 0.4\text{mm}$ .  
 Note: 1. Extended terminal dimension is dimension before soldering.  
 2. Tolerance of P.C.B. layout:  $\pm 0.1\text{mm}$ .



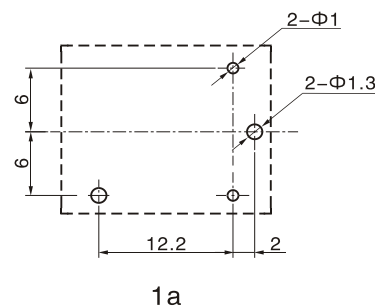
Wiring Diagram (bottom view)



1c



1b



1a

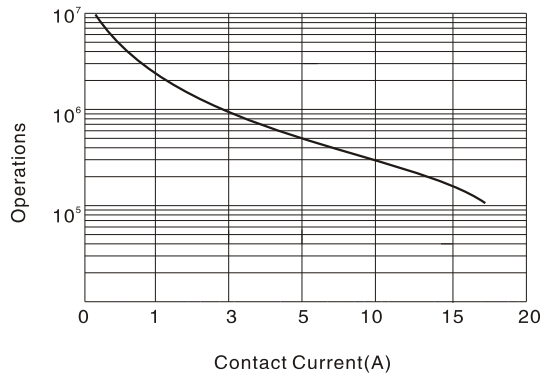
P.C.B. Layout (bottom view)

## Typical Applications

- Home appliances such as air conditioner, electric heater, etc.
- Office equipment such as computer, fax machine, etc.
- Automatic power window, car antenna, door lock, etc.
- Automat

# Characteristic Curves

Endurance Curve



Pick-up/Release time

