

CUI DEVICES

SERIES: SR3 | DESCRIPTION: SIGNAL RELAY

FEATURES

- 3~24 Vdc coil voltage
- 150-175 mW coil power
- contact form 1C

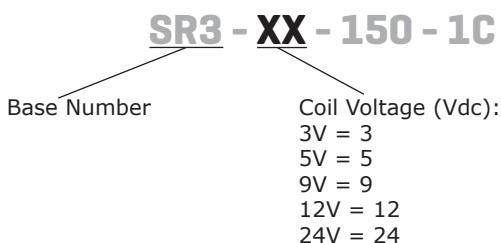


MODEL

MODEL	coil voltage typ (Vdc)	coil resistance ($\Omega \pm 10\%$)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power typ (mW)
SR3-3V-150-1C	3	60	2.25	0.3	150
SR3-5V-150-1C	5	167	3.75	0.5	150
SR3-9V-150-1C	9	540	6.75	0.9	150
SR3-12V-150-1C	12	960	9.0	1.2	150
SR3-24V-175-1C	24	3,291	18.0	2.4	175

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

PART NUMBER KEY



CONTACT SPECIFICATIONS

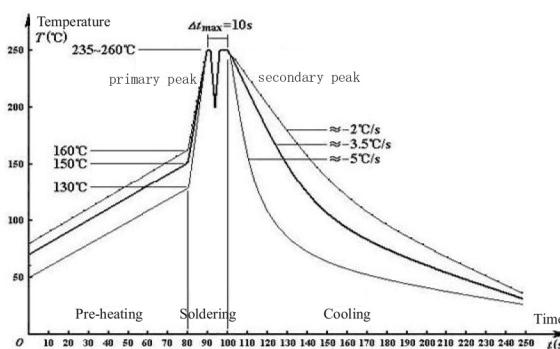
parameter	conditions/description	min	typ	max	units
contact form	1 Form C				
contact material	AuAg overlay				
contact rating	1 A @ 125 Vac, 24 Vdc				
contact resistance	at 6 Vdc, 0.1 A			50	mΩ
max switching voltage				125	Vac
				60	Vdc
max switching current				2	A
max switching power				250	VA
				48	W
min switching load	5 Vdc, 10 mA				
life	electrical mechanical			100,000 5,000,000	operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc	1,000			MΩ
dielectric strength	between open contacts for 1 minute between coil and contacts for 1 minute		500 1,000		Vac Vac
operate time				5	ms
release time				5	ms
shock resistance	endurance misoperation		1,000 100		m/s ² m/s ²
vibration resistance	endurance: 10~55 Hz, 1.5 mm double amplitude misoperation: 10~55 Hz, 1.5 mm double amplitude				
operating temperature		-40		70	°C
humidity	at 40°C	35		95	%RH
weight			2.2		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tube: 25 pcs per tube carton size: 390 x 301 x 148 mm carton QTY: 2,000 pcs per carton				

SOLDERABILITY

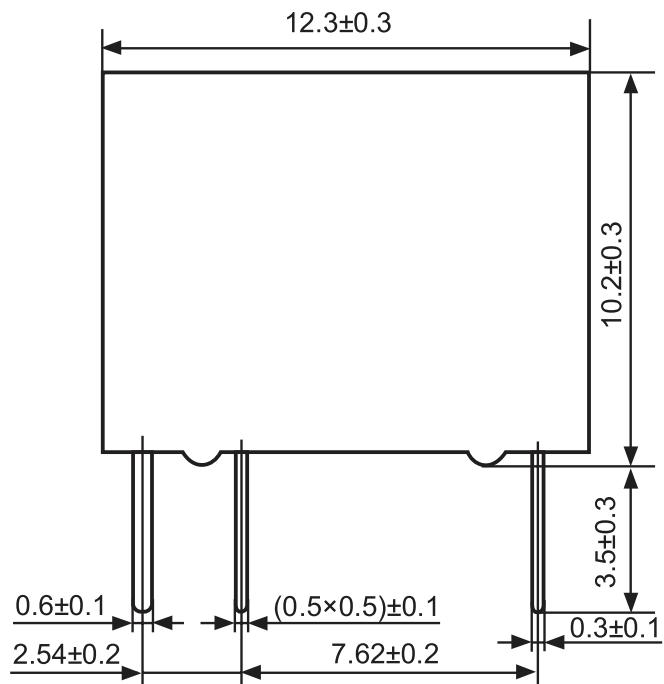
parameter	conditions/description	min	typ	max	units
hand soldering	for 3.5±0.5 seconds	340	350	360	°C
wave soldering	for 10±1 seconds	255	260	265	°C



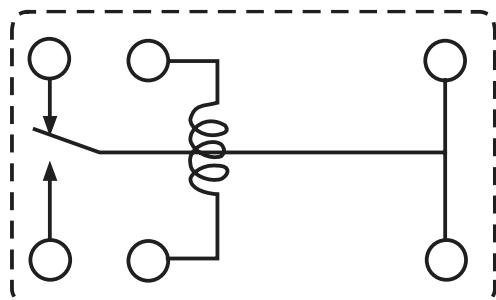
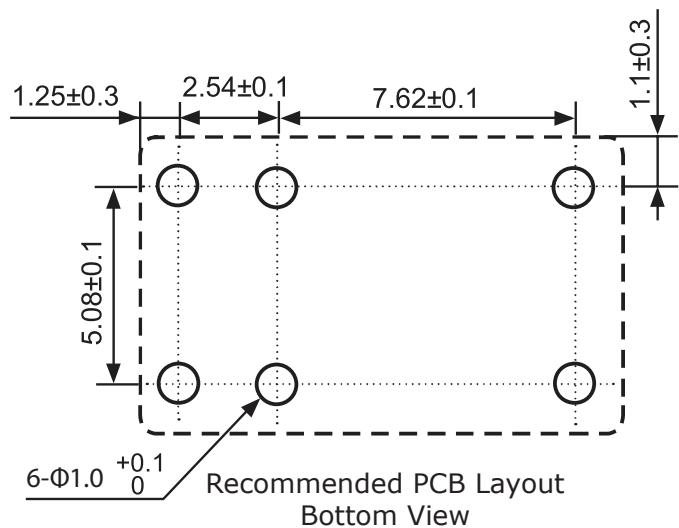
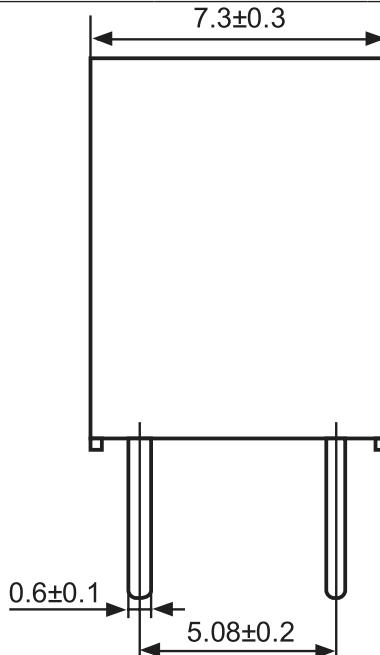
Double-wave Soldering Curve

MECHANICAL DRAWING

units: mm
tolerance: ± 0.3 mm
unless otherwise noted



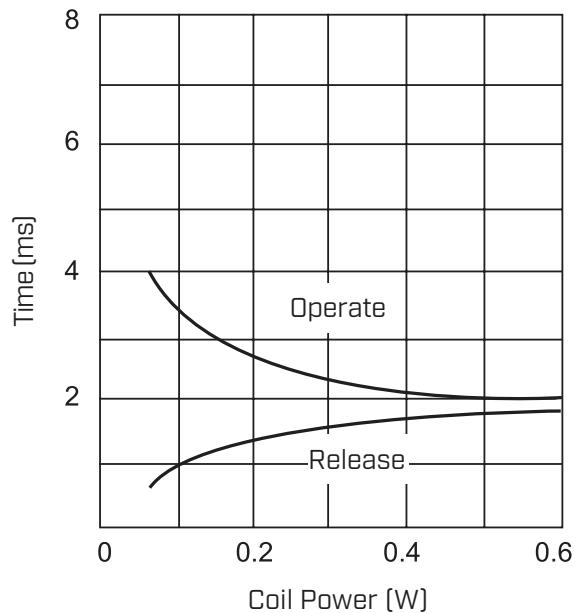
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PBT (UL94V-0)	black
B	terminals	copper covered steel	tin



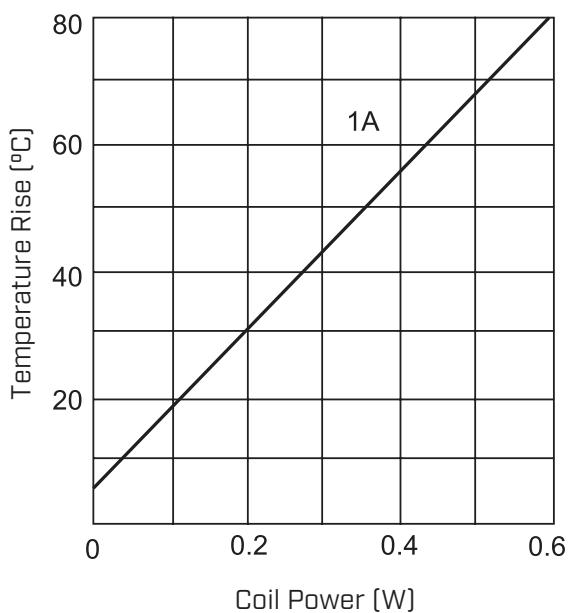
Wiring Diagram
Bottom View

CHARACTERISTIC CURVES

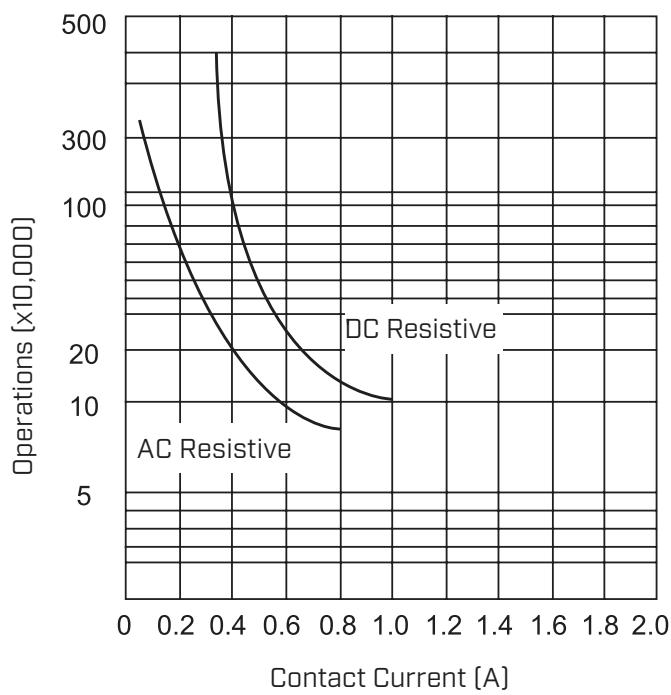
Time Curve



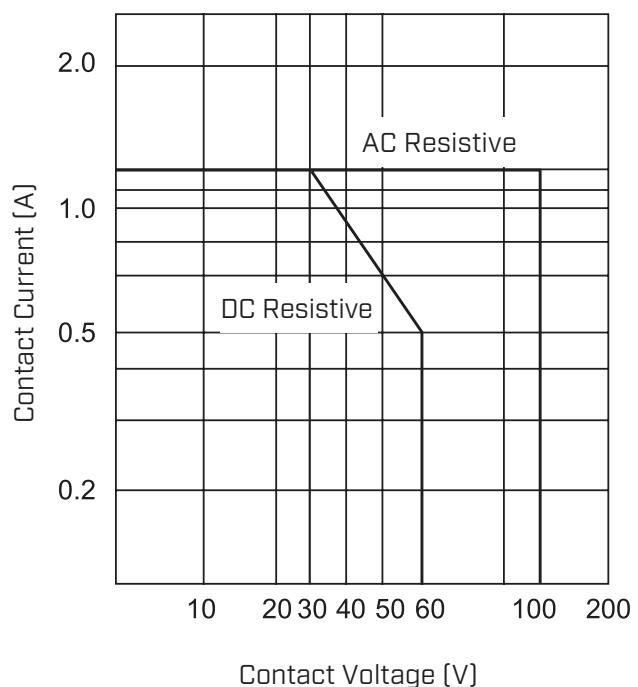
Coil Temperature Rise



Life Curve



Maximum Switching Power



REVISION HISTORY

rev.	description	date
1.0	initial release	06/07/2022

The revision history provided is for informational purposes only and is believed to be accurate.

CUI DEVICES

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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