SERIES: PRY5 | DESCRIPTION: POWER RELAY

FEATURES

- 30 & 40 A
- epoxy sealed
- class F

MODEL

MODEL	coil voltage typ (Vdc)	coil resistance (Ω±10%)	operating voltage min (Vdc)	release voltage max (Vdc)	coil power typ (W)
PRY5-5V-900	5	28	3.75	0.25	0.90
PRY5-9V-900	9	90	6.75	0.45	0.90
PRY5-12V-900	12	160	9.00	0.60	0.90
PRY5-18V-900	18	360	13.50	0.90	0.90
PRY5-24V-900	24	640	18.00	1.20	0.90

Notes:
1. Maximum voltage is 130% of nominal voltage.
2. Coil temperature rise 70 K max.
3. All specifications are measured at 23±5°C, RH 25~75% unless otherwise specified.

PART NUMBER KEY

PRY5 - XX - 900 - XX - X F

- Base Number
- Coil Voltage (Vdc):
  - 5V = 5
  - 9V = 9
  - 12V = 12
  - 18V = 18
  - 24V = 24
- Contact Form:
  - 1A = 1 Form A
  - 1C = 1 Form C
- Sealing:
  - “blank” = Flux Protection
  - E = Epoxy Sealed

CONTACT SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
contact form	1 Form A, 1 Form C				
contact material	Ag alloy				
contact rating	1 Form A 40 A @ 250 Vac NO				
	1 Form C 30/20 A @ 250 Vac NO/NC 30/10 A @ 28 Vdc NO/NC				
contact temperature rise	at contact max rating			50	K
max switching voltage				277	Vac
max switching current	1 Form A 1 Form C			40 30	A A
max switching power	1 Form A 1 Form C			11,080 8,310	VA VA
life	1 Form A electrical: at 250 Vac/40 A, 1 second on, 9 seconds off mechanical: 0.1 seconds on, 0.1 seconds off	50,000 1,000,000			operations operations
	1 Form C electrical: at 250 Vac/30/20 A NO/NC, 1 second on, 9 seconds off mechanical: 0.1 seconds on, 0.1 seconds off	100,000 1,000,000			operations operations

GENERAL SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
insulation resistance	at 500 Vdc	100			MΩ
dielectric strength	between open contacts for 1 minute between coil and contacts for 1 minute		1,500 2,500		Vac Vac
coil insulation system	Class F				
operate time				15	ms
release time				10	ms
shock resistance	endurance: 3 shocks in each XYZ direction misoperation: 3 shocks in each XYZ direction		1,000 100		m/s^2 m/s^2
vibration resistance	endurance: 10~55 Hz, 1.5 mm double amplitude for 2 hours misoperation: 10~55 Hz, 1.5 mm double amplitude for 5 minutes				
operating temperature		-40		105	°C
humidity		45		85	%RH
weight			27		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	carton size: 373 x 256 x 235 mm carton QTY: 400 pcs per carton				

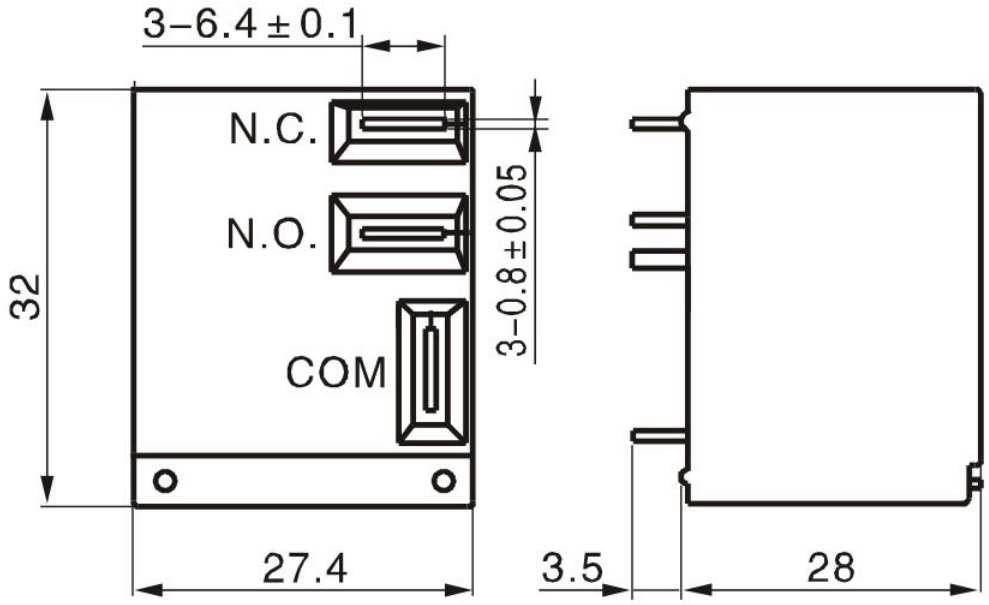
SOLDERABILITY

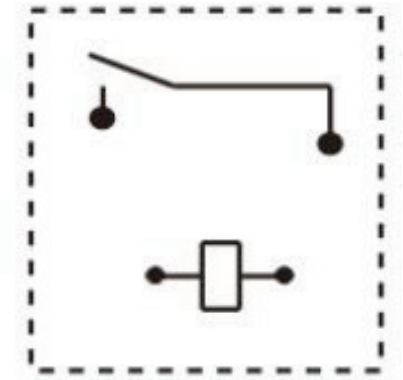
parameter	conditions/description	min	typ	max	units
wave soldering	for max 5 seconds	255	260	265	°C

MECHANICAL DRAWING (1 FORM A)

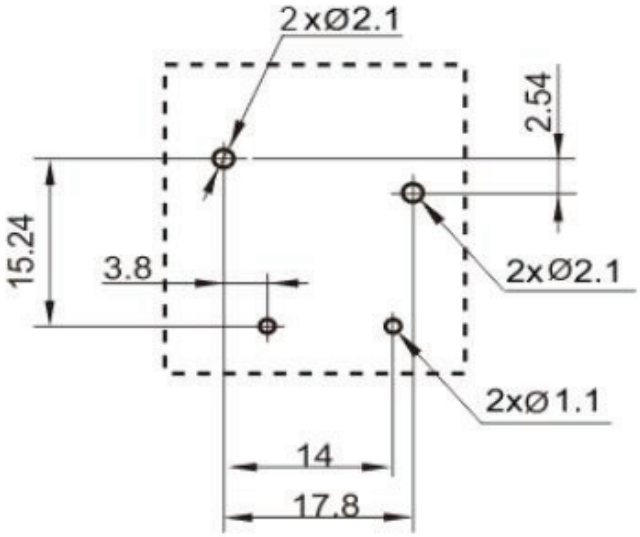
units: mm
tolerance:
X≤1: ±0.20 mm
1<X≤5: ±0.3 mm
X>5 mm: ±0.4 mm
PCB: ±0.10 mm
unless otherwise noted

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





Wiring Diagram
Bottom View

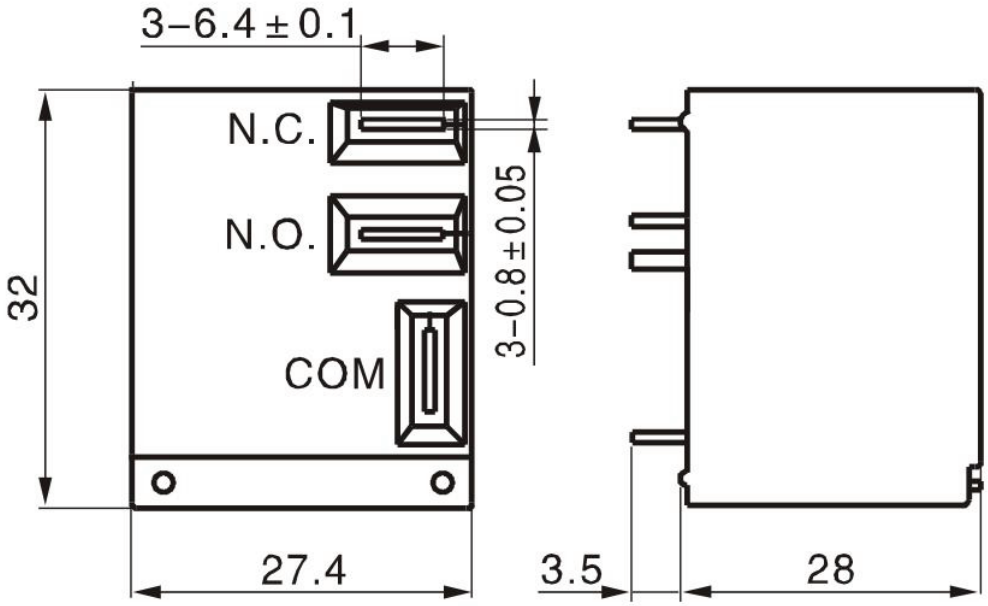


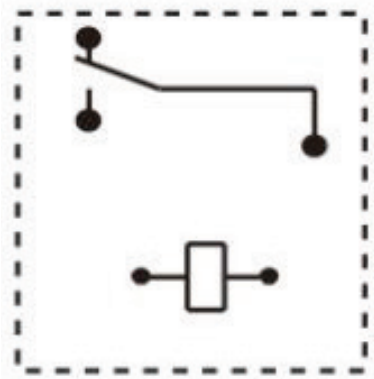
Recommended PCB Layout
Bottom View

MECHANICAL DRAWING (1 FORM C)

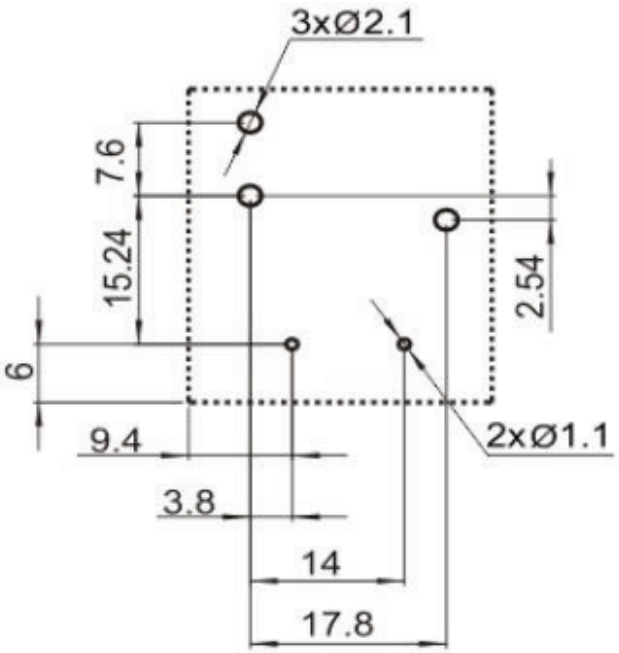
units: mm
tolerance:
X≤1: ±0.20 mm
1<X≤5: ±0.3 mm
X>5 mm: ±0.4 mm
PCB: ±0.10 mm
unless otherwise noted

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





Wiring Diagram
Bottom View



Recommended PCB Layout
Bottom View

REVISION HISTORY

rev.	description	date
1.0	initial release	10/06/2025

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