

RE series

6 Amp Miniature Printed Circuit Board Relay

UL File E214025

NR 10071

NR 8841-014-02

NR 10308.ZA1.A

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 (SPSTNO).
- 6 amp rated current.
- Sensitive coil 200 mW.
- 10.6mm height.
- Fully sealed with vent hole.
- Supplied in tubes.

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 : 5 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.
12,000

Environmental Data

Temperature Range:

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

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

Shock (destructive): >100g.

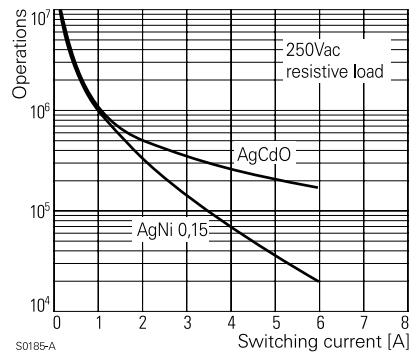
Mechanical Data

Termination: Printed circuit terminals.

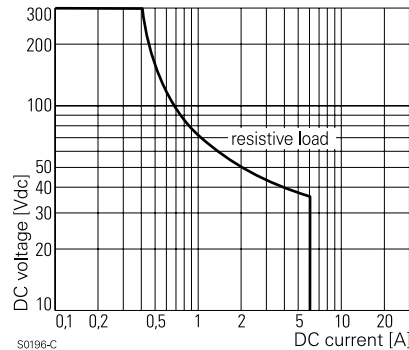
Enclosure (94 V-0 rated): Sealed (RTIII) plastic case.

Weight: 0.18 oz. (5 g) approximately.

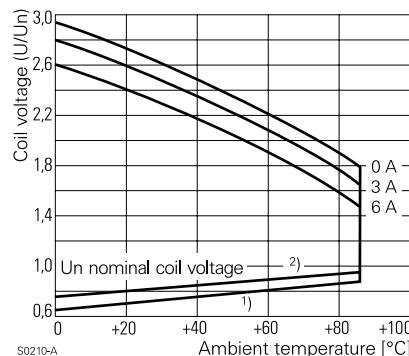
Contact Life



Max. DC Load Breaking Capacity



Coil Operating Range



Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

Specifications and availability subject to change.

www.tycoelectronics.com
Technical support:
Refer to inside back cover.

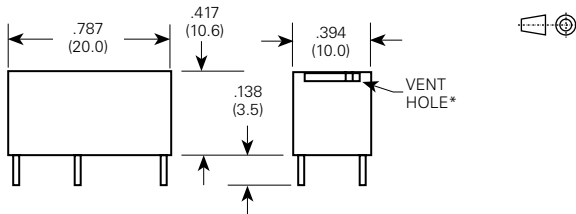
Ordering Information

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

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

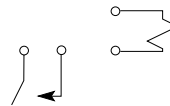
RE030005 RE030024
RE030012

Outline Dimensions



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.

Wiring Diagram (Bottom View)



PC Board Layout (Bottom View)

