

**SERIES:** PRY5 | **DESCRIPTION:** POWER RELAY**FEATURES**

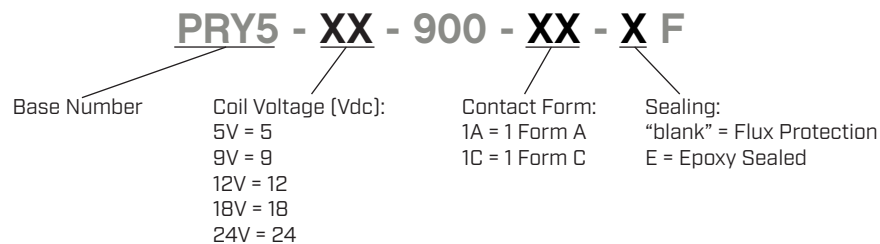
- 30 & 40 A
- epoxy sealed
- class F

**MODEL**

| | coil voltage typ (Vdc) | coil resistance ($\Omega \pm 10\%$) | 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

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 | | | 40 | A |
| | 1 Form C | | | 30 | A |
| max switching power | 1 Form A | | | 11,080 | VA |
| | 1 Form C | | | 8,310 | VA |
| life | 1 Form A | | | | |
| | electrical: at 250 Vac/40 A, 1 second on, 9 seconds off | 50,000 | | | operations |
| | mechanical: 0.1 seconds on, 0.1 seconds off | 1,000,000 | | | operations |
| | 1 Form C | | | | |
| | electrical: at 250 Vac/30/20 A NO/NC, 1 second on, 9 seconds off | 100,000 | | | operations |
| | mechanical: 0.1 seconds on, 0.1 seconds off | 1,000,000 | | | 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 | | 1,500 | | Vac |
| | between coil and contacts for 1 minute | | 2,500 | | Vac |
| coil insulation system | Class F | | | | |
| operate time | | | | 15 | ms |
| release time | | | | 10 | ms |
| shock resistance | endurance: 3 shocks in each XYZ direction | | 1,000 | | m/s ² |
| | misoperation: 3 shocks in each XYZ direction | | 100 | | 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 | | | | |

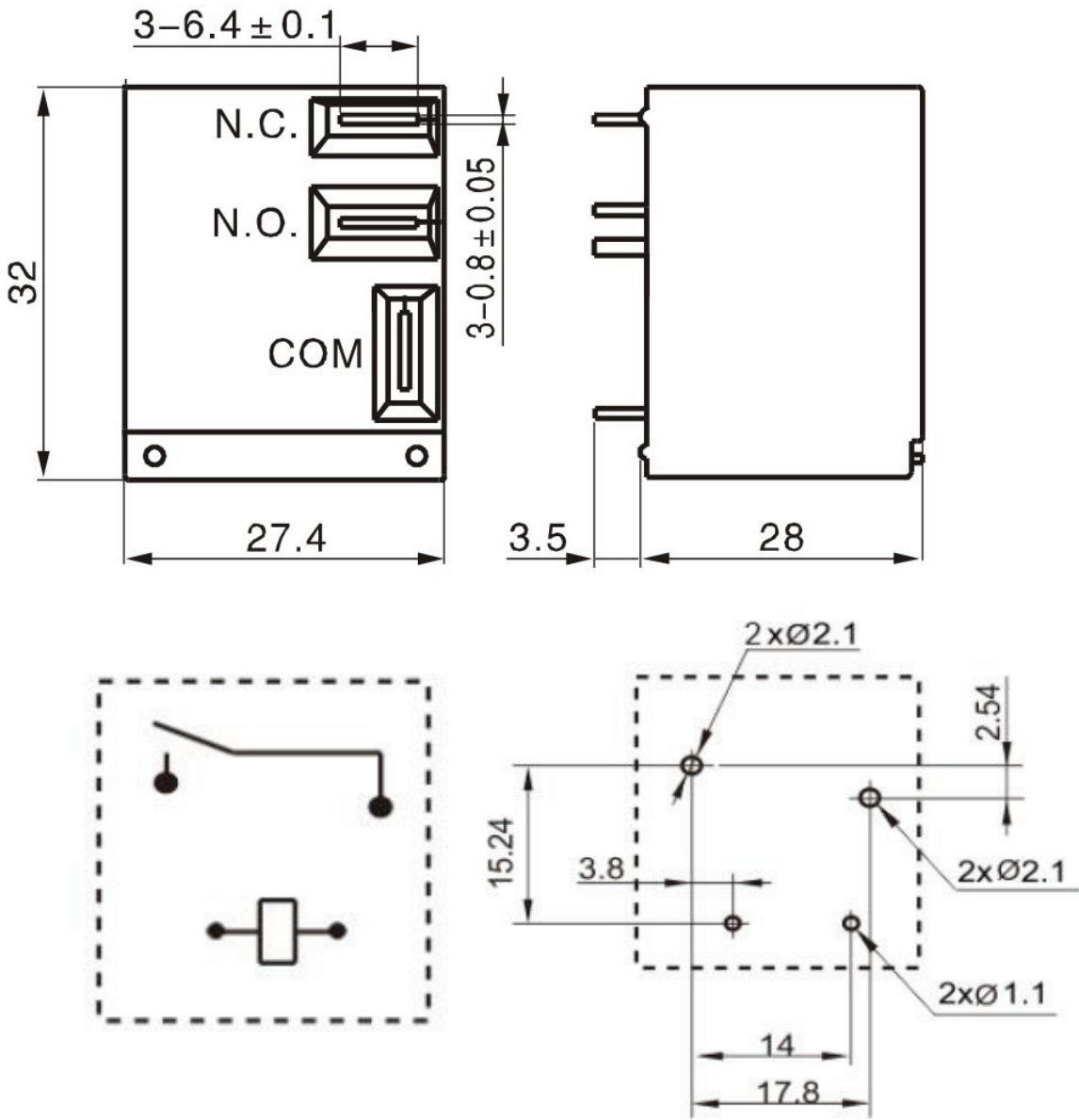
SOLDERABILITY

| 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 | |



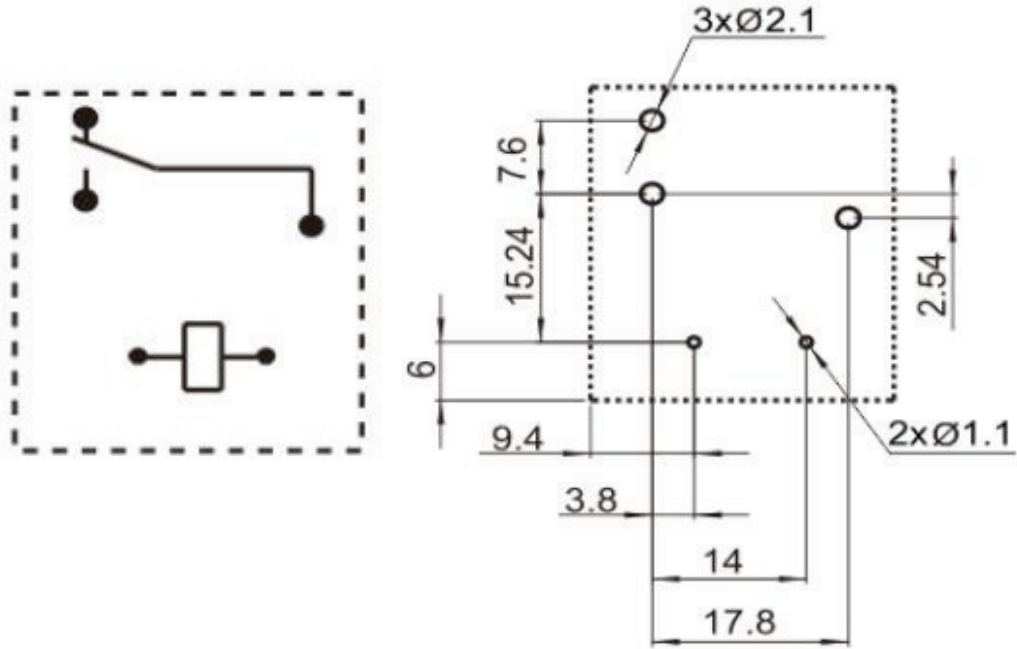
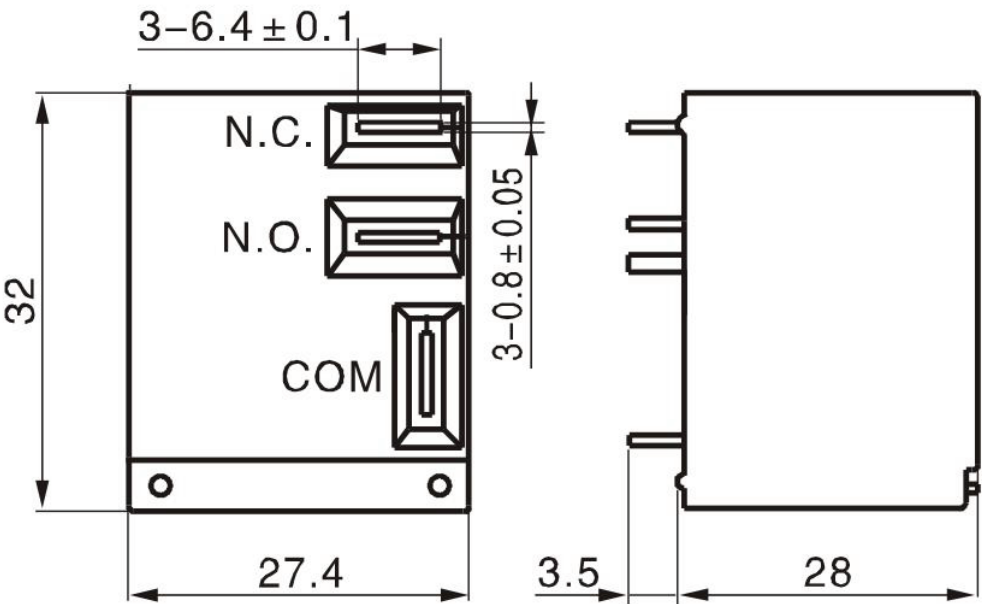
Wiring Diagram
Bottom View

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.



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