

# SERIES: PRE29 | DESCRIPTION: POWER RELAY

#### FEATURES

- 5 amp
- 1 form A
- class B & class F





MODEL	coil voltage typ (Vdc)	<b>coil</b> resistance (Ω±10%)	<b>operating</b> voltage <sup>1</sup> min (Vdc)	release voltage max (Vdc)	continuous voltage max (Vdc)	<b>coil</b> power max (mW)
PRE29-3V-S-450	З	20	2.1	0.15	3.9	450
PRE29-5V-S-450	5	55	3.5	0.25	6.5	450
PRE29-6V-S-450	6	80	4.2	0.30	7.8	450
PRE29-9V-S-450	9	180	6.3	0.45	11.7	450
PRE29-12V-S-450	12	320	8.4	0.60	15.6	450
PRE29-18V-S-450	18	720	12.6	0.90	23.4	450
PRE29-24V-S-450	24	1,280	16.8	1.20	31.2	450
PRE29-48V-S-450	48	5,120²	33.6	2.4	62.4	450

Relay may pull in with less than operating voltage.
Coil resistance tolerance is ±15%.

All specifications are measured at 20°C unless otherwise specified.

#### PART NUMBER KEY

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Notes:



Base Number

Coil Voltage (Vdc): 3V = 3 5V = 5 6V = 6 9V = 9 12V = 12 18V = 18

24V = 24 48V = 48 Sealing: "blank" = Flux Protection E = Epoxy Sealed Coil Insulation: "blank" = Class B F = Class F

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# **COIL SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
coil power	nominal		450		mW
	at pickup voltage		200		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	AgSnO₂ (silver tin oxide)			
contact rating	5 A @ 250 Vac 5 A @ 30 Vdc 1/6 HP @ 125 Vac			
contact resistance			100	mΩ
max switching voltage			250 30	Vac Vdc
max switching current			5	А
max switching power	Vac Vdc		1,250 150	VA W
life	electrical mechanical	100,000 10,000,000		operations operations

### **GENERAL SPECIFICATIONS**

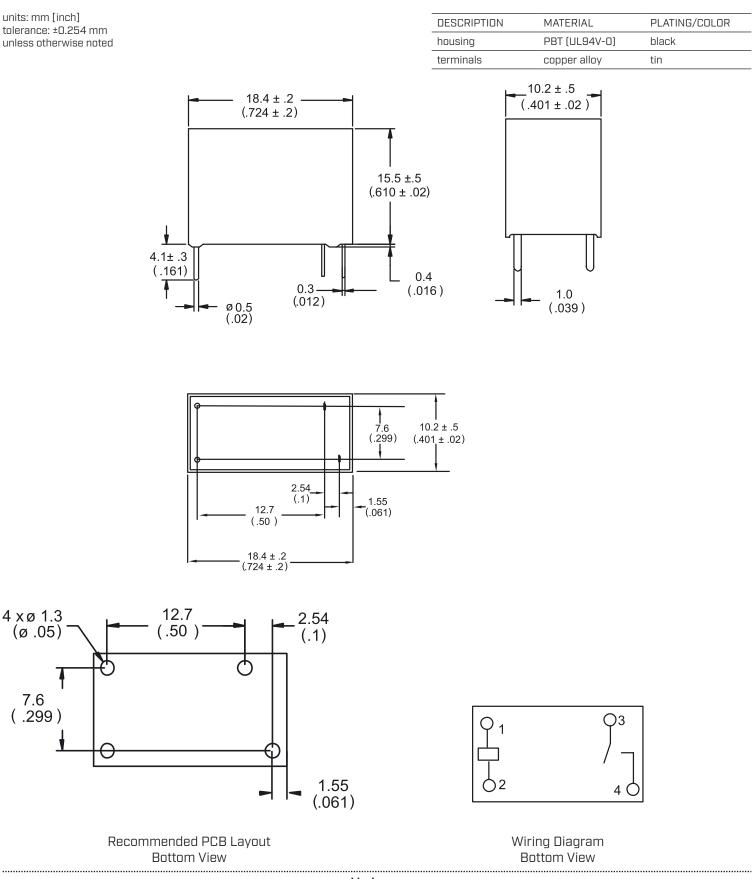
parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc, 20 °C, 50% RH	1,000			MΩ
dielectric strength	between open contacts at sea level for 1 minute between coil and contacts at sea level for 1 minute		1,000 4,000		Vrms Vrms
operate time	at nominal coil voltage			8	ms
release 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

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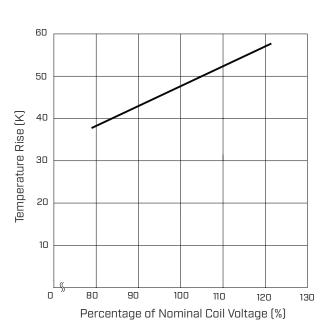
parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds			270	°C
washable	only on epoxy sealed models max imersion time of 30 seconds			80	°C

#### **MECHANICAL DRAWING**



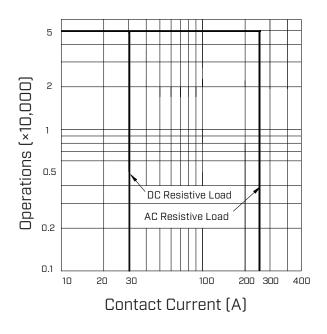
cuidevices.com

# **CHARACTERISTIC CURVES**

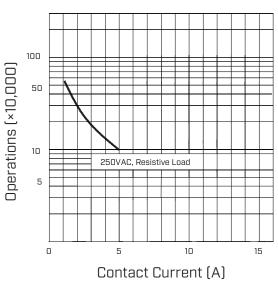


Coil Temperature Rise

Maximum Switching Power



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Life Curve

Test Conditions: Flux protection, room temp, 1.5 seconds on 1.5 seconds off

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#### **REVISION HISTORY**

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

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.



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

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