



T73 series

Low Profile, 10 Amp Printed Circuit Board Relay

FII File E29244

File LR48471

Features

- 10 amp switching capacity
- UL Class F (140°C) coil insulation system standard.
- 1 Form A and 1 Form C contact arrangements.
- · Ideal for domestic appliances, HVAC and security.
- Resists high temperature and various chemical solutions.
- · Immersion cleanable, plastic sealed case available.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT).

Material: Silver-cadmium oxide.

Max. Switching Rate: 240 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.	Typical Ratings	Туре	Operations
1 & 5	1/3HP NO @ 240VAC	Motor	30,000
	10A NO @ 120VAC	Resistive	100,000
	6A NO @ 120VAC	Resistive	100,000
	6A NO @ 24VDC	Resistive	100,000
	10A/5A @ 120VAC	Resistive	100,000
	1/4HP NO @ 120VAC	Motor	

Consult factory for other ratings.

Initial Dielectric Strength

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

Initial Insulation Resistance

Between Mutually Insulated Elements: 108 ohms min. @ 500VDC.

Ag contact rating.

Coil Data @ 20°C

Voltage: 3 to 48VDC

Nominal Power: 450 milliwatts.

660 milliwatts for 48VDC coil.

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

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

Coil Data @ 20°C

Rated Coil Voltage (VDC)	Coil Resistance (Ohms) +10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)		
3	20	1.95	0.15		
5	56	3.25	0.25		
6	80	3.90	0.30		
9	180	5.85	0.45		
12	320	7.80	0.60		
18	720	11.7	0.90		
24	1,150	15.6	1.20		
48	3,500	31.2	2.40		

Operate Data @ 20°C

Operate Time: 10 ms (excluding bounce). **Release Time:** 5 ms (excluding bounce).

Environmental Data

Temperature Range:

Storage: -40°C to +130°C. Operating: -30°C to +80°C.

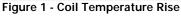
Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude Operational: 10 to 55 Hz., 1.5mm double amplitude.

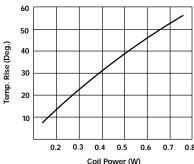
Shock, Mechanical: 100g min. Operational: 10g min. Operating Humidity: 45 to 85% RH.

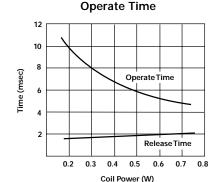
Mechanical Data

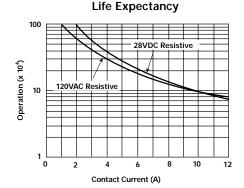
Termination: Printed circuit terminals. **Enclosure (94V-0 Flammability Ratings):**

Weight: 0.42 oz. (12g).









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

^{*} Higher dielectric version available. Consult factory for details.

RB

Ordering Information

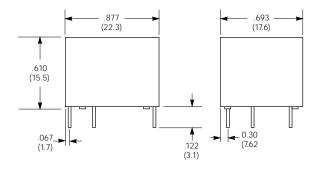
Typical Part Number	► T73	S	5	D	1	5	-24
1. Basic Series: T73 = Miniature, printed circuit board relay.							
2. Enclosure:V = Vented (Flux-tight)*S = Immersion cleanable, plastic sealed case.							
3. Contact Arrangement: 1 = 1 Form A (SPST-NO). 5 = 1 Form C (SPDT)							
4. Coil Input: D = DC voltage.							
5. Relay Type: 1 = Standard coil.					_		
6. Contact Material: 5 = Silver-Cadmium Oxide							
7. Coil Voltage: 03 = 3VDC 06 = 6VDC 12 = 12VDC 24 = 24VDC 05 = 5VDC 09 = 9VDC 18 = 18VDC 48 = 48VDC							

^{*} Not suitable for immersion cleaning process.

Stock Items - The following items are maintained in stock.

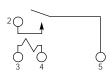
T73S5D15-05 T73S5D15-12 T73S5D15-24

Outline Dimensions

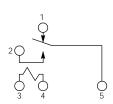


Wiring Diagrams (Bottom Views)

1 Form A

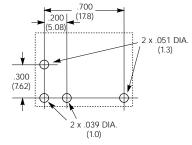


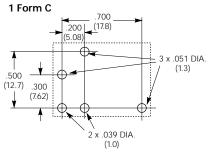
1 Form C



Suggested PC Board Layouts (Bottom Views)

1 Form A





Tyco Electronics Corporation - P&B, Winston-Salem, NC 27102 Technical Support Center: 1-800-522-6752, www.pandbrelays.com