

Industrial Relay Type RPY 1 16A Monostable



- 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 _____

Approvals



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

Type Selection

| Contact configuration | Contact rating | Contact code |
|---------------------------------------|----------------|--------------|
| 1 change over contact (DPDT- 1form C) | 16A | 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

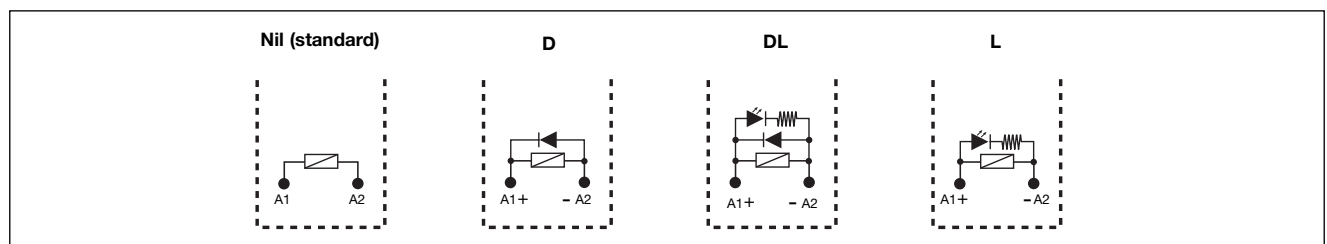
| Coil Code | Nominal Voltage VAC | Pick-up Voltage VAC | Drop-out Voltage VAC | Max. Allowed Voltage VAC | Coil Current mA | | Coil Resistance Ω |
|-----------|---------------------|---------------------|----------------------|--------------------------|-----------------|------|--------------------------|
| | | | | | 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 | 1/2Hp 120VAC |
| Max. switching current | 16A | | 1Hp 240VAC |
| Min. switching current | 10mA @ 12VDC | | 16A @ 30VDC |
| Min. switching current G version | 1mA @ 6VDC | | 16A @ 250VAC |

Insulation

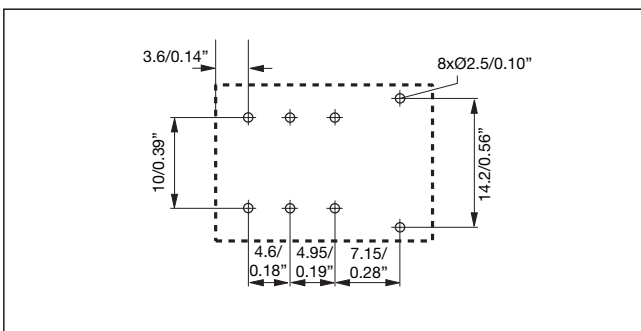
| | | | |
|------------------------------|-----------------------------------------|------------------------------------------|-------------|
| Test voltage (1min.) | | Insulation According to EN61810-5 | |
| Between coil and contacts | 2000VAC | Rated insulation voltage | 250V |
| Between open contacts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

General Data

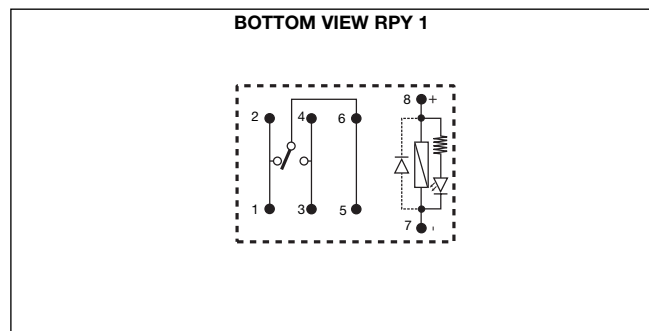
| | |
|----------------------------------------|---------------------------------|
| Nominal coil power | 0.9W DC – 1.2VA AC |
| Operating time (at nominal voltage) | ≤20ms |
| Release time (at nominal voltage) | ≤20ms |
| Ambient temperature | -25° to + 55°C (-13° to +131°F) |
| Ambient humidity | 35% to 85% |

| | |
|--------------------------------|------------------------------|
| Vibration resistance | 10 to 55Hz 1mm (0.04") |
| Shock resistance Functional | 98m/s ² (10G) |
| Termination | Flanges (blades) 5mm (0.20") |
| Construction | Dust cover IP 40 |
| Weight | 35g (1.23oz) |

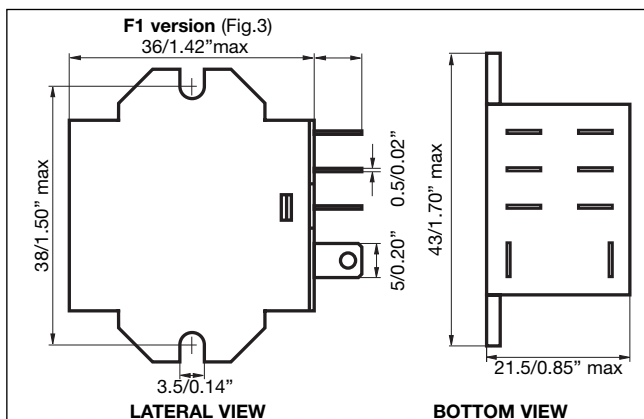
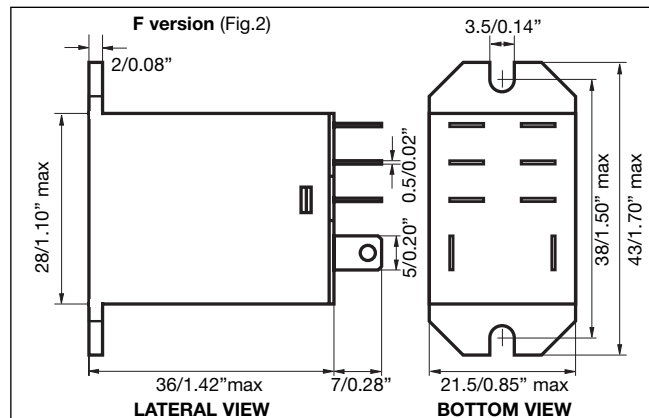
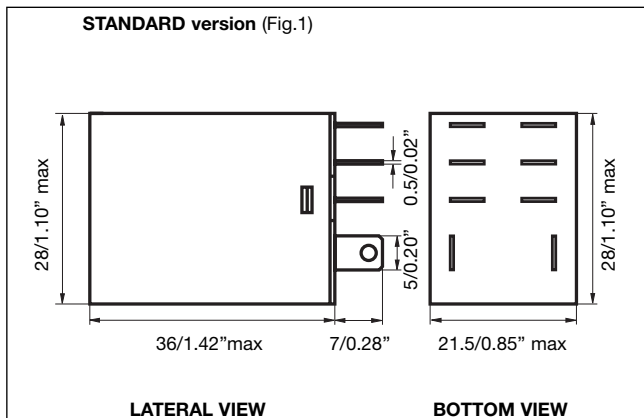
Pin View mm/inches



Wiring Diagram

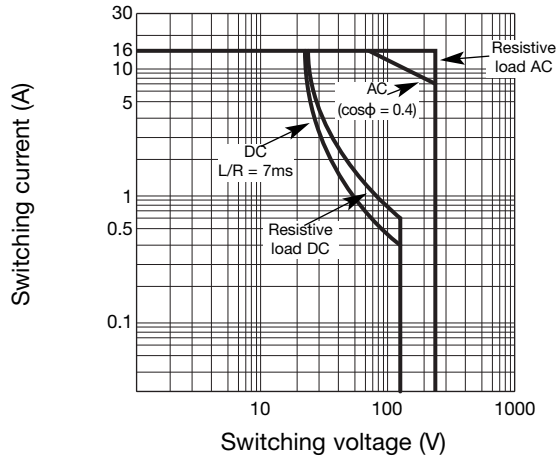


Dimensions mm/inches

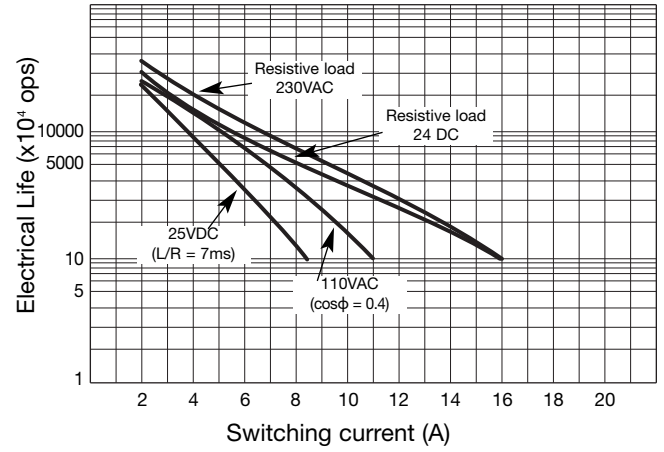


Diagrams

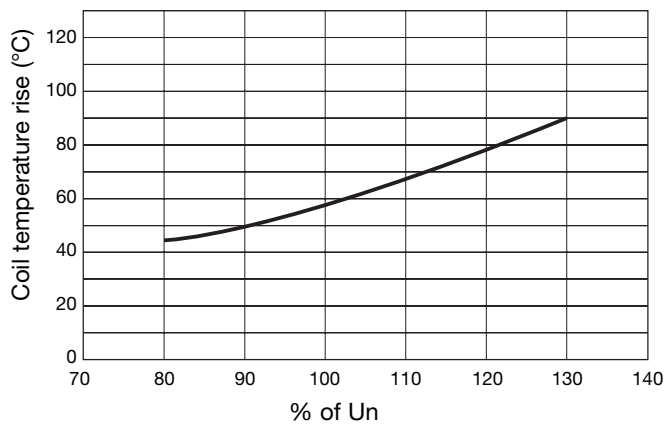
Max. switching current



Electrical Life



Temperature curve of coil



Bases and Sockets

DIN rail sockets code are **ZPY8A** and **ZPY08C** details and specifications on pages 68 and 71 of industrial relays catalogue.
 PCB sockets code is **ZY08** details and specifications on page 72 of industrial relays catalogue.