

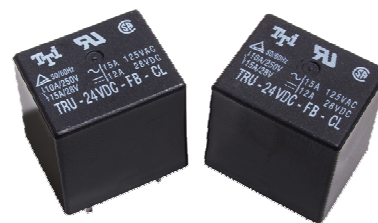


TRU

TRUT with TV-10 Approval

MAIN FEATURES

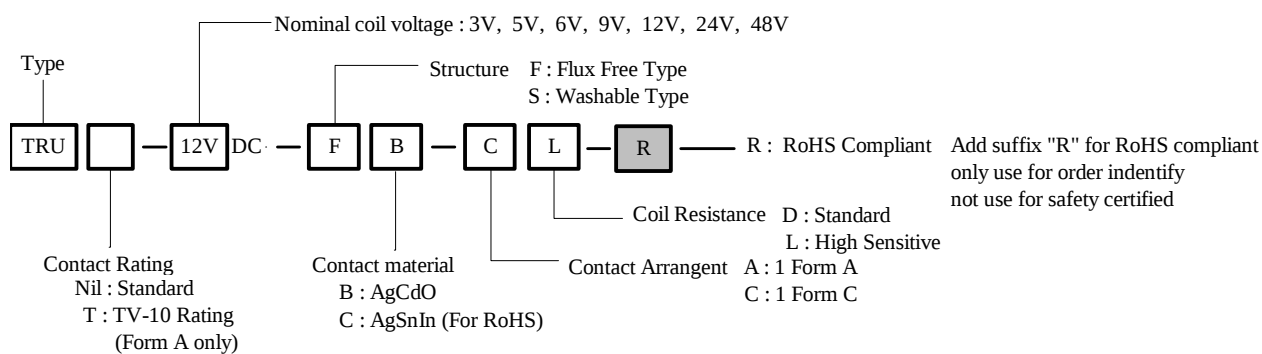
- High contact capacity : 12A, 15A
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Sealed types available.
- UL、CSA and TUV recognized.



APPLICATIONS

- TRU : • Home appliance, air conditioner, heater, etc.
• Automotive Power-window, car antenna, door-lock, etc.
• Office machine, facsimile, etc.
• Vending machine.
- TRUT : • Remote control TV receivers, monitor displays, audio equipment
high rushing current use application.

ORDERING INFORMATION

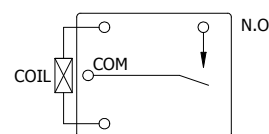
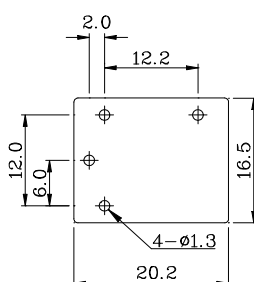
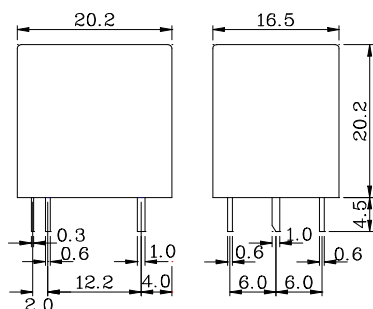


DIMENSION(unit:mm)

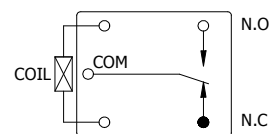
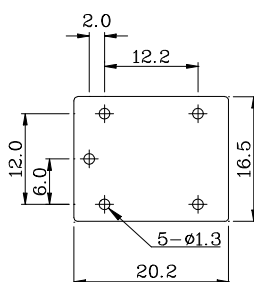
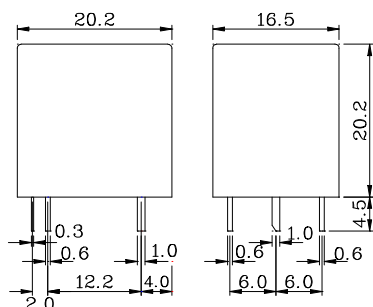
DRILLING(unit:mm)

WIRING DIAGRAM

TRU Form A AND TRUT (TV-10) TYPE



TRU Form C TYPE



COIL DATA CHART (AT20°C)

Coil Sensitivity	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)
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	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	abt. 0.50W			
	48	10	4500				

CONTACT RATING

Item	Type	TRU		TRUT (TV-10)
		12A	15A	
Contact Capacity Resistive Load ($\cos\Phi=1$)		12A 28VDC(UL) 12A 120VAC 15A 28VDC(TUV) 10A 250VAC	12A 28VDC(UL) 15A 125VAC 15A 28VDC(TUV) 10A 250VAC	125VAC TV-10 (Incandescent Lamp 10A) 10A 250VAC 15A 28VDC 1/2HP 125VAC
Rated Carrying Current		12A	15A	15A
Max. Allowable Voltage		250VAC, 110VDC	250VAC, 110VDC	240VAC, 110VDC
Max. Allowable Current		12A	15A	15A
Max. Allowable Power Force		1440VA, 336W	1875VA, 420W	1440VA, 420W
Referenced Min. Applicable Load		5VDC, 10mA	5VDC, 10mA	5VDC, 10mA
Contact Material		Ag Alloy	Ag Alloy	Ag Alloy

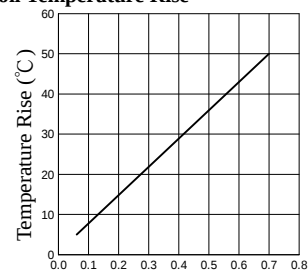
PERFORMANCE (at initial value)

Item	Type	TRU
Contact Resistance		100m Ω 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 $\times$ 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°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		100G 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. 12grs.
UL		E156521 (TV-10)
CSA		LR102317
TUV		R50050851

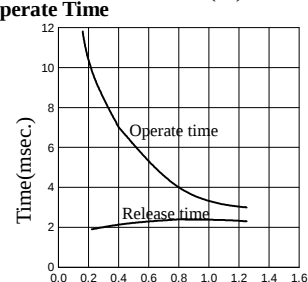
This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.

REFERENCE DATA

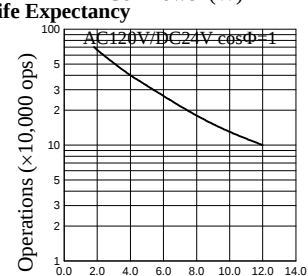
Coil Temperature Rise



Operate Time



Life Expectancy



Life Expectancy

