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# SERIES: PRY5 | DESCRIPTION: POWER RELAY

## FEATURES

- 30 & 40 A
- epoxy sealed
- class F

## 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<br>40 A @ 250 Vac NO | | | | |
| | 1 Form C<br>30/20 A @ 250 Vac NO/NC<br>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<br>1 Form C | | | 40<br>30 | A<br>A |
| max switching power | 1 Form A<br>1 Form C | | | 11,080<br>8,310 | VA<br>VA |
| life | 1 Form A<br>electrical: at 250 Vac/40 A, 1 second on, 9 seconds off<br>mechanical: 0.1 seconds on, 0.1 seconds off | 50,000<br>1,000,000 | | | operations<br>operations |
| | 1 Form C<br>electrical: at 250 Vac/30/20 A NO/NC, 1 second on, 9 seconds off<br>mechanical: 0.1 seconds on, 0.1 seconds off | 100,000<br>1,000,000 | | | operations<br>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<br>between coil and contacts for 1 minute | | 1,500<br>2,500 | | Vac<br>Vac |
| coil insulation system | Class F | | | | |
| operate time | | | | 15 | ms |
| release time | | | | 10 | ms |
| shock resistance | endurance: 3 shocks in each XYZ direction<br>misoperation: 3 shocks in each XYZ direction | | 1,000<br>100 | | $m/s^2$<br>$m/s^2$ |
| vibration resistance | endurance: 10~55 Hz, 1.5 mm double amplitude for 2 hours<br>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<br>carton QTY: 400 pcs per carton | | | | |

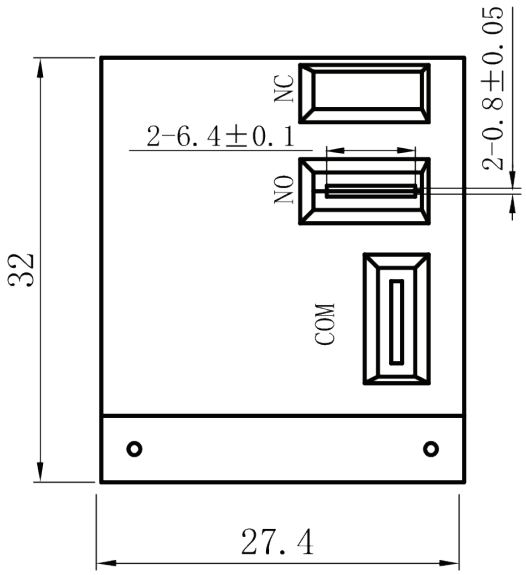
## SOLDERABILITY

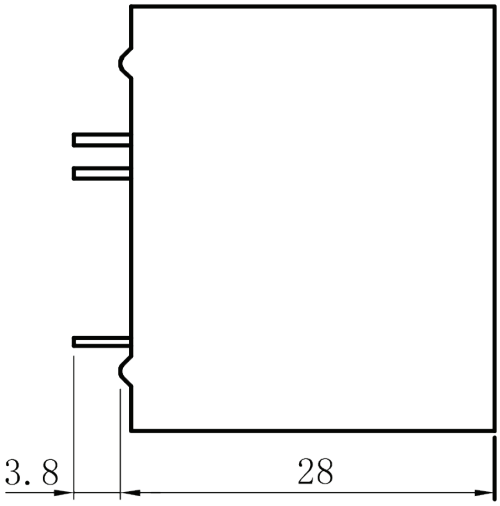
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | for max 5 seconds | 255 | 260 | 265 | °C |

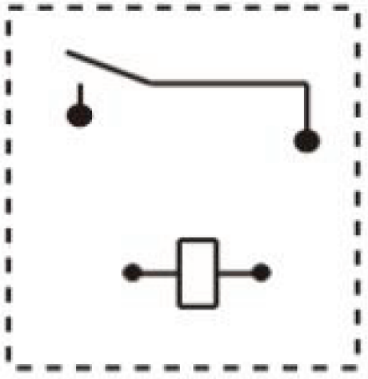
## MECHANICAL DRAWING (1 FORM A)

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

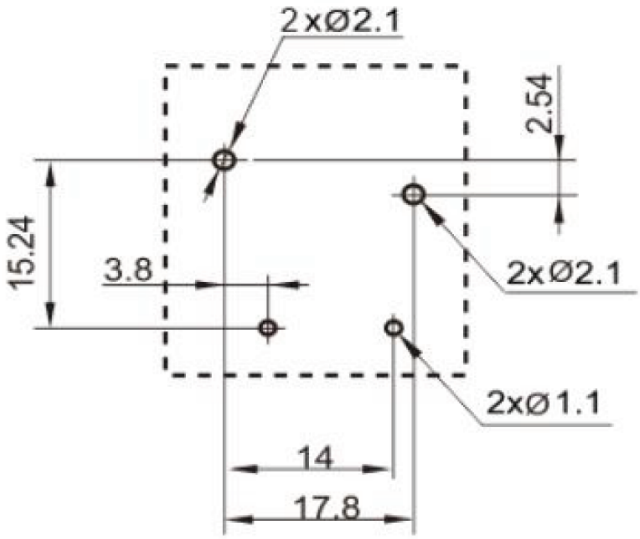
| DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|
| housing | PBT (UL94V-0) | black |
| terminals | copper alloy | tin |
| coil terminals | enameled wire | |



Wiring Diagram
Bottom View

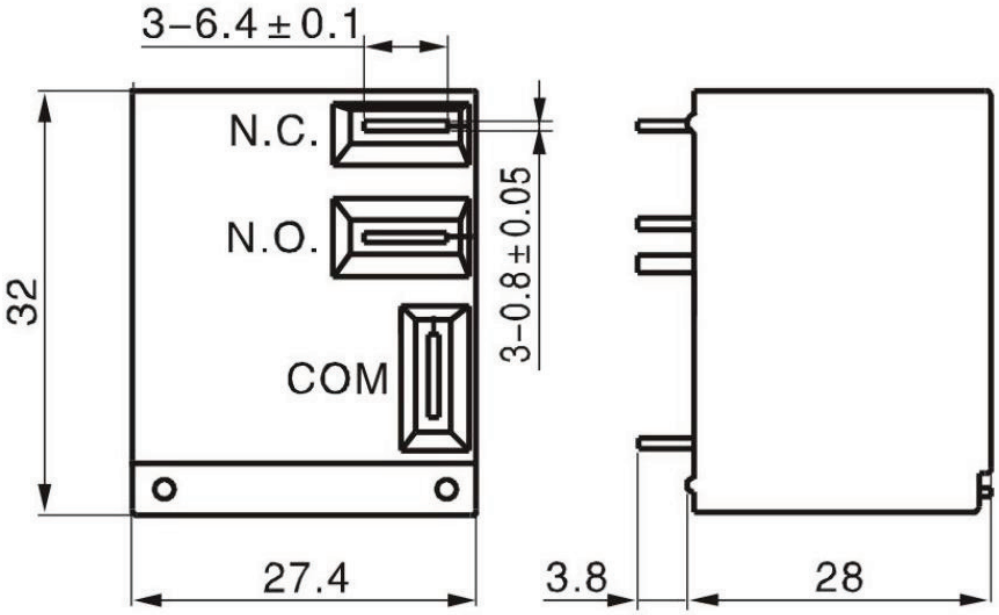


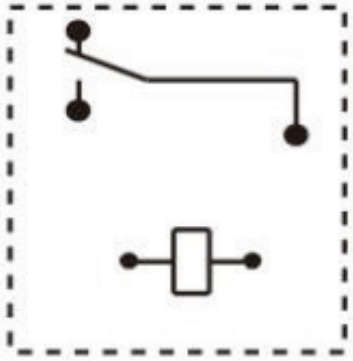

Recommended PCB Layout
Bottom View

## MECHANICAL DRAWING (1 FORM C)

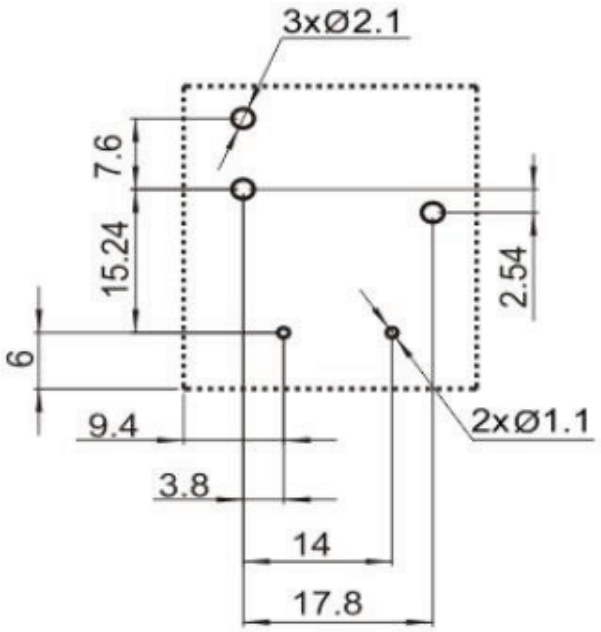
units: mm
tolerance:
X≤1: ±0.20 mm
1<X≤5: ±0.3 mm
X>5 mm: ±0.4 mm
PCB: ±0.10 mm
unless otherwise noted

| 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 |
| 1.01 | updated datasheet | 03/06/2026 |

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

same sky

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