



SERIES: PRY3 | **DESCRIPTION:** POWER RELAY

FEATURES

- 10 A
- epoxy sealed
- class A

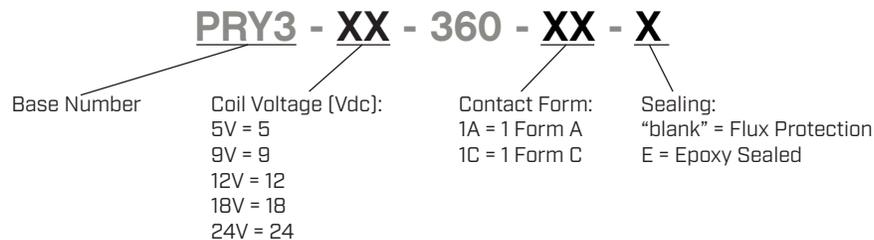


MODEL

MODEL	coil voltage	coil resistance	operating voltage	release voltage	coil power
	typ (Vdc)	($\Omega \pm 10\%$)	min (Vdc)	max (Vdc)	typ (W)
PRY3-5V-360	5	69.4	3.75	0.25	0.36
PRY3-9V-360	9	225	6.75	0.45	0.36
PRY3-12V-360	12	400	9.00	0.60	0.36
PRY3-18V-360	18	900	13.50	0.90	0.36
PRY3-24V-360	24	1600	18.00	1.20	0.36

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 15 A @ 125 Vac 10 A @ 250 Vac NO 10 A @ 30 Vdc				
	1 Form C 10 A @ 30 Vac NO				
contact resistance	at 6 Vdc, 1.0 A			100	mΩ
contact temperature rise	at contact max rating			50	K
max switching voltage				277	Vac
				30	Vdc
max switching current	1 Form A			15	A
	1 Form C			10	A
max switching power				2,500	VA
				300	W
life	electrical: at 250 Vac/10 A, 1 second on, 9 seconds off	100,000			operations
	mechanical: 0.1 seconds on, 0.1 seconds off	10,000,000			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		750		Vac
	between coil and contacts for 1 minute		1,500		Vac
coil insulation system	Class A				
operate time				10	ms
release time				5	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			7.9		g
safety approvals	UL/cUL 508				
flammability rating	UL94V-0				
RoHS	yes				
packaging	carton size: 340 x 225 x 170 mm carton QTY: 1,000 pcs per carton				

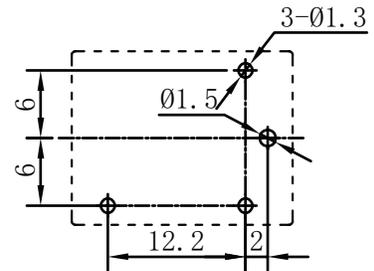
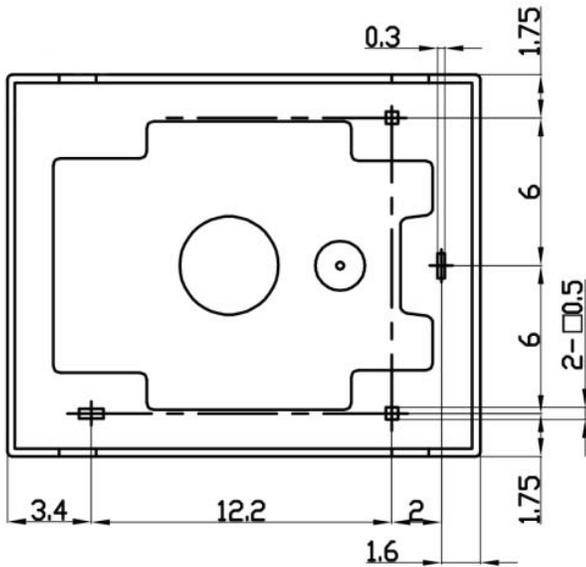
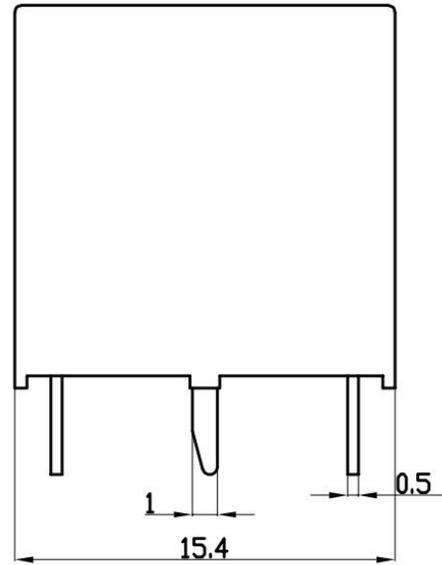
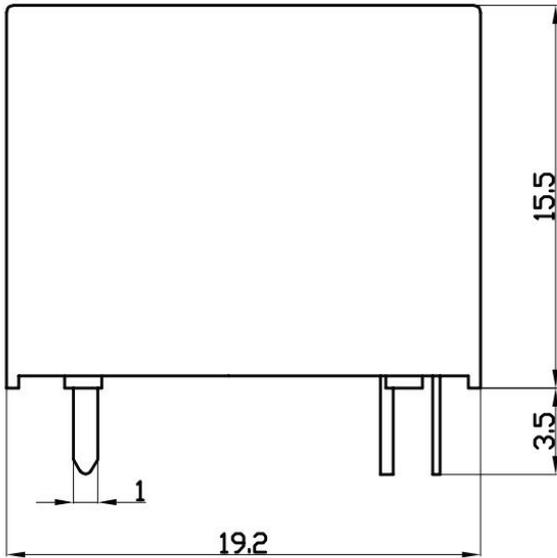
SOLDERABILITY

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

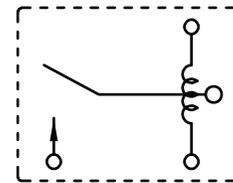
MECHANICAL DRAWING (1 FORM A)

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	



Recommended PCB Layout
Bottom View

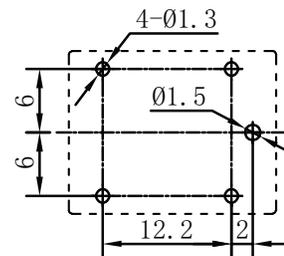
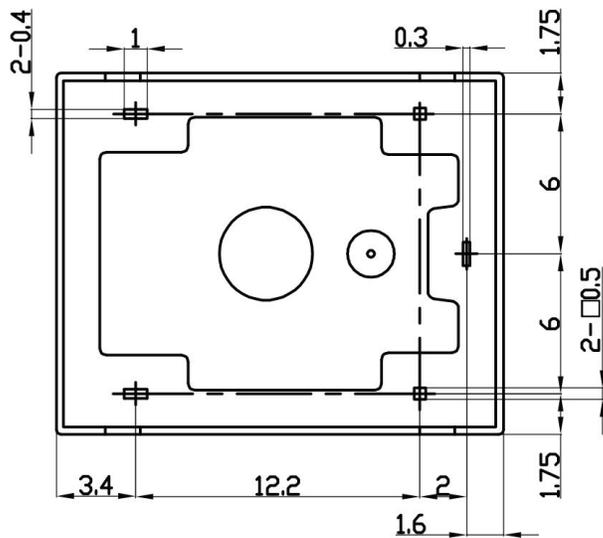
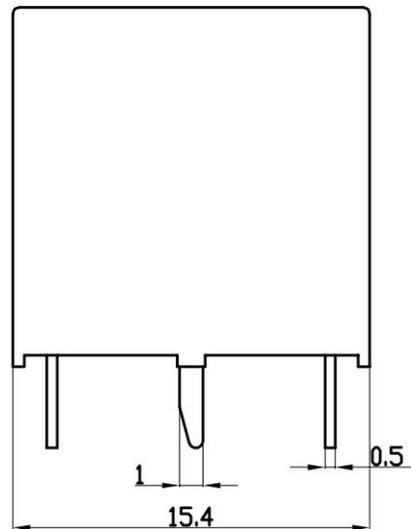
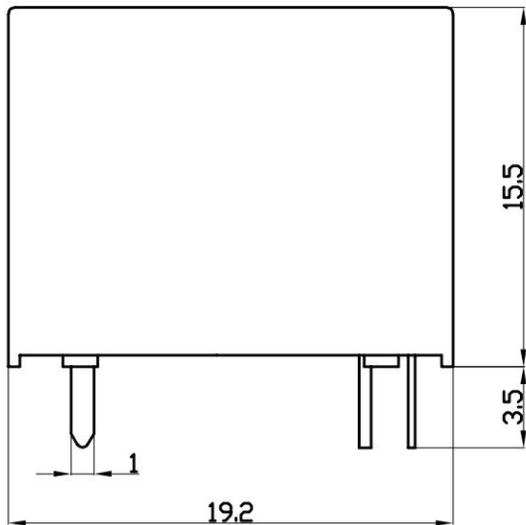


Wiring Diagram
Bottom View

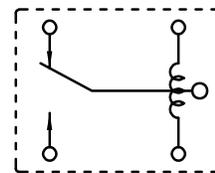
MECHANICAL DRAWING (1 FORM C)

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
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coil terminals	enameled wire	



Recommended PCB Layout
Bottom View



Wiring Diagram
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.



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