

Industrial Relay Type RPY 1 16A Monostable

CARLO GAVAZZI



- High switching power
- Small size
- Wide range of applications
- 16A switching capacity
- 1 pole with 2 terminals
- Flanged (blade) pins 5mm (0.20")
- DC coils from 6 to 240V
- AC coils from 6 to 380V
- High sensitivity
- 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.

Ordering Key

RPY A 001 A24 DLT

Type

Terminal type

Contact code

Coil code

Options

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

Box content: 20 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

Approvals



E73404



Type Selection

Contact configuration

1 change over contact (DPDT- 1form C)

Contact rating

16A

Contact code

001

Coil Characteristics, DC @ +25°C (+77°F), coil power 900mW

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	150	40
9	9	6.75	0.90	9.9	100	90
12	12	9	1.20	13.2	75	160
24	24	18	2.40	26.4	36.9	650
36	36	27	3.60	39.6	24	1500
48	48	36	4.80	52.8	18.5	2600
100	100	75	10	110	9.09	11000
110	110	82.5	11	121	10	11000
220	220	165	22	242	5.24	42000
240	240	180	24	264	3.75	64000

Coil Characteristics, AC @ +25°C (+77°F), coil power 1.2V A

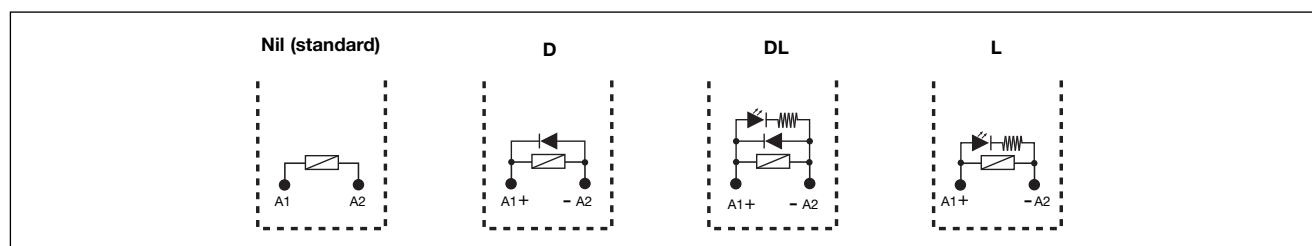
Coil Code	Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
					50Hz	60Hz	
A6	6	6	1.8	6.6	230	200	11.5
A12	12	12	3.6	13.2	120	1000	40
A24	24	24	7.2	26.4	57.5	50	160
A36	36	36	10.8	39.6	38	33	370
A48	48	48	14.4	52.8	28.75	25	600
A110	100/110	110	33	121	12.7	11	3750
A120	120	120	36	142	11.5	10	3900
A220	220	220	66	242	6.3	5.5	13000
A240	240	240	72	264	5.75	5	18790
A380	380	380	114	418	3.62	3.15	42000

Options

Nil = Standard (fig. 1)
D = Free Wheeling Diode (DC coil only)
F = Flange Mount (fig. 2)
F1 = Lateral Flange (fig. 3)
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)	16A - 250VAC	Max Switching Power	4000VA / 450W
Rated values	16A-250VAC / 28VDC	Life	
Material	AgSnO₂In₂O₃	Electrical life	1x10⁵ cycles (3600ops/h)
Contact Resistance	≤50mΩ	Mechanical	1x10⁷ cycles (18000ops/h)
Current		UL/CSA ratings	
Max. switching current	16A		1/2Hp 120VAC
Min. switching current	10mA @ 12VDC		1Hp 240VAC
Min. switching current G version	1mA @ 6VDC		16A @ 30VDC
			16A @ 250VAC

Insulation

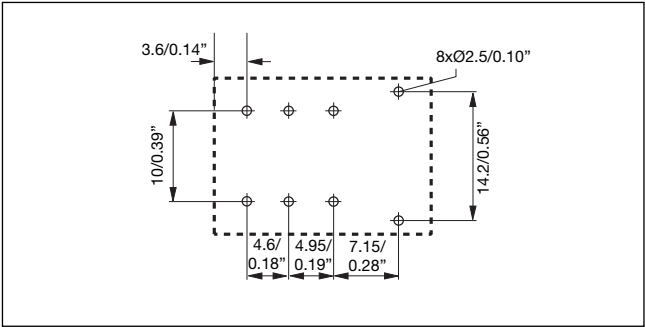
Test voltage (1min.)		Insulation According to EN61810-5	
Between coil and contacts	2000VAC	Rated insulation voltage	250V
Between open contacts	1200VAC	Impulsive insulation	2kV
Contact / contact	1200VAC	Overvoltage category	II
Insulation resistance	≥1000MΩ - 500V		



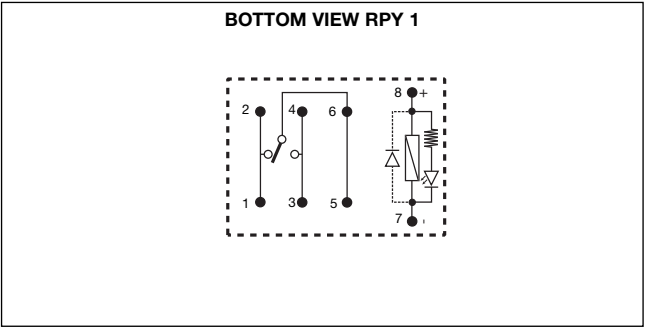
General Data

Nominal coil power	0.9W DC – 1.2VA AC	Vibration resistance	10 to 55Hz 1mm (0.04")
Operating time (at nominal voltage)	≤20ms	Shock resistance Functional	98m/s ² (10G)
Release time (at nominal voltage)	≤20ms	Termination	Flanges (blades) 5mm (0.20")
Ambient temperature	-25° to + 55°C (-13° to +131°F)	Construction	Dust cover IP 40
Ambient humidity	35% to 85%	Weight	35g (1.23oz)

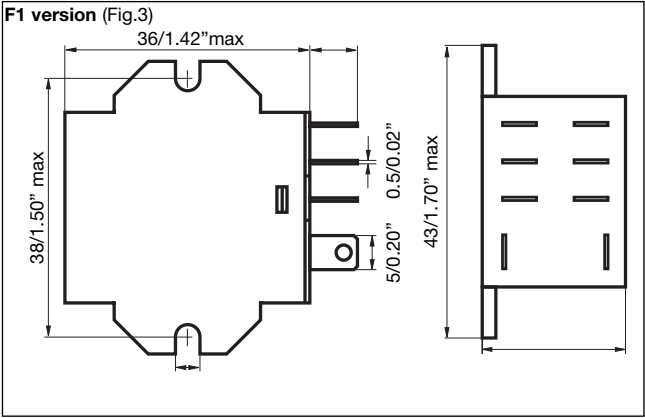
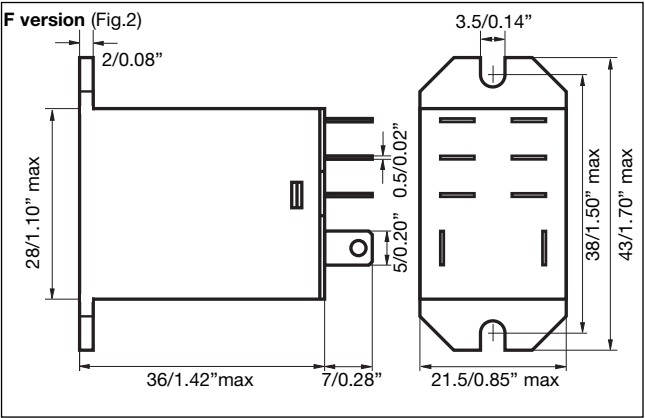
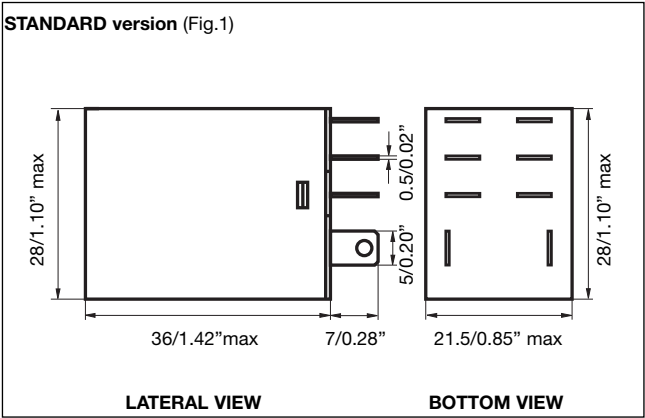
Pin View mm/inches



Wiring Diagram

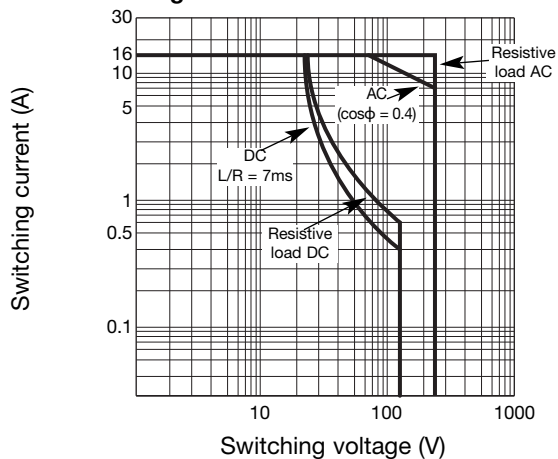


Dimensions mm/inches



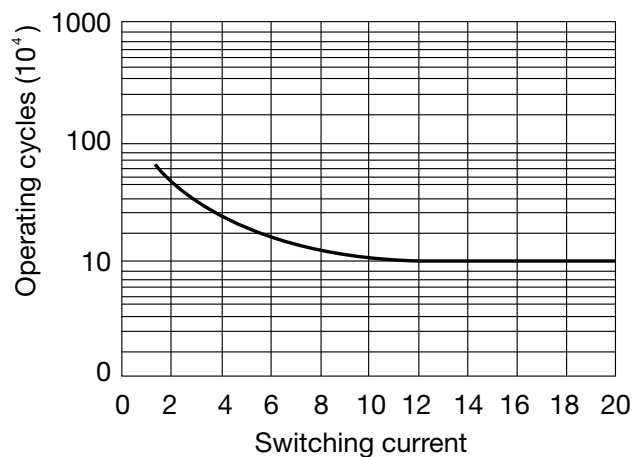
Diagrams

Max. switching current

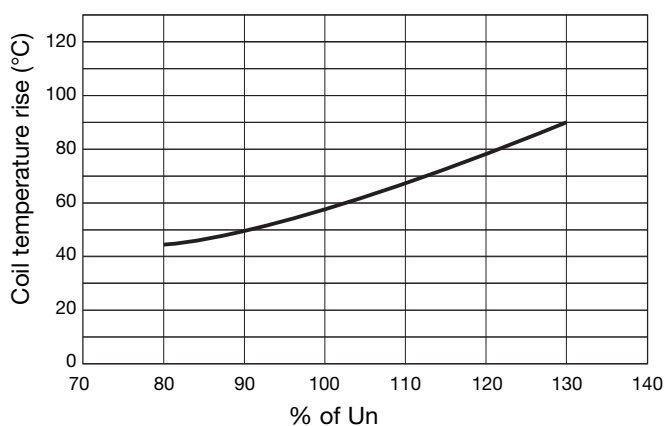


Electrical Life

250VAC Resistance load



Temperature curve of coil



Bases and Sockets

DIN rail sockets code are **ZPY8A** and **ZPY08C** details and specifications on pages 63 and 66 of industrial relays catalogue.
PCB sockets code is **ZY08** details and specifications on page 67 of industrial relays catalogue.