Additional Resources: Product Page

# same sky

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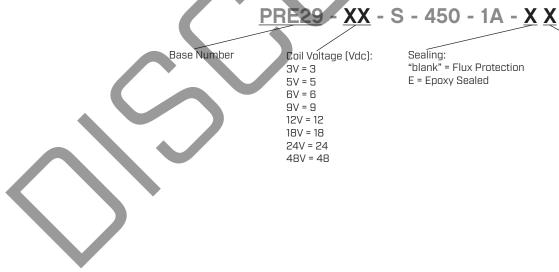
# SERIES: PRE29 | DESCRIPTION: POWER RELAY

#### **FEATURES** • 5 amp • 1 form A 9 Jus • class B & class F ROHS C SUS coil coil operating release continuous coil MODEL resistance voltage1 voltage voltage voltage power min tvp max max max (Vdc) [Ω±10%] (Vdc) (Vdc) (Vdc) (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 4.2 80 0.30 7.8 450 180 PRE29-9V-S-450 9 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 62.4 48 5,120<sup>2</sup> 33.6 2.4 450 Notes:

1. Relay may pull in with less than operating voltage 2. Coil resistance tolerance is ±15%.

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

## PART NUMBER KEY



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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		К
CONTACT SPECIFIC	CATIONS				
parameter	conditions/description	min	typ	max	units
contact form	1 Form A				
contact material	AgSnO₂ (silver tin oxide)				
	5 A @ 250 Vac				
contact rating	5 A @ 30 Vdc				
	1/6 HP @ 125 Vac				

contact resistance			100	mΩ
max switching voltage			250 30	Vac Vdc
max switching current			5	A
max switching power	Vac Vdc		1,250 150	VA W
life	electrical mechanical	100,000 10,000,000		operations operations

# **GENERAL SPECIFICATIONS**

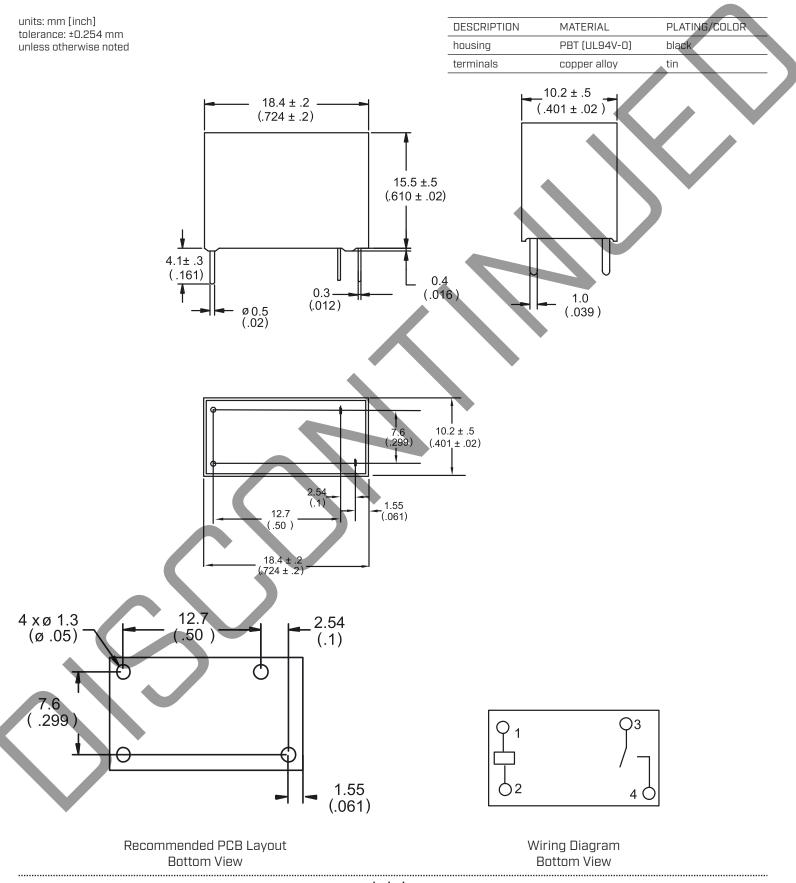
parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc, 20 °C, 50% RH	1,000			MΩ
dielectric strength	between open contacts at sea level for 1 minute between coil and contacts at sea level for 1 minute		1,000 4,000		Vrms Vrms
operate time	at nominal coil voltage			8	ms
release 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	VES				
packaging	tray: 100 pcs per tray carton QTY: 1,000 pcs per carton				

#### SOLDERABILITY

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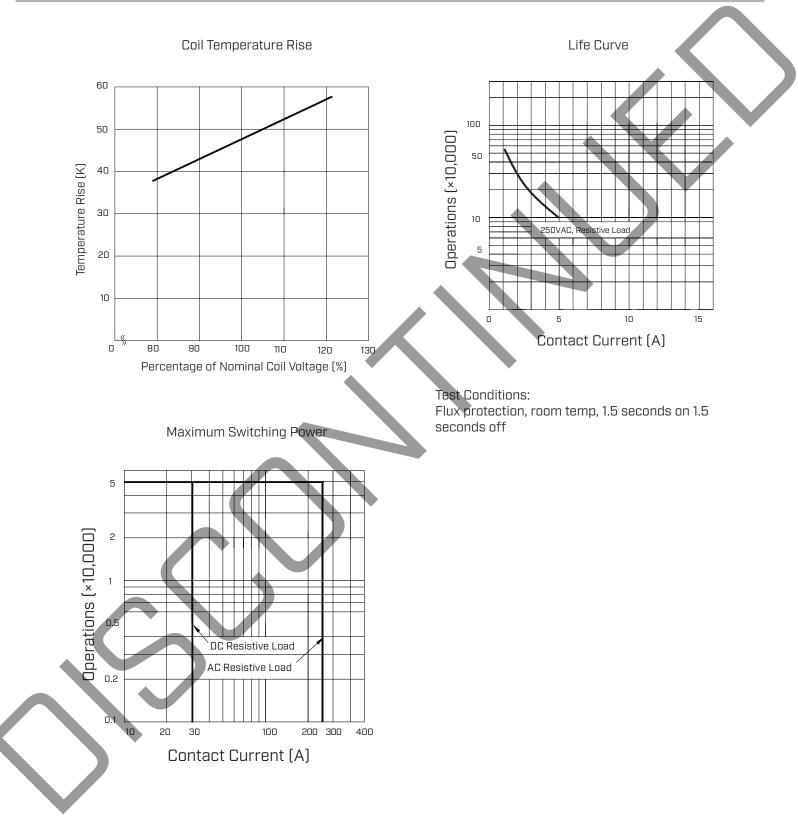
parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds			270	°C
washable	only on epoxy sealed models max imersion time of 30 seconds			80	°C

## **MECHANICAL DRAWING**



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# **CHARACTERISTIC CURVES**



### **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.

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

# same sky

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.

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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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