

#### **Features**

tyco

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<br>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<br>Voltage<br>(VDC) | Coil<br>Resistance<br>(Ohms) +10% | Must Operate<br>Voltage<br>(VDC) | Must Release<br>Voltage<br>(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.

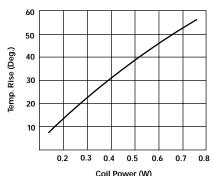
Shock, Mechanical: 100g min. Operational: 10g min. Operating Humidity: 45 to 85% RH.

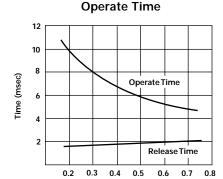
#### **Mechanical Data**

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

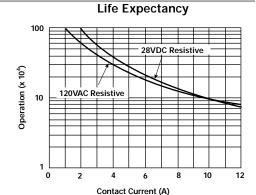
Weight: 0.42 oz. (12g).







Coil Power (W)



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

Catalog 1308242 Issued 3-03

Electronics **Ordering Information** 

S 5 -24 Typical Part Number ▶ **T73** 5 D 1 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:

06 = 6VDC12 = 12VDC 24 = 24VDC 03 = 3VDC

 $05 = 5VDC \quad 09 = 9VDC$ 18 = 18VDC 48 = 48VDC

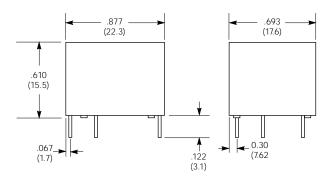
\* Not suitable for immersion cleaning process

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

T73S5D15-05 T73S5D15-12

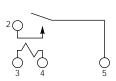
T73S5D15-24

#### **Outline Dimensions**

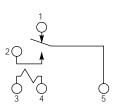


## Wiring Diagrams (Bottom Views)

## 1 Form A

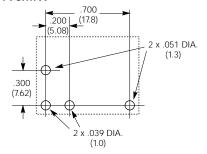


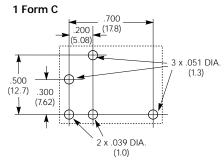
## 1 Form C



## Suggested PC Board Layouts (Bottom Views)

## 1 Form A





P&B