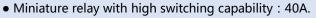


Miniature Power Relay

SLG





• Contact form: Form A or Form C.

• Special type of 4000VAC dielectric strength and 6000V surge voltage (1.2/50µ S) between coil and contact available.

• IEC60335-1 compliance product is available.

Safety certificate

UL、cUL (File No.): E190598 TUV (File No.): R50143450

CQC (File No.):

CQC02001002109、CQC10002050461、CQC21002306488

Contact Data						
Туре	SLG					
Rated load (Resistive load)	40A 250VAC					
Max. switching current	40A					
Max. switching voltage	277VAC					
Max. switching power	11080VA					
Characteristics						
Contact material	Silver alloy					
Contact resistance	100mΩ Max. (1A 24VDC)					
Operate time (at rated coil voltage)	15ms Max. (No diode)					
Release time	10ms Max. (No diode)					
Insulation resistance	Min. 1,000M Ω (at 500VDC)					
Dielectric strength	Between open contacts :	1,500VAC , 50/60Hz for 1min.				
	Between coil and contact:	2,500VAC , 50/60Hz for 1min.(4KV available)				
Vibration resistance	Destructive	$10 \sim 55$ Hz, at double amplitude of 1.5mm.				
	Function	10~55Hz, at double amplitude of 1.5mm.				
Shock resistance	Destructive	100G Min.				
	Function	10G Min.				
Endurance	Mechanical endurance(at 10,800ops./h)	10,000,000 cycles(at room temperature)				
Lituuraile	Electrical endurance(at 360 ops./h)	30,000 cycles(at room temperature)				
Ambient temperature	-40°C ~ +75°C (No condensation)					
Weight	Approx.24.0g					

Coil Data (at 20℃)							
Nominal voltage (VDC)	Nominal operating current ±10%(mA)	Coil resistance ±10%(Ω)	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power	
5	180.00	27	130% of nominal voltage	75% of nominal voltage	5% of nominal voltage	0.9W	
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					

The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

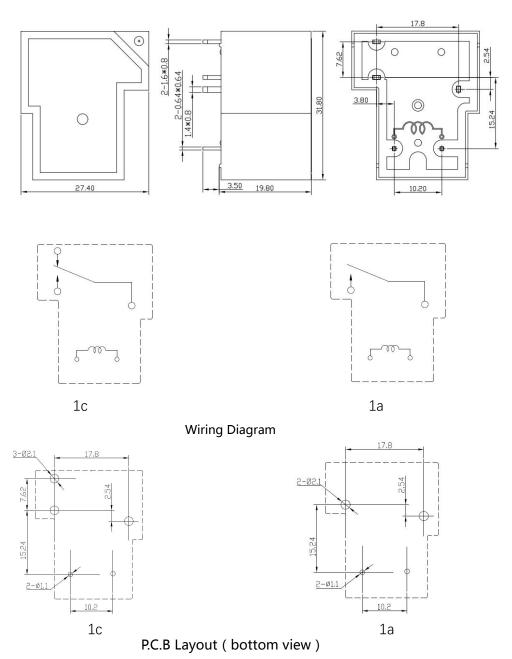
Safety Certificate Ratings (More details of approved ratings, please refer to the safety certificates)

Certificates	cQc	UL/cUL	TUV
File No	CQC02001002109 CQC10002050461 CQC21002306488	E190598	R50143450
Approved ratings	40A 125VAC/250VAC/277VAC	40A 125VAC/250VAC/277VAC Resistive & General Use	40A 125VAC/250VAC/277VAC

- (1) All values unspecified are at room temperature
- (2) Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.
- (3) For sealed type testing, please open the ventilation hole in the case before test.

Ordering Information Nomenclature -XX SLG -S -1 12 D М Special Parameter: Nil-Standard type, Letter or number-Special requirement Insulation System: Nil-Class F, F - Class F Contact material: Nil-AgSnO2 Contact Form: Nil-Form C, M-Form A Coil power: D-0.9W Rated coil voltage(VDC): 05,06,09,12,15,18,24,48,110 Number of poles: 1-1 Pole Protective Construction: S-Flux proofed SH-Sealed type washable SS-Sealed type unwashable Type: SLG

Outline dimension, wiring diagram, PCB layout (Unit: mm)



In case of no tolerance shown on outline dimension

 $\label{lem:continuous} If dimension < 1 mm, tolerance : \pm 0.2 mm \\$ If dimension 1~5 mm, tolerance : \pm 0.3 mm \\ If dimension > 5 mm, tolerance : \pm 0.4 mm

Note:

1. The dimension of pin is the size before tinning

2.Tolerance of PCB layout : ± 0.1 mm.

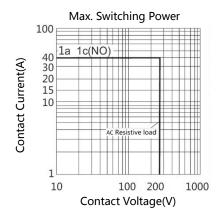
Typical Applications

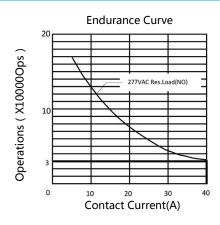
Car

UPS

•Charging Pile

Characteristic Curves



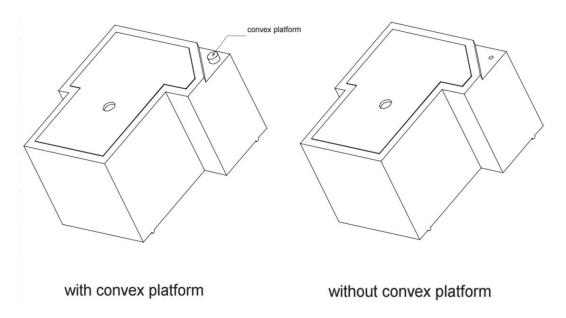


Note:

- (1) Test conditions: room temperature, flux-proof product, resistive load, 1s on, 9s off.
- (2)The above curves are for reference only, and the final result is subject to the experiment.

Note:

If you choose the sealed type, before using, please remove the convex platform at the top of the case to ensure the normal performance of the relay after the completion of a PCB operations, they are as shown in the following diagram:



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.