

# Midi 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
- DC coils from 6 to 240V
- AC coils from 6 to 380V
- High sensitivity
- Conforms to CE low voltage directive
- UL, CSA, TUV 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 L**

Type

Terminal type

Contact code

Coil Voltage (A=Ac Nil=Dc)

Options

### Approvals



- Options:** Nil = Standard  
 L = LED  
 T = Test Button  
 G = Gold Plated contacts  
 D = Free Wheeling diode  
 F = Flange Mount  
 F1 = lateral flange

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

### Type Selection

Contact configuration	Contact rating	Contact code
1 change over contact (DPDT- 1form C)	16A	001

### Coil Characteristics, DC (@25 °C), coil power 900mW

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max.Allowed Voltage VDC	Coil Current mA	Coil Resistance Ω
6	4.5	0.60	6.6	150	40
9	6.75	0.90	9.9	100	90
12	9	1.20	13.2	75	160
24	18	2.40	26.4	36.9	650
36	27	3.60	39.6	24	1500
48	36	4.80	52.8	18.5	2600
100	75	10	110	9.09	11000
110	82.5	11	121	10	11000
220	165	22	242	5.24	42000
240	180	24	264	3.75	64000



### Coil Characteristics, AC (@25 °C), coil power 1.2VA

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Max. Allowed Voltage VAC	Coil Current mA		Coil Resistance Ω
				50Hz	60Hz	
6	4.8	1.8	6.6	230	200	11.5
12	9.6	3.6	13.2	120	100	40
24	19.2	7.2	26.4	57.5	50	160
36	28.8	10.8	39.6	38	33	370
48	38.4	14.4	52.8	28.75	25	600
110	88	33	121	12.7	11	3750
120	96	36	142	11.5	10	3900
220	176	66	242	6.3	5.5	13000
240	192	72	264	5.75	5	18790
380	304	114	418	3.62	3.15	42000

### Contact Characteristics

<b>Contact Rating</b> (With resistive load)	<b>16A – 250VAC</b>	<b>Max Switching Power</b>	<b>4000VA / 450W</b>
<b>Usually rating</b>	<b>16A-250VAC / 28VDC</b>	<b>Life</b>	<b>1x10<sup>5</sup> cycles (3600 ops/h)</b> <b>1x10<sup>7</sup> cycles (18000 ops/h)</b>
<b>Material</b>	<b>AgSnO<sub>2</sub></b>	Electrical life	
<b>Contact Resistance</b>	<b>≤ 50mΩ</b>	Mechanical	
<b>Current</b> Max. switching current	<b>16A</b>	<b>UL/CSA ratings</b>	<b>1/2Hp 110Vac</b> <b>1Hp 220Vac</b>

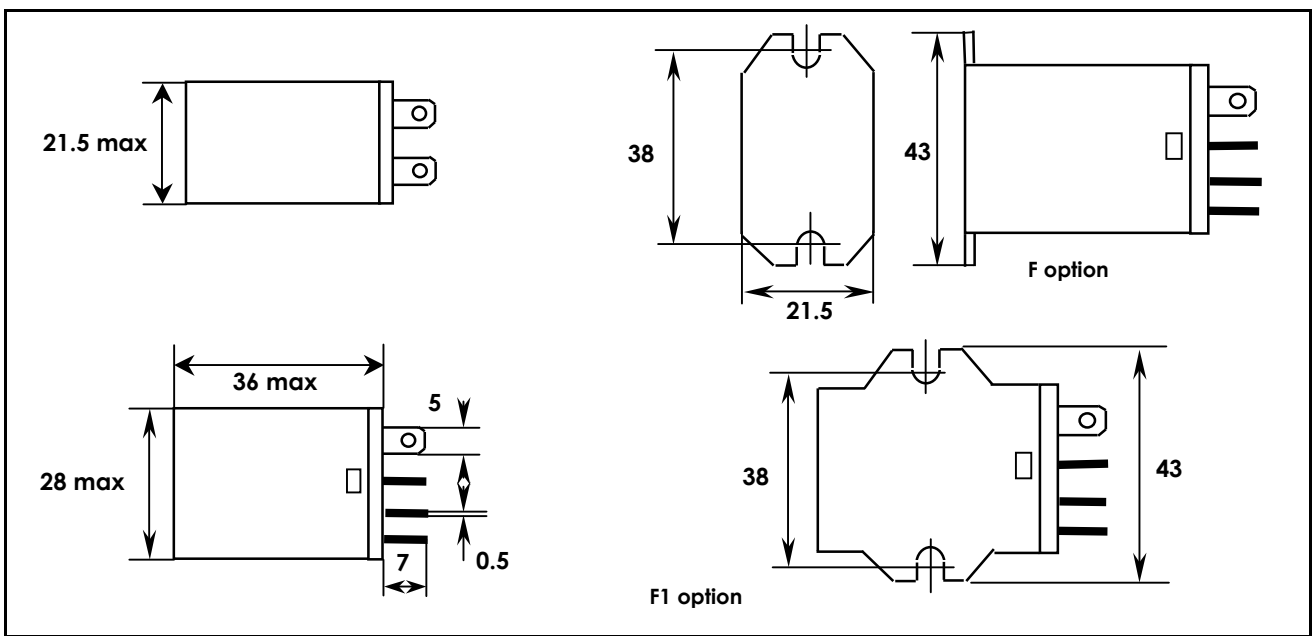
### Insulation

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

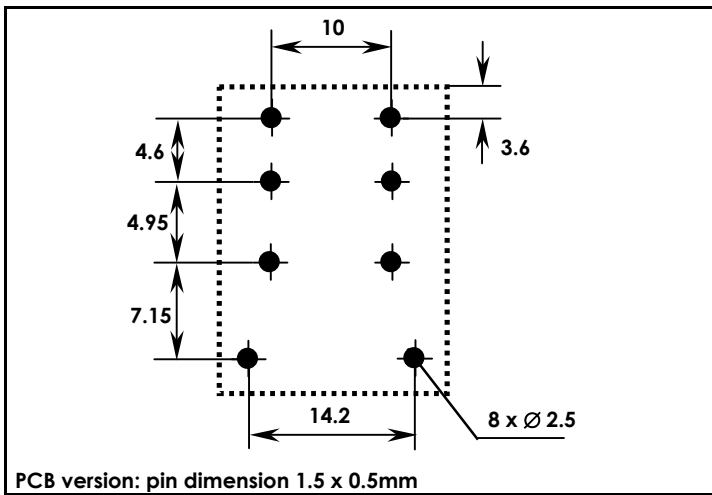
### General Data

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

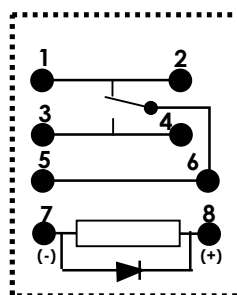
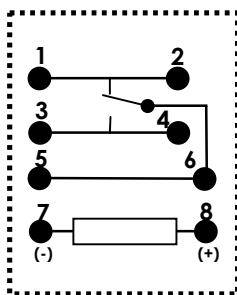
### Dimensions (mm)



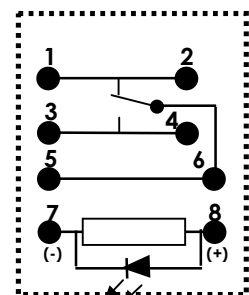
### Pin View



### Wiring diagram



D option

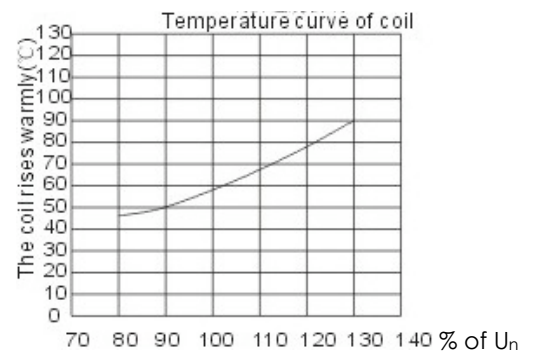
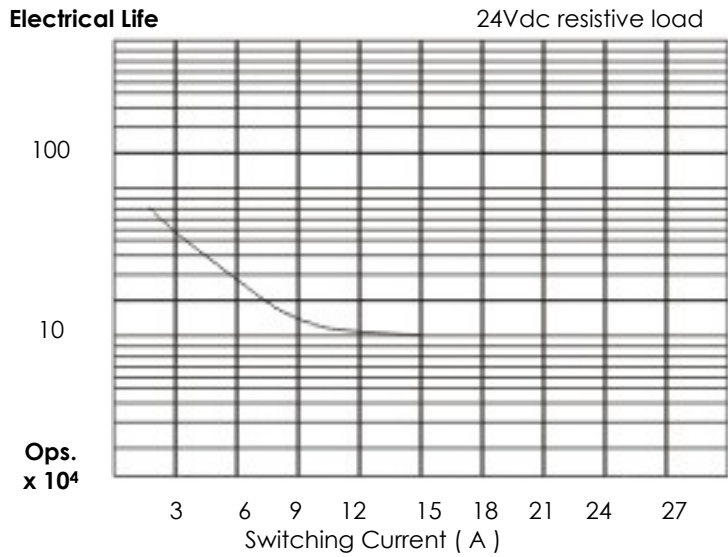


L option



## Diagrams

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## Bases and Sockets

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For RPY sockets refer to page xxx of general catalogue