

# Industrial Relay Type RCP Monostable

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- 8 or 11-pin socket mounting
- 2 or 3 change over contacts
- Long life (minimum 100.000 electrical operations) at 10 A 250 VAC /30 VDC
- Switching capacity 12 A (5x10<sup>4</sup> cycles)
- AC coils 6 to 230 VAC
- DC coils 6 to 110 VDC
- Matched sockets available
- Standard with LED, Push with arm and Flag
- IP 40
- Conform to CE low voltage directive
- IMQ, UL, TÜV, CSA approved

## Product Description

The RCP relay can be used for a wide range of industrial applications.

Available in 2 or 3 change-over contact configuration, Octal or Undecal version.

## Ordering Key

**RCP 8 002 24 DC**

Type \_\_\_\_\_  
 No. of pins \_\_\_\_\_  
 Contact code \_\_\_\_\_  
 Rated coil voltage \_\_\_\_\_  
 DC / AC \_\_\_\_\_

## Type Selection

Contact configuration	Contact rating	Contact code
2 change over contacts (DPDT {2-form C})	10 A	002
3 change over contacts (3PDT {3-form C})	10 A	003

## Coil Characteristics, DC

Nominal voltage VDC	At 20°C		At 40°C		Coil resistance Ω
	Pick-up voltage VDC	Drop-out voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	
6	4.8	0.6	5.2	0.6	23.5 ±10%
12	9.6	1.2	10.3	1.3	95.0 ±10%
24	19.2	2.4	20.7	2.6	430.0 ±10%
48	38.4	4.8	41.4	5.1	1630.0 ±15%
60	45.0	6.0	48.6	6.4	3000.0 ±15%
100	80.0	10.0	86.4	10.8	6800.0 ±15%
110	88.0	11.0	95.0	11.8	6800.0 ±15%

## Coil Characteristics, AC

Nominal voltage VAC	At 20°C		At 40°C		Coil resistance Ω
	Pick-up voltage VAC	Drop-out voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	
6	4.8	1.8	5.2	1.9	40.0 ±10%
12	9.6	3.6	10.3	3.8	160.0 ±10%
24	19.2	7.2	20.7	7.7	650.0 ±10%
48	38.4	14.4	41.4	15.5	2600.0 ±15%
115/120	88.0	36.0	95.0	38.8	11000.0 ±15%
230	176.0	72.0	190.0	77.7	11000.0 ±15%

Coil operating range: see diagram n° 1 pag. 18

## Contact Characteristics

<b>Arrangement</b>	002 / 003	<b>Current</b>	
<b>Contact rating</b> (with resistive load)	10 A - 250 VAC / 30 VDC	Max. switching current	10 A
<b>UL rating</b>	10 A - 250 VAC / 30VDC 1/3 HP at 240 VAC	Initial contact resistance	50 mΩ (at 1 A 6 VDC)
<b>Usually rating</b> (1x10 <sup>5</sup> ops)	10 A - 250 VAC / 30 VDC	Max. switch. voltage	250 VAC / 30 VDC
<b>Max. rating</b> (5x10 <sup>4</sup> ops)	12 A - 250 VAC / 30 VDC	Max. switch. power	2500 VA / 300 W
<b>Material</b>	Silver alloy	<b>Life</b>	
		Electrical life	1x10 <sup>5</sup> ops
		Mechanical life	1x10 <sup>7</sup> ops

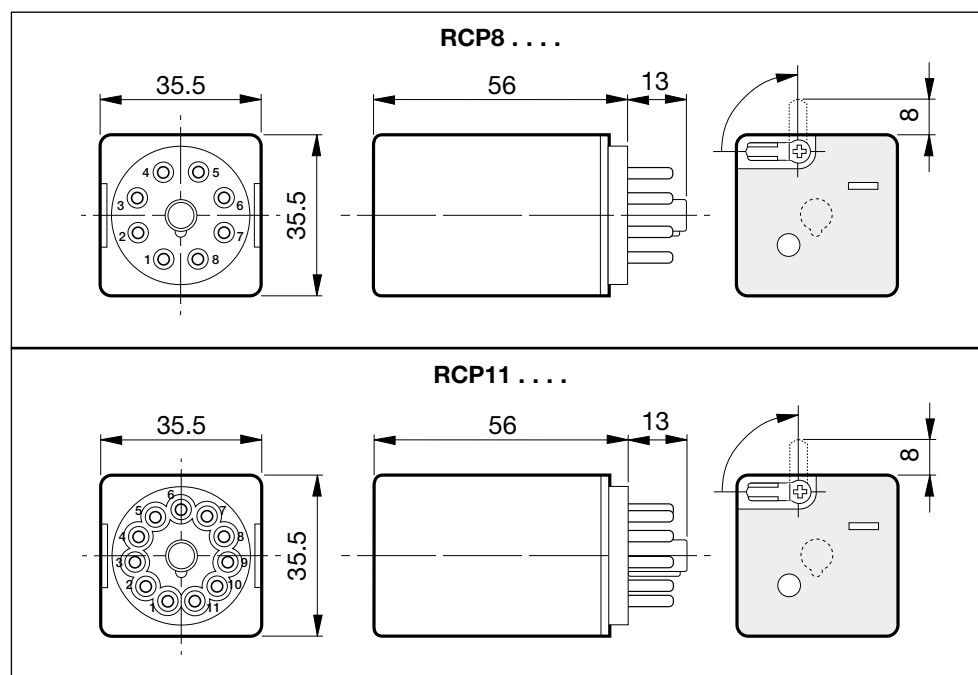
## Insulation

<b>Test Voltage</b> (1 min.)		<b>Insulation according to EN61810-5</b>	
Between coil and contacts	3750 VAC Vr.m.s	Rated insulation voltage	250 V
Between open contacts	750 VAC Vr.m.s	Impulsive insulation voltage	3.6 KV
Contact/Contact	1250 VA Vr.m.s	Pollution degree	2
<b>Initial insulation resistance</b>	500 MΩ - 500 VAC	Overvoltage category	III

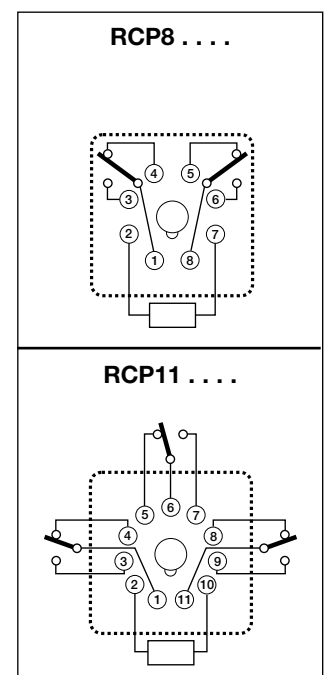
## General Data

<b>Nominal coil power</b>	1.5 W / 2.5 VA	<b>Vibration resistance</b>	10 to 55 Hz 1.5 mm
<b>Operating time</b> (At nominal voltage)	30 ms max.	<b>Shock resistance</b>	
<b>Release time</b> (At nominal voltage)	20 ms max.	Funktional	100 m/s <sup>2</sup> / 10 g
<b>Temperature rise</b> (At nominal voltage)	-40° C to +55° C	Destructive	500 m/s <sup>2</sup> / 50 g
<b>Ambient temperature</b>	+50° C	<b>Humidity</b>	98%, +40°C%
		<b>Termination</b>	Octal/Undecal-type plug
		<b>Construction</b>	Dust cover
		<b>Weight</b>	~ 85 g

## Dimensions

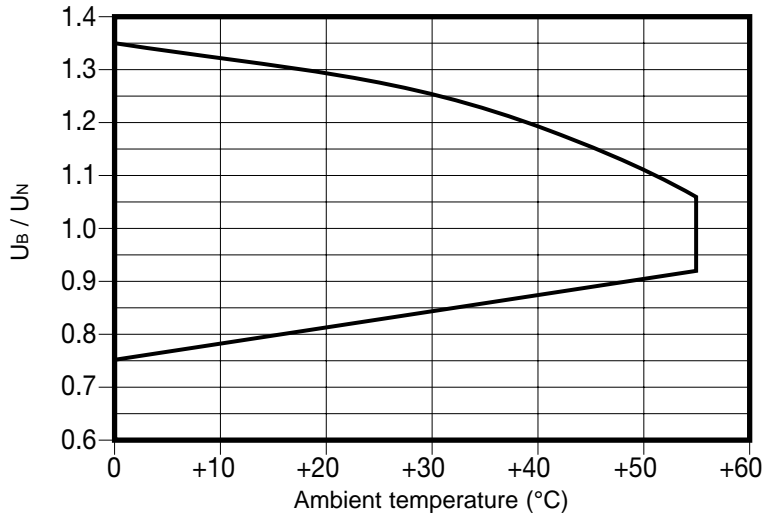


## Wiring Diagrams

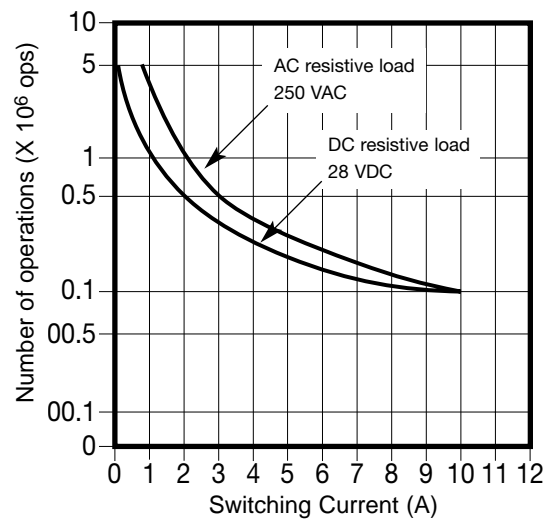
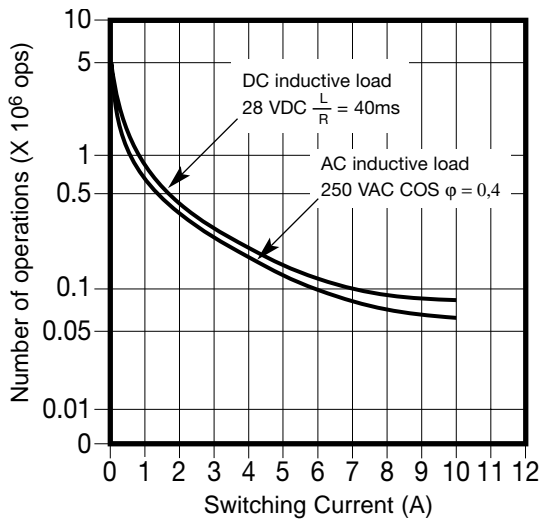


## Diagrams

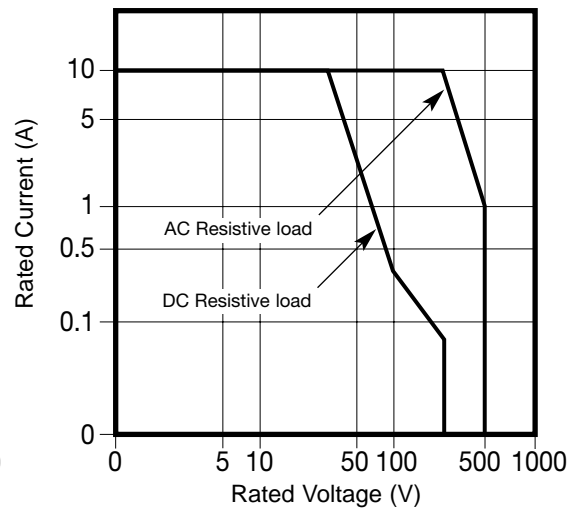
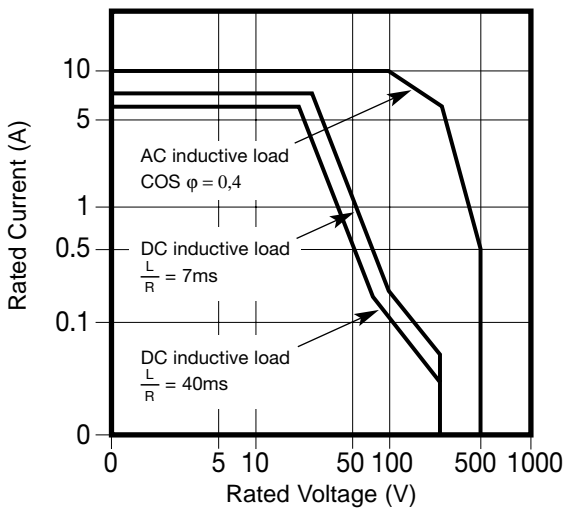
### 1 Coil Operating Range



### 2 Electrical life



### 3 Max. DC load breaking capacity



## Approvals



U.S.A.



CANADA



GERMANY



ITALY