



TRU

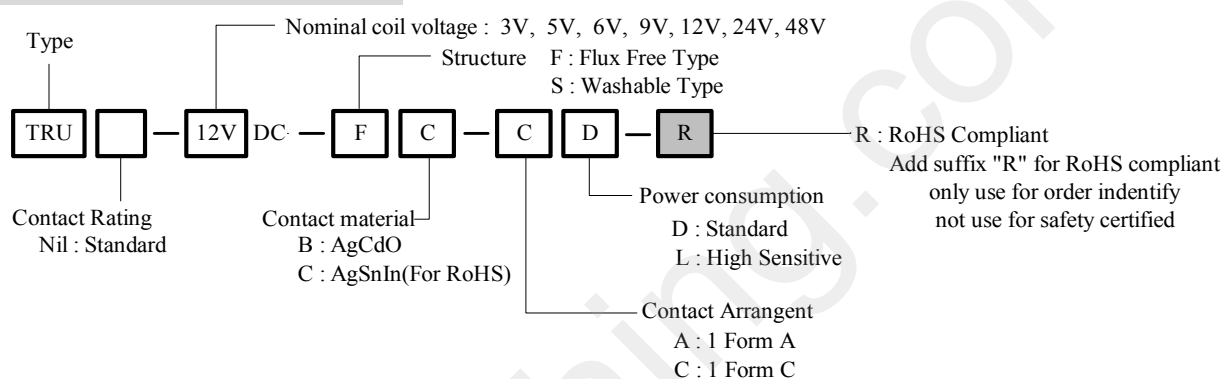
► MAIN FEATURES

- High contact capacity : 12A, 15A
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Sealed types available.
- UL and TUV recognized.

► APPLICATIONS

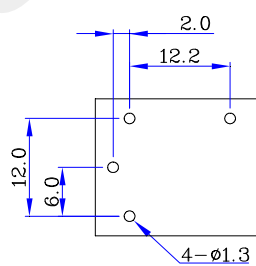
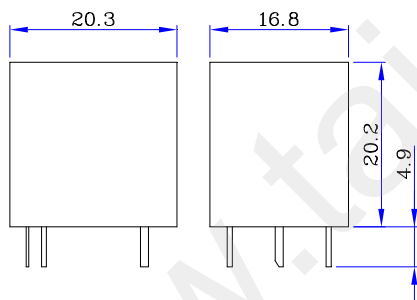
- Home appliance, air conditioner, heater, etc.
- Automotive Power-window, car antenna, door-lock, etc.
- Office machine, facsimile, etc.
- Vending machine.

► ORDERING INFORMATION



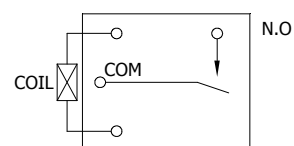
■ DIMENSION(unit:mm)

TRU Form A TYPE

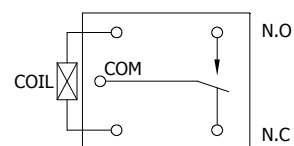
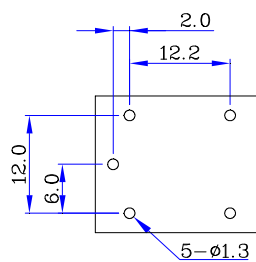
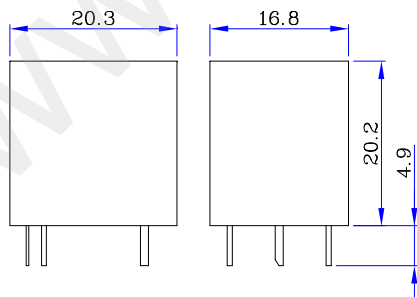


■ DRILLING(unit:mm)

■ WIRING DIAGRAM



TRU Form C TYPE



Remark: 1.In case of no tolerance shown in dimension: $\pm 0.5\text{mm}$.
2.The tolerance without indicating for DRILLING is always $\pm 0.1\text{mm}$.

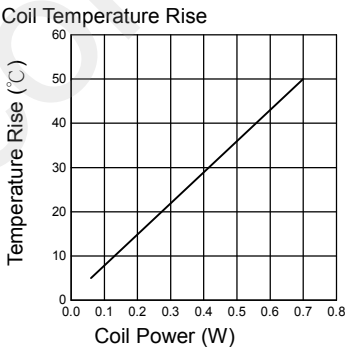
➤ **COIL DATA CHART**(at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRU (High Sensitivity)	3	120	25	abt. 0.36W	75% Max.	5% Min.	130%
	5	71.5	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1600				
TRU (Standard)	48	7.5	6400	abt. 0.45W abt. 0.51W	75% Max.	5% Min.	130%
	3	150	20				
	5	89.3	56				
	6	75	80				
	09	50	180				
	12	37.5	320				
	24	18.7	1280				
	48	10	4500				

➤ **CONTACT RATING**

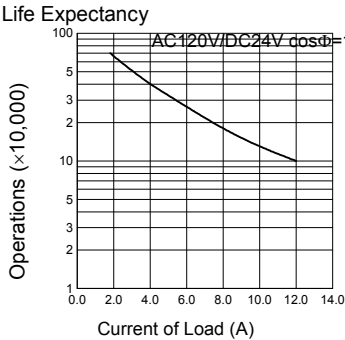
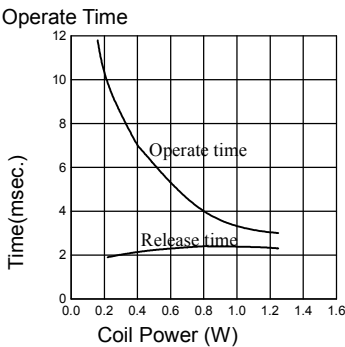
Item	Type	TRU	
		12A	15A
Contact Capacity		12A 28VDC(UL)	12A 28VDC(UL)
Resistive Load		12A 120VAC	15A 125VAC
(cosΦ=1)		15A 28VDC(TUV)	15A 28VDC(TUV)
		10A 250VAC	10A 250VAC
Rated Carrying Current		12A	15A
Max. Allowable Voltage		250VAC, 110VDC	250VAC, 110VDC
Max. Allowable Current		12A	15A
Max. Allowable Power		1440VA, 336W	1875VA, 420W
Force			
Referenced Min. Applicable Load		5VDC, 10mA	5VDC, 10mA
Contact Material		Ag Alloy	Ag Alloy

➤ **REFERENCE DATA**



➤ **PERFORMANCE** (at initial value)

Item	Type	TRU
Contact Resistance		100mΩ Max.
Operation Time		15msec Max.
Release Time		5msec Max.
Dielectric Strength		
Between coil & contact		1500VAC 50/60Hz (1 minute)
Between contacts		750VAC 50/60Hz (1 minute)
Surge Resistiveness		3000V (between coil & contact 1×40 usec)
Insulation Resistance		100 MΩ Min. (500VDC)
Max. ON/OFF Switching		
Mechanically		300 operation/min
Electrically		30 operation/min
Operating Ambient Temperature		-30°C to +80°C(No water condensation and no water drop)
Operating Humidity		45 to 85% RH
Coil Temperature Rise		35 deg. Max.
Vibration		
Endurance		10 to 55Hz Double Amplitude 1.5mm
Error Operation		10 to 55Hz Double Amplitude 1.5mm
Shock		
Endurance		980m/s ² .
Error Operation		98m/s ² .
Life Expectancy		
Mechanically		1 × 10 ⁷ operations. Min. (no load)
Electrically		1 × 10 ⁵ operations. Min. (at rated coil voltage)
Weight		abt. 12grs.
UL		E156521.
TUV		R50050851



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing. (1030AA08VOL01)