SERIES: PR25 | DESCRIPTION: POWER RELAY

FEATURES

- 15 amp
- 1 form A
- 1 form C
- Class B & Class F

MODEL

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)
PR25-5V-S-360	5	70	3.8	0.5	11.2	360
PR25-6V-S-360	6	100	4.5	0.6	13.4	360
PR25-9V-S-360	9	225	6.8	0.9	20.1	360
PR25-12V-S-360	12	400	9.0	1.2	26.8	360
PR25-18V-S-360	18	900	13.5	1.8	40.2	360
PR25-24V-S-360	24	1,600	18.0	2.4	53.4	360
PR25-36V-S-360	36	3,600	27.0	3.6	80.1	360
PR25-48V-S-360	48	6,400	36.0	4.8	107.3	360

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

PR25 - XX - S - 360 - XX - X X

- PR25 — Base Number
- XX — Coil Voltage (Vdc):
  - 5V = 5
  - 6V = 6
  - 9V = 9
  - 12V = 12
  - 18V = 18
  - 24V = 24
  - 36V = 36
  - 48V = 48
- XX — Contact Form:
  - 1A = 1 Form A
  - 1C = 1 Form C
- X — Sealing:
  - "blank" [3] = Flux Protection
  - E = Epoxy Sealed
- X — Coil Insulation:
  - "blank" = Class B
  - F = Class F

Notes: 3. Flux protection only available on 1 Form A models.

COIL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
coil power	nominal at pickup voltage		360 203		mW mW
coil power continous dissipation	Class B models at 20°C Class F models at 20°C			1.8 2.4	W W
temperature rise	at nominal coil voltage		32		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 10 A @ 277 Vac 15 A @ 125 Vac				
	1 Form C 10 A @ 277 Vac NO/NC 5 A @ 250 Vac NC				
contact resistance	at 1 A, 24 V, voltage drop method			100	mΩ
max switching voltage				300 30	Vac Vdc
max switching current	Vac Vdc			15 10	A A
max switching power	Vac Vdc			2,770 300	VA W
life	electrical: at 277 Vac, resistive mechanical	100,000 1,000,000			operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc, 20 °C, 50% RH	100			MΩ
dielectric strength	between open contacts at sea level for 1 minute between coil and contacts at sea level for 1 minute		1,000 1,500		Vrms 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	Class B models at nominal coil voltage Class F models at nominal coil voltage	-40 -40		70 85	°C °C
weight			10		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	tube: 20 pcs per tube carton QTY: 1,000 pcs per carton				

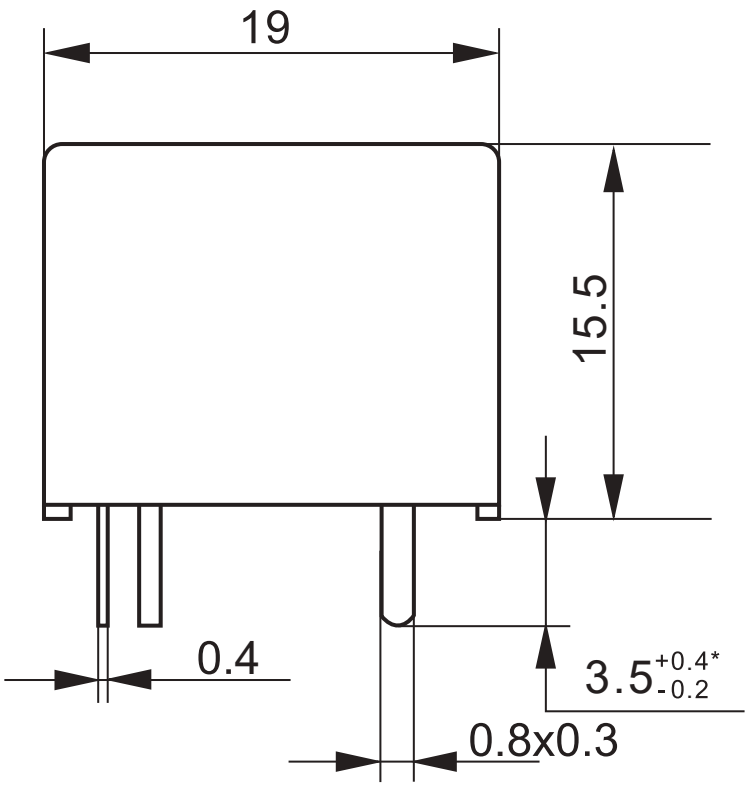
SOLDERABILITY

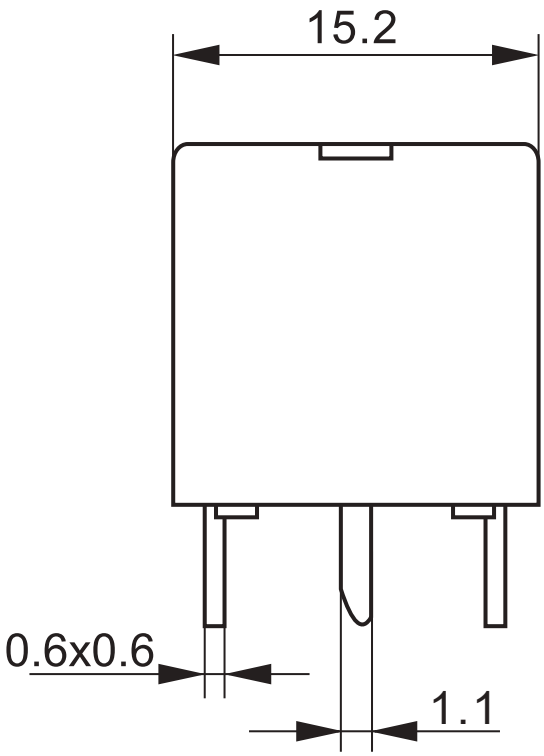
parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds			270	°C
washable	only on epoxy sealed models max imersion time of 30 seconds			80	°C

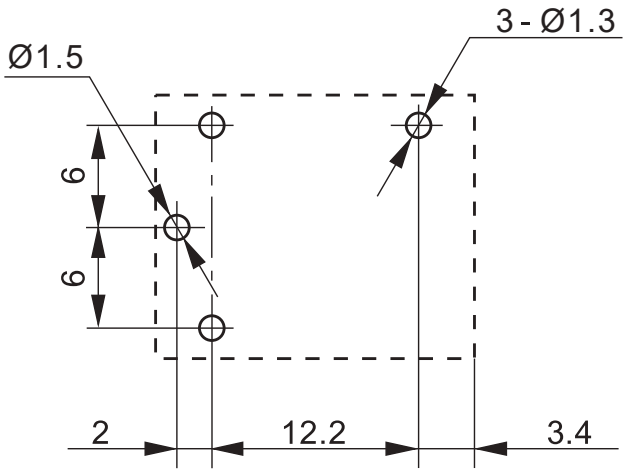
MECHANICAL DRAWING (1A = 1 FORM A)

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

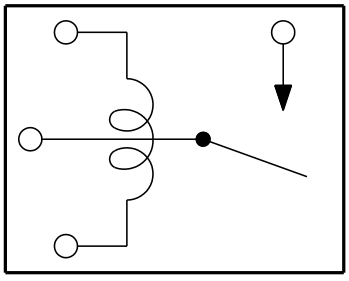
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PBT (UL94V-0)	black
terminals	copper alloy	tin







Recommended PCB Layout
Bottom View

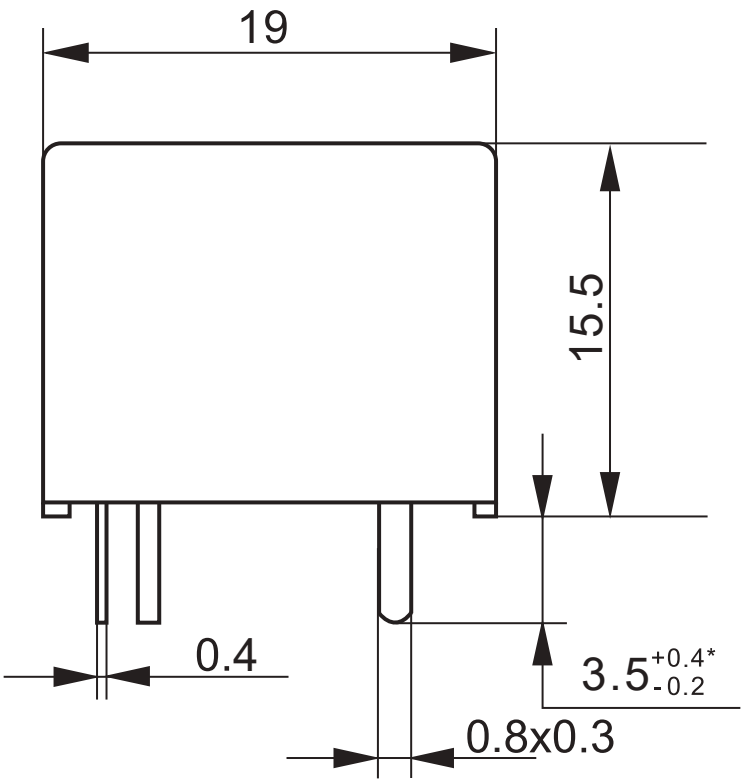


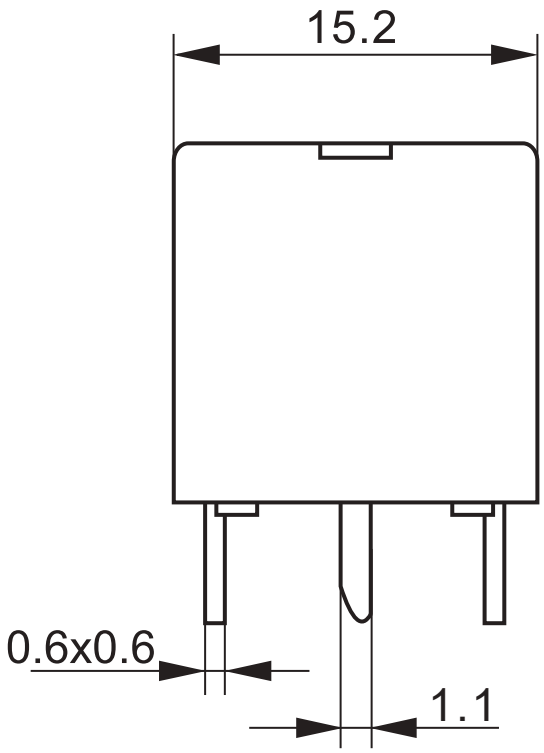
Wiring Diagram
Bottom View

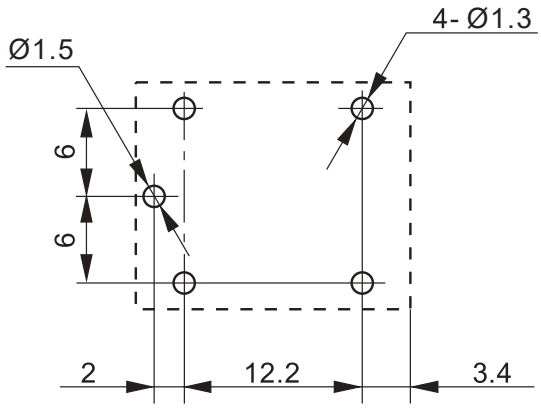
MECHANICAL DRAWING (1C = 1 FORM C)

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

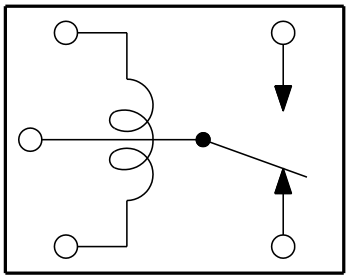
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	PBT (UL94V-0)	black
terminals	copper alloy	tin







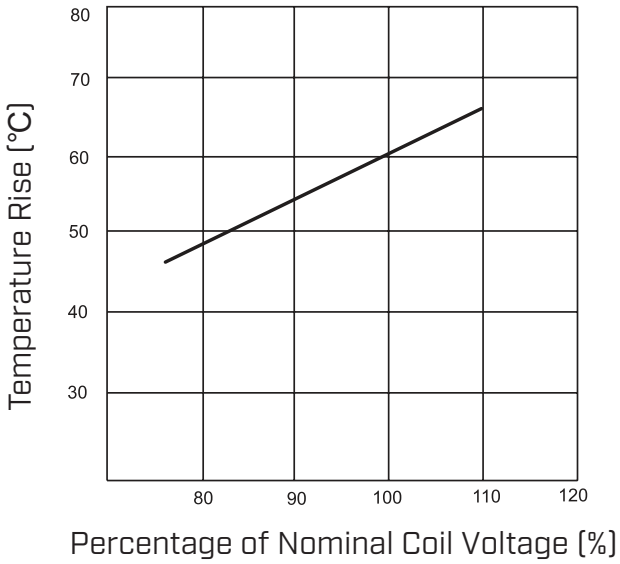
Recommended PCB Layout
Bottom View



Wiring Diagram
Bottom View

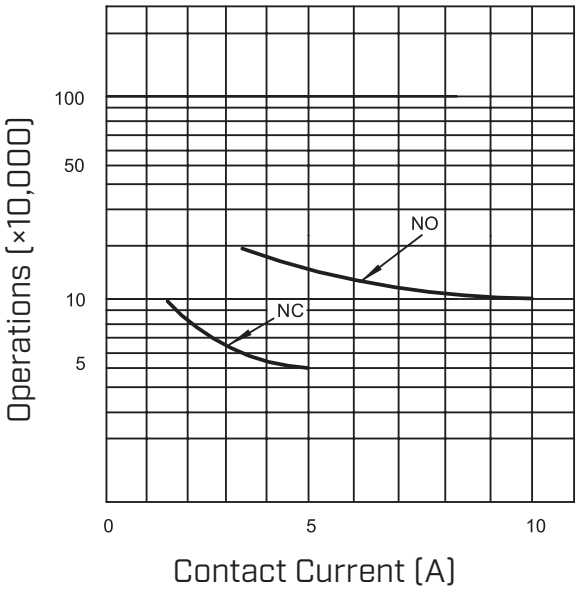
CHARACTERISTIC CURVES

Coil Temperature Rise



Test Conditions:
10 A at 85°C
Mounting Distance: 10 mm

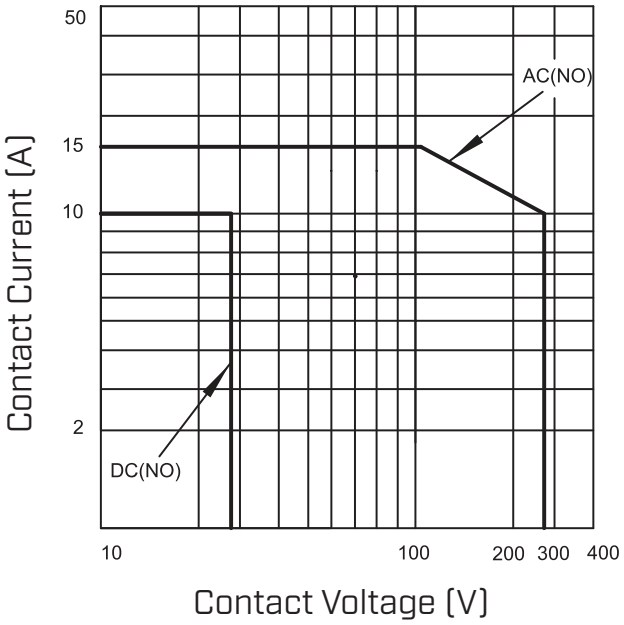
Life Curve



Test Conditions:
NO, resistive load, 277 Vac/28 Vdc, flux protection, room temp, 1 second on 9 seconds off
NC, resistive load, 250 Vac, flux protection, room temp, 5 seconds on 5 seconds off

For plastic sealed type, the venting hole should be opened in electrical life test.

Maximum Switching Power



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.