

**date** 08/08/2022

page 1 of 6

## SERIES: PR12 | DESCRIPTION: POWER RELAY

#### **FEATURES**

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





MODEL	coil voltage	coil resistance	operating voltage	release voltage	coil power
	<b>typ</b> (Vdc)	(Ω±10%)	<b>min</b> (Vdc)	max (Vdc)	<b>max</b> [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**

<u>PR12</u> - <u>XX</u> - 360 - <u>XX</u>

Base Number

Coil Voltage (Vdc): 5V = 5

12V = 12 24V = 24

/ = 5 V = 12 Contact Form: 1A = 1 Form A

1C = 1 Form C

## **CONTACT SPECIFICATIONS**

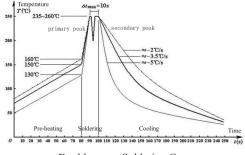
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A: 10 A @ 250 Vac 1 Form C: NO/NC: 10 A / 6 A @ 250 Vac, 10 A / 6 A @ 24 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 28	Vac Vdc
max switching current				15	А
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			МΩ
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/s² m/s²
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

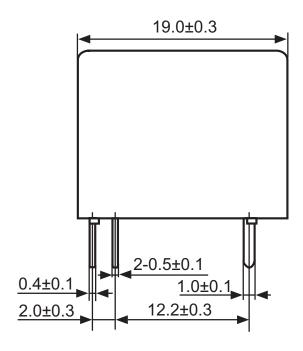


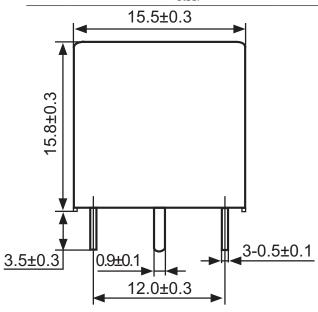
Double-wave Soldering Curve

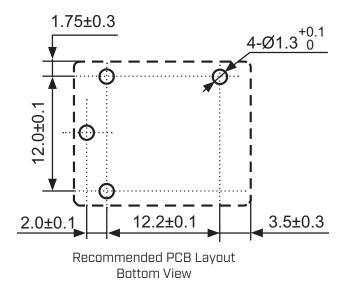
# MECHANICAL DRAWING (1A = 1 FORM A)

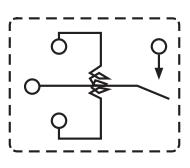
units: mm tolerance: ±0.3 mm unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
Α	housing	PBT (UL94V-0)	black
В	terminals	copper covered steel	tin







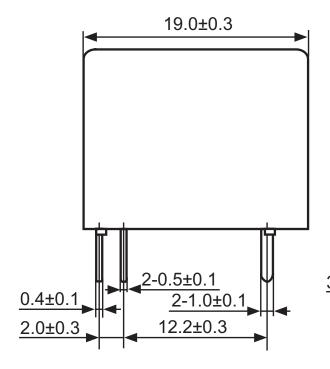


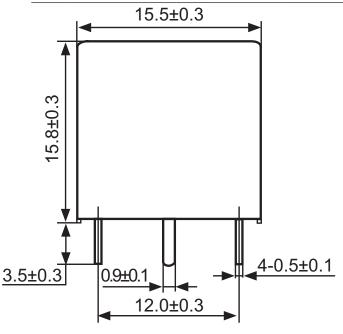
Wiring Diagram Bottom View

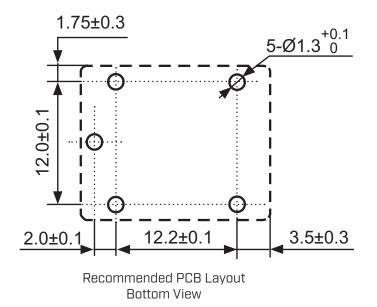
# MECHANICAL DRAWING (1C = 1 FORM C)

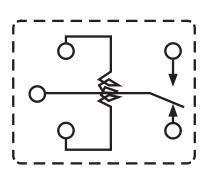
units: mm tolerance: ±0.3 mm unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
Α	housing	PBT (UL94V-0)	black
В	terminals	copper covered steel	tin



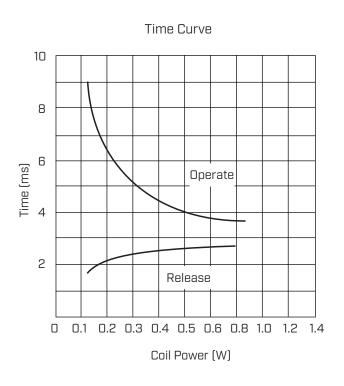


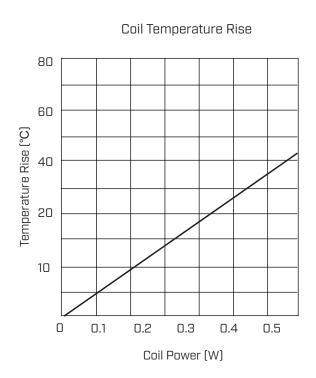


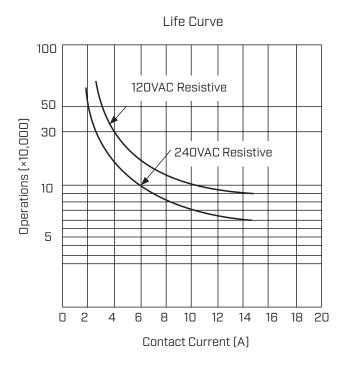


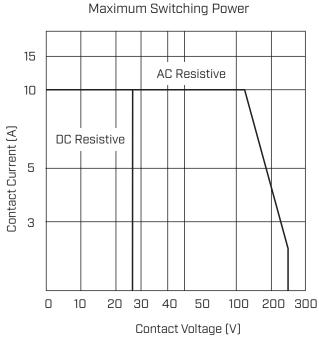
Wiring Diagram Bottom View

## **CHARACTERISTIC CURVES**









#### **REVISION HISTORY**

rev.	description	date
1.0	initial release	08/08/2022

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



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

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