



FEATURES

- 12 amp switching capacity.
- 1 Form C contact arrangements.
- Ideal for domestic appliances and office machines.
- · Resists high temperature and various chemical solutions.

CONTACT DATA @ 20 C

Arrangements: 1 Form C (SPDT).

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. Contact Resistance: 100 milliohms max.

Material: Silver-cadmium Oxide.

CONTACT RATINGS†

Load	Retings		
Resistive(Cosθ = 1)	Form C (N.O.)*	10A, 250VAC, 28VDC	
	·	12A, 120VAC	
	Form C (N.C.)*	5A, 240VAC, 28VDC	
		8A, 120VAC	
Inductive ($Cos\theta = 0.4$, L/R = 7ms)	Form C (N.O., N.C)	4A, 120VAC, 24VDC	

^{*}N.O. and N.C. loaded simultaneously.

INITIAL DIELECTRIC STRENGTH

Between Open Contacts: 750VAC (1 minute).
Between Coil and Contacts: 1,500VAC (1 minute).

COIL DATA @ 20 C

Voltage: 3 to 48VDC.

Nominal Power: 360 milliwatts

510 milliwatts for 48VDC coil.

T7C series

12 AMP MINIATURE POWER PCB RELAY

File E29244

File LR48471M83

Coil Temperature Rise: 35C° max, at rated coil voltage.

Duty Cycle: Continuous.

COIL DATA @ 20℃

Rated Coll Voltage (VDC)	Coil Resistance (Ohms) +10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)				
3	25	2.25	0.15				
6	100	4.50	0.30				
9	225	6.75	0.45				
12	400	9.00	0.60				
24	1,600	18.00	1.20				
48	4,500	36.00	2.40				
	Voltage (VDC) 3 6 9 12 24	Voltage (VDC) (Ohms) +10% 3 25 6 100 9 225 12 400 24 1,600	Voltage (VDC) (Ohms) +10% Voltage (VDC) 3 25 2.25 6 100 4.50 9 225 6.75 12 400 9.00 24 1,600 18.00				

OPERATE DATA @ 20 C

Operate Time: 15 ms, max. Release Time: 5 ms, max.

ENVIRONMENTAL DATA

Temperature Range: -30°C to +55°C.

Insulation Resistance: 100 milliohms (500VDC).

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

Termination: Printed circuit terminals.

Weight: 0.42 oz. (12 g).

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, tape s	sealed case	9			
3. CONTACT ARRANGEMENT: 5 = 1 Form C (SPDT)					
4. COIL INPUT: D = DC Voltage					
5. COIL VOLTAGE: 03 = 3VDC	ng <u>-</u>	. 09VD	C.		-

^{*} Not suitable for immersion cleaning processes.

24 = 24VDC

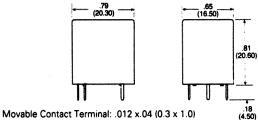
STOCK ITEMS – The following items are maintained in stock.

48 = 48VDC

T7CS5D-06 T7CS5D-12 T7CS5D-24

12 = 12VDC

OUTLINE DIMENSIONS

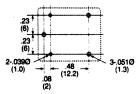


Stationary Contact Terminals: .012 x.04 (0.5 x 1.0) Coil Terminals: .017 x .02 (0.45 x 0.5)

WIRING DIAGRAM (Bottom View)

1 Form C

SUGGESTED PC BOARD LAYOUT (Bottom View)



[†]Tape must be removed from sealed models after cleaning to achieve these ratings