

Miniature Power Relay

SRD-**Series**



Features

- High contact capability: 12A switching capability.
- Low coil power consumption, low price.
- Microminiature relay, standard PCB terminal.

Safety Approval

UL, C-UL File No.: E190598 TUV File No.: R50142424

CQC File No.: CQC02001002126

VDE File No.: 40034479

Contact Capacity

Model	SRD-DM	SRD-D & SRD-DB	
Nominal switching capacity (res. load)	10A 277 VAC	7A 250VAC	
Max. switching current	15A	12A	
Max. switching voltage	277 VAC	250VAC	
Max. switching power	2,770VA	1,750VA	

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)			
	Between open contacts: AC750V, 50/60Hz 1Min.			
Initial dielectric strength	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 cycles		
	Electrical (at 1,800 ops./h)	100,000 cycles		
Ambient temperature	-40°C ~ +105°C (no condensation)			
Unit weight	Approx. 8.5 g			

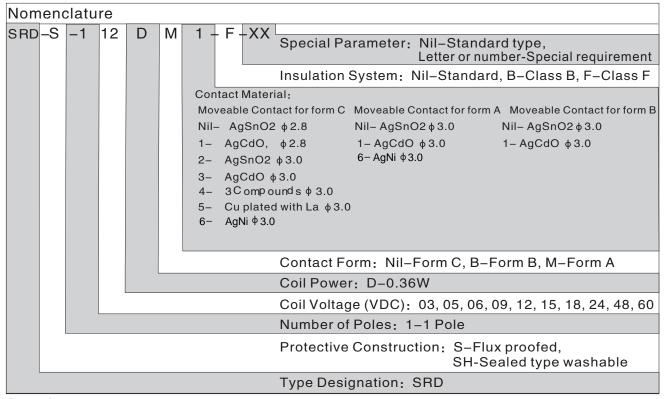
Coil Data (at 20℃)

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		75 % of nominal voltage	5 % of nominal voltage	0.36W
5	71.42	70				
6	60.00	100	130 % of nominal voltage			
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	TUV	VDE	UL/CUL
File No.	CQC02001002126	R50142424	40034479	E190598
	CQC02001002126			<u>'</u>
				10A 250VAC,Resistive&General use,NO Contact 6(Form A or Form C):
				10A 277 VAC,Resistive&General use,NO
				7A 277 VAC,Resistive&General use,NC

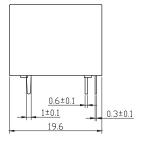
Ordering Information

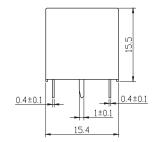


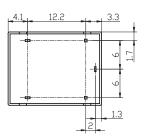
Remark:

- 1. Only "-D2,-D3,-DM"type will have VDE logo on the case
- 2. The diameter of all stationary contacts are \$3.0 mm.

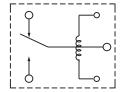
Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)

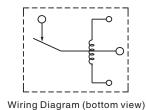


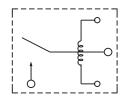


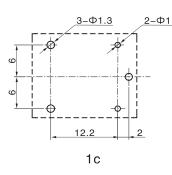


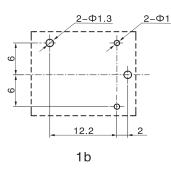
Unless otherwise specified:
If dimension <1mm, tolerance: ±0.2mm;
If dimension 1~5mm, tolerance: ±0.3mm;
If dimension >5mm, tolerance: ±0.4mm.
Note: Extended terminal dimension is dimension before soldering.

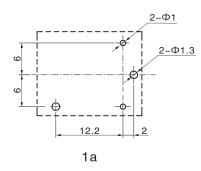












P.C.B. Layout (bottom view)

Tolerance of P.C.B. layout: ±0.1mm.

Typical Applications

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

Characteristic Curves

100 AC(1a)
100 AC(1a)
100 AC(1c)

Max. Switching Power

