

Miniature PCB Relay T73

- 10A switching capacity
- UL Class F coil insulation system standard
- 1 form A (NO) and 1 form C (CO) contact arrangement
- Flux proof, wash tight plastic sealed case available



Typical applications
Appliances, HVAC, office machines

Approvals

UL E29244
Technical data of approved types on request

Contact Data

| | |
|-------------------------------|--|
| Contact arrangement | 1 form A (NO) |
| Rated voltage | 120VAC, 24VDC |
| Max. switching voltage | 120VAC, 28VDC |
| Rated current | 10A |
| Contact material | AgCdO |
| Min. recommended contact load | 100mA at 5VDC |
| Frequency of operation | 1800 ops./h |
| Operate/release time max. | 10/5ms |
| Electrical endurance | 10A, 120VAC resistive 100x10 ³ ops. 6A, 24VDC resistive 100x10 ³ ops. |
| Contact ratings | 10A, 120VAC resistive 6A, 24VDC resistive 3/4HP, 240VAC |
| Mechanical endurance, DC coil | 10x10 ⁶ operations |

Coil Data

| | |
|-------------------------------------|------------|
| Coil voltage range | 3 to 48VDC |
| Operative range, IEC 61810 | 2 |
| Coil insulation system according UL | Class F |

Coil Data (continued)

Coil versions, DC coil

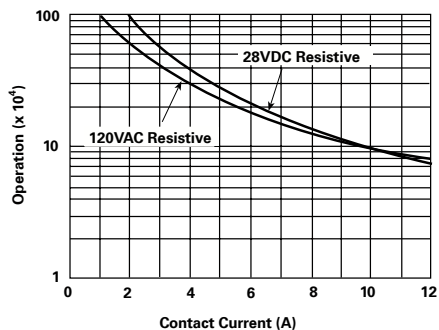
| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% | Rated coil power mW |
|-----------|-------------------|---------------------|---------------------|-----------------------|---------------------|
| 003 | 3 | 1.95 | 0.15 | 20 | 450 |
| 005 | 5 | 3.25 | 0.25 | 55.5 | 450 |
| 006 | 6 | 3.9 | 0.3 | 80 | 450 |
| 009 | 9 | 5.85 | 0.45 | 180 | 450 |
| 012 | 12 | 7.8 | 0.6 | 320 | 450 |
| 018 | 18 | 11.7 | 0.9 | 720 | 450 |
| 024 | 24 | 15.6 | 1.2 | 1280 | 450 |
| 048 | 48 | 31.2 | 2.4 | 3491 | 660 |

All figures are given for coil without pre-energization, at ambient temperature +23°C.

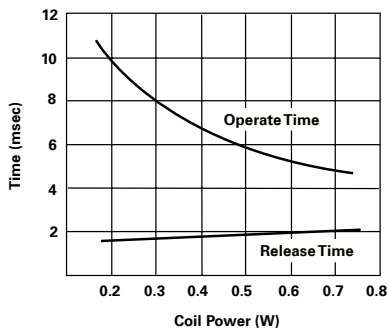
Insulation Data

| | |
|-----------------------------|----------------------|
| Initial dielectric strength | |
| between open contacts | 750V _{rms} |
| between contact and coil | 2000V _{rms} |
| Clearance/creepage | |
| between contact and coil | >1.6/3.2mm |

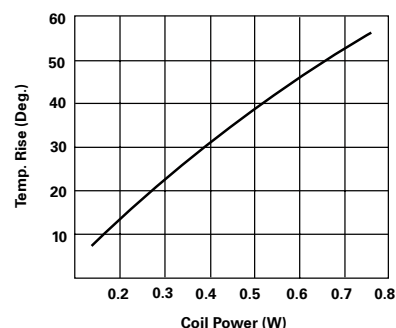
Electrical endurance



Operate time



Coil temperature rise



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

Miniature PCB Relay T73 (Continued)

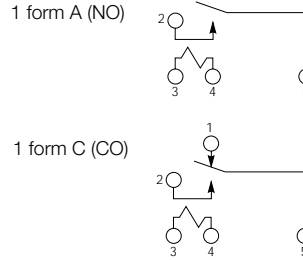
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.com/customer-support/rohssupportcenter

| | |
|---|---|
| Ambient temperature | -30°C to +80°C |
| Category of environmental protection IEC 61810 | RTII - flux proof RTIII - wash tight |
| Shock resistance (functional) | 10g |
| Shock resistance (destructive) | 100g |
| Weight | 12g |
| Resistance to soldering heat THT IEC 60068-2-20 | RTII: 270°C/10s RTIII: 260°C/5s |
| Packaging unit | tube/20 pcs., carton box/1000 pcs. |

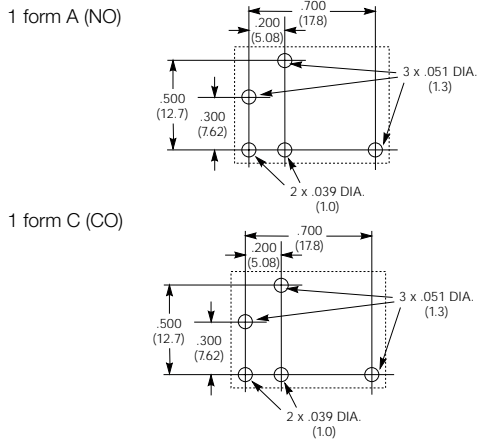
Terminal assignment

Bottom view on solder pins

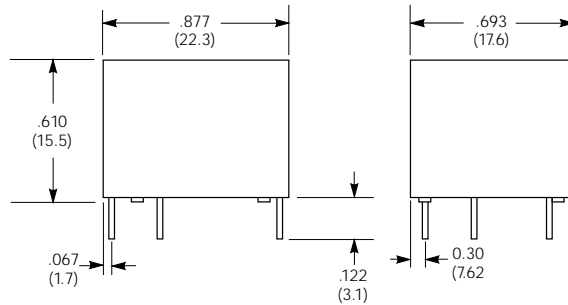


PCB layout

Bottom view on solder pins



Dimensions



Product code structure

Typical product code **T73 S 5 D 1 5 -24**

Basic type

T73 Miniature PCB Relay T73

Category of protection

- V** Flux proof
- S** Wash tight, immersion cleanable, plastic sealed case

Contact arrangement

1 1 form A (NO) contact **5** 1 form C (CO) contact

Coil input

D DC coil

Relay type

1 Standard coil

Contact material

5 AgCdO

Coil voltage

Coil code: please refer to coil versions table (e.g. 05=5VDC)

Other types on request

| Product code | Enclosure | Arrangement | Coil | Cont.material | Coil voltage | Part number |
|--------------|------------|---------------|---------|---------------|--------------|-------------|
| T73S1D15-12 | Wash tight | 1 form A (NO) | DC coil | AgCdO | 12VDC | 1-1393197-1 |
| T73S5D15-05 | | 1 form C (CO) | | | 5VDC | 2-1393197-9 |
| T73S5D15-12 | | | | | 12VDC | 3-1393197-2 |
| T73S5D15-24 | | | | | 24VDC | 3-1393197-4 |