

Industrial Relay Type RPY 4 10A Monostable

CARLO GAVAZZI



- High switching power
- Wide range of applications
- 10A switching capacity
- 4 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 1, 2, 3, 4 pole

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

Approvals



Ordering Key

RPY A 004 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: 850g
(W 9.45 x D 4.13 x H 1.50) inches Weight: 29.99oz

Contact configuration

4 change over contacts (DPDT- 4 form C)

Contact rating

10A

Contact code

004

Coil Characteristics, DC @ +25°C (+77°F), coil power 1.5W

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	0.6	6.6	250	24
9	9	6.75	0.9	9.9	170	54
12	12	9	1.2	13.2	125	96
24	24	18	2.4	26.4	70	360
36	36	27	3.6	39.6	42	865
48	48	36	4.8	52.8	31	1540
110	110	82.5	11	121	16	6800
120	115/120	86	11.5	132	7.8	11000*
220	220	165	22	242	7.6	29000

*coil power 0.9 W

Coil Characteristics, AC @ +25°C (+77°F), coil power 2.5VA

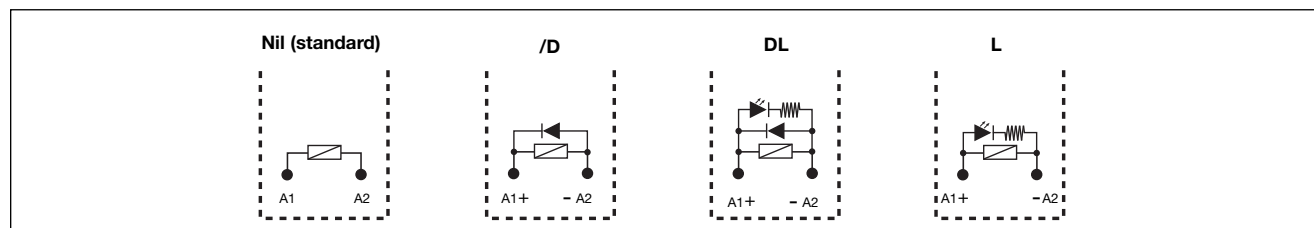
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	4.8	1.8	6.6	420	360	5
A12	12	9.6	3.6	13.2	210	180	20
A24	24	19.2	7.2	26.4	100	85	80
A36	36	28.8	10.8	39.6	70	60	180
A48	48	38.4	14.4	52.8	52	44	320
A110	100/110	88.0	30.0	121.0	25/23	21/19.5	1680
A120	120	96.0	36.0	142.0	20	17	2000
A220	220	176	66.0	242.0	12	10	6700
A240	240	192	72.0	264.0	10	8.5	8000
A380	380	304	114.0	418.0	6.5	5.5	29000

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	Max Switching Power	2500VA / 280W
Usually rating	10A-250VAC / 28VDC	Life	
Material	AgSnO₂In₂O₃	Electrical life	1x10⁵ cycles (3600ops/h)
Contact Resistance	≤50mΩ	Mechanical	1x10⁷ cycles (18000ops/h)
Current		UL/CSA ratings	1/3Hp 120VAC
Max. switching current	10A		1/2Hp 240VAC
Min. switching current	10mA @ 12VDC		10A @ 30VDC
Min. switching current G version	1mA @ 6VDC		10A @ 250VAC

Insulation

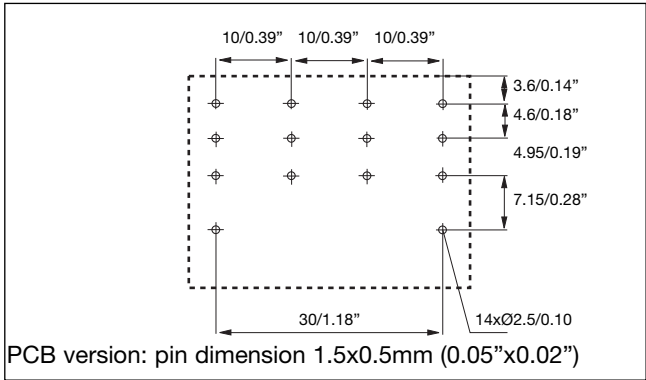
Test voltage (1min.)		Insulation According to EN61810-5	
Between coil and contacts	2000VAC	Rated insulation voltage	250V
Between open contacts	1200VAC	Impulsive insulation	2kV
Contact / contact	1200VAC	Overvoltage categor	II
Insulation resistance	≥1000MΩ - 500V		



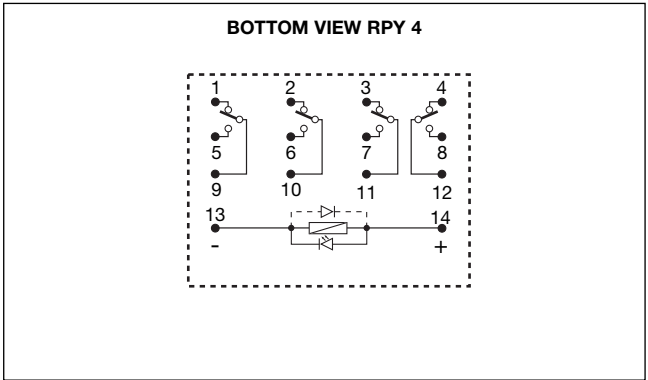
General Data

Nominal coil power	1.5W DC – 2.5VA 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 ² (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	65g (2.29oz)

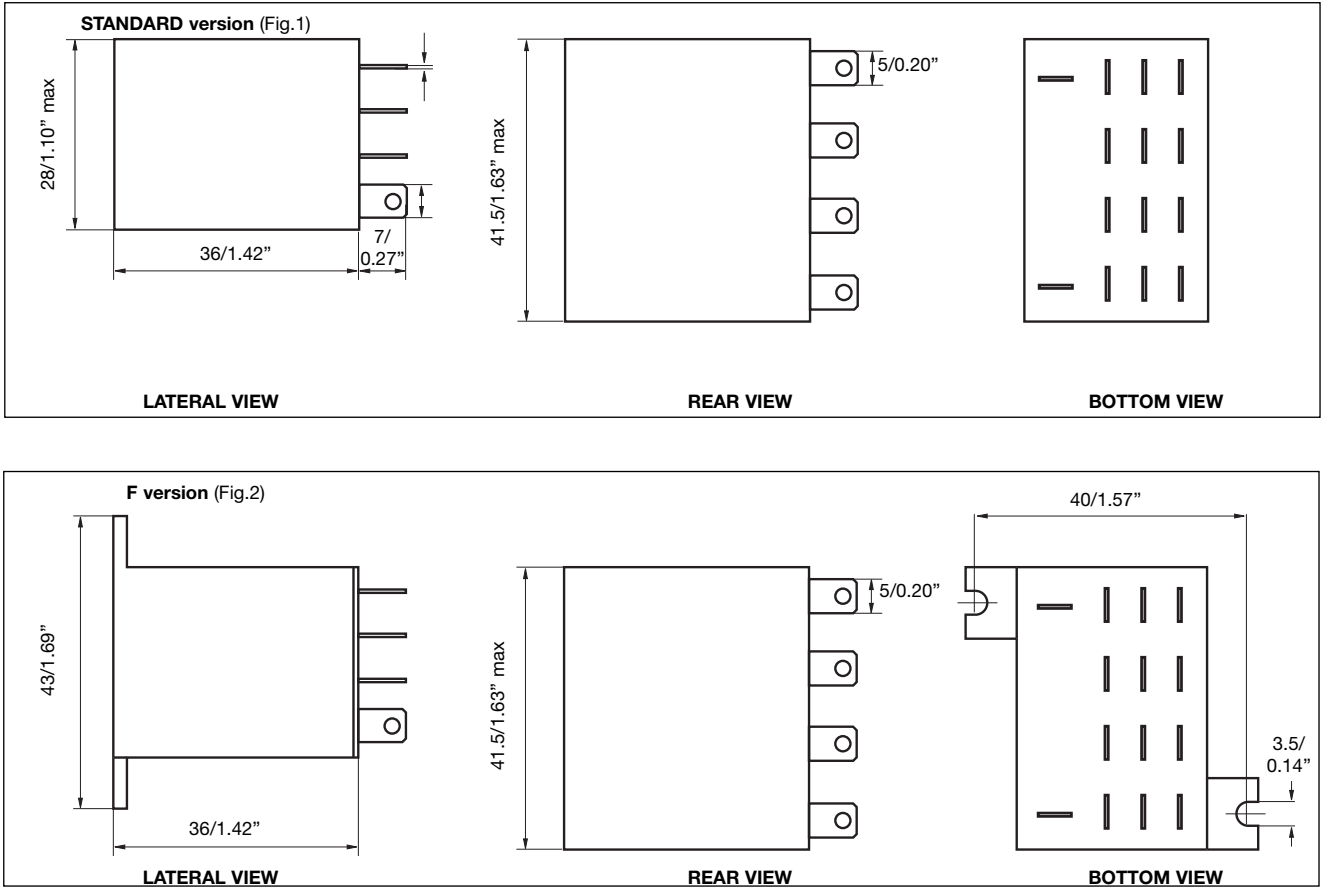
Pin View mm/inches



Wiring Diagram

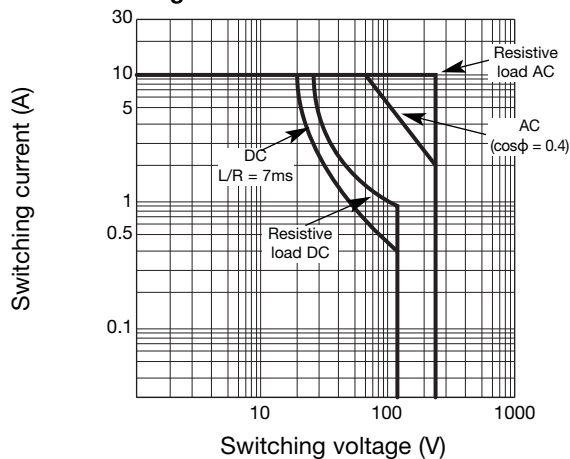


Dimensions mm/inches



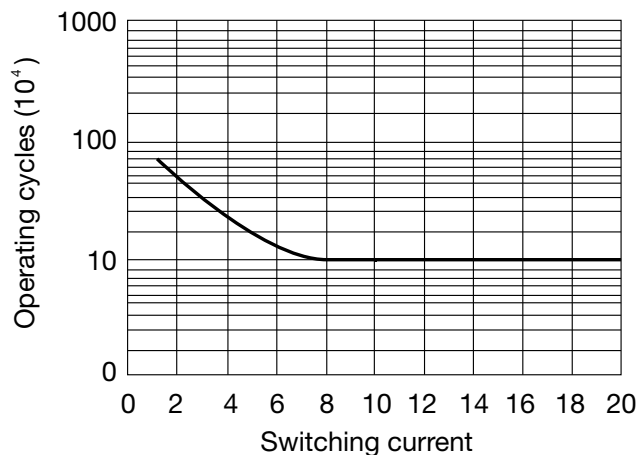
Diagrams

Max. switching current

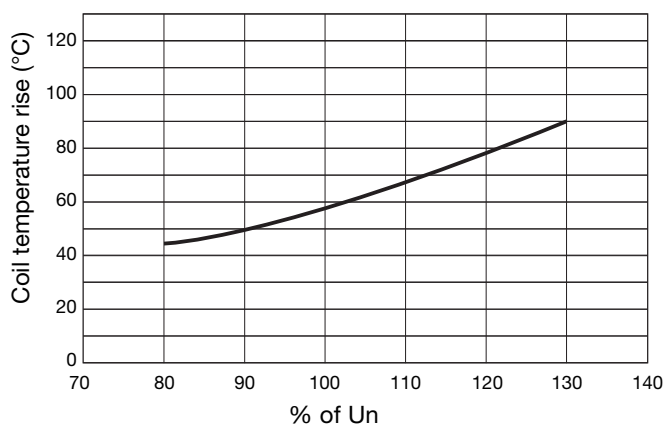


Electrical Life

250VAC Resistance load



Temperature curve of coil



Bases and Sockets

DIN rail sockets code is **ZPY14A** details and specifications on page 65 of industrial relays catalogue.
PCB sockets code is **ZY14** details and specifications on page 67 of industrial relays catalogue.