



RP II/2 series

8 Amp, 2 Pole

PC Board Relay

US 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.

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

Environmental Data

Temperature Range:

Operating: -40°C to +70°C.

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

Shock (destructive): 100g.

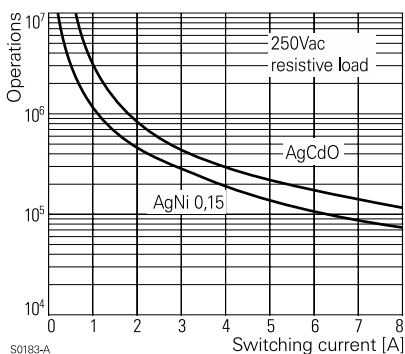
Mechanical Data

Termination: Printed circuit terminals.

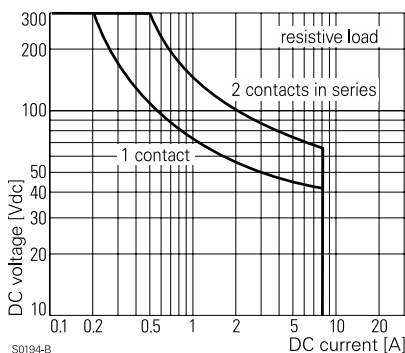
Enclosure: Flux-tight (RT II) plastic case or sealed (RT III) cover.

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

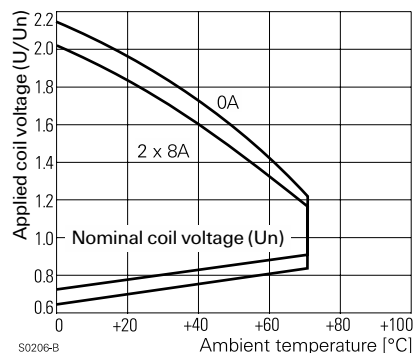
Contact Life



Max. DC Load Breaking Capacity



Coil Operating Range



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.

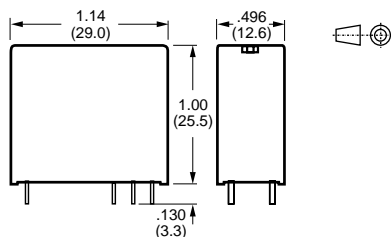
Ordering Information

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								

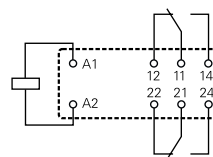
Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

None at present.

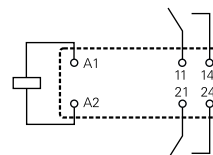
Outline Dimensions



Wiring Diagrams (Bottom Views)



2 Form C



2 Form A

PC Board Layout (Bottom View)

