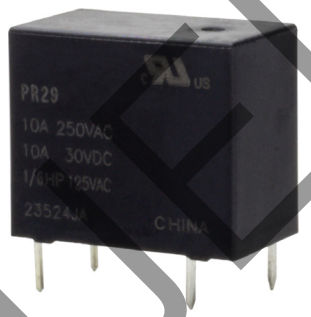
CUI Devices is now Same Sky! Learn More

SERIES: PR29 | DESCRIPTION: POWER RELAY

FEATURES

- 10 amp
- 1 Form A
- class B & class F



MODEL

	coil voltage typ (Vdc)	coil resistance (Ω±10%)	operating voltage[1] min (Vdc)	release voltage max (Vdc)	continuous voltage max (Vdc)	coil power max (mW)
PR29-3V-S-450	3	20	2.1	0.15	3.9	450
PR29-5V-S-450	5	55	3.5	0.25	6.5	450
PR29-6V-S-450	6	80	4.2	0.30	7.8	450
PR29-9V-S-450	9	180	6.3	0.45	11.7	450
PR29-12V-S-450	12	320	8.4	0.60	15.6	450
PR29-18V-S-450	18	720	12.6	0.90	23.4	450
PR29-24V-S-450	24	1,280	16.8	1.20	31.2	450

Notes: 1. Relay may pull in with less than operating voltage.
2. All specifications are measured at 20°C unless otherwise specified.

PART NUMBER KEY

PR29 - XX - S - 450 - 1A - X X

- PR29 — Base Number
- XX — Coil Voltage (Vdc):
  - 3V = 3
  - 5V = 5
  - 6V = 6
  - 9V = 9
  - 12V = 12
  - 18V = 18
  - 24V = 24
- X — Sealing:
  - "blank" = Flux Protection
  - E = Epoxy Sealed
- X — Coil Insulation:
  - "blank" = Class B
  - F = Class F

DISCONTINUED

COIL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
coil power	nominal at pickup voltage		450 200		mW mW
coil power continous dissipation	at 20°C			760	mW
temperature rise	at nominal coil voltage		41		K

CONTACT SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
contact form	1 Form A				
contact material	$AgSnO_2$ (silver tin oxide)				
contact rating	10 A @ 250 Vac 10 A @ 30 Vdc 1/6 HP @ 125 Vac				
contact resistance				100	mΩ
max switching voltage				250 30	Vac Vdc
max switching current				10	A
max switching power	Vac Vdc			2,500 300	VA W
life	electrical mechanical	100,000 10,000,000			operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc, 20 °C, 50% RH	1,000			MΩ
dielectric strength	between open contacts at sea level for 1 minute between coil and contacts at sea level for 1 minute		1,000 4,000		Vrms Vrms
operate time	at nominal coil voltage			8	ms
release time	at nominal coil voltage, without coil suppression			4	ms
operating temperature	Class B models at nominal coil voltage Class F models at nominal coil voltage	-40 -40		85 105	°C °C
storage temperature		-40		105	°C
weight			6		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tray: 100 pcs per tray carton QTY: 1,000 pcs per carton				

SOLDERABILITY

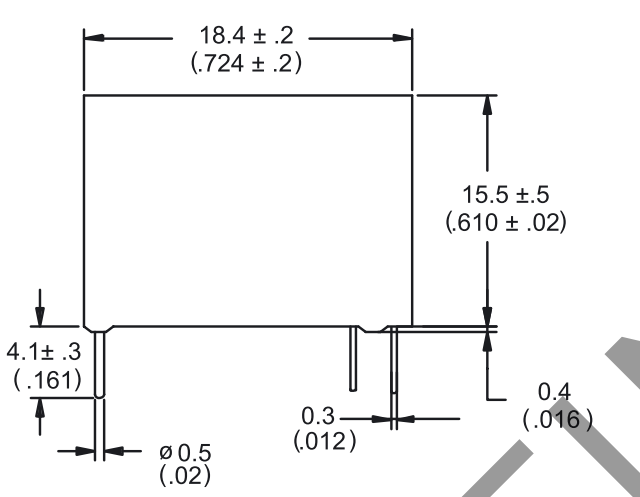
parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds			270	°C
washable	only on epoxy sealed models max imersion time of 30 seconds			80	°C

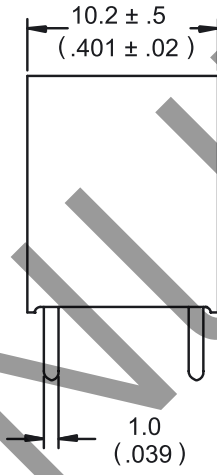
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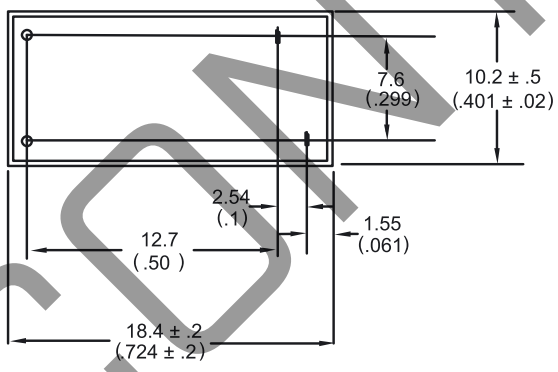
MECHANICAL DRAWING

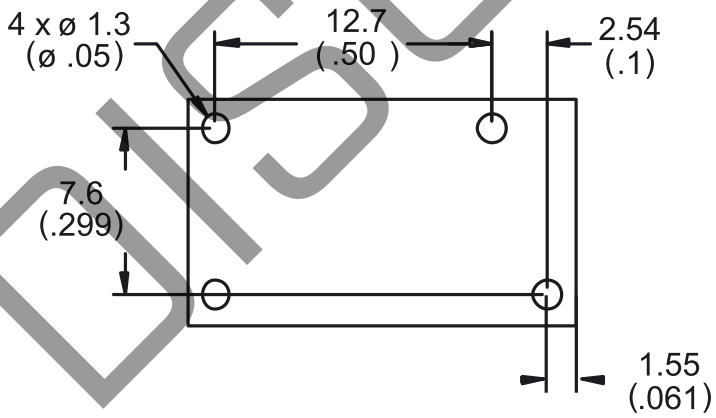
units: mm [inch]
tolerance: ±0.254 mm
unless otherwise noted

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PBT (UL94V-0)	black
terminals	copper alloy	tin









Recommended PCB Layout
Bottom View

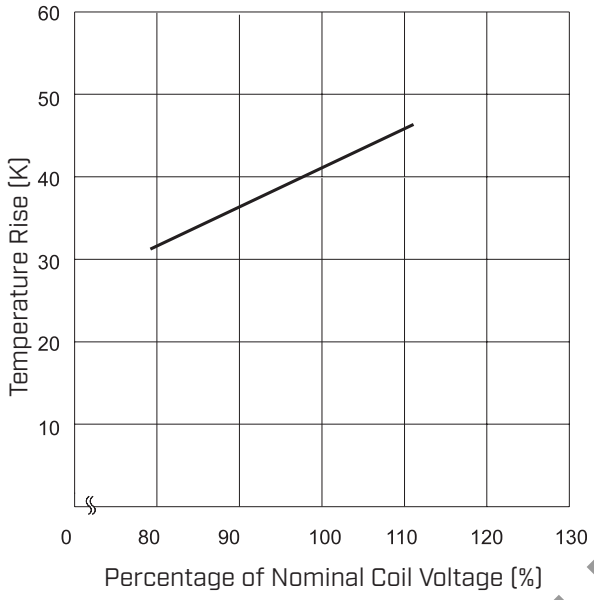


Wiring Diagram
Bottom View

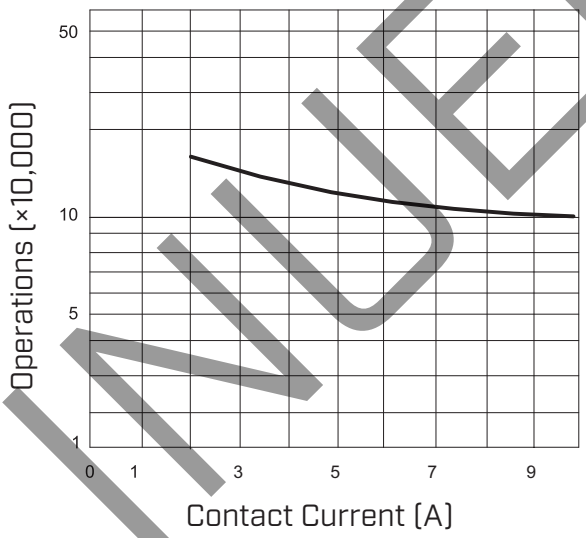
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CHARACTERISTIC CURVES

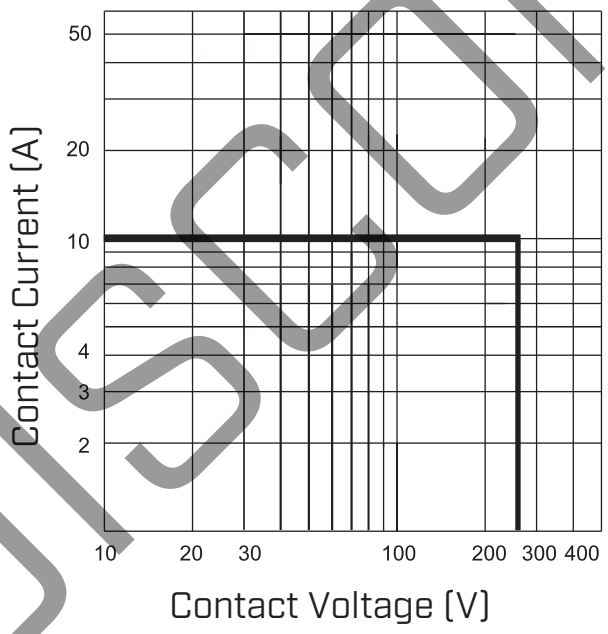
Coil Temperature Rise



Life Curve



Maximum Switching Power



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REVISION HISTORY

rev.	description	date
1.0	initial release	02/14/2024
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.

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same sky

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