



RY II series

8 Amp Miniature Printed Circuit Board Relay

US File E214025

NR 10071

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

- 1 Form A (SPST-NO) and 1 Form C (SPDT).
- 8 amp rated current.
- Sensitive coil 220 mW.
- 12.3 mm height.
- 8 mm coil to contact spacing.
- Flux-tight and washable (sealed) versions.

Contact Data @ 70°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT), single contact.
Material: Silver-cadmium oxide; Silver-tin oxide; and Silver-nickel 0.15 with or without gold plating.

Expected Mechanical Life: 30 million operations minimum.

Ratings:

Current: 8A

Voltage: 250VAC.

Power (breaking): 2,000 VA.

Voltage (breaking): 440VAC.

Current (making, max. 4s at 10% duty cycle): 30A.

UL508 @ 70°C (RY610 type)

8 amp 28VDC 30,000 ops.

280mA 250VDC 30,000 ops.

1/2 HP 240VAC.

1/4 HP 277VAC.

B300 120 or 240VAC

VDE 0631 @ 85°C (RY531 type)

6 (4) amp, 250VAC 100,000 ops.

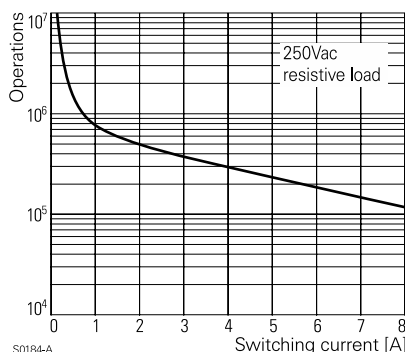
Mechanical Data

Termination: Printed circuit terminals. Sockets available.

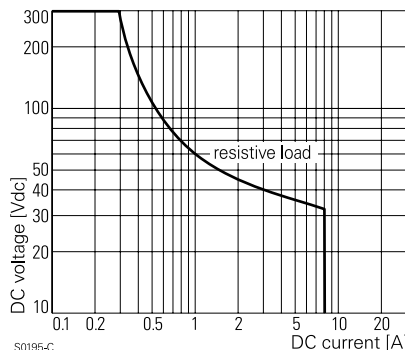
Enclosure (94 V-0 rated): Flux-tight (RT II) or sealed (RTIII) plastic case.

Weight: 0.28 oz. (8 g) approximately.

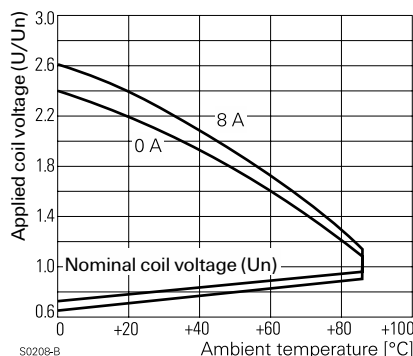
Contact Life



Max. DC Load Breaking Capacity



Coil Operating Range



Initial Dielectric Strength

Between Open Contacts: 1,000Vrms.

Between Coil and Contacts: 5,000Vrms.

Creepage/Clearance: 8/8mm.

Coil Data DC @ 20°C

Nominal Coil Power: 220mW.

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Must Operate Voltage VDC	Drop-out Voltage VDC	Maximum Voltage VDC	Nominal Coil Current (mA)
5	113	3.5	0.5	11.8	44.0
6	164	4.2	0.6	14.1	36.7
12	620	8.4	1.2	28.2	19.3
24	2,350	16.8	2.4	56.4	10.2
48	9,600	33.6	4.8	112.8	5.0

Operate Data

Must Operate Voltage: See Coil Data table.

Operate Time : 7 ms, at nom. voltage.

Release Time: 3 ms, at nom. voltage.

Bounce Time (N/O contact) : 1 ms, at nom. voltage.

Switching Rate: 3,600 ops./hr. max. at rated load.

Environmental Data

Temperature Range:

Operating: -40°C to +85°C.

Vibration: (10 to 500 Hz.) 5g.

Shock (destructive): >100g.

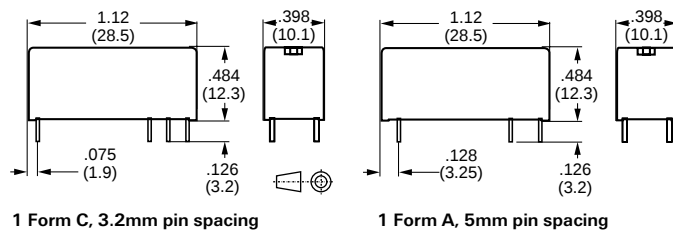
Ordering Information

Typical Part Number ►		RY	6	1	0	012
1. Basic Series: RY = RY II miniature printed circuit board relay.						
2. Version: 2 = Flux-tight, pins on 3.2 mm spacing. Only available with contact arrangement 1. 5 = Flux-tight, pins on 5 mm spacing. Only available with contact arrangement 3. 6 = Sealed, pins on 3.2 mm spacing. Only available with contact arrangement 1. A = Sealed, pins on 5 mm spacing. Only available with contact arrangement 3.						
3. Contact Arrangement: 1 = 1 Form C (SPDT) Only available with 3.2 mm pin spacing. 3 = 1 Form A (SPST-NO) Only available with 5 mm pin spacing.						
4. Contact Material: 0 = Silver-cadmium oxide. 1 = Silver-nickel 0.15 2 = Silver-nickel 0.15 with gold plating 3 = Silver-tin oxide.						
5. Coil Voltage: 005 = 5VDC 006 = 6VDC 012 = 12VDC 024 = 24VDC 048 = 48VDC						

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

None at present.

Outline Dimensions



PC Board Layouts & Wiring Diagrams (Bottom Views)

