



# RE series

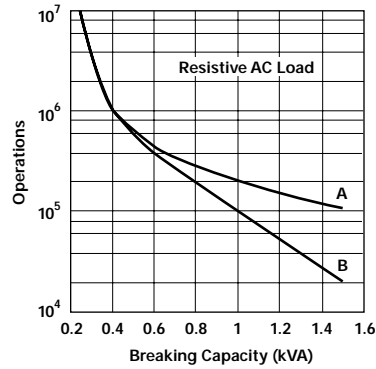
## 6 Amp Miniature Printed Circuit Board Relay

- File E38891
- File LR 14385
- NR 10071
- NR 8841-014-02
- NR 10308.ZA1.A
- Semko 9142139 and 9712079
- Seti 144164-01

### Features

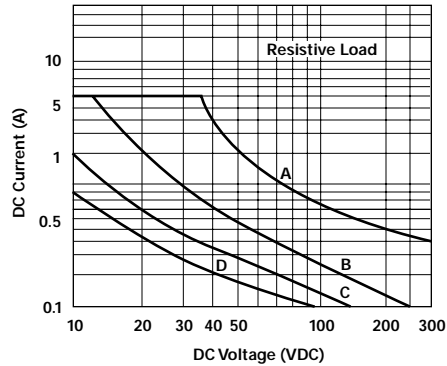
- 1 Form A (SPST-NO).
- 6 amp rated current.
- Sensitive coil 200 mW.
- 10.6mm height.
- Fully sealed with vent hole.
- Supplied in tubes.

### Contact Life



A: AgCdO B: AgNi 0.15

### Max. DC Load Breaking Capacity



A: Resistive B: 20 ms C: 40 ms D: 60ms

### Contact Data @ 70°C

**Arrangements:** 1 Form A (SPST-NO).

**Material:** Silver-cadmium oxide.

Silver-nickel 0.15 with gold plating.

**Expected Mechanical Life:** 30 million operations minimum.

#### Ratings:

- 6 amp 30 VDC resistive load 500,000 ops.
- 0.3 amp 50 VDC L/R = 40ms 3,000,000 ops.

#### UL/CSA AgCdO @ 25°C

- 6 amp 250VAC general purpose 30,000 ops.
- 10 amp 120VAC general purpose (+70°C) 6,000 ops.
- 1/4 HP 240VAC 30,000 ops.
- 1/6 HP 277VAC 30,000 ops.
- 1/8 HP 120VAC 30,000 ops.
- B300 6,000 ops.

#### UL/CSA AgNI 0.15 @ 70°C

- 6 amp 250VAC general purpose 6,000 ops.

#### VDE 0435 @ 70°C

- 6 amp 250VAC general purpose 100,000 ops.
- 10mA 5VDC 5,000,000 ops.

#### VDE 0660 AC 11 @ 35°C

- 2 amp 400VAC 200,000 ops.

### Initial Dielectric Strength

**Between Open Contacts:** 1,000VAC.

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

**Creepage/Clearance Coil-Contact:** 4/4mm.

### Coil Data DC @ 20°C

**Nominal Coil Power:** 200mW.

Nominal Voltage VDC	DC Resistance in Ohms ±10%	Must Operate Voltage VDC	Drop-out Voltage VDC	Nominal Coil Current (mA)
05	125±10%	3.5	0.5	40
06	180±10%	4.2	0.6	33.3
12	720±10%	8.4	1.2	16.7
24	2,880±15%	16.8	2.4	8.3
48	11,520±15%	33.3	4.8	4.2

### Operate Data

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

**Operate Time :** 6 ms typical, at nom. voltage.

**Release Time :** 1 ms typical, at nom. voltage.

**Bounce Time:** 1 ms typical, at nom. voltage.

**Switching Rate:** 360 ops./hr. max. at rated load.

### Environmental Data

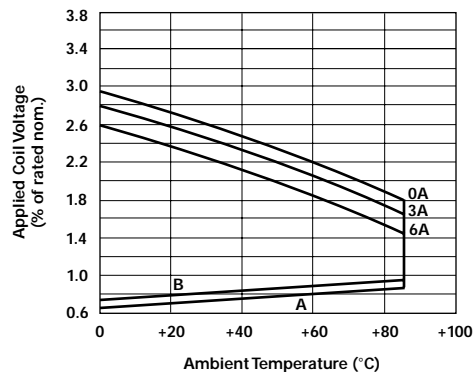
**Temperature Range:**

**Operating:** -40°C to +70°C DC coil (+85°C @ 4 amp).

**Vibration:** 10 to 150 Hz. at 10g N/O 20g N/C.

**Shock:** >100g.

### Coil Operating Range



A: Coil Temperature = Ambient Temperature  
B: 110% of nominal coil voltage at rated contact load.

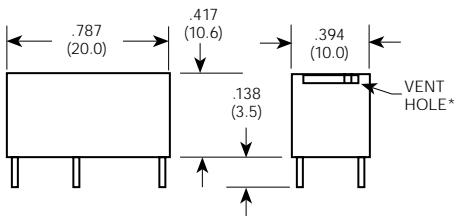
Ordering Information

Typical Part Number ▶				RE	0	3	0	006
<b>1. Basic Series:</b> RE = Miniature printed circuit board relay.								
<b>2. Enclosure:</b> 0 = Sealed								
<b>3. Contact Arrangement:</b> 3 = 1 Form A (SPST-NO)								
<b>4. Contact Material:</b> 0 = Silver-cadmium oxide. 2 = Silver-nickel 0.15 with gold plating.								
<b>5. Coil Voltage:</b> 005 = 5VDC      012 = 12VDC      048 = 48VDC 006 = 6VDC      024 = 24VDC								

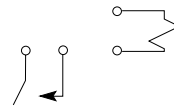
Stock Items

RE030005 RE030024  
 RE030012

Outline Dimensions



Wiring Diagram (Bottom View)



In case of full load on contacts and under extreme operating conditions (switching rate, ambient temperature) it is recommended to open the sealed (washable) relays, by opening the vent hole\* provided for this purpose, after completion of the cleaning process.

PC Board Layout (Bottom View)

