



### Features

- Ability of withstanding 15A continuous current under ambient temperature 85°C.
- Form A and Form C contact configuration available.
- 2.8mm plug-in terminal.
- Ambient temperature: -40°C~+125°C.

### Contact Capacity

Model	SARC-DM	SARC-D
Nominal switching capacity (res. load)	20A 14VDC	14VDC NO/NC: 20A/10A
Max. switching current	30A	NO/NC: 30A/15A
Max. switching voltage	30VDC	30VDC
Max. switching power	280W	280W

### Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	100mΩ Max.	
Operate time (at nominal volt.)	10msec. Max.	
Release time (at nominal volt.)	10msec. 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	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	20G 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. 19.0 g	

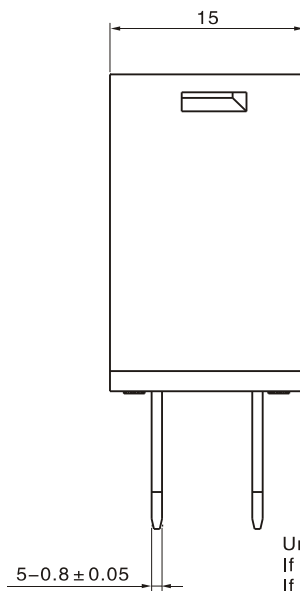
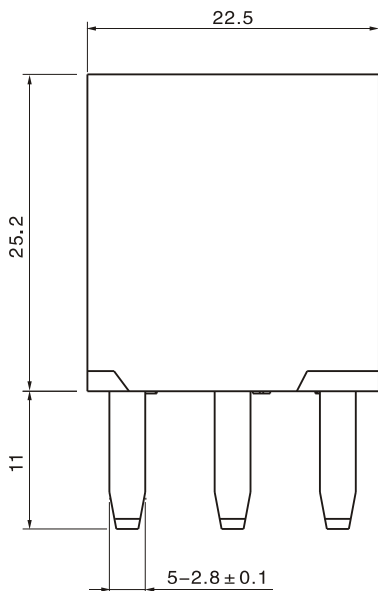
### Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Parallel resistance (Ω)	Equivalent resistance (Ω)	Max. Allowable voltage		Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
					23°C	85°C			
6	222.22	27.8	---	---	10.4	7.6	60 % of nominal voltage	5 % of nominal voltage	1.30W
12	110.09	109	---	---	20.4	14.9			
24	55.05	436	---	---	40.4	29.6			
6	222.22	27.8	180	24	10.4	7.6			1.50W
12	110.09	109	680	94	20.4	14.9			
24	55.05	436	2,700	375	40.4	29.6			

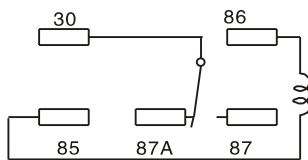
## Ordering Information

Nomenclature					
SARC	-1	12	D	M	R-XX
Special Parameter: Nil-Standard type, Letter or number-Special requirement					
Accessory Form: Nil-Without resistor, R-With resistor					
Contact Form: Nil-Form C, M-Form A					
Coil Power: D-1.3W/1.5W					
Coil Voltage (VDC): 06, 12, 24					
Number of Poles: 1-1 Pole					
Type Designation: SARC					

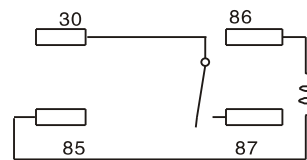
## Outline Dimensions, Wiring Diagram, Mounting Holes (unit: mm)



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 mounting holes :  $\pm 0.1\text{mm}$ .

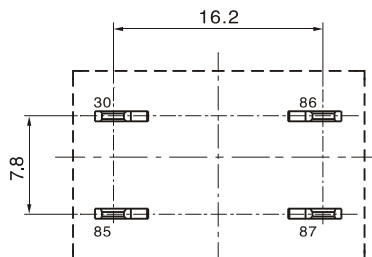
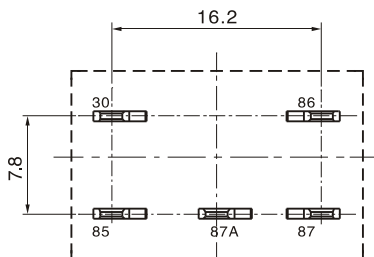


1c



1a

Wiring Diagram (bottom view)



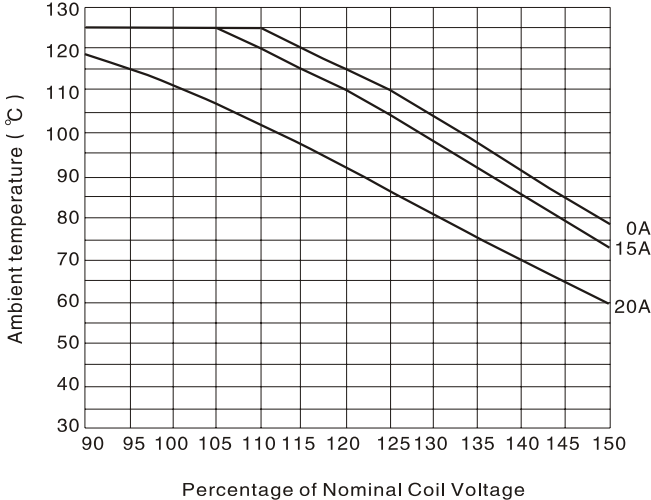
Mounting Holes (bottom view)

### Typical Applications

- Fan control, fuel pump control, electric spray system, loudspeaker control.
- Headlamp/ headlight/ fog light control, A/C compressor clutch control.

### Characteristic Curves

Continuous coil voltage range



Max. Allowable load range

