



RT series (Sensitive)

10 Amp, 1 Pole PC Board Relay with 250mW Coil

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

- Sensitive coil requires only 250mW.
- 10A contacts in 1 Form A (SPST-NO) or 1 Form C (SPDT) arrangement.
- UL Class F coil construction.
- 5kV/10mm contact-to-coil.

Contact Data

Arrangements: 1 Form A (SPST-NO) or 1 Form C (SPDT), single contact.

Material: Silver-nickel 90/10.

Expected Mechanical Life: 30 million operations.

Ratings:

Current: 10A.

Voltage: 250VAC.

Power (breaking): 2,500 VA.

Voltage (breaking): 440VAC.

Current (making, max. 4s at 10% duty cycle): 15A.

Load/Life

8A, 250VAC; 430,000 ops.

370W, 230VAC, compressor, NO contact; >330,000 ops.

550W, 250VAC, incandescent, NO contact; 190,000 ops.

0.8A_{peak} / 0.08A, 230VAC, cosφ=0.23,

contactor 190 / 90 VA, NO contact; >8.8 million ops.

Initial Dielectric Strength

Between Open Contacts: 1,000Vrms

Between Coil and Contacts: 5,000Vrms.

Creepage/Clearance: 10/10mm.

Coil Data DC @ 20°C

Nominal Coil Power: 250mW.

Nominal Voltage VDC	DC Resistance in Ohms	Must Operate Voltage VDC	Drop-out Voltage VDC	Maximum Voltage VDC	Nominal Coil Current (mA)
5	100 ± 10%	3.7	0.5	15.0	50.0
6	144 ± 10%	4.5	0.6	18.0	41.7
12	576 ± 10%	9.0	1.2	36.0	20.8
24	2,304 ± 10%	18.0	2.4	72.0	10.4
48	9,216 ± 10%	36.0	4.8	144.0	5.4
60	12,857 ± 12%	45.0	6.0	180.0	4.7

Operate Data

Must Operate Voltage: See Coil Data table.

Operate Time (typical): 7 ms.

Release Time (typical): 3 ms.

Bounce Time (typical): NO: 2 ms; NC: 4 ms.

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

Environmental Data

Temperature Range:

Operating: -40°C to +85°C.

Vibration (30-150 Hz.): 5g.

Shock (destructive): 100g.

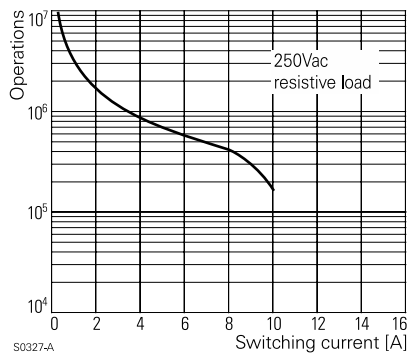
Mechanical Data

Termination: Printed circuit terminals.

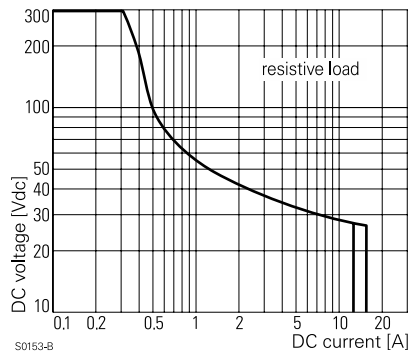
Enclosure (94 V-0 Rated): Flux-tight (RT II) or sealed (RT III) plastic case.

Weight: .49 oz. (14 g) approximately.

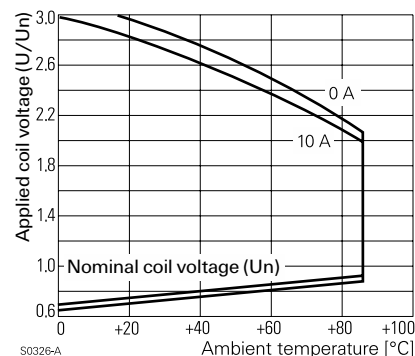
Contact Life



Max. DC Load Breaking Capacity



Coil Operating Range



Ordering Information

Typical Part Number ▶

RT 1 7 4 012

1. Basic Series:

RT = Printed circuit board relay.

2. Version:

1 = 10A, 3.5mm pin spacing, flux-tight case. B = 10A, 3.5mm pin spacing, sealed case.

3. Contact Configuration:

7 = 1 Form C (SPDT) 8 = 1 Form A (SPST-NO)

4. Contact Material:

4 = Silver-nickel 90/10.

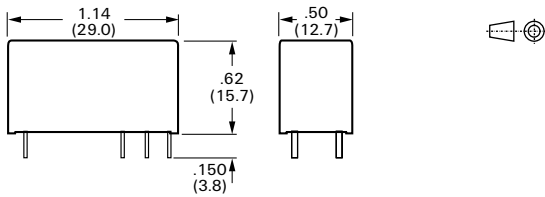
5. Coil Voltage:

005 = 5VDC 012 = 12VDC 048 = 48VDC
006 = 6VDC 024 = 24VDC 060 = 60VDC

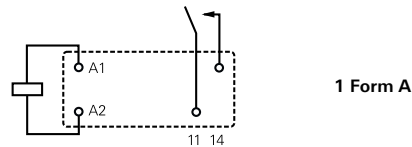
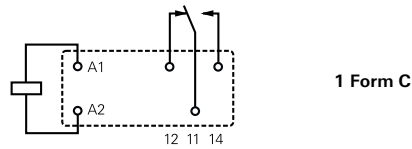
Stock Items – Authorized distributors are more likely to stock the following items.

None at present.

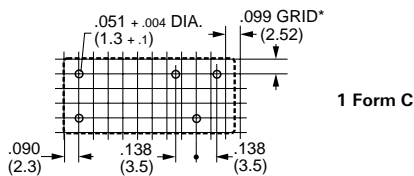
Outline Dimensions



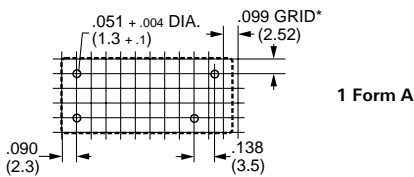
Wiring Diagrams (Bottom Views)



PC Board Layouts (Bottom Views)



* With the recommended hole size, a grid pattern from .0984 - .1 in (2.5 - 2.54 mm) can be used.



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