

Features

- 40A high switching capability.
- 1 Form C and 2 Form A contact configuration available.
- Operating temperature : -40 to +125°C.
- Dustproof and sealed type available.
- variety of installations

Contact Capacity

Model	SARL-DM	SARL-D
Nominal switching capacity (res. load)	40A 14VDC	NO : 40A 14VDC NC : 30A 14VDC
Max. switching current	40A	40A
Max. switching voltage	30VDC	30VDC
Max. switching power	560W	560W

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.)	ordinary type:5msec.Max. with resistor or diode type :15 msec. 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	20G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 7,200 ops./h)	10,000,000
	Electrical (at 600 ops./h)	100,000
Ambient temperature	-40°C ~ +125°C (no condensation)	
Unit weight	Approx. 32.5 g	

Coil Data (at 20°C)

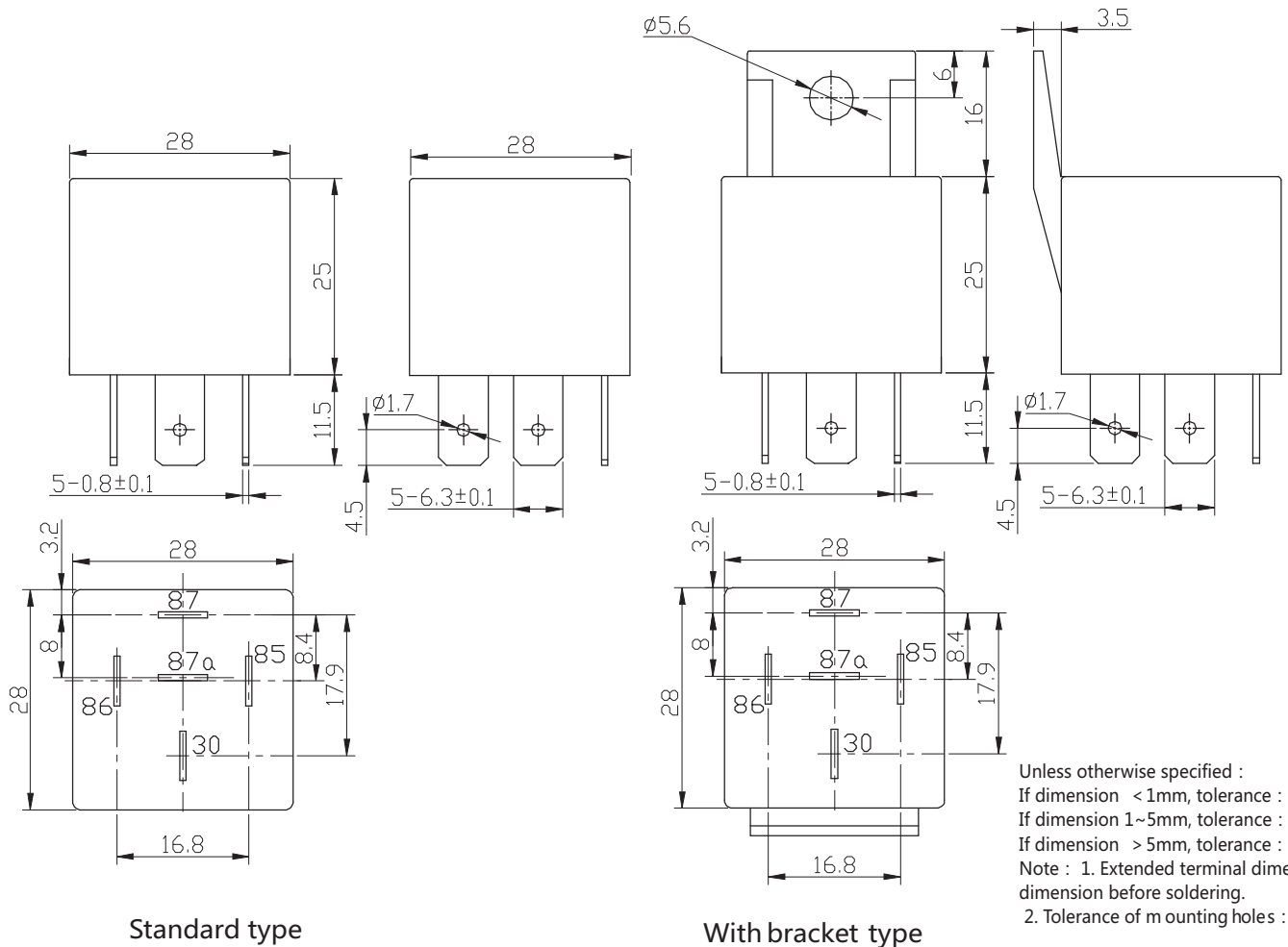
Nominal voltage (VDC)	Nominal operating current ±10% (mA)	Coil resistance ±10% (Ω)	Parallel resistance (Ω)	Equivalent resistance (Ω)	Max. Allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
12	133.33	90	----	----	150 % of nominal voltage	70 % of nominal voltage	10% of nominal voltage	1.6W
24	66.67	360	----	----				
5	360.00	14	----	----				
6	300.00	20	----	----				
9	200.00	45	----	----				1.8W
12	150.00	80	----	----				
18	100.00	180	----	----				
24	75.00	320	----	----				
12	150.00	80	680	71.5				2.0W
24	75.00	320	2,700	286				

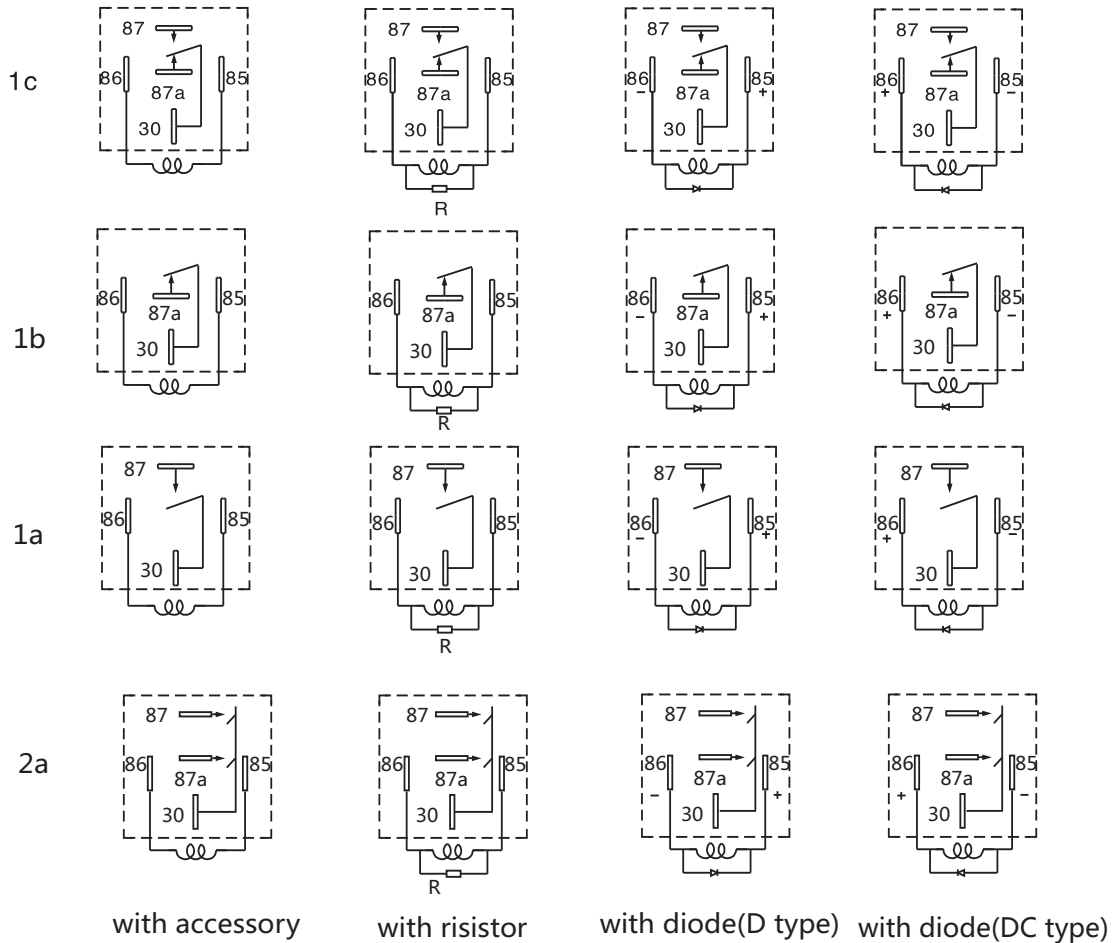
Ordering Information

Nomenclature

SARL	-	1	12	D	M	1	F	R	XX	Special Parameter : Nil-Standard type, Letter or number-Special requirement
Accessory From : Nil-Without accessory , R-with resistor , D-with diode , DC-with diode(see wiring diagram)										
Cover Type : Nil-without bracket , F-with bracket										
Contact material :										
Moveable Contact for form C			Moveable Contact for form A			Moveable Contact for form B				
Nil-AgSnO ₂ φ3.2			Nil-AgSnO ₂ φ3.5			Nil-AgSnO ₂ φ3.5				
1-AgCdO φ3.2			1-AgCdO φ3.5			1-AgCdO φ3.5				
2-AgSnO ₂ φ3.0			2-AgSnO ₂ φ3.0			2-AgSnO ₂ φ3.0				
3-AgCdO φ3.0			3-AgCdO φ3.0			3-AgCdO φ3.0				
4-3compounds φ3.2										
5-Cu plated with La φ3.2										
All stationary contacts are specified as : φ3.0(AgCdO m oveable contact are used in concert with AgCdO stationary contact,others are AgSnO ₂ stationary contact										
Contact Form : Nil-Form C , B-Form B , M-Form A										
Coil power : L-1.6W , D-1.8W/2.0W(with resistor combination power)										
Coil Voltage(VDC) : 05 , 06 , 09 , 12 , 18 , 24										
Numbers of Poles : 1-1Pole , 2-2Pole (Form A only)										
Type Designation : SARL										

Outline Dimensions, Wiring Diagram(unit : mm)



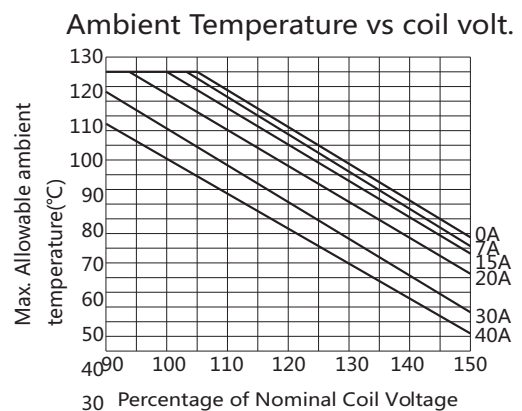
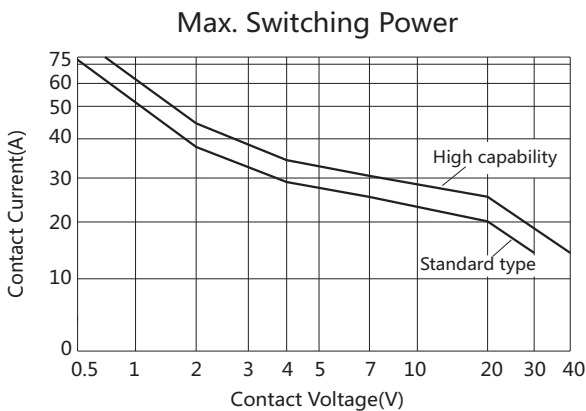


Wiring Diagram (bottom view)

Typical Applications

- Automotive control equipment
- Automotive air conditioner
- headlight and foglight control
- rear window defogger
- seat adjustment
- cooling fan control
- Battery breaking device
- fuel pump control

Characteristic Curves



Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for the technical service. However it is the user's responsibility to determine which product should be used only.