



# TRIL

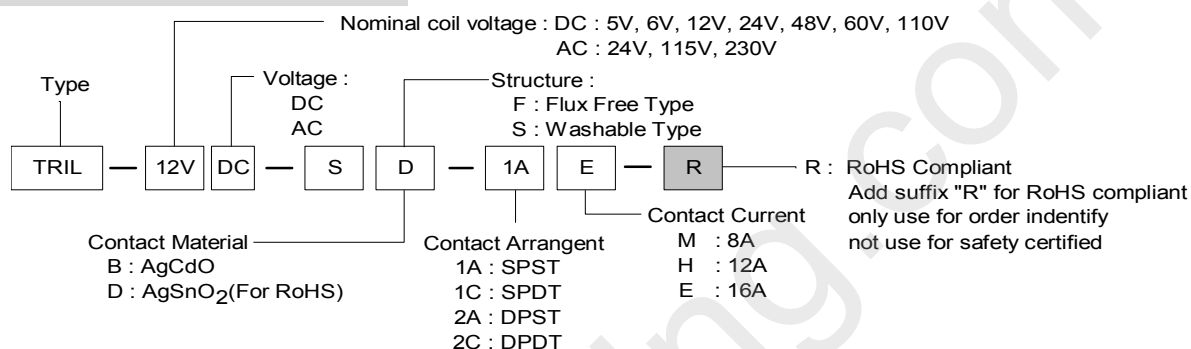
## MAIN FEATURES

- 16A switching capabilities.
- 1 & 2 pole configurations.
- 5KV/10mm dielectric coil to contacts.
- Low height of 15.7mm.
- Sealed & Unsealed types available.
- UL & cUL recognized.

## APPLICATIONS

- Microwave Oven; Facsimile; Refrigerator, Air Conditioner, Conditioner, Stereo Equipment; Copiers, TV Set, Monitor, Vending Machine, Temperature Controller, etc.

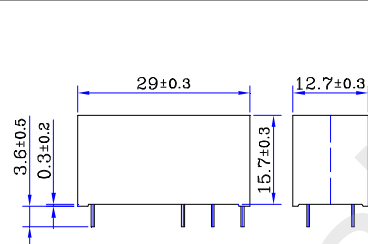
## ORDERING INFORMATION



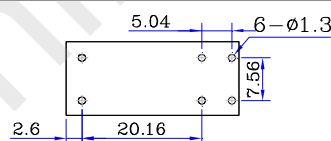
## DIMENSION(unit:mm)

## DRILLING(unit:mm)

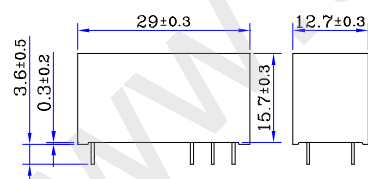
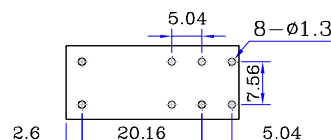
## WIRING DIAGRAM



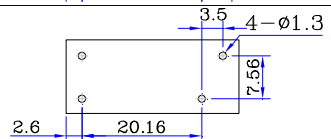
TRIL -2AM



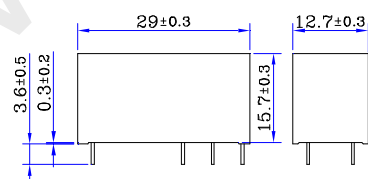
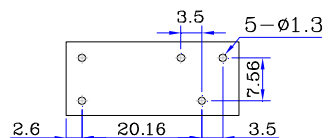
TRIL -2CM



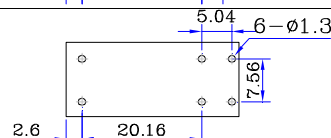
TRIL -1AH



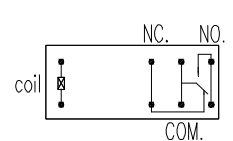
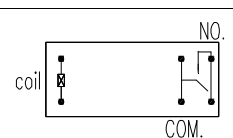
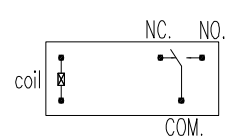
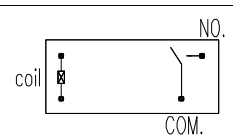
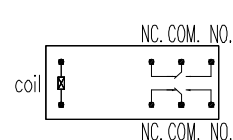
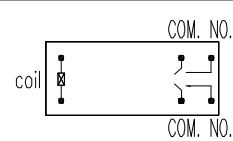
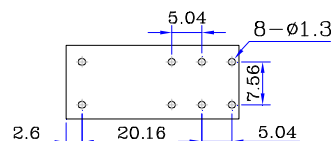
TRIL -1CH



TRIL -1AE



TRIL -1CE



➤ **COIL DATA CHART**(at 20℃)

| Coil Sensitivity | Nominal Voltage (VDC) | Nominal Current (mA) | Coil Resistance (Ω)±10% | Power Consumption (W) | Pull-InVoltage (VDC) | Drop-Out Voltage (VDC) | Max-Allowable Voltage (VDC) |
|------------------|-----------------------|----------------------|-------------------------|-----------------------|----------------------|------------------------|-----------------------------|
| TRIL (DC TYPE)   | 5                     | 80.6                 | 62                      | abt. 0.4W             | 70% Max.             | 10% Min.               | 110% Max.                   |
|                  | 6                     | 66.7                 | 90                      |                       |                      |                        |                             |
|                  | 12                    | 33.3                 | 360                     |                       |                      |                        |                             |
|                  | 24                    | 16.7                 | 1440                    |                       |                      |                        |                             |
|                  | 48                    | 8.3                  | 5760 ± 15%              |                       |                      |                        |                             |
|                  | 60                    | 8.0                  | 7500 ± 15%              |                       |                      |                        |                             |
| TRIL (AC TYPE)   | 110                   | 4.3                  | 25200 ± 15%             | abt. 0.75VA           | 75% Max.             | 15% Min.               | 110% Max.                   |
|                  | 24                    | 31.6                 | 350                     |                       |                      |                        |                             |
|                  | 115                   | 17.3                 | 8100 ± 15%              |                       |                      |                        |                             |
|                  | 230                   | 34.5                 | 32500 ± 15%             |                       |                      |                        |                             |

➤ **CONTACT RATING**

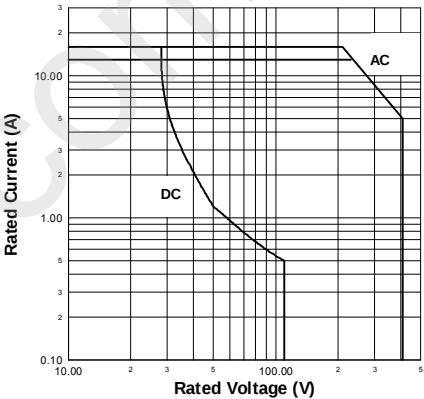
| Item \ Type                | SPST (1A) , SPDT (1C) |            | DPST (2A) , DPDT (2C) |
|----------------------------|-----------------------|------------|-----------------------|
|                            | TRIL -E               | TRIL -H    | TRIL -M               |
| Contact Capacity           |                       |            |                       |
| Resistive Load (cosΦ=1)    | 16A 250VAC            | 12A 250VAC | 8A 250VAC             |
| Rated Carrying Current     | 16A                   | 12A        | 8A                    |
| Max. Allowable Voltage     | 250VAC                |            |                       |
| Max. Allowable Current     | 16A                   | 12A        | 8A                    |
| Max. Allowable Power Force | 4000VA                | 3000VA     | 2000VA                |
| Contact Material           | Ag Alloy              |            |                       |

➤ **PERFORMANCE** (at initial value)

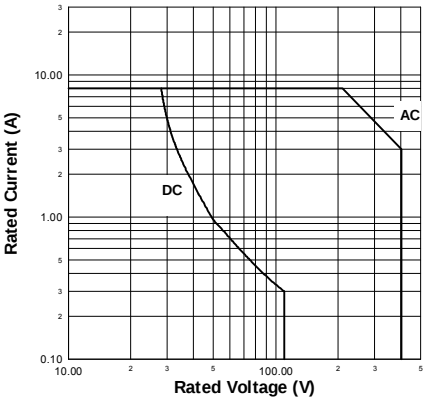
| Item \ Type                             | TRIL                                                                             |
|-----------------------------------------|----------------------------------------------------------------------------------|
| Contact Resistance                      | 100mΩ max (measured at 1A 6VDC).                                                 |
| Operation Time                          | 15msec max.                                                                      |
| Release Time                            | 8msec max.                                                                       |
| Insulation Resistance                   | 1000 MΩ min. (500VDC)                                                            |
| Dielectric Strength                     |                                                                                  |
| Between coil & contacts                 | 5000VAC, 1min                                                                    |
| Between open contacts                   | 1000VAC, 1min                                                                    |
| Between Contact sets                    | 2500VAC, 1min                                                                    |
| Surge voltage (between coil & contacts) | 10KV(1.2 x 50us)                                                                 |
| Temperature rise(at nomi.volt.)         | 55K max. (DC Type)/ 65K max. (AC Type)                                           |
| Shock                                   | Functional 98 m/s <sup>2</sup>                                                   |
| Resistance                              | Destructive 980 m/s <sup>2</sup>                                                 |
| Vibration Resistance                    | 10 to 150Hz 10g/5g                                                               |
| Operating Ambient Temperature           | -40℃ to +85℃(DC Type)/ -40℃ to +70℃ (AC Type)                                    |
| Operating Humidity                      | 35% to 85% RH                                                                    |
| Life Expectancy                         |                                                                                  |
| Mechanically                            | 1 × 10 <sup>7</sup> ops. Min.                                                    |
| Electrically                            | 1 × 10 <sup>5</sup> ops. Min.(DC Type)<br>5 × 10 <sup>4</sup> ops. Min.(AC Type) |
| Weight                                  | abt. 13.5grs.                                                                    |
| UL & cUL                                | E156406                                                                          |

➤ **REFERENCE DATA**

1 Pole 12/16A



2 Pole 8A



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing. (0951AA08VOL01)