

T77 series

10 AMP MINIATURE PCB RELAY

File E29244

File LR48471M83

FEATURES

- Small size for high density P.C. board mounting.
- 1 Form A contact arrangements.
- Creepage spacings of 6.5mm between contact and coil.
- Ideal for appliance, office equipment.
- 4,000VAC dielectric strength between contact and coil.

CONTACT DATA @ 20 C

Arrangements: 1 Form A (SPST-NO).

Material: Contact rating 3 - Silver

Contact rating 10 - Silver Alloy

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.

Initial Contact Resistance: 100 milliohms max.

CONTACT RATINGS†

Item	Ratings	
	3	10
Resistive Load (Cosθ = 1)	250VAC 3A	120VAC 10A
	28VDC 3A	28VDC 10A
Inductive Load (Cosθ = 0.4)	250VAC 1A	
	28VDC 1A	
Max. Allow. Voltage	265VAC	265VAC
	30VDC	30VDC
Max. Allow. Power	720VA	1200VA
	90W	240W

†Ratings are for vented versions.

INITIAL DIELECTRIC STRENGTH

Between Open Contacts: 750VAC (1 minute).

Between Coil and Contacts: 4,000VAC (1 minute).

ORDERING INFORMATION

Typical Part Number >	T77	V	1	D	10	-24
1. BASIC SERIES: T77 = Miniature PCB relay.						
2. ENCLOSURE: V = Vented (Flux-Tight)* S = Plastic Epoxy Resin Sealed						
3. CONTACT ARRANGEMENT: 1 = (SPST-NO)						
4. COIL INPUT: D = DC Voltage						
5. CONTACT RATING: 3 = 3A 10 = 10A						
6. COIL VOLTAGE: 3 = 3VDC 5 = 5VDC 12 = 12VDC 24 = 24VDC						

*Not suitable for immersion cleaning processes.

STOCK ITEMS - The following items are maintained in stock.

T77V1D3-5 T77V1D10-5 T77S1D3-5 T77S1D10-5
T77V1D3-12 T77V1D10-12 T77S1D3-12 T77S1D10-12
T77V1D3-24 T77V1D10-24 T77S1D3-24 T77S1D10-24

COIL DATA @ 20 C

Voltage: 3 to 24VDC.

Resistance: See Coil Data Table.

Nominal Power: Contact rating 3 = 200mW.

Contact rating 10 = 450mW.

Coil Temperature Rise: Contact rating 3 = 35°C max.

Contact rating 10 = 40°C max.

Duty Cycle: Continuous.

COIL DATA @ 20°C

Rated Coil Voltage (VDC)	Coil Resistance (Ohms) ±10%		Must Operate Voltage (VDC)	Must Release Voltage (VDC)
	Contact rating 3	Contact ratings 10		
3	45	20	2.25	0.15
5	125	55	3.75	0.25
12	720	320	9.00	0.60
24	2,800	1,280	18.00	1.20

OPERATE DATA @ 20 C

Must Operate and Must Release Voltage: See Table above.

Operate Time: 10 ms, max.

Release Time: 4 ms, max.

ENVIRONMENTAL DATA

Temperature Range: -30°C to +55°C.

Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude.

Operational: 10 to 55 Hz., 1.5mm double amplitude.

Shock, Mechanical: 100g min.

Operational: 10g min.

Operating Humidity: 45 to 85% RH.

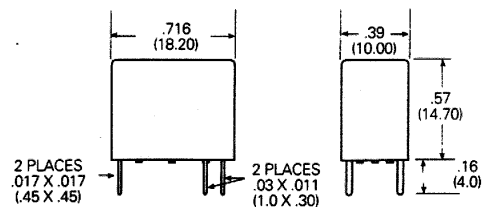
MECHANICAL DATA

Mounting: Printed circuit board.

Weight: 0.36 oz. (9 g).

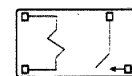
Sealing: Epoxy sealed or Flux-tight with open vent hole (not immersion cleanable).

OUTLINE DIMENSIONS



WIRING DIAGRAM (Bottom View)

1 Form A



SUGGESTED PC BOARD LAYOUT (Bottom View)

