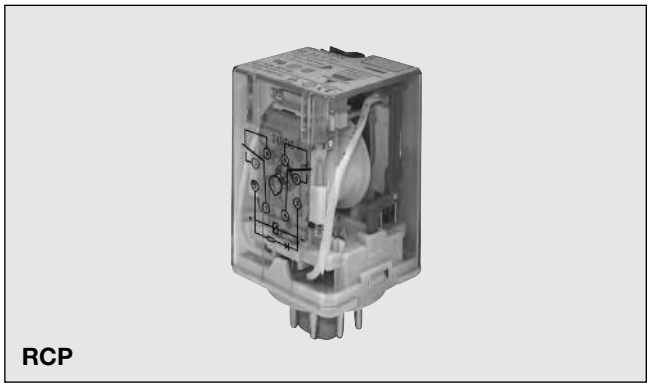
Industrial Relay
Type RCP
Monostable


RCP

- 8 or 11-pin socket mounting
- 2 or 3 change over contacts
- Long life (minimum 100.000 electrical operations) @ 10A 250VAC /30VDC resistive load
- AC coils 6 to 230VAC
- DC coils 6 to 110VDC
- Matched sockets available
- Standard with LED, Push arm and Flag
- IP 40
- Conform to CE low voltage directive
- TÜV, UL, CSA, IMQ, RINA (marine) 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 24VDC /1

- **Type**
- **No. of pins**
- **Contact code**
- **Coil code**
- **Options**

Approvals

TÜV E60304

Box content: 25 relays
Box size: (W 215 x D 205 x H 80) mm Weight: 2400g
(W 8.46 x D 8.07 x H 3.15) inches Weight: 84.65oz

Type Selection

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

Coil Characteristics, DC Standard Coils 1.5W

Coil Code	Nominal voltage VDC	@ +20°C (+68°F)		@ +40°C (+104°F)		Coil resistance Ω
		Pick-up voltage VDC	Drop-out voltage VDC	Pick-up voltage VDC	Drop-out voltage VDC	
6VDC	6	4.8	0.6	5.2	0.6	23.5 ±10%
12VDC	12	9.6	1.2	10.3	1.3	95.0 ±10%
24VDC	24	19.2	2.4	20.7	2.6	430.0 ±10%
48VDC	48	38.4	4.8	41.4	5.1	1630.0 ±15%
60VDC	60	48.0	6.0	48.6	6.4	1920.0 ±15%
100VDC	100	80.0	10.0	86.4	10.8	6800.0 ±15%
110VDC	110	88.0	11.0	95.0	11.8	7300.0 ±15%

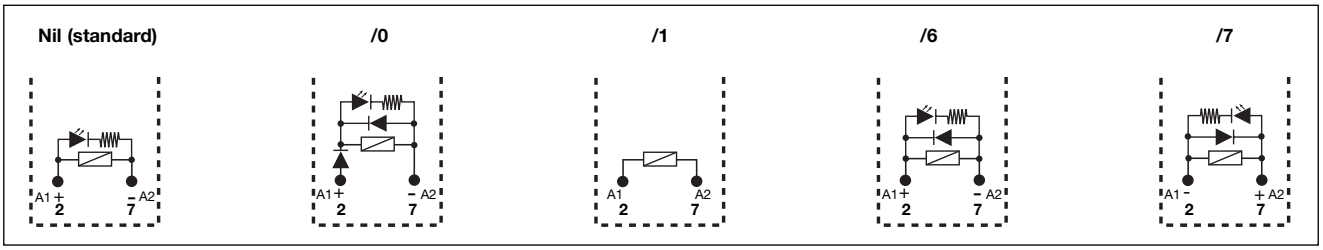
Coil Characteristics, AC Standard Coils 2.7VA

Coil Code	Nominal Voltage VAC	@ +20°C (+68°F)		@ +40°C (+104°F)		Coil resistance Ω
		Pick-up voltage VAC	Drop-out voltage VAC	Pick-up voltage VAC	Drop-out voltage VAC	
6VAC	6	4.8	1.8	5.2	1.9	3.9 ±10%
12VAC	12	9.6	3.6	10.3	3.8	16.3 ±10%
24VAC	24	19.2	7.2	20.7	7.7	70.0 ±10%
48VAC	48	38.4	14.4	41.4	15.5	315.0 ±15%
115/120VAC	115/120	88.0	36.0	95.0	38.8	1600.0 ±15%
230VAC	230	176.0	72.0	190.0	77.7	6800.0 ±15%

Coil operating range: see diagram n° 1 pag. 3

Options

Nil = Standard with Push Arm -LED (A1+) (A2-)- Flag
/0 = Diode against polarity inversion + free-wheeling Diode (A1+) (A2-)
/1 = Without LED
/2 = Without Flag
/3 = Without Push Arm
/4 = Gilded Contacts Au 5µm
/5 = Gilded Contacts Au > 0.5µm
/6 = Free-Wheeling Diode (A1+) (A2-)
/7 = Free-Wheeling Diode (A1-) (A2+)



Contact Characteristics

Arrangement	**002 / 003**
Contact rating (with resistive load)	**10A - 250VAC / 30VDC**
UL rating	**10A - 250VAC / 30VDC** **1/3HP @ 240VAC** **1/3HP @ 120VAC** **1/2HP @ 277VAC**
Standard rating	**10A - 250VAC / 30VDC**
Max. rating	**10A - 250VAC / 30VDC**
Material	**$AgSnO_2$**

Current	
Max. switching current	**10A**
Initial contact resistance	**100mΩ (@ 1A 24VDC)**
Max. switch. voltage	**500VAC / 240VDC**
Max. switch. power resistive	**2500VA / 300W**
Minimum Current	
Min. applicable load	**5mA @ 12VDC**
/4 and /5 versions	**1mA @ 6VDC**
Life	
Electrical life	**$1x10^5$ops**
Mechanical life	**$1x10^7$ops**

Insulation

Test Voltage (1 min.)	
Between coil and contacts	**3750VAC Vr.m.s**
Between open contacts	**750VAC Vr.m.s**
Contact/Contact	**1250VA Vr.m.s**
Initial insulation resistance	**500MΩ - 500VAC**

Insulation according to EN61810-5	
Rated insulation voltage	**250V**
Impulsive insulation voltage	**3.6kV**
Pollution degree	**2**
Overvoltage category	**III**

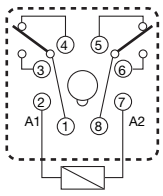
General Data

Operating time (At nominal voltage)	**25ms max.**
Release time (At nominal voltage)	**25ms max.**
Temperature rise (At nominal voltage)	**+70°C (+44.6°F)**
Ambient temperature	**-40° to +55°C (-40° to +131°F)**
Vibration resistance	**10 to 55Hz 1.5mm (0.059")**

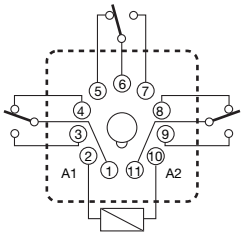
Shock resistance	
Functional	**98m/s² /10G**
Destructive	**980m/s² /100G**
Humidity	**98%, +40°C% (+104°F%)**
Termination	**Octal/Undecal-type plug-in**
Construction	**Dust cover**
Weight	**~85g (~2.998oz)**

Wiring Diagrams

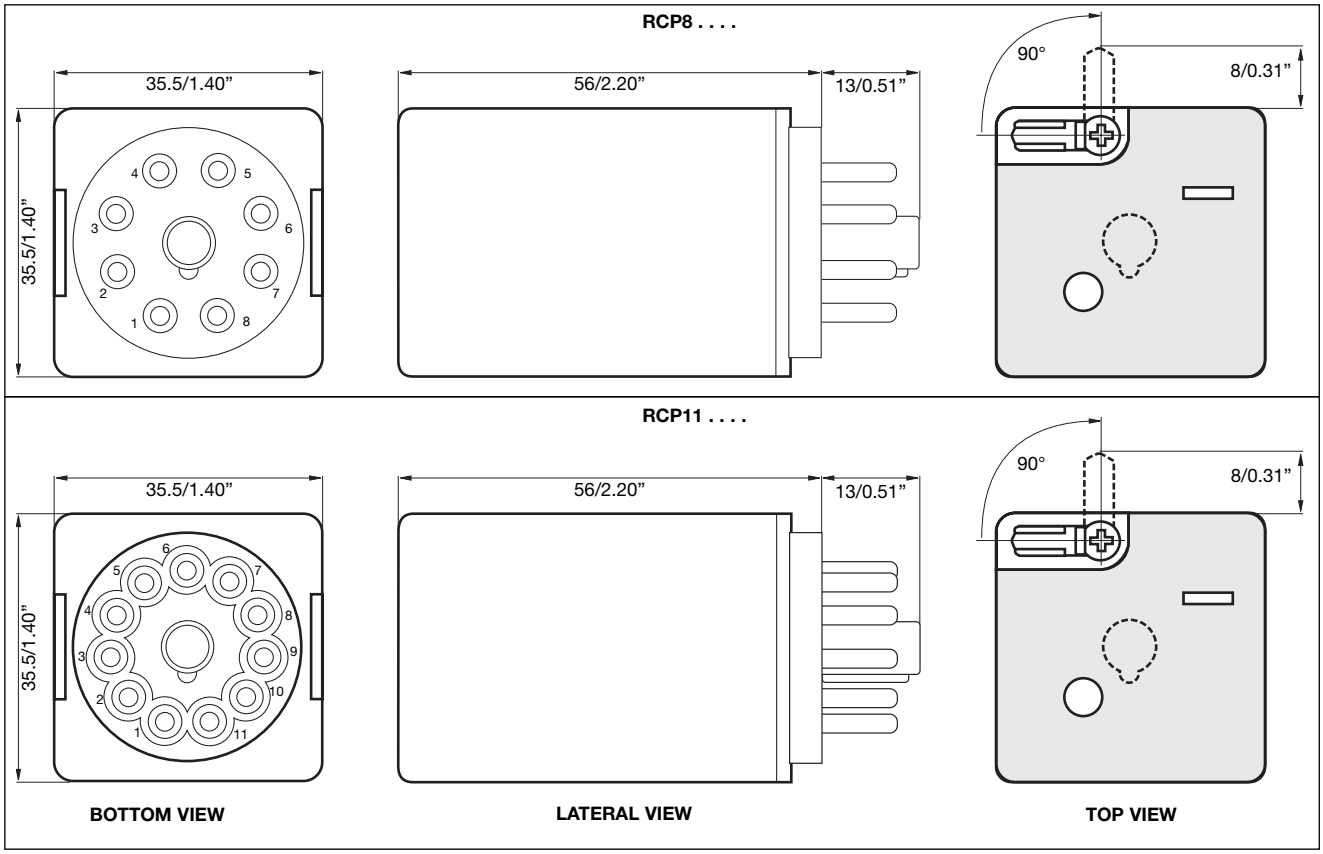
BOTTOM VIEW RCP 8 ....



BOTTOM VIEW RCP 11 ....

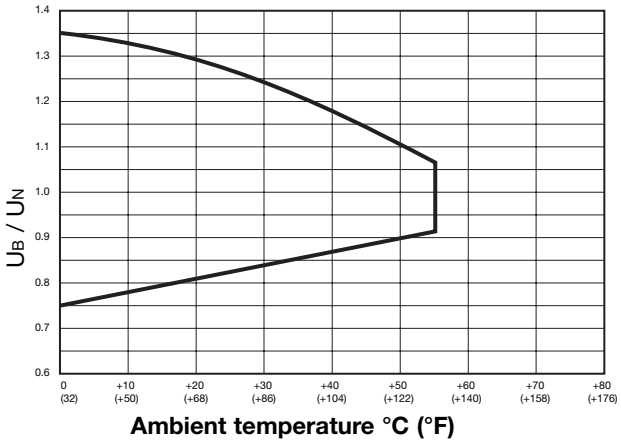


Dimensions mm/inches

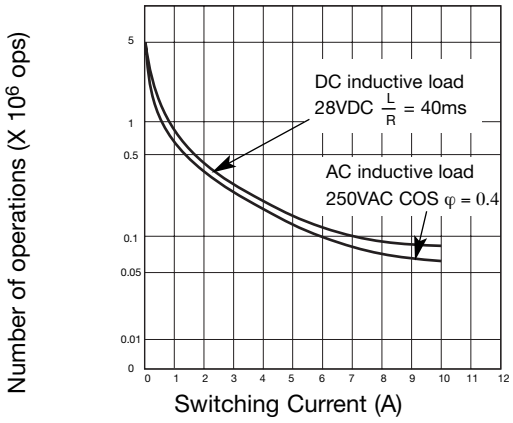


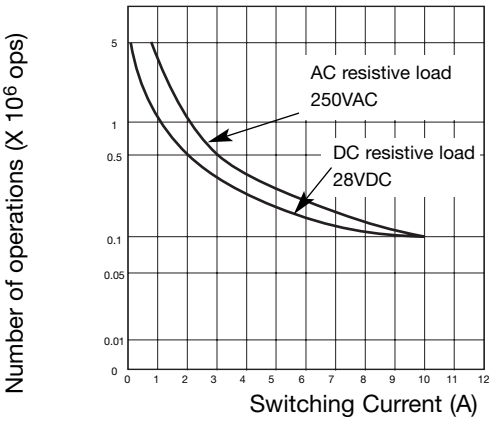
Diagrams

1 Coil Operating Range

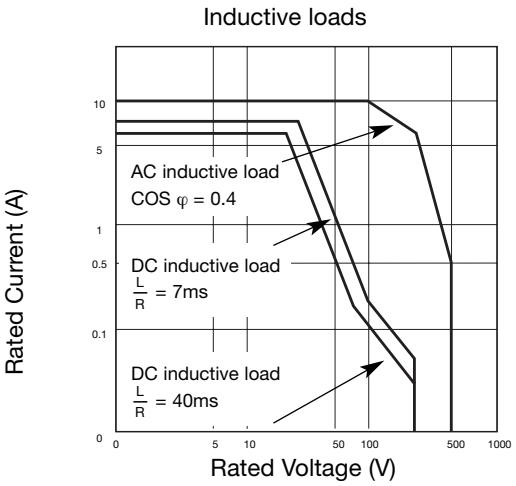


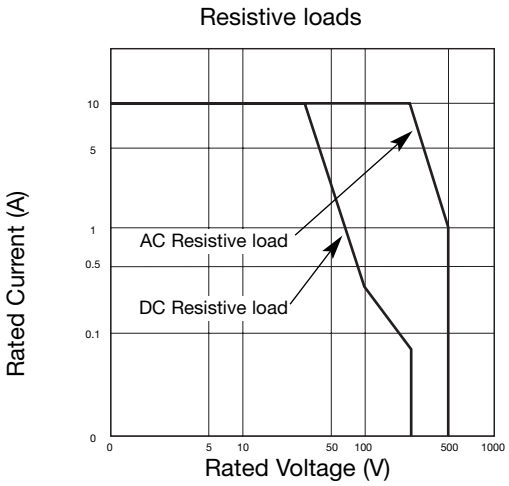
2 Electrical life





3 Max. Contact capacity





Bases and Sockets

DIN rail sockets codes are **ZPD8A, ZP11A, ZPD8, ZPD11, ZPD8XA, ZPD11XA, ZPD9A** and **ZPD12A** details and specifications from page 20 to 27 of industrial relays catalogue.
PCB and Panel Soldering sockets codes are **ZC8, ZC11** and **ZSN8, ZSN11** details and specifications from page 28 to page 29 of industrial relays catalogue.