

# Industrial Relay Type RPY 3 10A Monostable

CARLO GAVAZZI



- High switching power
- Wide range of applications
- 10A switching capacity
- 3 pole configuration
- Flanged pins 5mm (0.20")
- DC coils from 6 to 220V
- AC coils from 6 to 380V
- Compliant with CE low voltage directive
- TÜV, UL, CSA approved

## Product Description

The RPY relay can be used for a wide range of industrial applications.

Available in a 1, 2, 3, 4 pole

change-over contact configuration. Its wide terminals allow reliability and big currents.

## Approvals



## Ordering Key

**RPY A 003 A24 DLT**

Type

Terminal type

Contact code

Coil code

Options

Terminal type: A= Plug in terminals, blades  
B= PCB terminals

Box content: 10 relays  
Box size: (W 240 x D 105 x H 38) mm Weight: 750g  
(W 9.45 x D 4.13 x H 1.50) inches Weight: 26.45oz

## Type Selection

Contact configuration

3 change over contact (DPDT- 3 form C)

Contact rating

10A

Contact code

003

## Coil Characteristics, DC @ +25°C (+77°F), coil power 1.4W

Coil Code	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	6	4.5	0.60	6.6	240	25
9	9	6.75	0.90	9.9	161	56
12	12	9	1.20	13.2	120	100
24	24	18	2.40	26.4	60	400
36	36	27	3.60	39.6	40	900
48	48	36	4.80	52.8	30	1600
110	110	82.5	11.0	121	13	8400
220	220	165	22.0	242	6.67	33000

## Coil Characteristics, AC @ +25°C (77°F), coil power 2VA

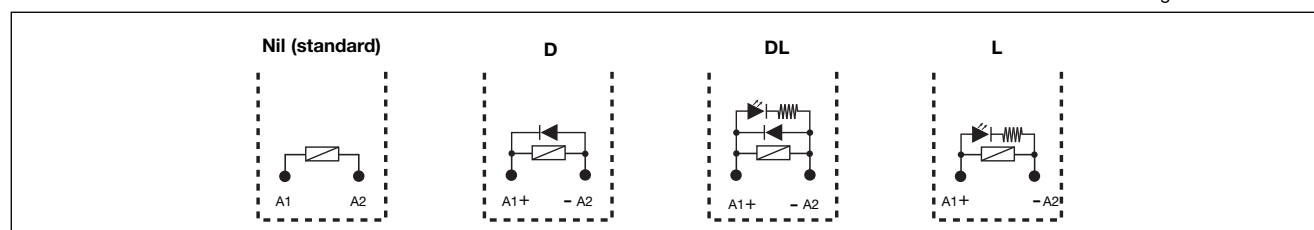
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max.Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
<b>A6</b>	6	4.8	1.8	6.6	330	280	6.5
<b>A12</b>	12	9.6	3.6	13.2	167	142	25.5
<b>A24</b>	24	19.2	7.2	26.4	83	70	102
<b>A36</b>	36	28.8	10.8	39.6	55	47	230
<b>A48</b>	48	38.4	14.4	52.8	42	36	410
<b>A110</b>	100/110	88	33.0	121	18	15	2300
<b>A120</b>	120	96	36.0	142	17	14.5	2700
<b>A220</b>	220	176	66.0	242	9	7.7	8600
<b>A240</b>	240	192	72.0	264	8.3	7	10000
<b>A380</b>	380	304	114	418	5.2	4.4	27500

## Options

Nil = Standard (Fig.1)  
D = Free Wheeling diode (DC coil only)  
F = Flange Mount (Fig.2)  
G = Gold Plated contacts

L = LED  
T = Test Button

**Note:**  
In case of more options use the alphabetical order for coding.  
LED and test button are not available on flange mount version



## Contact Characteristics

<b>Contact Rating</b> (With resistive load)	<b>10A - 250VAC</b>	<b>Max Switching Power</b>	<b>2500VA / 280W</b>
<b>Usually rating</b>	<b>10A-250VAC / 28VDC</b>	<b>Life</b>	<b>Electrical life</b> <b>1x10<sup>5</sup> cycles (3600ops/h)</b>
<b>Material</b>	<b>AgSnO<sub>2</sub>In<sub>2</sub>O<sub>3</sub></b>	<b>Mechanical</b>	<b>1x10<sup>7</sup> cycles (18000 ops/h)</b>
<b>Contact Resistance</b>	<b>≤50mΩ</b>	<b>UL/CSA ratings</b>	<b>1/3Hp 120VAC</b> <b>1/2Hp 240VAC</b> <b>10A @ 30VDC</b> <b>10A @ 250VAC</b>
<b>Current</b> Max. switching current Min. switching current Min. switching current G version	<b>10A</b> <b>10mA @ 12VDC</b> <b>1mA @ 6VDC</b>		

## Insulation

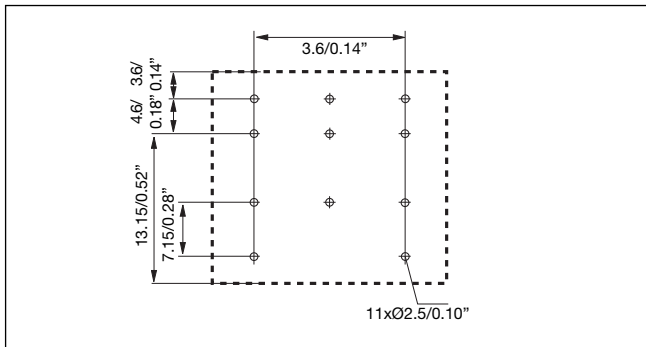
<b>Test voltage</b> (1min.) Between coil and contacts Between open contacts Contact / contact	<b>2000VAC</b> <b>1200VAC</b> <b>1200VAC</b>	<b>Insulation According to EN61810-5</b> Rated insulation voltage Impulsive insulation Overvoltage categor	<b>250V</b> <b>2kV</b> <b>II</b>
<b>Insulation resistance</b>	<b>≥1000MΩ - 500V</b>		



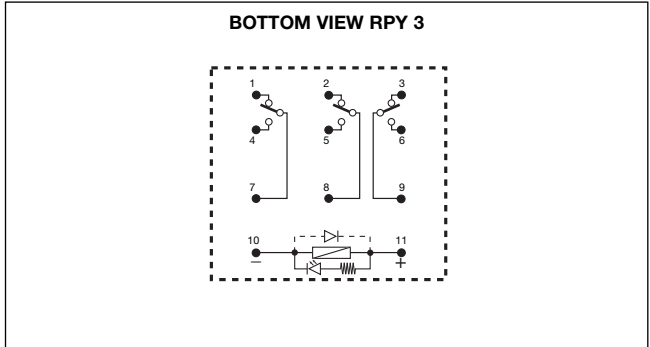
General Data

Nominal coil power	1.4W DC – 1.2VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	≤20ms	Shock resistance	
Release time (at nominal voltage)	≤20ms	Functional	98m/s <sup>2</sup> (10G)
Ambient temperature	-25° to +55°C (-13° to +131°F)	Termination	Flanges (blades) 5mm (0.20")
Ambient humidity	35% to 85%	Construction	Dust cover
		Weight	50g (1.76oz)

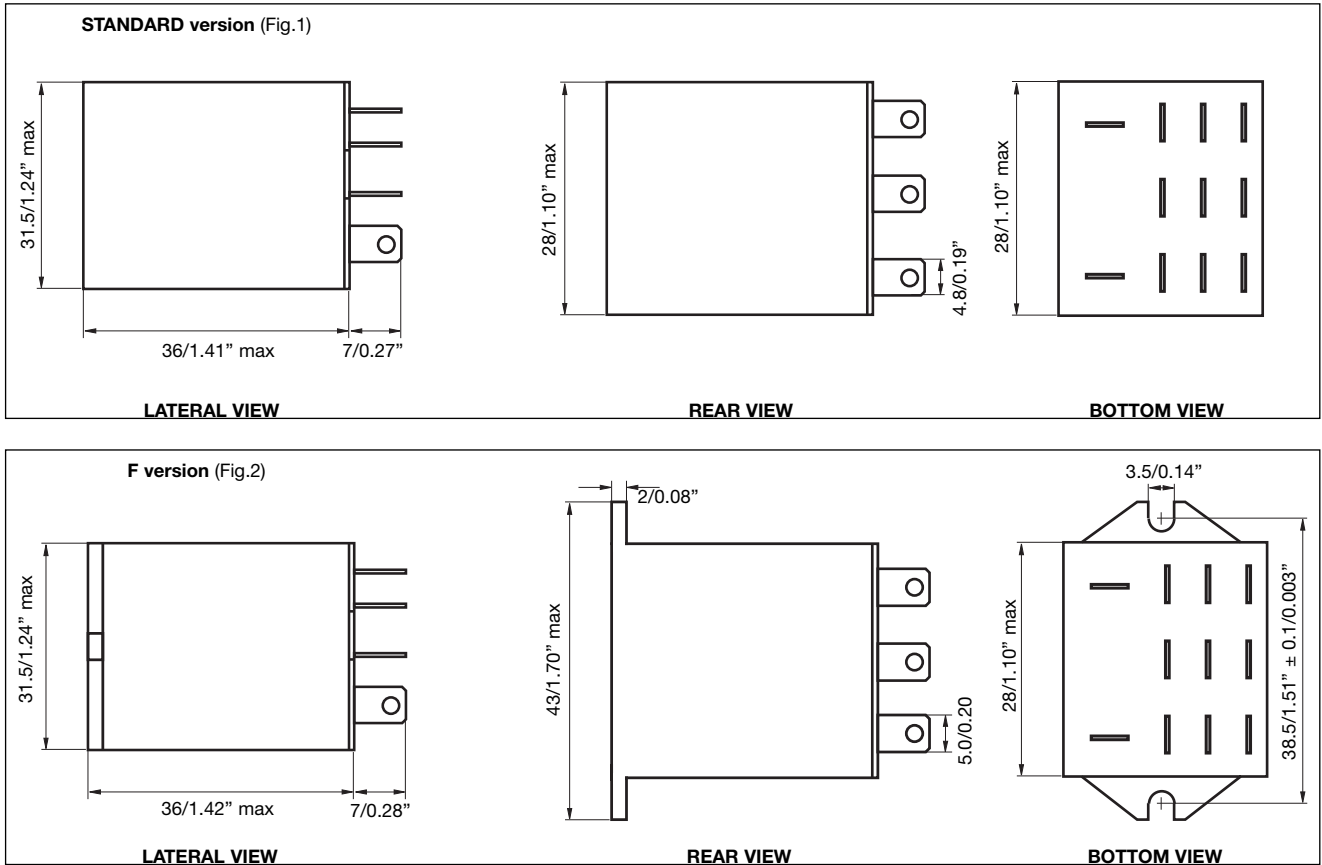
Pin View mm/inches



Wiring Diagram

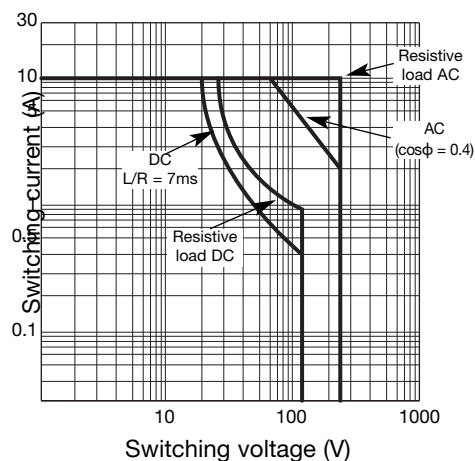


Dimensions mm/inches

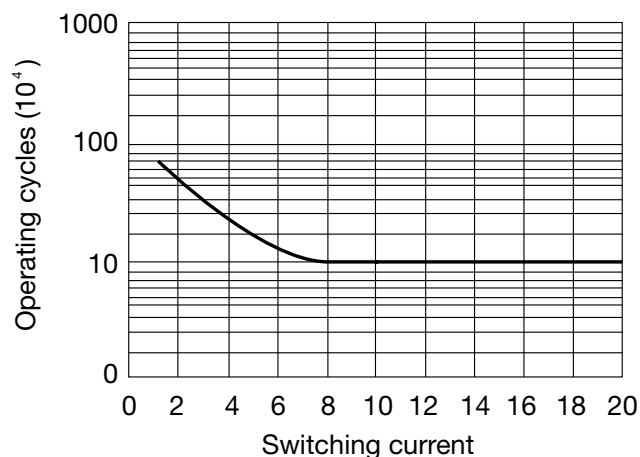


## Diagrams

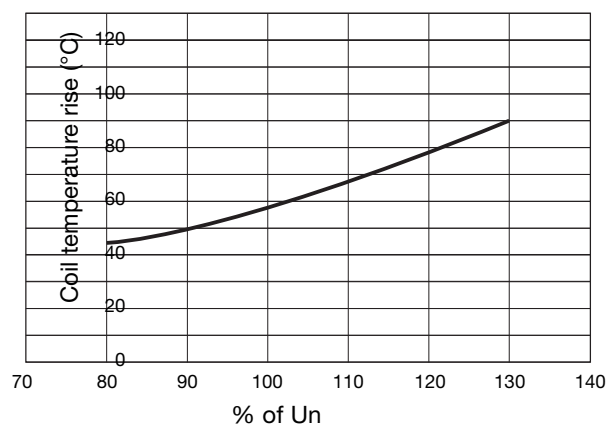
### Max. switching current



### Electrical life 250VAC Resistance load



### Temperature curve of coil



## Bases and Sockets

DIN rail sockets code is **ZPY11A** details and specifications on page 64 of industrial relays catalogue.

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