

Features

- Miniature relay with high switching capability: 30A.
- Contact form: Form A, Form B or 1Form C.
- Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50 μ S) between coil and contact (DJ, DMJ, DBJ not include Open type) available.
- Sealed type and open type available.
- Patent Number: ZL 2008 20050972.1

Safety Approval

UL, C-UL File No.: E190598
 TUV File No.: R50143450
 CQC File No.: CQC02001002109

Contact Capacity

Model	SLA-DM	SLA-DB	SLA-D
Nominal switching capacity (res. load)	30A 250VAC	15A 250VAC	20A/10A 250VAC
Max. switching current	30A	15A	20A
Max. switching voltage	250VAC	250VAC	250VAC
Max. switching power	7,500VA	3,750VA	5,000VA

Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50m Ω Max.	
Operate time (at nominal volt.)	15msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	1,000M Ω Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,500V, 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 600 ops./h)	100,000
Ambient temperature	-40 $^{\circ}$ C ~ +105 $^{\circ}$ C (no condensation)	
Unit weight	Open type: Approx. 20.0 g	Sealed type: Approx. 24.0 g

Coil Data (at 20 $^{\circ}$ C)

Nominal voltage (VDC)	Nominal operating current \pm 10% (mA)	Coil resistance \pm 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	180.00	27	110 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	Approx. 0.90W
6	150.00	40				
9	100.00	90				
12	75.00	160				
15	60.00	250				
18	50.00	360				
24	37.50	640				
48	18.75	2,560				
110	8.20	13,400				

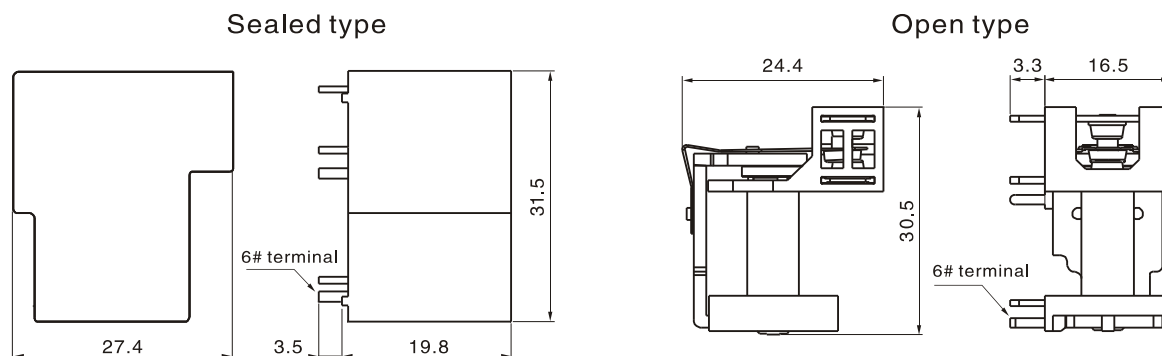
Safety Approval Ratings

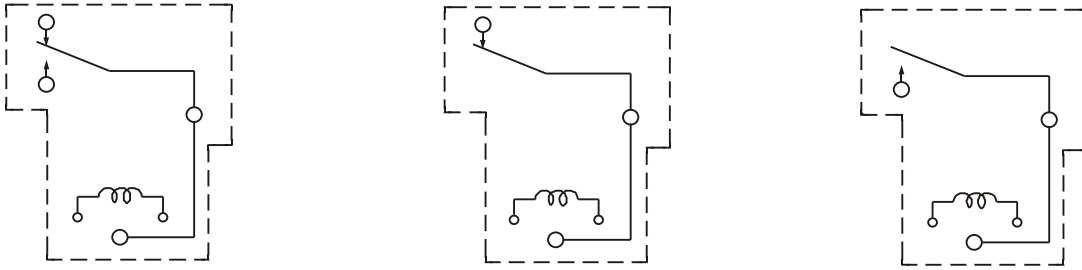
Approval	CQC	TUV	UL/CUL
File No.	CQC02001002109	R50143450	E190598
Approved ratings	<p>Form A: 30A 250VAC</p> <p>Form B: 15A 250VAC</p> <p>Form C: 20A/10A 250VAC</p>	<p>Form A: 30A 240VAC</p> <p>Form B: 15A 240VAC</p> <p>Form C: 20A/10A 240VAC</p>	<p>Form A: 40A 277VAC, Resistive 30A 240VAC, Resistive 15A 240VAC 1-1/2HP 240VAC 3/4 HP 120VAC TV-8 120VAC 30A 240VAC, General Use Pilot duty: 470 VA, 240VAC Electronic Ballast: 10A 277VAC/120VAC</p> <p>Form B: 30A 120VAC, General Use 10A 240VAC, Resistive 10A 240VAC, General Use Pilot duty: 275VA, 240VAC Electronic Ballast: 5A, 277VAC/120VAC</p> <p>Form C: N.O. N.C. 20A 240VAC, Resistive 10A 240VAC, Resistive 1-1/2HP 240VAC 3/4HP 125VAC TV-8 120VAC 20A 240VAC, General Use Pilot Duty: 470VA 240VAC Electronic Ballast: 10A 277VAC/120VAC</p> <p>10A 240VAC, Resistive 1/2HP 240VAC 1/4HP 125VAC TV-3 120VAC 10A 240VAC, General Use Pilot Duty: 275VA 240VAC Electronic Ballast: 5A 277VAC/120VAC</p>

Ordering Information

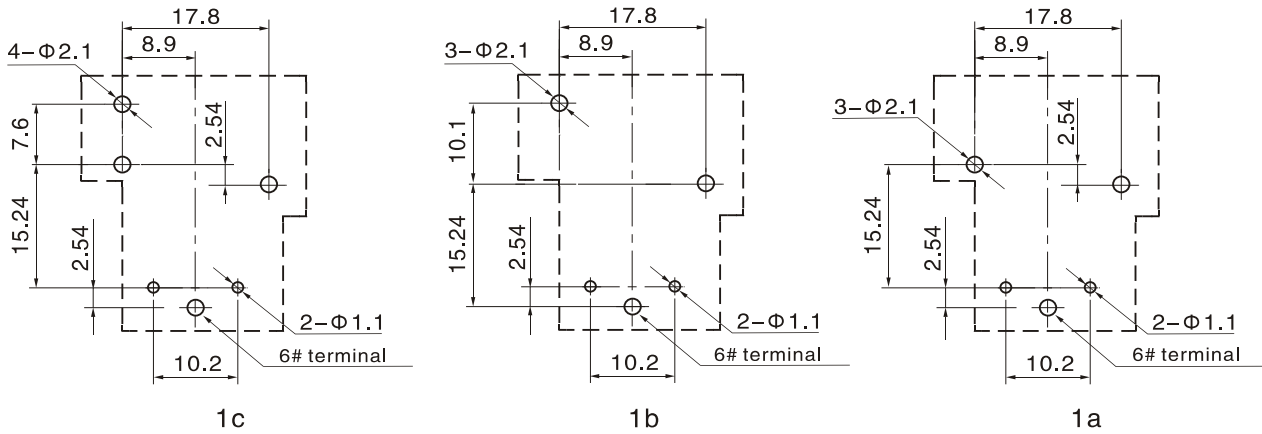
Nomenclature	
SLA-S-1 12 D M J 1-F-XX	Special Parameter: Nil-Standard type, Letter or number-Special requirement
	Insulation System: Nil-Standard, B-Class B, F-Class F
	Contact Material: Nil-AgSnO ₂ , 1-AgCdO
	Terminal Type: Nil-Standard, J-Without 6# terminal
	Contact Form: Nil-Form C, B-Form B, M-Form A
	Coil Power: D-0.90W
	Coil Voltage (VDC): 05, 06, 09, 12, 15, 18, 24, 48, 110
	Number of Poles: 1-1 Pole
	Protective Construction: Nil-Open type, S-Flux proofed, SH-Sealed type washable
	Type Designation: SLA

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





Wiring Diagram (bottom view)



P.C.B. Layout (bottom view)

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: 1. Extended terminal dimension is dimension before soldering.
 2. Tolerance of P.C.B. layout: ± 0.1 mm.

Typical Applications

- Car
- Air conditioner
- Heater and ventilation equipment
- Home appliances

Characteristic Curves

