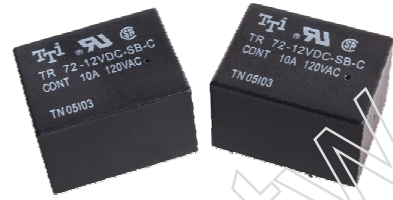




TR72

MAIN FEATURES

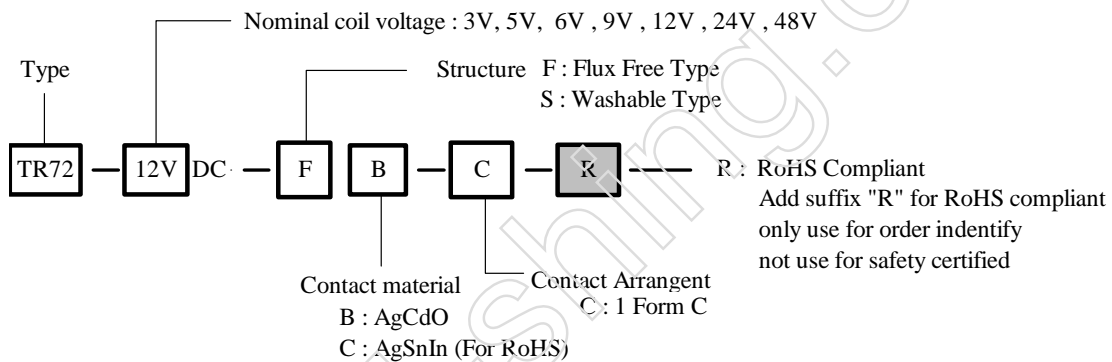
- TR72 series relay covers switching capacity from dry circuit by 10A to comply with user's wide selection.
- 2.54mm terminal pitch employment equal to I.C. terminal pitch.
- Employment of suitable plastic materials to be applied to high temperature and various chemical solutions.
- Complete protective construction from dust and soldering flux. If required. Plastic epoxy resin sealed type is available for washing procedure.
- UL recognized.



APPLICATIONS

- Cooling Appliance, air conditioner, audio equipment, domestic appliance, car control unit, etc.

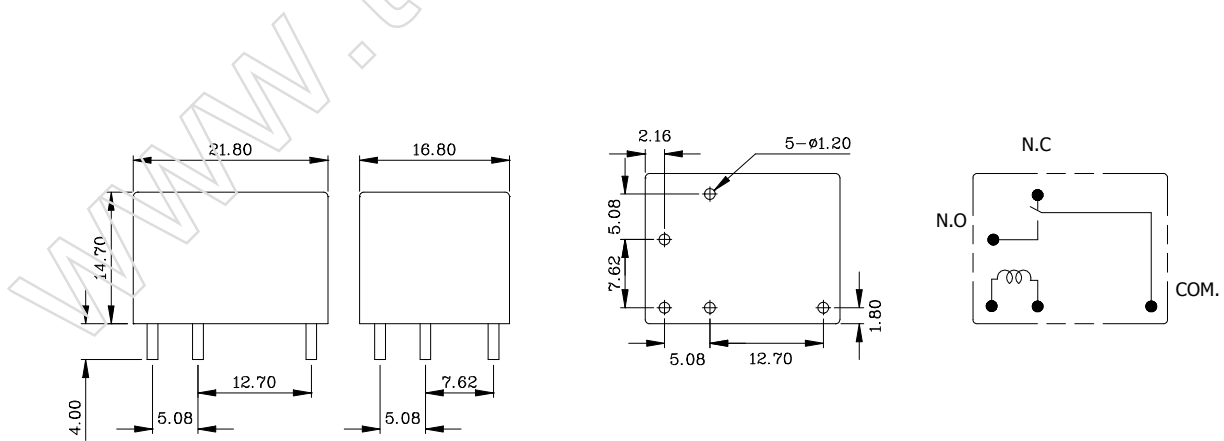
ORDERING INFORMATION



DIMENSION (unit:mm)

DRILLING (unit:mm)

WIRING DIAGRAM



COIL DATA CHART (AT20°C)

| Coil Sensitivity | Coil Voltage Code | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance (Ω) $\pm 10\%$ | Power Consumption (W) | Pull-In Voltage (VDC) | Drop-Out Voltage (VDC) | Max-Allowable Voltage (VDC) |
|------------------|-------------------|-----------------------|----------------------|---|-----------------------|-----------------------|------------------------|-----------------------------|
| TR72 | 03 | 3 | 150 | 20 | abt. 0.45 W | 75% Max. | 10% Min. | 130% |
| | 05 | 5 | 89 | 56 | | | | |
| | 06 | 6 | 75 | 80 | | | | |
| | 09 | 9 | 50 | 180 | | | | |
| | 12 | 12 | 37.5 | 320 | | | | |
| | 24 | 24 | 18.8 | 1280 | | | | |
| | 48 | 48 | 12.6 | 3800 | abt. 0.61W | | | |

CONTACT RATING

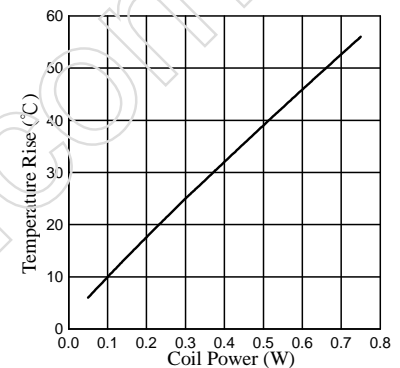
| Item | Type | TR72 |
|---------------------------------|------|---------------|
| Contact Capacity | | 10A 120VAC |
| Resistive Load ($\cos\Phi=1$) | | 10A 28VDC |
| Rated Carrying Current | | 10A |
| Max. Allowable Voltage | | 250VAC, 30VDC |
| Max. Allowable Current | | 10A |
| Max. Allowable Power Force | | 1200VA, 280W |
| Referenced Min. Applicable Load | | 5VDC, 100mA |
| Contact Material | | Ag Alloy |

PERFORMANCE (at initial value)

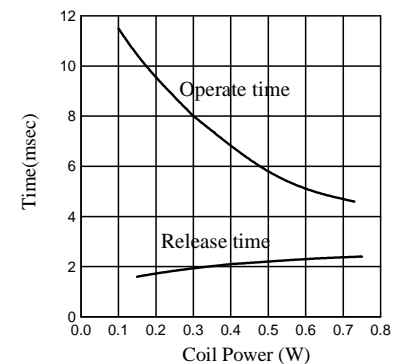
| Item | Type | TR72 |
|-------------------------------|------|--|
| Contact Resistance | | 50m Ω Max. |
| Operation Time | | 8msec Max. |
| Release Time | | 4msec Max. |
| Dielectric Strength | | |
| Between coil & contact | | 2500VAC 50/60Hz (1 minute) |
| Between contacts | | 1000VAC 50/60Hz (1minute) |
| Surge Resistiveness | | 3500V(between coil & contacts 1 \times 40 usec.) |
| Insulation Resistance | | 100 M Ω Min. (500VDC) |
| Max. ON/OFF Switching | | |
| Mechanically | | 300 operation/min |
| Electrically | | 30 operation/min |
| Operating Ambient Temperature | | -30 to +60°C |
| Operating Humidity | | 45 to 85% RH |
| Coil Temperature Rise | | 50 deg. Max. |
| Vibration | | |
| Endurance | | 10 to 55HZ Double Amplitude 1.5mm |
| Error Operation | | 10 to 55HZ Double Amplitude 1.5mm |
| Shock | | |
| Endurance | | 1000m/sec ² (abt. 100G) |
| Error Operation | | 100m/sec ² (abt. 10G) |
| Life Expectancy | | |
| Mechanically | | 10 \times 10 ⁶ operations. Min. (no load) |
| Electrically | | 10 \times 10 ⁴ operations. Min. (at rated coil voltage) |
| Weight | | abt. 10grs. |
| UL | | E156521 |

REFERENCE DATA

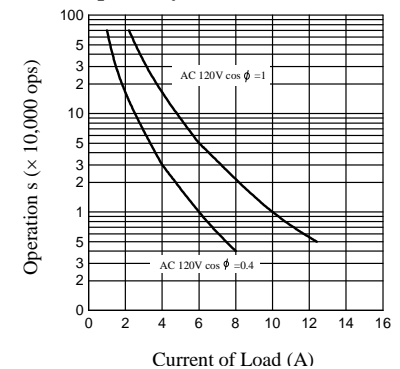
Coil Temperature Rise



Operation Time



Life Expectancy



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.