



#### **Features**

10 amp switching capacity.
UL Class F (155°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: 2,000VAC 50/60 Hz. (1 minute).

#### **Initial Insulation Resistance**

Between Mutually Insulated Elements: 10<sup>8</sup> ohms min. @ 500VDC Ag contact rating

# T73 series

# Low Profile, 10 Amp **Printed Circuit Board Relay**

**FII** File E29244

(File LR48471)

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### 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.

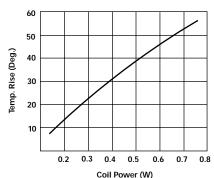
Shock, Mechanical: 100g min. Operational: 10g min. Operating Humidity: 45 to 85% RH.

#### **Mechanical Data**

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

Weight: 0.42 oz. (12g).

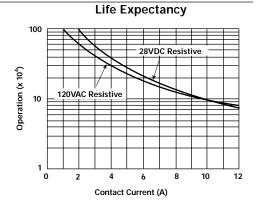
Figure 1 - Coil Temperature Rise



12 10 8 Time (msec) Operate Time 4 2 Release Time 0.3 0.4 0.5 0.6 0.7

Coil Power (W)

**Operate Time** 



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

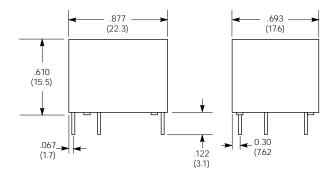
Ordering Information						
Typical Part Number > T73	3 S	5	D	1	5	-24
1. Basic Series: T73 = Miniature, printed circuit board relay.						
<ul><li>2. Enclosure:</li><li>V = Vented (Flux-tight)*</li><li>S = Immersion cleanable, plastic sealed case.</li></ul>						
3. Contact Arrangement: 1 = 1 Form A (SPST-NO). 5 = 1 Form C (SPDT)						
4. Coil Input: D = DC voltage.						
<ul><li>5. Relay Type:</li><li>1 = Standard coil.</li></ul>						
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						

<sup>\*</sup> Not suitable for immersion cleaning process.

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

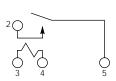
T73S5D15-05 T73S5D15-12 T73S5D15-24

#### **Outline Dimensions**

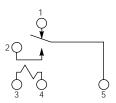


# Wiring Diagrams (Bottom Views)

### 1 Form A



#### 1 Form C



# Suggested PC Board Layouts (Bottom Views)

## 1 Form A

