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SERIES: PR24 | DESCRIPTION: POWER RELAY

FEATURES

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





MODEL	coil voltage	coil resistance	operating voltage	release voltage	coil power
	typ (Vdc)	(Ω±10%)	min (Vdc)	max (Vdc)	max (mW)
PR24-5V-900-1A	5	27.8	3.5	0.5	900
PR24-12V-900-1A	12	160	8.4	1.2	900
PR24-24V-900-1A	24	640	16.8	2.4	900
PR24-5V-900-1C	5	27.8	3.5	0.5	900
PR24-12V-900-1C	12	160	8.4	1.2	900
PR24-24V-900-1C	24	640	16.8	2.4	900

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

PART NUMBER KEY

PR24 - XX - 900 - XX Base Number Coil Voltage (Vdc): Contact Form: 5V = 5 1A = 1 Form A

12V = 12

24V = 24

1C = 1 Form C

CONTACT SPECIFICATIONS

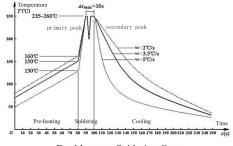
parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A: 40 A @ 125 Vac, 40 A @ 24 Vdc 1 Form C: NO/NC: 40 A / 30 A @ 125 Vac, 40 A / 30 A @ 24 Vdc				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
max switching voltage				250 28	Vac Vdc
max switching current				40	А
max switching power				7,500 560	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			1,500 2,500		Vac Vac
operate time				15	ms
release time				10	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	dity at 40°C 35		95	%RH	
weight		27.0		g	
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tray: 50 pcs per tray carton size: 438 x 345 x 241 mm carton QTY: 500 pcs per carton				

SOLDERABILITY

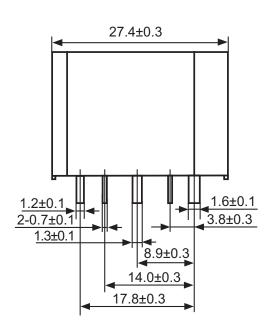
parameter	conditions/description	min	typ	max	units
hand soldering	for 3.5±0.5 seconds	340	350	360	°C
wave soldering	for 10±1 seconds	255	260	265	°C



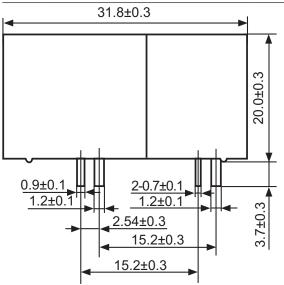
Double-wave Soldering Curve

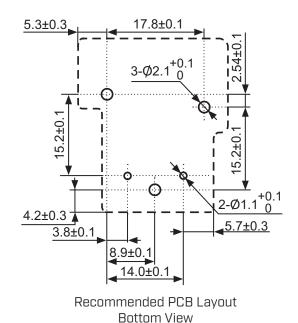
MECHANICAL DRAWING (1A = 1 FORM A)

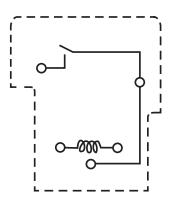
units: mm tolerance: ±0.3 mm unless otherwise noted



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





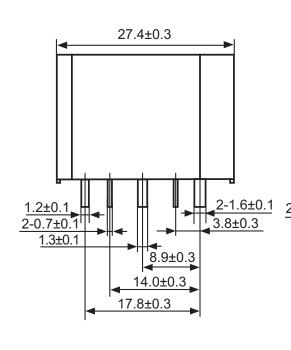


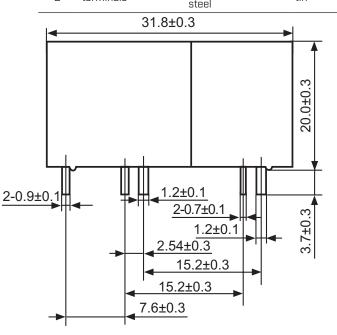
Wiring Diagram Bottom View

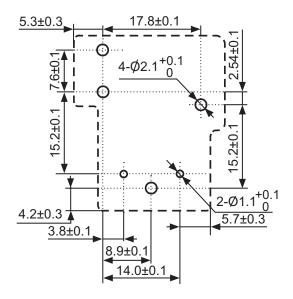
MECHANICAL DRAWING (1C = 1 FORM C)

units: mm tolerance: ±0.3 mm unless otherwise noted

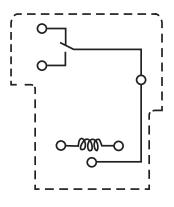
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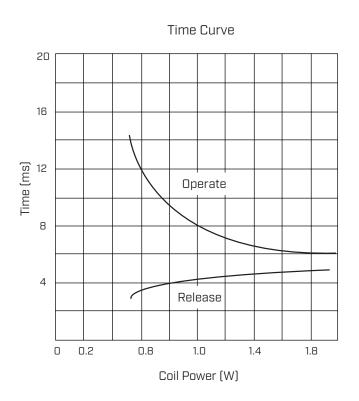


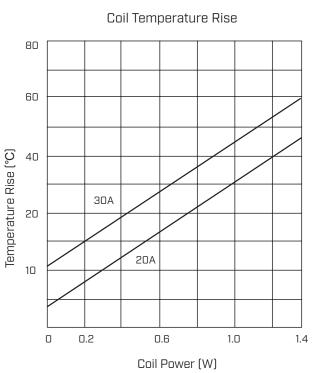
Recommended PCB Layout Bottom View

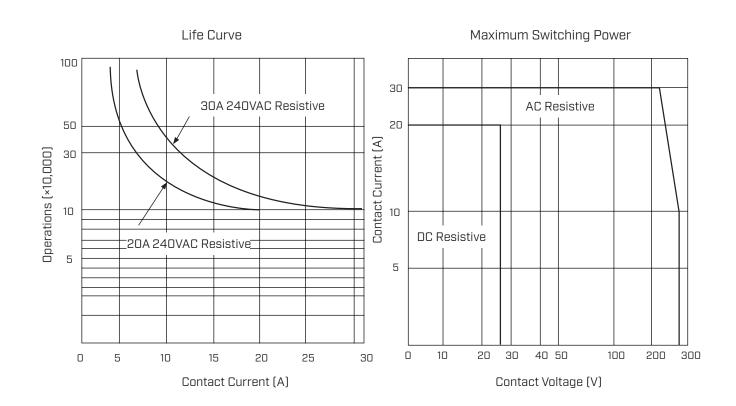


Wiring Diagram Bottom View

CHARACTERISTIC CURVES







Additional Resources: Product Page | 3D Model | PCB Footprint

CUI DEVICES | SERIES: PR24 | DESCRIPTION: POWER RELAY

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REVISION HISTORY

rev.	description	date
1.0	initial release	08/15/2022

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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