



FEATURES

- Meets FCC Part 68 isolation.
- 4 Form C contact arrangement.
- Standard 0.1" x 0.3" grid spacing in a DIP configuration.
- Standard or sensitive DC coils through 48 volts.
- · Well suited for audio communications circuits, logic and process control, vending machines and office automation applications.
- · Immersion cleanable, plastic sealed case.

CONTACT DATA

Arrangements: Bifurcated cross bar in 4 Form C (4PDT).

Material: Silver-palladium alloy (stationary contacts have gold overlay).

Ratings: Max. Switching Voltage: 120V, AC or DC.

Max. Switching Power (resistive load): 24W DC, 60VA AC.

Max. Switching Current: 1A, DC or AC. Min. Switching Current: .01mA, 10mVDC. Max. Carrying Current: 2A, DC or AC.

Expected Mechanical Life: 20 million operations.

Expected Electrical Life: 500,000 ops. @ 1A, 24VDC, resistive.

200,000 ops. @ 0.5A, 120VAC, resistive.

Initial Contact Resistance: 100 milliohms, max., @ 100mA, 6VDC

INITIAL DIELECTRIC STRENGTH

Between Open Contacts: 1,000V rms, 60 Hz.

1,500V FCC Part 68 surge test.

Between Contact Sets: 1,500V rms, 60 Hz.

1,500V FCC Part 68 surge test.

Contact to Coil: 1,500V rms, 60 Hz.; 1,500V FCC Part 68 surge test.

INITIAL INSULATION RESISTANCE

Between Mutually Insulated Conductors: 109 ohms @ 500VDC (except

between dual coils).

COIL DATA @ 20 C

Voltage: 3 through 48VDC

Maximum Continuous Coil Power: 800 milliwatts.

Temperature Rise: 77°C per watt, typ.

T84 series

4 POLE, HIGH DIELECTRIC PC BOARD RELAY

91 File E29244

File LR35579

COIL DATA @ 20°C

COLE DATA & EU C							
Resistance in Ohms ± 10%							
Standard Colls			Sensitive Colls				
Single Coil Non- Latching	Single Coil Latching	Dual Coil Latching (either coil)	Single Coil Non- Latching	Single Coil Latching	Dual Coil Latching (either coil)		
400mW	N/A	360mW	200mW	90mW	180mW		
22.5	N/A	25	45	100	50		
62.5	N/A	69	125	278	139		
90	N/A	100	180	400	200		
360	N/A	400	720	1,600	800		
1,440	N/A	1,600	2,880	6,400	3,200		
5,760	N/A	6,400	11,520	25,600	12,800		
	Single Coll Non- Latching 400mW 22.5 62.5 90 360 1,440	Standard Coll Single Coll Non- Latching 400mW N/A 22.5 62.5 N/A 90 N/A 360 N/A 1,440 N/A	Standard Coils Single Coil Non-Latching Single Coil Latching Latc	Standard Colls Single Coll Non-Latching Latching Latchin	Standard Colls Sensitive Coll Single Coll Latching Latch		

OPERATE DATA @ 20 C

Must Operate Voltage: 70% of nominal voltage or less.

Must Release Voltage (non-latching): 10% of nominal voltage or more. (Latching): Must operate voltage applied to reset coil (dual) or negative

voltage (single).

Operate Time (Excluding Bounce) †: 6 ms, max. Release Time (Excluding Bounce) †: 4 ms, max.

Reset Time (Latching) †: 6 ms, max. Bounce Time†: 1 ms, approximately

† At or from Nominal Coil Voltage

ENVIRONMENTAL DATA

Temperature Range: Standard Coil: -40°C to +70°C. Sensitive Coil: -40°C to +80°C.

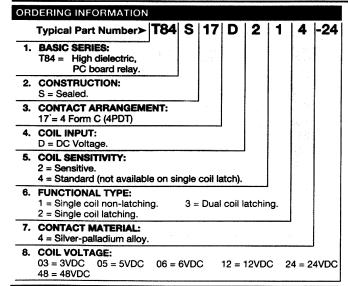
Vibration: Operational and Non-destructive: 30 g from 10-500 Hz. Shock: Operational: 50 g at 11 ms 1/2 sinusoidal impulse.

Non-destructive: 100 g at 11 ms 1/2 sinusoidal impulse.

MECHANICAL DATA

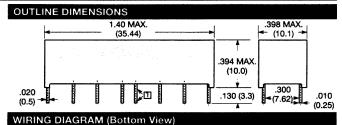
Termination: Printed circuit terminals on 0.1" (2.54 mm) centers.

Enclosure: Sealed PBT plastic case. Weight: 0.25 oz. (7 g) approximately.



STOCK ITEMS - The following items are maintained in stock.

T84S17D214-05	T84S17D234-05	T84S17D414-48
T84S17D214-12	T84S17D234-12	T84S17D434-05
T84S17D214-24	T84S17D234-24	T84S17D434-12
T84S17D214-48	T84S17D414-05	
T84S17D224-05	T84S17D414-12	
T84S17D234-03	T84S17D414-24	





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- 16 15 1 – Second set of coil terminals is for the dual coil latching version.
 2 – Schematic shows de-energized position for non-latching version; "reset" position for latching version.
 3 – Coil polarity shown must be observed for non-latching versions.
 4 – For single coil latching, polarity shown results in "set." Reverse polarity results in "reset."

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PC BOARD LAYOUT (Bottom View)

