

**SERIES:** PR12 | **DESCRIPTION:** POWER RELAY

**FEATURES**

- 5V/12V/24V
- SPST & SPDT
- 360 mW

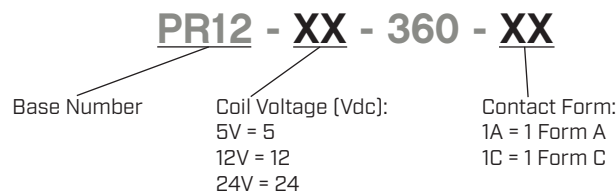


**MODEL**

	coil voltage	coil resistance	operating voltage	release voltage	coil power
	typ [Vdc]	( $\Omega \pm 10\%$ )	min [Vdc]	max [Vdc]	max [mW]
PR12-5V-360-1A	5	70	3.5	0.5	360
PR12-12V-360-1A	12	400	8.4	1.2	360
PR12-24V-360-1A	24	1,600	16.8	2.4	360
PR12-5V-360-1C	5	70	3.5	0.5	360
PR12-12V-360-1C	12	400	8.4	1.2	360
PR12-24V-360-1C	24	1,600	16.8	2.4	360

Notes: 1. All specifications are measured at 23°C unless otherwise specified.

**PART NUMBER KEY**



## CONTACT SPECIFICATIONS

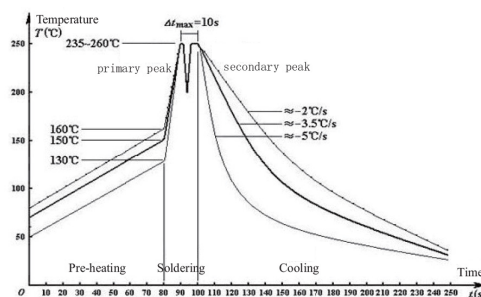
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A: 10 A @ 250 Vac 1 Form C: NO/NC: 10 A / 6 A @ 250 Vac, 10 A / 6 A @ 24 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 28	Vac Vdc
max switching current				15	A
max switching power				2,500 280	VA W
min switching load	5 Vdc, 100 mA				
life	electrical mechanical		100,000 10,000,000		operations operations

## GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc	1,000			MΩ
dielectric strength	between open contacts for 1 minute between coil and contacts for 1 minute		750 1,500		Vac Vac
operate time				10	ms
release time				5	ms
shock resistance	endurance misoperation		1,000 100		m/s <sup>2</sup> m/s <sup>2</sup>
vibration resistance	endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude				
operating temperature		-40		85	°C
humidity	at 40°C	35		95	%RH
weight			10.0		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	box: 250 pcs per box carton size: 323 x 221 x 280 mm carton QTY: 1,000 pcs per carton				

## SOLDERABILITY

parameter	conditions/description	min	typ	max	units
hand soldering	for 3.5±0.5 seconds	340	350	360	°C
wave soldering	for 10±1 seconds	255	260	265	°C

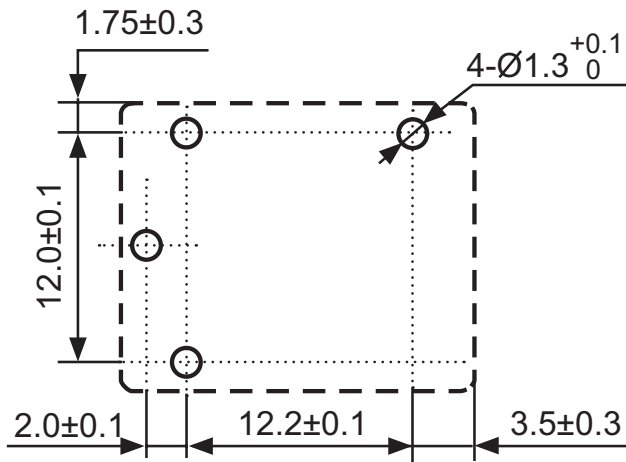
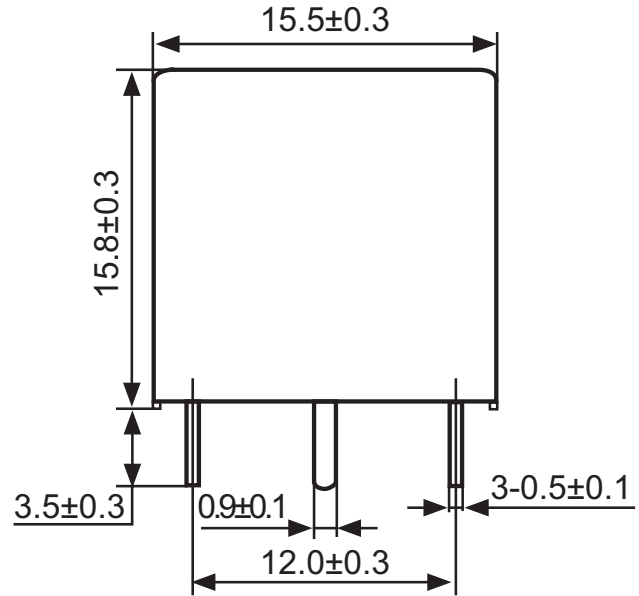
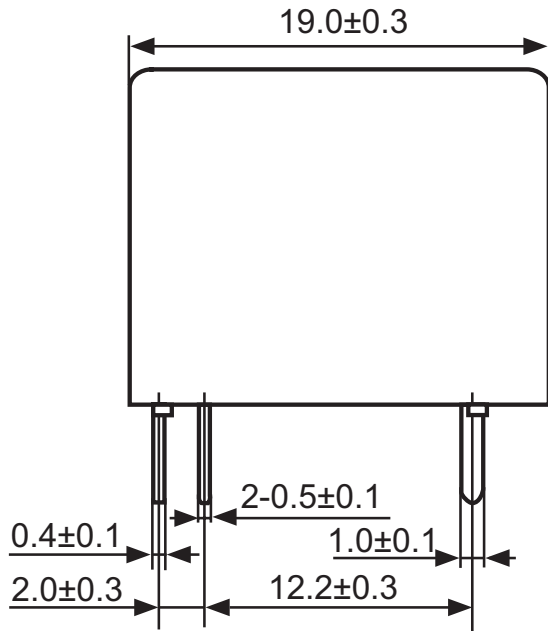


Double-wave Soldering Curve

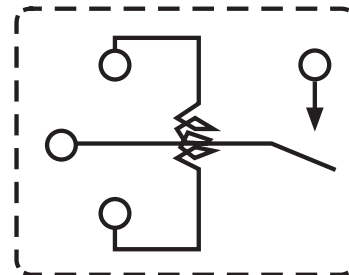
## MECHANICAL DRAWING (1A = 1 FORM A)

units: mm  
 tolerance:  $\pm 0.3$  mm  
 unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT [UL94V-0]	black
B	terminals	copper covered steel	tin



Recommended PCB Layout  
 Bottom View

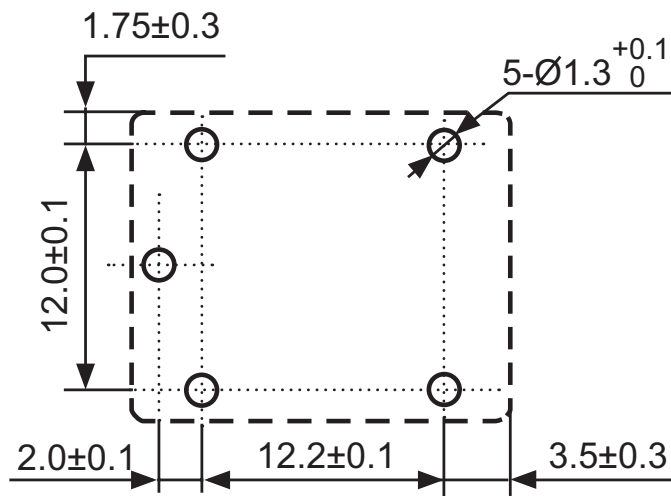
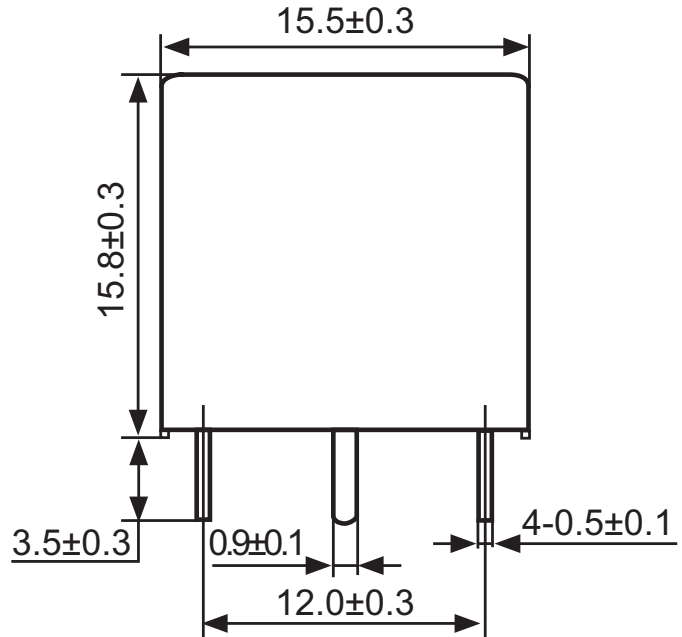
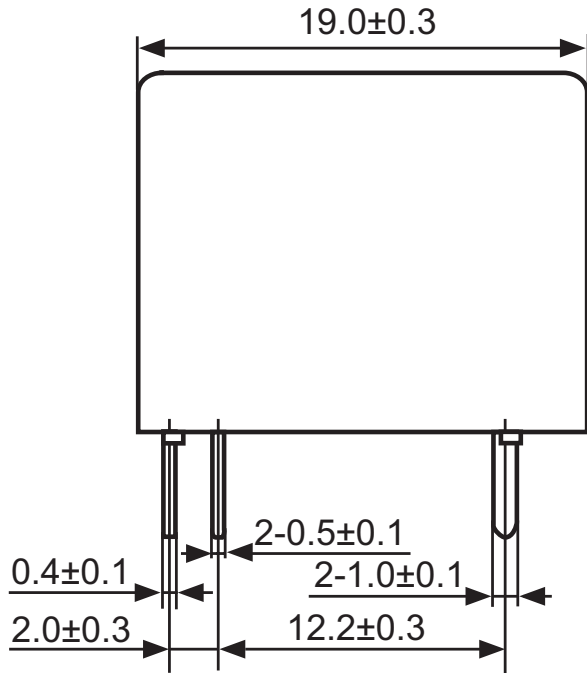


Wiring Diagram  
 Bottom View

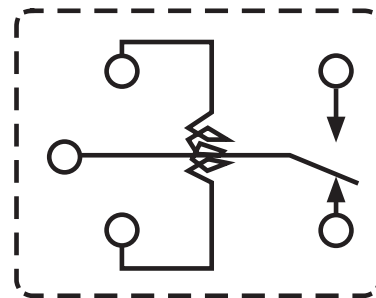
## MECHANICAL DRAWING (1C = 1 FORM C)

units: mm  
 tolerance:  $\pm 0.3$  mm  
 unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT [UL94V-0]	black
B	terminals	copper covered steel	tin



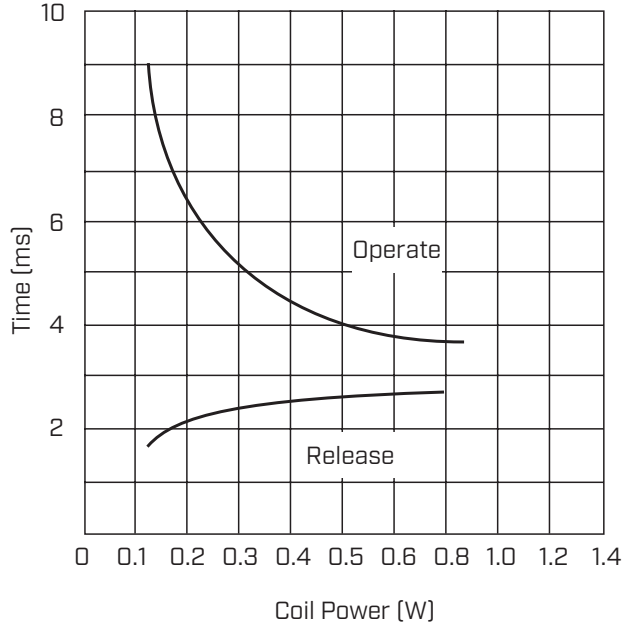
Recommended PCB Layout  
Bottom View



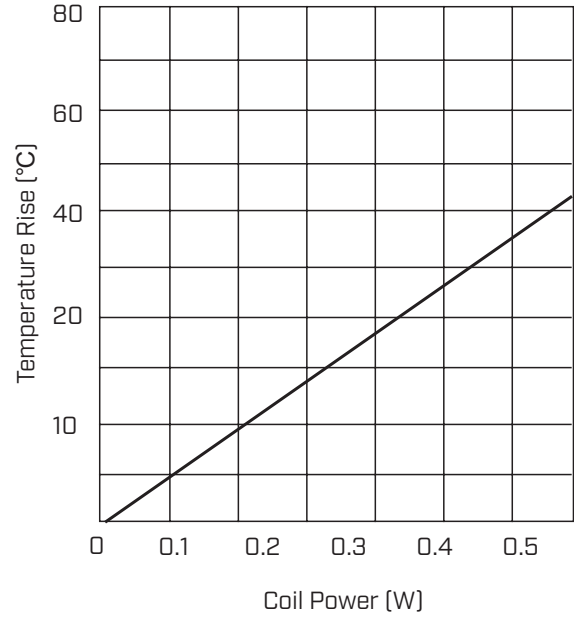
Wiring Diagram  
Bottom View

## CHARACTERISTIC CURVES

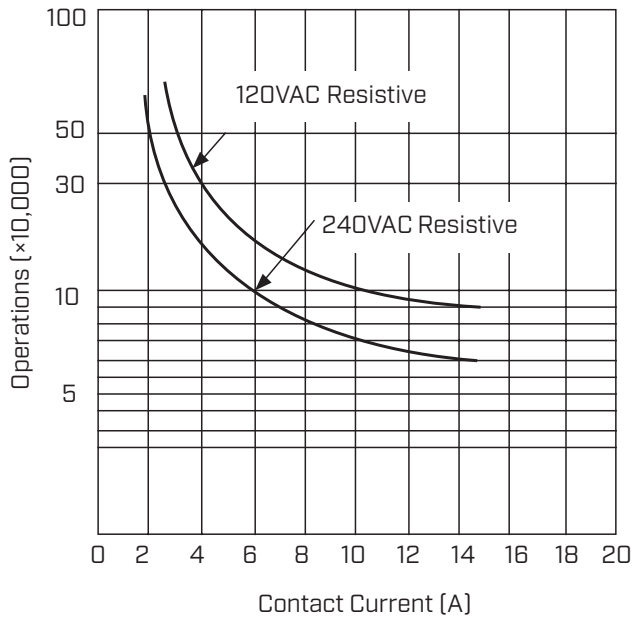
Time Curve



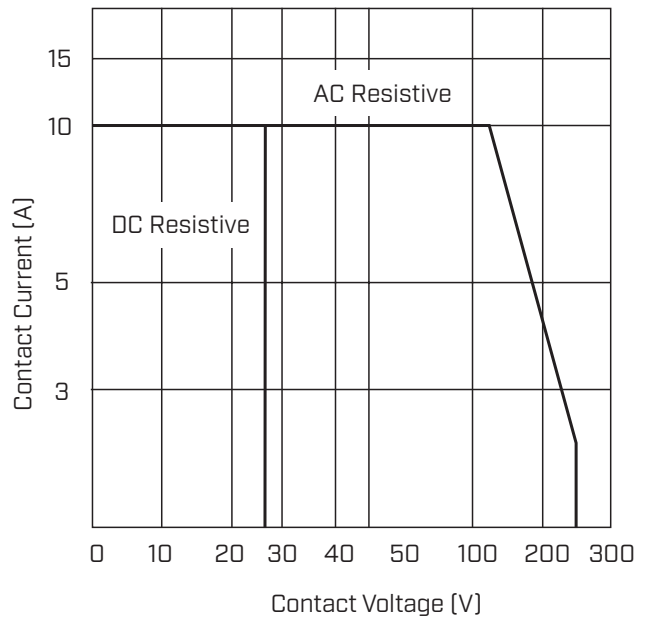
Coil Temperature Rise



Life Curve



Maximum Switching Power



## REVISION HISTORY

rev.	description	date
1.0	initial release	08/08/2022
1.01	CUI Devices rebranded to Same Sky	09/12/2024

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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