



Features

- High contact capability : 12A switching capability.
- Low coil power consumption, low price.
- Microminiature relay, standard PCB terminal.
- Compliance with RoHs and requirement for White Goods.
- Compliance with IEC60335-1 GWIF 850°C/GWIT 775°C and CTI>=250V.
- Impulse withstand voltage≥6000V product is available.
- Satisfy IEC60079-15 product is available.

Safety Approval

UL , C-UL File No. : E190598

VDE File No.: 40034479

CQC File No. : CQC02001002126

Contact Capacity

Model	SRD(I) -DM-L	SRD(I) -D-L
Nominal switching capacity (res. load)	12A 277VAC	NO12A 277VAC NO/NC7A 277VAC
Max. switching current	20A	20A
Max. switching voltage	277VAC	277VAC
Max. switching power	5,540VA	5,540VA

Characteristic Data

Contact material	silver alloy	
Initial contact resistance (at 6VDC 1A)	100mΩ Max. (1A 6VDC)	
Operate time (at nominal volt.)	8msec. Max. (no diode)	
Release time (at nominal volt.)	5msec. Max. (no diode)	
Initial insulation resistance	100MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts : AC 750V , 50/60Hz 1min.	
	SRD	Between coil and contact: standard product AC 1,500V,50/60Hz 1min
	SRDI	Between coil and contact: standard product AC 2,500V,50/60Hz 1min product with suffix"-6" : AC3000V,50/60Hz 1min
Impulse withstand voltage	SRDI	Between coil and contact : standard product ≥4800V 1.2/50us product with suffix"-6" ≥6000V 1.2/50us
Vibration resistance	Function	10~55Hz at double amplitude of 1.5 mm
	Destructive	10~55Hz at double amplitude of 1.5 mm
Shock resistance	Function	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical(at 10,800ops./H)	10,000,000
	Electrical(at 360ops./H)	50,000 (at 105°C)
Ambient temperature	-40°C ~ +105°C(no condensation)	
Unit weight	Approx.8.5g	

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
3	120.00	25	130 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	0.36W
5	71.42	70				
6	60.00	100				
9	40.00	225				
12	30.00	400				
15	24.00	625				
18	20.00	900				
24	15.00	1,600				
48	7.50	6,400				
60	6.00	10,000				

Safety Approval Ratings

Approval	CQC	VDE	UL/CUL
File No.	CQC02001002126	40034479	E190598
Approved ratings	12A 250/277VAC NO 17A 125/250/277VAC NO	12A 125/250/277VAC NO 17A 125/250/277VAC NO 20A 125VAC NO	12A 125/250/277VAC,Resistive&General use ,NO 17A 125/250/277VAC,Resistive&General use ,NO 20A 125VAC,Resistive&General use ,NO Tv8

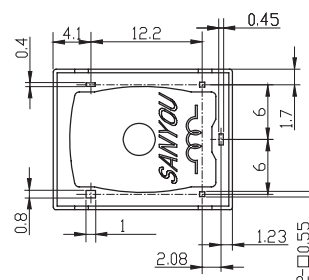
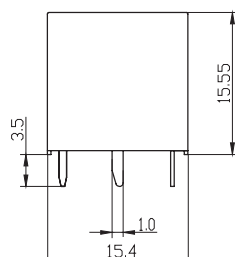
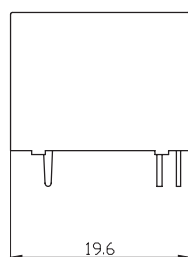
- (1) The above-mentioned unspecified temperature ratings, means that the ambient temperature is room temperature.
(2) Only some typical ratings are listed above. Each rating's test condition is different, so the electrical endurance will be different.
If more details are required, please contact us.
(3) For sealed type testing, please open the ventilation hole of case before test.

Ordering Information

Nomenclature									
SRDI	-S	-1	12	D	M	2	-F	-L	-6
withstand voltage:Nil-standard product 6-6000V impulse withstand voltage									
L-low temperature rised type									
Insulation System : Nil-Standard, B-Class B, F-Class F									
Contact Material :									
Moveable contact					stationary contact				
2-AgSnO ₂ φ3.5					2-AgSnO ₂ φ3.5				
6- AgNi φ3.5					6- AgNi φ3.5				
Contact Form : Nil-Form C, M-Form A									
Coil Power : D-0.36W									
Coil Voltage (VDC) : 03, 05, 06, 09, 12, 15, 18, 24, 48, 60									
Number of Poles : 1-1 Pole									
Protective Construction : S-Flux proofed,SH-Sealed type washable									
TypeDesignation : SRD / SRDI									

Notes : (1)All stationary NC contacts specified as :φ3.0mm

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



Unless otherwise specified :

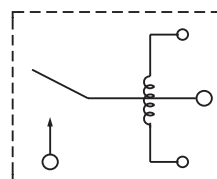
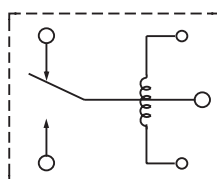
If dimension < 1mm, tolerance : 0.2 mm;

If dimension 1~5mm, tolerance : 0.3 mm;

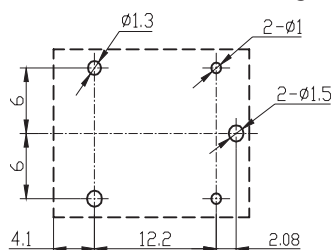
If dimension > 5mm, tolerance : 0.4 mm.

Note : Extended terminal dimension is dimension before soldering.

Tolerance of P.C.B. layout : 0.1 mm.

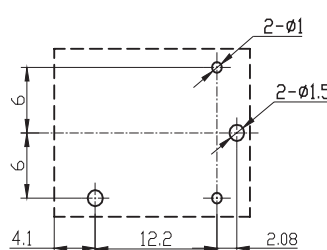


Wiring Diagram (bottom view)



1c

P.C.B. Layout (bottom view)



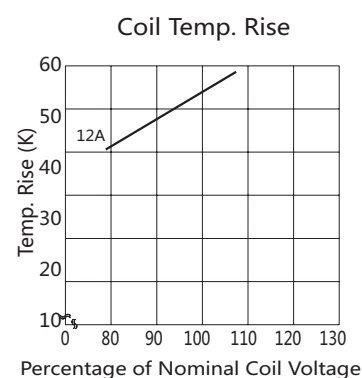
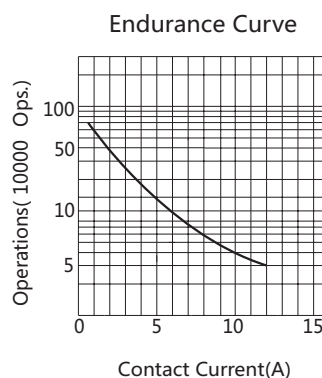
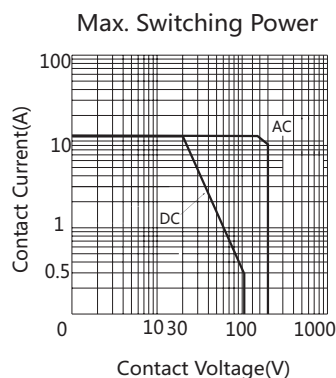
1a

Tolerance of P.C.B. layout : 0.1 mm.

Typical Applications

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

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. For sealed relays after installation and cleaning, please open the vent hole on the case before use. 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.