

Features:

- Micro-miniature relay.
- High sensitive:200mW.
- High reliability gilt contact.
- Sealed type construction.

Typical applications:

- Telecommunication equipment.
- Office equipment.
- Home appliances.
- Audio equipment,etc.

Approvals

UL, c-UL (File No.): E179745

CQC (File No.): CQC02001002118

Contact Data

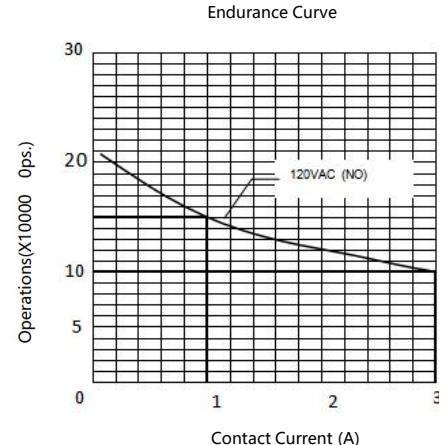
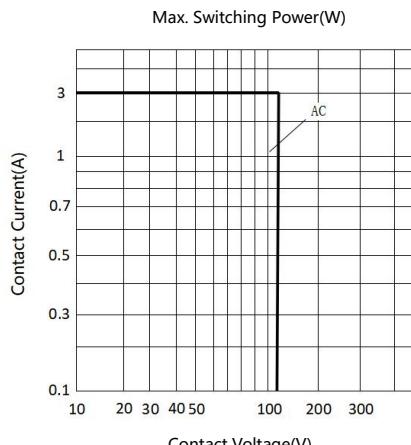
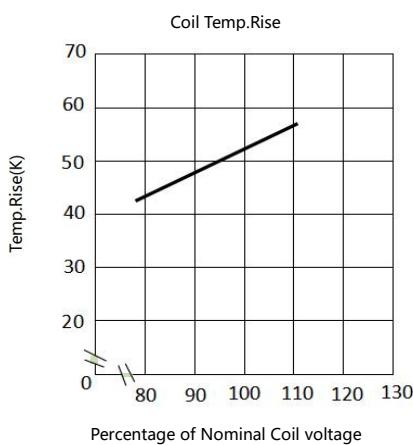
Contact arrangement	1form C (CO)
Contact resistance	100m Ω Max.(at 1A 6VDC)
Rated voltage	120VAC
Max.switching voltage	125VAC
Rated current	3A
Min. recommended contact load	1A, 6VDC
Breaking capacity max.	360VA
Contact material	AgNi
Frequency of operation	1800 ops./h
Operate/release time max.	10ms/4ms
Electrical endurance	See electrical endurance graph

Contact ratings

Type	Contact	Load	Cycles
UL 508			
SYS1K	NO	3A,120VAC	6×10^3
GB/T 21711.1-2023			
SYS1K	NO	3A,125VAC,70°C	2×10^4
Mechanical endurance			$\geq 1 \times 10^7$

Coil Data

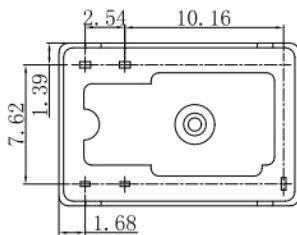
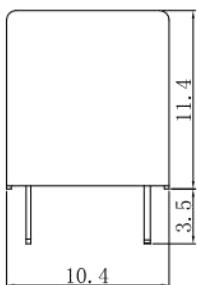
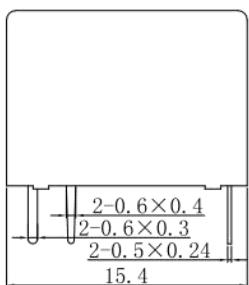
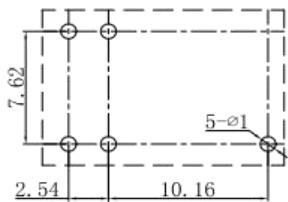
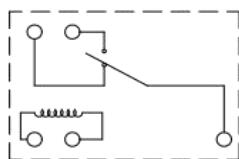
Coil voltage range:	5 to 24 VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F
Coil versions, DC coil	
Rated voltage VDC	Operate voltage VDC
5	≤ 3.75
6	≤ 4.5
9	≤ 6.75
12	≤ 9
24	≤ 18
Rated voltage VDC	Release voltage VDC
5	≥ 0.6
6	≥ 0.9
9	≥ 1.2
12	≥ 1.5
24	≥ 1.8
Rated voltage VDC	Coil resistance Ω (1±10%)
5	125
6	180
9	405
12	720
24	2880
Rated voltage VDC	Rated coil powers mW
5	200
6	200
9	200
12	200
24	200

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.

Dimensions

Wiring Diagrams (bottom view)

PCB Layouts (bottom view)


In case of no tolerance shown on outline dimension
 If dimension < 1 mm, tolerance: $\pm 0.2\text{mm}$
 If dimension 1~5mm, tolerance: $\pm 0.3\text{mm}$
 If dimension > 5mm, tolerance: $\pm 0.4\text{mm}$

Notes:

- 1.The dimension of pin is the size before tinning
- 2.Tolerance of PCB layout: $\pm 0.1\text{ mm}$.

Product Code Structure

SYS1K	-S	-1	12	D	-F	-XX	Special Parameter: Nil-Standard type, Letters or Numbers - Special requirements
							Insulation System : Nil - Standard B - Class B F - Class F
							Coil Power: Nil-0.45W D-0.36W L-0.20W
							Coil Voltage (VDC): 03, 05, 06, 09, 12, 24
							Number of Poles: 1-1 Pole
							Protective construction: S- Flux-proof SH-Sealed type washable
							Type: SYS1K

- (1) Flux-proof relays can not be used in the environment with pollutants like H_2S , SO_2 , NO_2 , dust, etc.
- (2) Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.
- (3) Customized special suffix is available after being evaluated by Sanyou.

Examples of Ordering Codes

SYS1K-S-112L relay SYS1K, Flux-proof, rated DC voltage 12V, coil power 0.2W, 1CO, and contact material AgNi.

Disclaimer

The specification is for reference only. Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications. Thus the users should be in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use. If there is any query, please contact Sanyou for technical services. However it is the user's responsibility to determine which product should be used.