

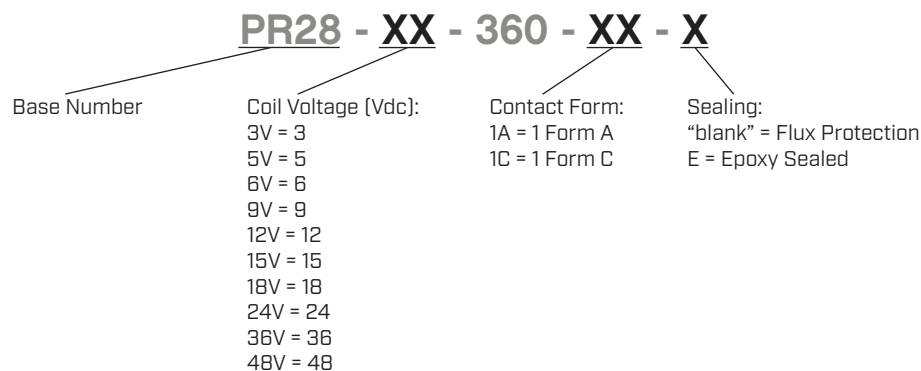
**SERIES:** PR28 | **DESCRIPTION:** POWER RELAY**FEATURES**

- 20 amp
- 1 form A
- 1 form C
- 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]
PR28-3V-360	3	25	2.25	0.3	3.3	360
PR28-5V-360	5	70	3.8	0.5	5.5	360
PR28-6V-360	6	100	4.5	0.6	6.6	360
PR28-9V-360	9	225	6.8	0.9	9.9	360
PR28-12V-360	12	400	9.0	1.2	13.2	360
PR28-15V-360	15	625	11.25	1.5	16.5	360
PR28-18V-360	18	900	13.5	1.8	19.8	360
PR28-24V-360	24	1,600	18.0	2.4	26.4	360
PR28-36V-360	36	3,600	27.0	3.6	39.6	360
PR28-48V-360	48	6,400	36.0	4.8	52.8	360

Notes: 1. Relay may pull in with less than operating voltage.
2. All specifications are measured at 23°C unless otherwise specified.

PART NUMBER KEY

COIL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
coil power	nominal		360		mW
	at pickup voltage		207		mW
temperature rise	at nominal coil voltage		42		K

CONTACT SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	AgSnO ₂ (silver tin oxide)				
contact rating	1 Form A 17 A @ 277 Vac 12 A @ 250 Vac				
	1 Form C 17/10 A @ 277 Vac NO/NC				
contact resistance	at 1 A, 6 V, voltage drop method			100	mΩ
max switching voltage				277 30	Vac Vdc
max switching current	Vac			20	A
	Vdc			16	A
max switching power	Vac			4,700	VA
	Vdc			480	W
life	electrical: at 277 Vac, 16 A (1 Form A/1 Form C (NO), 7 A (1 Form C (NC), resistive	100,000			operations
	mechanical	10,000,000			operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc, 23 °C, 50% RH	100			MΩ
dielectric strength	between coil and contacts at sea level for 1 minute		2,000		Vrms
operate time	at nominal coil voltage			10	ms
release time	at nominal coil voltage, without coil suppression			5	ms
shock resistance			10		G
vibration resistance	10~55 Hz, 1.5 mm double amplitude				
operating temperature	at nominal coil voltage	-40		85	°C
storage temperature	at nominal coil voltage	-40		130	°C
weight			9.5		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	box: 100 pcs per box carton QTY: 1,000 pcs per carton				

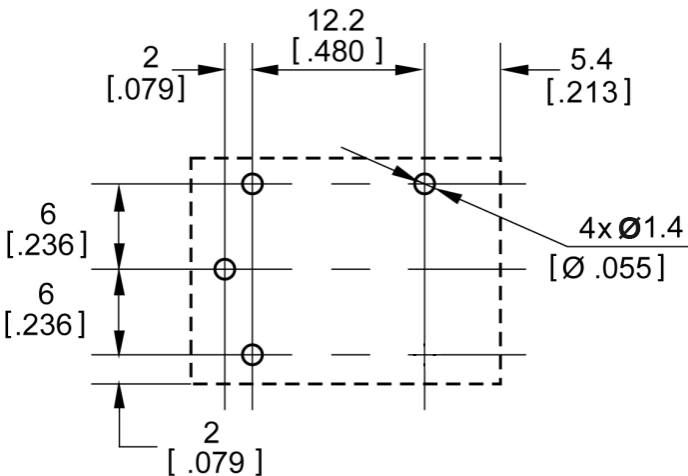
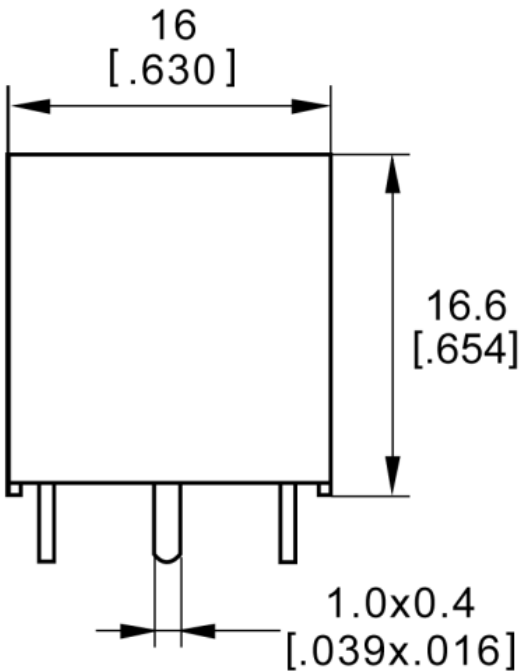
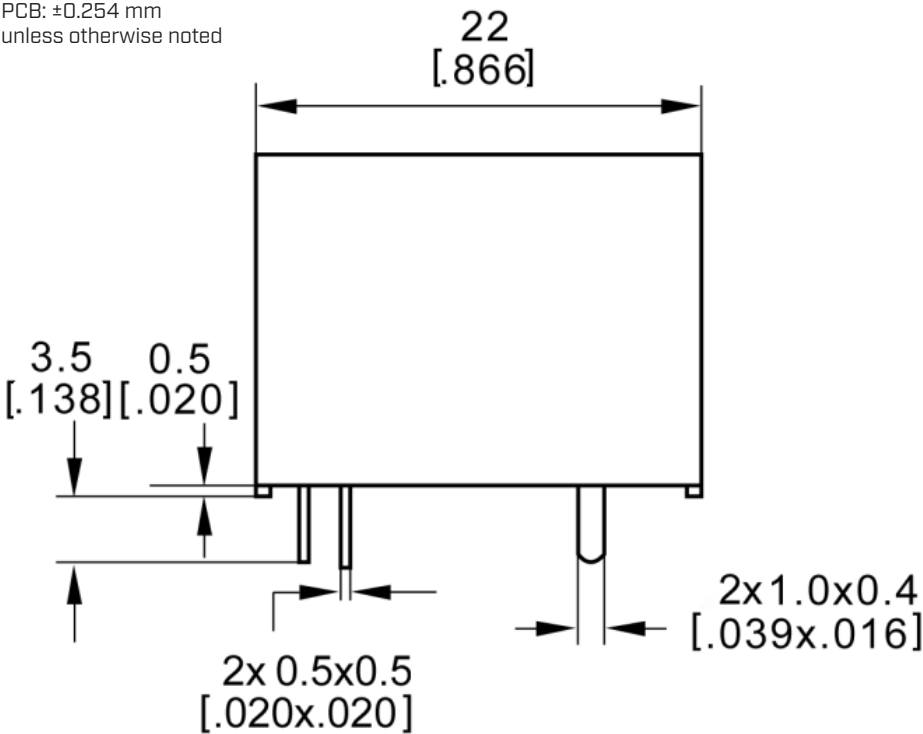
SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds			260	°C
washable	only on epoxy sealed models max imersion time of 30 seconds			80	°C

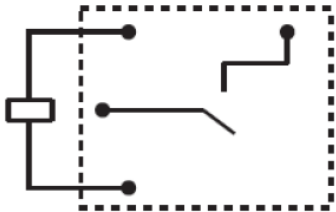
MECHANICAL DRAWING (1A = 1 FORM A)

units: mm[inch]
tolerance:
X≤1.00: ±0.20 mm
1.00<X≤5.00: ±0.30 mm
X>5.00: ±0.40 mm
pin length: ±0.40 mm
PCB: ±0.254 mm
unless otherwise noted

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PBT [UL94V-0]	white
terminals	copper alloy	tin



Recommended PCB Layout
Bottom View

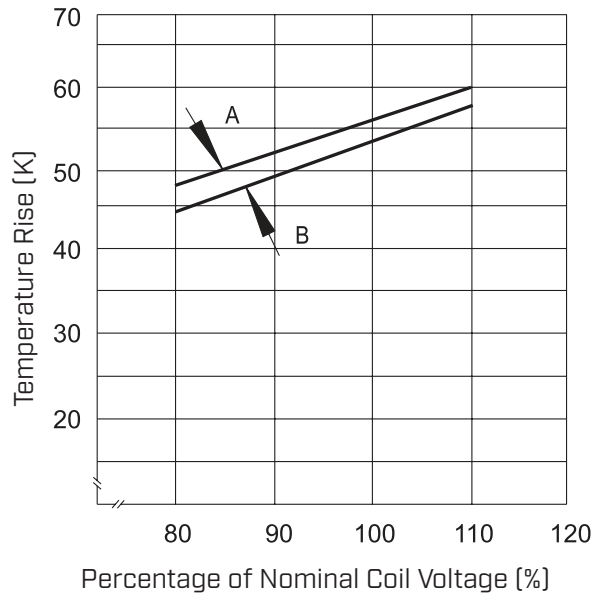


Wiring Diagram
Bottom View

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CHARACTERISTIC CURVES

Coil Temperature Rise



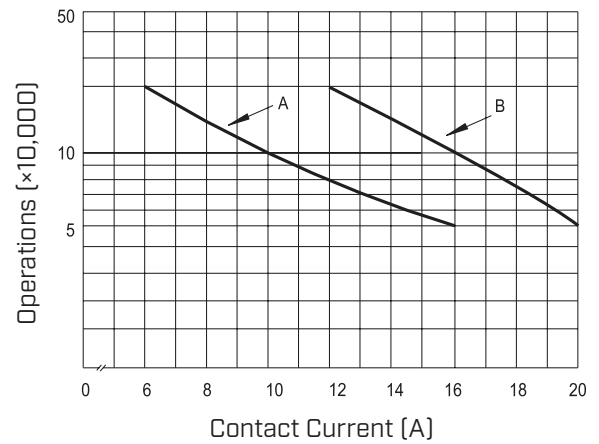
Test Conditions:

Curve A: 20 A at 85°C

Curve B: 16 A at 85°C

Mounting Distance: 25 mm

Life Curve

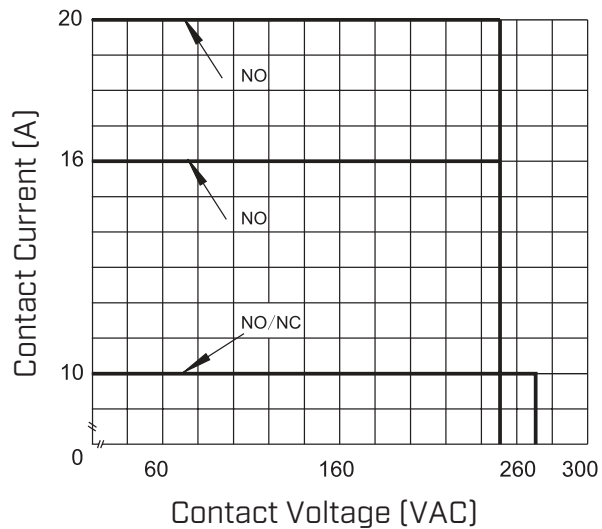


Test Conditions:

Curve A: NO, resistive load, 85°C, flux protection, 16 A, 250 Vac, 1 second on 9 seconds off

Curve B: NO, resistive load, 85°C, flux protection, 20 A, 250 Vac, 1 second on 9 seconds off

Maximum Switching Power



REVISION HISTORY

rev.	description	date
1.0	initial release	02/14/2024
1.01	removed F from part number	05/10/2024
1.02	CUI Devices rebranded to Same Sky	09/12/2024
1.03	updated tolerances	06/10/2025

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.

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