



Ry II series

8 Amp Miniature Printed Circuit Board Relay

UL 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.

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 Data @ 70°C

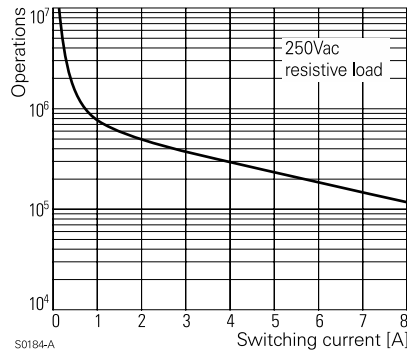
Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT), single contact.
Material: Silver-cadmium oxide; Silver-tin oxide; and Silver-nickel 0.15 with or without gold plating.

Expected Mechanical Life: 30 million operations minimum.

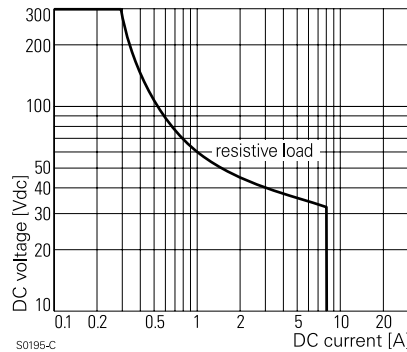
Ratings:

- 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.

Contact Life



Max. DC Load Breaking Capacity



Initial Dielectric Strength

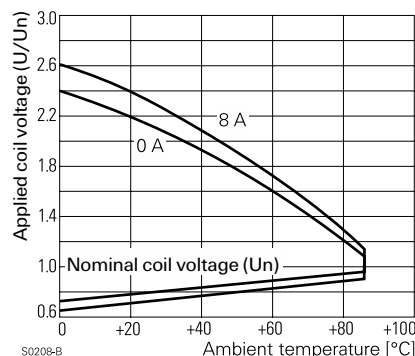
Between Open Contacts: 1,000Vrms.
Between Coil and Contacts: 5,000Vrms.
Creepage/Clearance: 8/8mm.

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

Coil Operating Range



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.

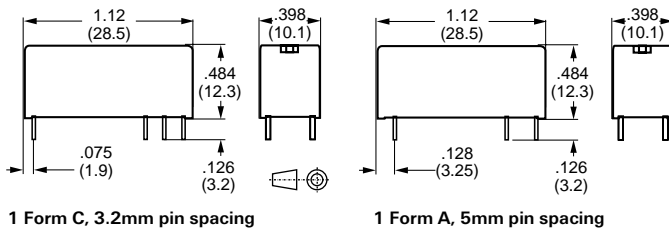
5. Coil Voltage:

- 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)

