

## Features

- 10 amp switching capacity.
- UL Class F $\left(155^{\circ} \mathrm{C}\right)$ 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 ${ }^{\circ} \mathrm{C}$

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 @ $\mathbf{2 0 ^ { \circ }} \mathbf{C}$ with relay properly vented. Remove vent nib after soldering and cleaning.

| Contact <br> Arrang. | Typical Ratings | Type | 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 $50 / 60 \mathrm{~Hz}$. (1 minute).
Between Coil and Contacts: $2,000 \mathrm{VAC} 50 / 60 \mathrm{~Hz}$. (1 minute).

## Initial Insulation Resistance

Between Mutually Insulated Elements: $10^{8}$ ohms min. @ 500VDC.
Ag contact rating.

T73 series

## Low Profile, 10 Amp <br> Printed Circuit Board Relay

## 只 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

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 @ $\mathbf{2 0}^{\circ} \mathrm{C}$

| Rated Coil <br> Voltage <br> (VDC) | Coil <br> Resistance <br> (Ohms) $+\mathbf{1 0} \%$ | 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 @ $20^{\circ} \mathrm{C}$

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

## Environmental Data

Temperature Range:
Storage: $-40^{\circ} \mathrm{C}$ to $+130^{\circ} \mathrm{C}$.
Operating: $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$.
Vibration, Mechanical: 10 to $55 \mathrm{~Hz} ., 1.5 \mathrm{~mm}$ double amplitude Operational: 10 to 55 Hz ., 1.5 mm double amplitude.
Shock, Mechanical: 100 g min.
Operational: 10 g 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


Operate Time


Life Expectancy


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

## Ordering Information



* 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



Suggested PC Board Layouts (Bottom Views) 1 Form A


