



TRB

TRBS Coil Terminal
Arranged on One Side

MAIN FEATURES

- Subminiature Type.
- Silver or Silver Alloy Contacts with Gold Plated.
- Low Dissipation.
- Sealed Type Available.
- Design conforms to foreign safety standard UL.

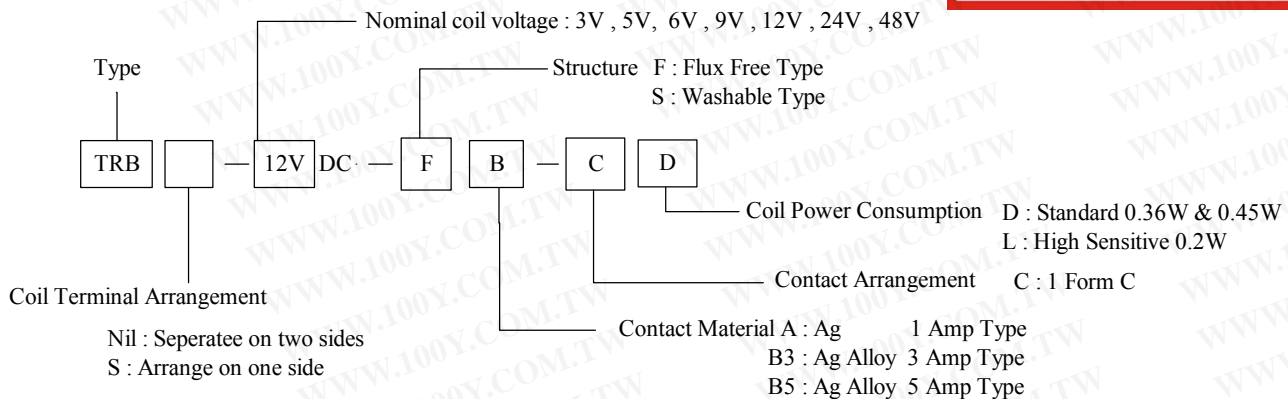
APPLICATIONS

- Microprocessor Control, Store Program Exchanger and Household Appliance.

ORDERING INFORMATION



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

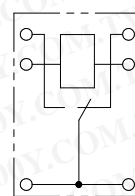
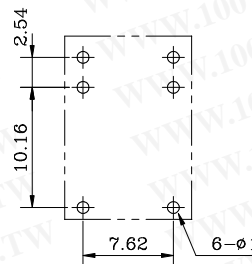
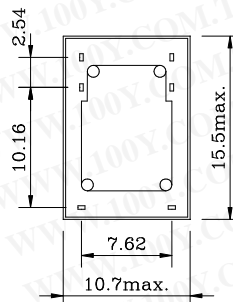
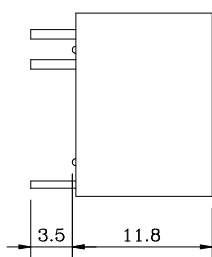


DIMENSION (unit:mm)

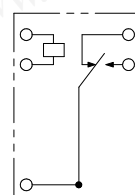
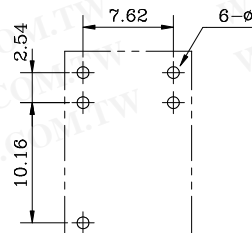
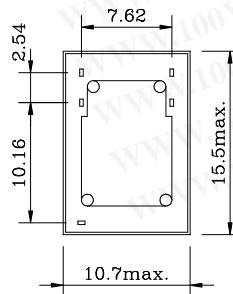
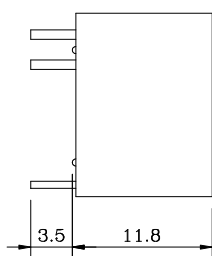
DRILLING (unit:mm)

WIRING DIAGRAM

TRB



TRBS



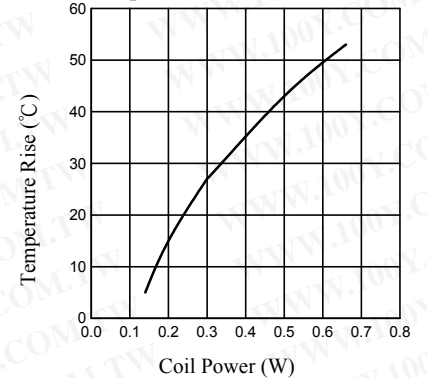
COIL DATA CHART (AT20°C)

| 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) |
|--|-------------------|-----------------------|----------------------|---|-----------------------|-----------------------|------------------------|-----------------------------|
| TRB□-B (High Sensitivity) 1 Amp type | 03 | 03 | 66.7 | 45 | abt. 0.2 W | 75% Max. | 10% Min. | 110% |
| | 05 | 05 | 40 | 125 | | | | |
| | 06 | 06 | 33.3 | 180 | | | | |
| | 09 | 09 | 22.2 | 405 | | | | |
| | 12 | 12 | 16.7 | 720 | | | | |
| | 24 | 24 | 8.3 | 2880 | | | | |
| TRB□-B3 (Standard) 3 Amp type | 03 | 03 | 120 | 25 | abt. 0.36W | 75% Max. | 10% Min. | 110% |
| | 05 | 05 | 66.7 | 75 | | | | |
| | 06 | 06 | 60 | 100 | | | | |
| | 09 | 09 | 40.9 | 220 | | | | |
| | 12 | 12 | 30 | 400 | | | | |
| | 24 | 24 | 15 | 1600 | | | | |
| TRB□-B5 (High Capacity) 5 Amp type | 03 | 03 | 150 | 20 | abt. 0.45W | 75% Max. | 10% Min. | 110% |
| | 05 | 05 | 89.3 | 56 | | | | |
| | 06 | 06 | 75 | 80 | | | | |
| | 09 | 09 | 50 | 180 | | | | |
| | 12 | 12 | 37.5 | 320 | | | | |
| | 24 | 24 | 18.75 | 1280 | | | | |

CONTACT RATING

| Item | Type | TRB-B/TRBS | TRB-B3 | TRB-B5 |
|---|------|-----------------------|---------------------------|-----------------------|
| | | 1 Amp type | 3 Amp type | 5 Amp type |
| Contact Capacity | | Coil=0.2W | Coil=0.36W | Coil=0.45W |
| Resistive Load ($\cos\Phi=1$) | | 1A 125VAC 1A 30VDC | 3A 125VAC 3A 30VDC | 5A 125VAC 5A 14VDC |
| Inductive Load ($\cos\Phi=0.4$ L/R=7msec) | | | 0.3A 125VAC 0.3A 30VDC | |
| Rated Carrying Current | | 1 A | 3 A | 5 A |
| Max. Allowable Voltage | | 125VAC, 30VDC | | |
| Max. Allowable Current | | 1 A | 3 A | 5 A |
| Max. Allowable Power Force | | 125VA, 30W | 375VA, 72W | 625VA, 70W |
| Contact Material | | Ag Alloy | | |

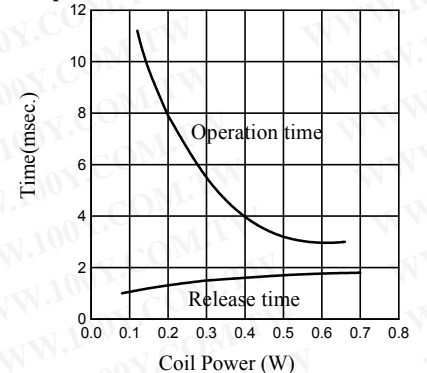
Coil Temperature Rise



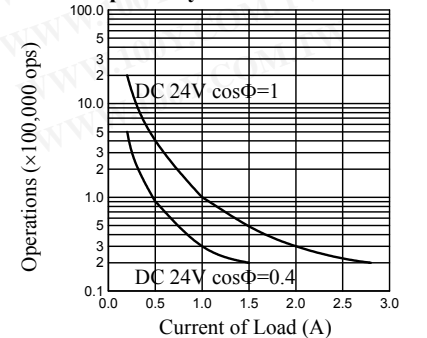
PERFORMANCE (at initial value)

| Item | Type | TRB/TRBS |
|-------------------------------|------|--|
| Contact Resistance | | 100m Ω Max. |
| Operation Time | | 5msec Max. |
| Release Time | | 5msec Max. |
| Dielectric Strength | | |
| Between coil & contact | | 500VAC 50/60HZ (1 minute) |
| Between contacts | | 500VAC 50/60HZ (1 minute) |
| Surge Resistiveness | | 1000V (between coil & contact 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 | | -25°C to +55°C (No water condensation and no water drop) |
| Operating Humidity | | 45 to 85% RH |
| Coil Temperature Rise | | 40 deg. Max. (at rated coil voltage) |
| Vibration | | |
| Endurance | | 10 to 55HZ Single Amplitude 0.35mm |
| Error Operation | | 10 to 55HZ Single Amplitude 0.35mm |
| Shock | | |
| Endurance | | 50G Min. |
| Error Operation | | 10G Min. |
| Life Expectancy | | |
| Mechanically | | 10 \times 10 ⁶ operations. Min. (no load) |
| Electrically | | 10 \times 10 ⁴ operations. Min. (at rated coil voltage) |
| Weight | | abt. 3.5grs. |
| UL File No. | | E156521 |

Operation time



Life Expectancy



REFERENCE DATA