



Features

- 5A switching capability.
- Double insulation, high stability.
- Dielectric strength: 3000V.
- Sealed type available.

Safety Approval

UL, C-UL File No.: E179745

TUV File No.: R50142421

CQC File No.: CQC08001024212

Contact Capacity

Model	SMC
Nominal switching capacity (res. load)	5A 250VAC
Max. switching current	5A
Max. switching voltage	250VAC
Max. switching power	1,250VA

Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt.)	20msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,000V, 50/60Hz 1Min.	
	Between coil and contact: AC3,000V, 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 1,800 ops./h)	100,000
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Approx. 14.5 g	

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	180.00	17	130 % of nominal voltage	75 % of nominal voltage	10 % of nominal voltage	Approx. 0.54W
5	108.00	46				
6	90.00	67				
9	60.00	150				
12	45.00	267				
18	30.00	600				
24	22.50	1,067				
48	11.25	4,267				

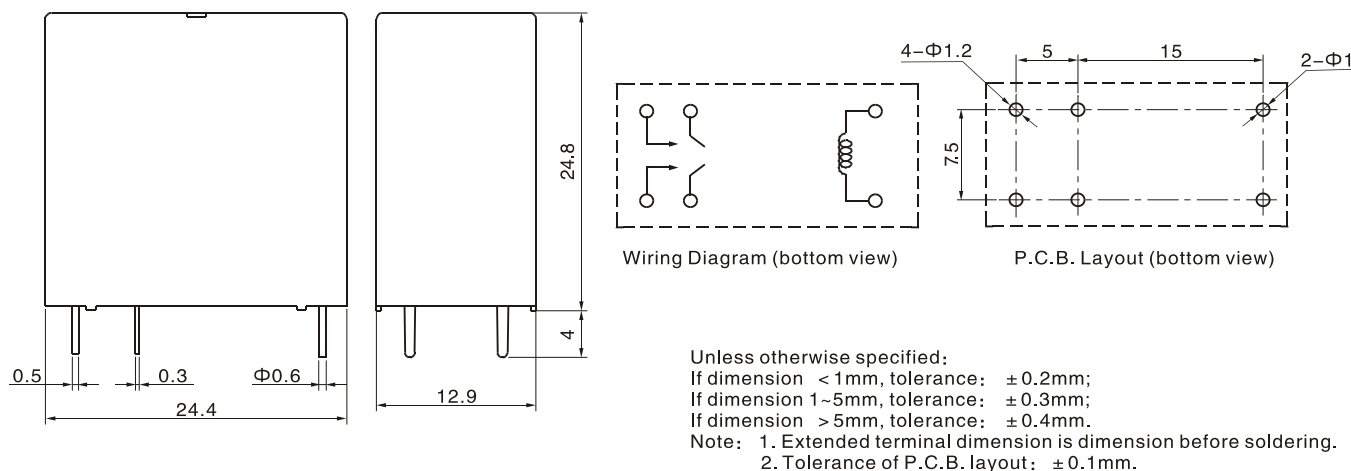
Safety Approval Ratings

Approval	CQC	TUV	UL/CUL
File No.	CQC08001024212	R50142421	E179745
Approved ratings	5A 250VAC	5A 250VAC 5A 30VDC	5A 240VAC, Resistive 5A 30VDC, Resistive 2A 240VAC, General use

Ordering Information

Nomenclature	
SMC-S	Special Parameter: Nil-Standard type, Letter or number-Special requirement
-2	Insulation System: Nil-Standard, B-Class B, F-Class F
12	Contact Material: Nil-AgSnO ₂ , 1-AgCdO
D	Contact Form: M-Form A
M	Coil Power: D-0.54W
1	Coil Voltage (VDC): 03, 05, 06, 09, 12, 18, 24, 48
F-XX	Number of Poles: 2-2 Poles
	Protective Construction: S-Flux proofed, SH-Sealed type washable
	Type Designation: SMC

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



Typical Applications

- Home appliances, monitor, industrial control equipment, instrument

Characteristic Curves

