



# RP II/2 series

## 8 Amp, 2 Pole PC Board Relay

UL File E214025



Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

### Features

- 2 Form A (DPST-NO) or 2 Form C (DPDT).
- 8 amp rating with terminals on 5 mm pin spacing.
- 4kV/8mm contact-to-coil.
- Sockets available.

### Environmental Data

**Temperature Range:**

**Operating:** -40°C to +70°C.

**Vibration (30-150 Hz.):** N/O: 11g; N/C: 1.5g.

**Shock (destructive):** 100g.

### Contact Data

**Arrangements:** 2 Form A (DPST-NO) and 2 Form C (DPDT), single contact.

**Material:** Silver-cadmium oxide or silver-nickel 0.15.

**Expected Mechanical Life:** 20 million operations.

#### Ratings:

**Current:** 8A (UL: 10A)

**Voltage:** 250VAC

**Power (breaking):** 2,000VA

**Voltage (breaking):** 440VAC

**Make Current (max. 4s at 10% duty cycle):** 14A

#### Load/Life

Type	Load	Life (Ops.)
RP440	64A ON, 2A OFF, 250VAC	10,000
RP421	2A, 50VDC, resistive	2 million
RP421	1/10 HP, 240VAC, per contact	UL 508
RP421	3A, 380VAC, AC11	30,000
RP421	0.18A, 110VDC, DC11	100,000
RP420	0.6A, 220VAC, $\cos\phi = 0.8$ , single phase motor	1.3 million

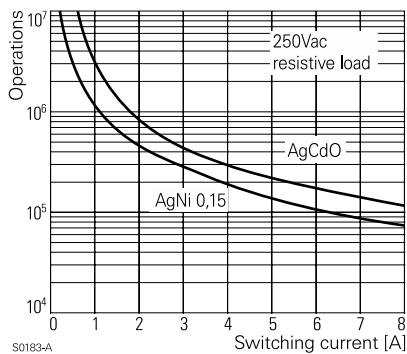
### Mechanical Data

**Termination:** Printed circuit terminals.

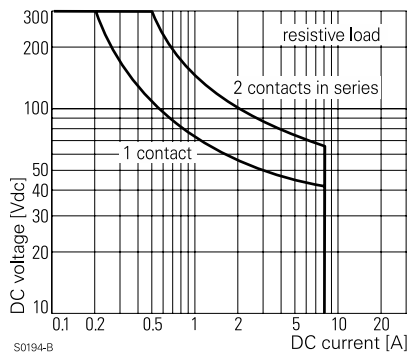
**Enclosure:** Flux-tight (RT II) plastic case or sealed (RT III) cover.

**Weight:** .63 oz. (18 g) approximately.

### Contact Life



### Max. DC Load Breaking Capacity



### Initial Dielectric Strength

**Between Open Contacts:** 1,000Vrms

**Between Coil and Contacts:** 4,000Vrms.

**Between Contact Sets:** 2,500Vrms.

**Creepage/Clearance:** 8/8mm.

### Coil Data DC @ 20°C

**Nominal Coil Power:** 500mW.

Nominal Voltage VDC	DC Resistance in Ohms	Must Operate Voltage VDC	Drop-out Voltage VDC	Maximum Voltage VDC	Nominal Coil Current (mA)
5	54 ± 10%	3.5	0.5	9.0	92.6
6	68 ± 10%	4.2	0.6	10.8	88.2
12	270 ± 10%	8.4	1.2	21.6	44.4
24	1,100 ± 15%	16.8	2.4	43.2	21.8
48	4,400 ± 15%	33.6	4.8	86.4	10.9
60	6,540 ± 15%	42.0	6.0	108.0	9.2
110	23,100 ± 15%	77.0	11.0	198.0	4.8

### Operate Data

**Must Operate Voltage:** See Coil Data table.

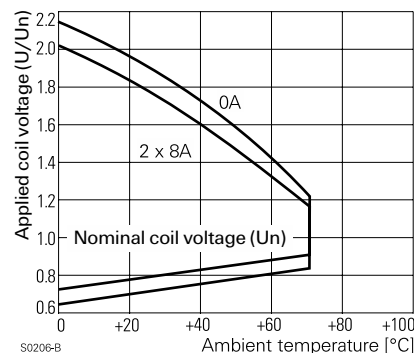
**Operate Time (typical):** 9 ms.

**Release Time (typical):** 3 ms.

**Bounce Time (typical):** N/O: 2 ms; N/C: 3 ms.

**Switching Rate:** 6,000 ops./hr. max. at rated load.

### Coil Operating Range



**Ordering Information**

Typical Part Number ▶

**RP 4 1 0 012**

**1. Basic Series:**

RP = Printed circuit board relay.

**2. Version:**

4 = 8A, flux-tight. 8 = 8A, sealed.

**3. Contact Arrangement:**

2 = 2 Form C (DPDT). 4 = 2 Form A (DPST-NO).

**4. Contact Material and Pin Spacing:**

0 = Silver-cadmium oxide, 5 mm pin spacing.

1 = Silver-nickel 0.15, 5 mm pin spacing.

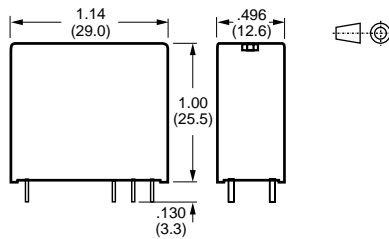
**5. Coil Voltage:**

005 = 5VDC      012 = 12VDC      048 = 48VDC      110 = 110VDC  
006 = 6VDC      024 = 24VDC      060 = 60VDC

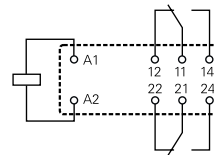
**Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.**

None at present.

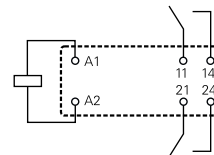
**Outline Dimensions**



**Wiring Diagrams (Bottom Views)**



**2 Form C**



**2 Form A**

**PC Board Layout (Bottom View)**

