



T7C series

12 Amp Miniature Power PC Board Relay

File E29244
File LR48471

Features

- 12 amp switching capacity.
- UL Class F (140°C) coil insulation system.
- 1 Form A and 1 Form C contact arrangements.
- Ideal for domestic appliances, HVAC and security.
- Resists high temperature and various chemical solutions.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT).
Material: Silver-cadmium oxide.
Max. Switching Rate: 300 ops./min. (no load).
 30 ops./min. (rated load).
Expected Mechanical Life: 10 million operations.
Expected Electrical Life: 100,000 operations.
Minimum Load: 10mA @ 5VDC
Initial Contact Resistance: 100 milliohms max. @ 100mA, 6VDC.

Contact Ratings @ 20°C with relay properly vented. Remove vent nib after soldering and cleaning.

Contact Arrang.	UL/CSA Ratings	Type	Operations
1 & 5	1/3HP NO @ 120VAC	Motor	6,000**
	TV-2 NO @ 120VAC	Tungsten	25,000**
	5.4LRA/0.9FLA NO @ 240VAC	Motor	30,000***
	10LRA/1.5FLA @ 120VAC	Motor	30,000***
	12A NO @ 120VAC	Resistive/GP	100,000*
	34.8LRA/6FLA NO @ 120VAC	Motor	100,000**
	10A/5A @ 240VAC	Resistive/GP	100,000**
	10A/5A @ 28VDC	Resistive	100,000**
	240VA, 240VAC	Pilot Duty	100,000**
	4LRA/4FLA NO @ 120VAC	Motor	100,000****
	4LRA/2FLA NC @ 120VAC	Motor	100,000****
	6LRA/6FLA NO @ 120VAC	Motor	100,000***
	7A @ 277VAC	Resistive/GP	100,000
	10LRA/2.5FLA NO @ 277VAC	Motor	100,000

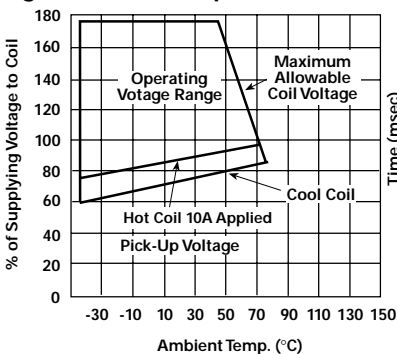
Consult factory for other ratings.

- *Denotes test at 60°C ambient temperature.
- **Denotes test at 70°C ambient temperature.
- ***Denotes test at 85°C ambient temperature.
- ****Denotes test at 105°C ambient temperature.

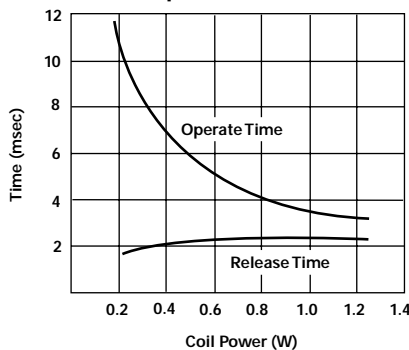
Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. (1 minute).
Between Coil and Contacts: 1,500VAC 50/60 Hz. (1 minute).

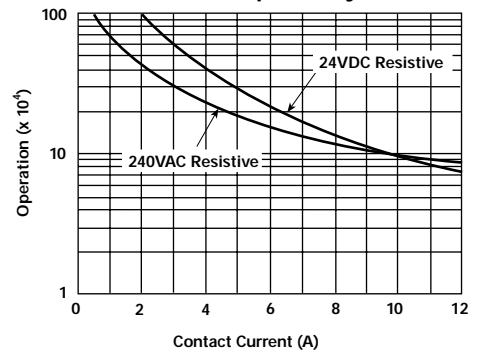
Figure 1 - Coil Temperature Rise



Operate Time



Life Expectancy



Note: Graphical data should not be used as a substitute for specific application verification. To be used for estimates only.



Ordering Information

Typical Part Number ▶

T7C

V

5

D

-24

1. Basic Series:

T7C = Miniature power relay.

2. Enclosure:

V = Vented (Flux-tight)*

S = Immersion cleanable case with knock-off nib.

3. Contact Arrangement:

1 = 1 Form A (SPST-NO) 5 = 1 Form C (SPDT)

4. Coil Input:

D = DC Voltage

5. Coil Voltage:

03 = 3VDC

05 = 5VDC

06 = 6VDC

09 = 9VDC

12 = 12VDC

18 = 18VDC

24 = 24VDC

48 = 48VDC

* Not suitable for immersion cleaning processes.

Stock Items – The following items are maintained in stock.

T7CV5D-05

T7CV5D-12

T7CS5D-05

T7CS5D-12

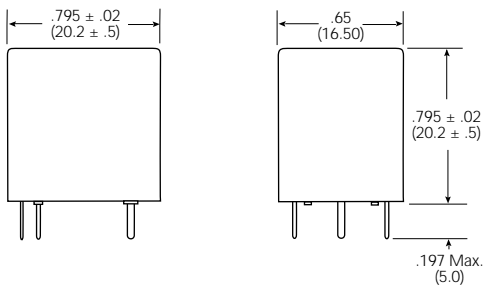
T7CV5D-06

T7CV5D-24

T7CS5D-06

T7CS5D-24

Outline Dimensions



Movable

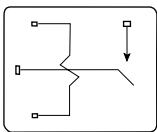
Contact Terminal:
.012 x .039 (0.3 x 1.0)

Stationary Contact Terminals:
.012 x .039 (0.3 x 1.0)

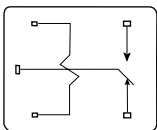
Coil Terminals:
.022 x .022 (.56 x .56)

Wiring Diagrams (Bottom Views)

1 Form A

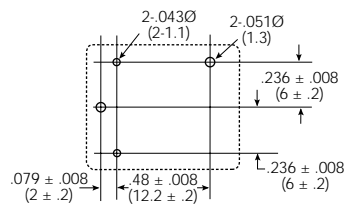


1 Form C



Suggested PC Board Layouts (Bottom Views)

1 Form A



1 Form C

