Industrial Relay
Type RPY 3 10A
Monostable


RPY 3

- **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

E73404

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	Contact rating	Contact code
3 change over contact (DPDT- 3 form C)	10A	**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

Specifications are subject to change without notice. Pictures are just an example. For special features and/or customization, please ask to our sales network. 12/03/15

CARLO GAVAZZI

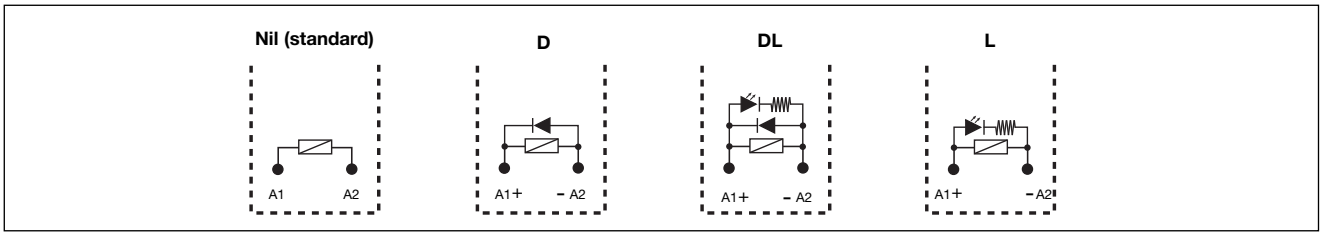
Coil Characteristics, AC @ +25°C (77°F), coil power 2VA

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	
A6	6	4.8	1.8	6.6	330	280	6.5
A12	12	9.6	3.6	13.2	167	142	25.5
A24	24	19.2	7.2	26.4	83	70	102
A36	36	28.8	10.8	39.6	55	47	230
A48	48	38.4	14.4	52.8	42	36	410
A110	100/110	88	33.0	121	18	15	2300
A120	120	96	36.0	142	17	14.5	2700
A220	220	176	66.0	242	9	7.7	8600
A240	240	192	72.0	264	8.3	7	10000
A380	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

Contact Rating (With resistive load)	**10A - 250VAC**
Usually rating	**10A-250VAC / 28VDC**
Material	**$AgSnO_2In_2O_3$**
Contact Resistance	**≤50mΩ**
Current	
Max. switching current	**10A**
Min. switching current	**10mA @ 12VDC**
Min. switching current G version	**1mA @ 6VDC**

Max Switching Power	**2500VA / 280W**
Life	
Electrical life	**$1x10^5$ cycles (3600ops/h)**
Mechanical	**$1x10^7$ cycles (18000 ops/h)**
UL/CSA ratings	**1/3Hp 120VAC** **1/2Hp 240VAC** **10A @ 30VDC** **10A @ 250VAC**

Insulation

Test voltage (1min.)	
Between coil and contacts	**2000VAC**
Between open contacts	**1200VAC**
Contact / contact	**1200VAC**
Insulation resistance	**≥1000MΩ - 500V**

Insulation According to EN61810-5	
Rated insulation voltage	**250V**
Impulsive insulation	**2kV**
Overvoltage categor	**II**

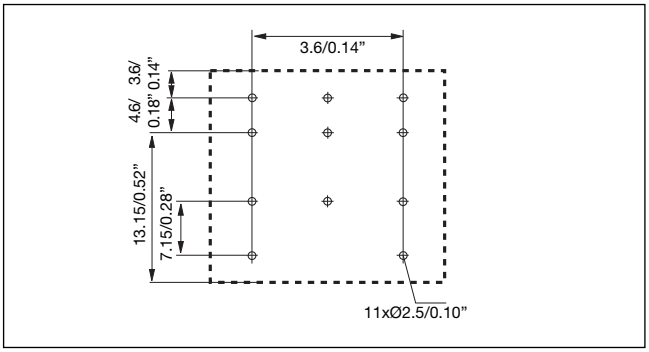
CARLO GAVAZZI

General Data

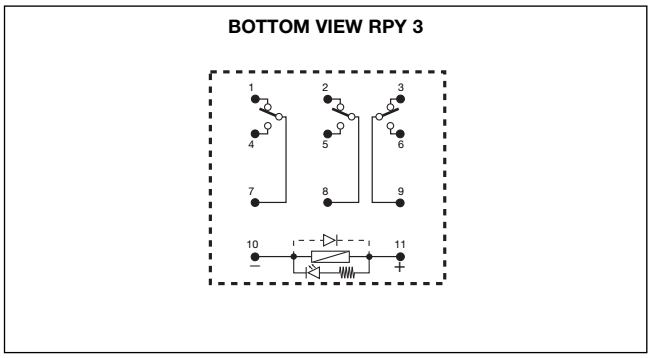
Nominal coil power	**1.4W DC – 1.2VA AC**
Operating time (at nominal voltage)	**≤20ms**
Release time (at nominal voltage)	**≤20ms**
Ambient temperature	**-25° to +55°C (-13° to +131°F)**
Ambient humidity	**35% to 85%**

Vibration resistance	**10 to 55Hz 1mm (0.04")**
Shock resistance	
Functional	**98m/s² (10G)**
Termination	**Flanges (blades) 5mm (0.20")**
Construction	**Dust cover**
Weight	**50g (1.76oz)**

Pin View mm/inches

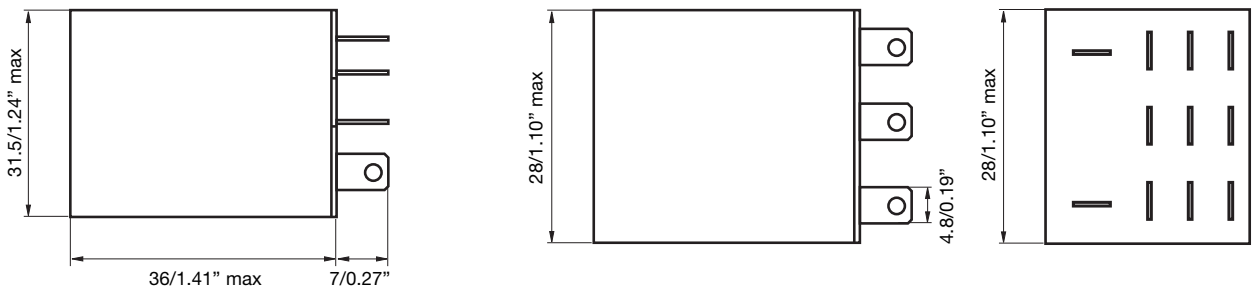


Wiring Diagram



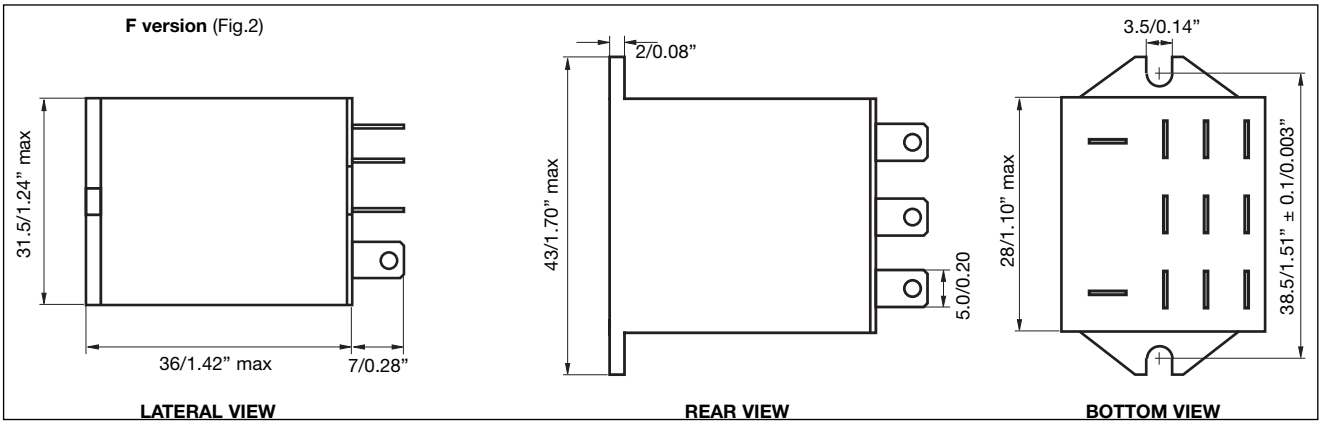
Dimensions mm/inches

STANDARD version (Fig.1)



LATERAL VIEW REAR VIEW BOTTOM VIEW

F version (Fig.2)

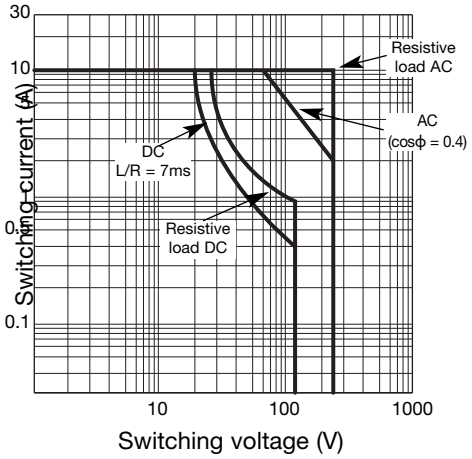


LATERAL VIEW REAR VIEW BOTTOM VIEW

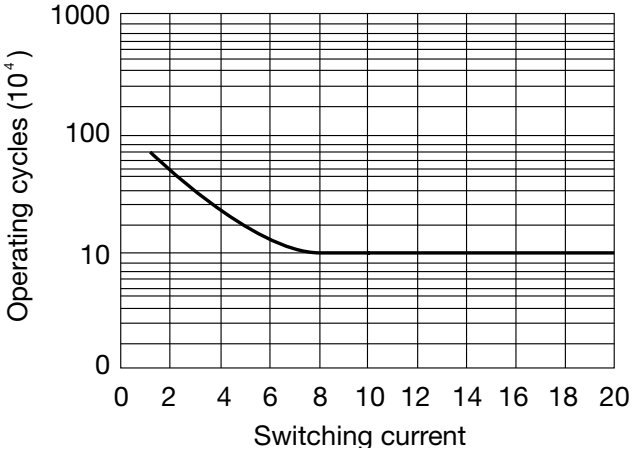
Specifications are subject to change without notice. Pictures are just an example. For special features and/or customization, please ask to our sales network. 12/03/15

Diagrams

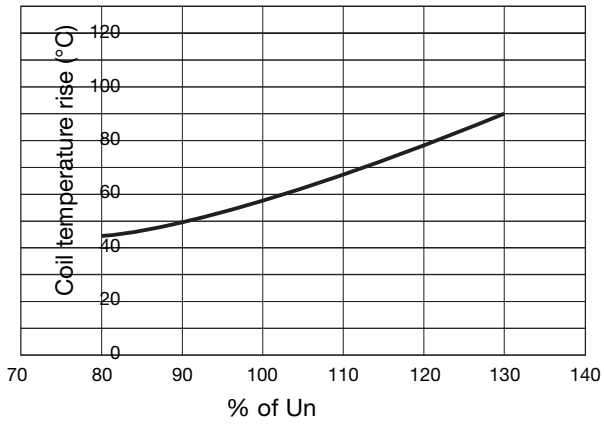
Max. switching current



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.