

TRU

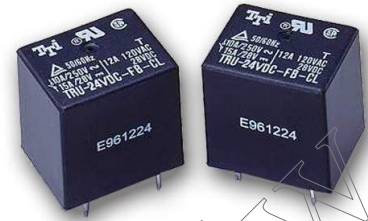
TRUT with TV-5 Approval

MAIN FEATURES

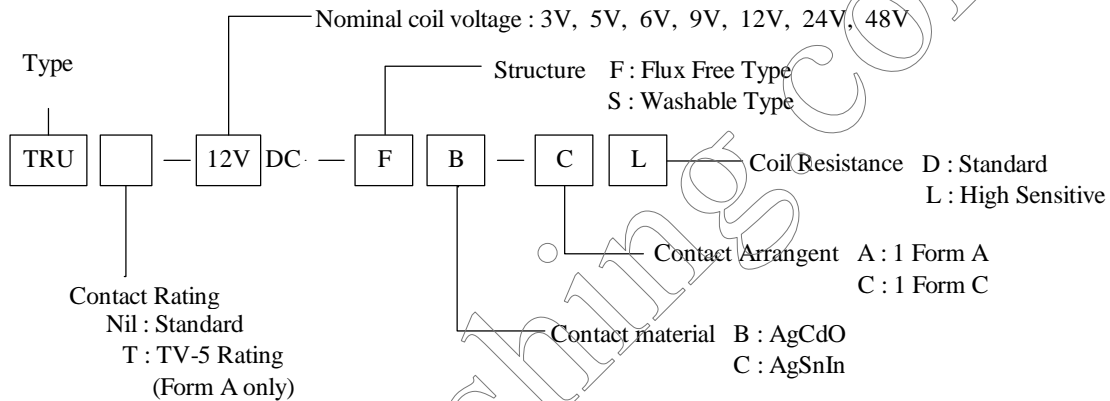
- High contact capacity : 12A, (15A for TUV approved)
- UL/CSA, TUV recognized. TRUT (TV-5 Approved).
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Sealed types available.

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

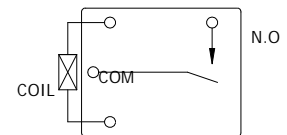
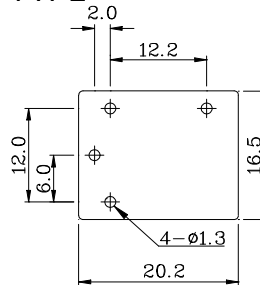
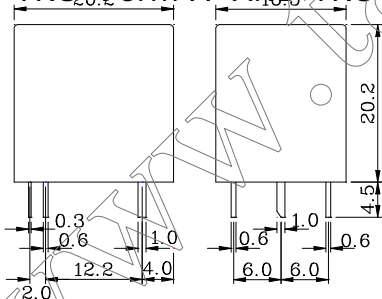


DIMENSION (unit:mm)

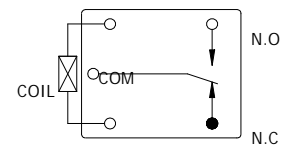
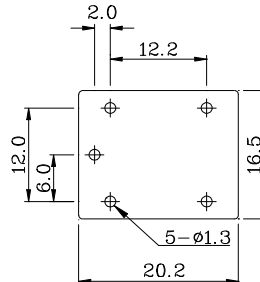
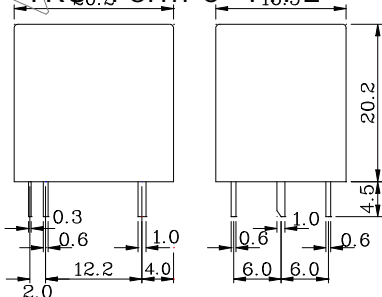
DRILLING (unit:mm)

WIRING DIAGRAM

TRU Form A AND TRUT (TV-5) TYPE



TRU Form C TYPE



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)
TRU (High Sensitivity)	03	03	120	25	abt. 0.36W	75% Max.	5% Min.	130%
	05	05	71.5	70				
	06	06	60	100				
	09	09	40	225				
	12	12	30	400				
	24	24	15	1600				
TRU (Standard)	03	03	150	20	abt. 0.45W	75% Max.	5% Min.	130%
	05	05	89.3	56				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.7	1280				
	48	48	10	4500	abt. 0.51W			

CONTACT RATING

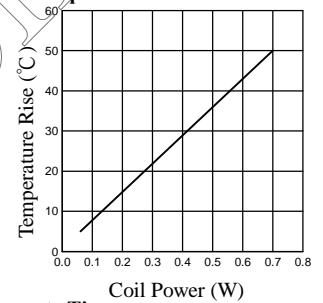
Item	Type	TRU		TRUT (TV-5)
		12A	15A	
Contact Capacity		12A 28VDC	12A 28VDC (UL)	120VAC TV-5
Resistive Load ($\cos\Phi=1$)		12A 120VAC 10A 250VAC	15A 125VAC 15A 28VDC(TUV) 10A 250VAC	(Incandescent Lamp 5A)
Inductive Load ($\cos\Phi=0.4$ L/R=7msec)		5A 120VAC 5A 28VDC	7A 120VAC 7A 28VDC	6A 240VAC 12A 28VDC
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, 336W
Referenced Min. Applicable Load		5VDC, 10mA	5VDC, 10mA	10VDC, 10mA
Contact Material		Ag Alloy	Ag Alloy	Ag Alloy

PERFORMANCE (at initial value)

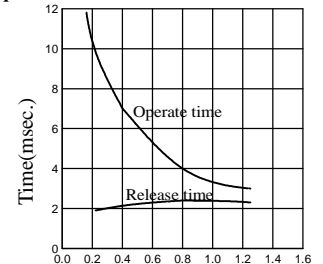
Item	Type	TRU
Contact Resistance		100m Ω Max.
Operation Time		15msec Max.
Release Time		5msec Max.
Dielectric Strength	Between coil & contact	1500VAC 50/60HZ (1 minute)
	Between contacts	750VAC 50/60HZ (1 minute)
Surge Resistiveness		3000V (between coil & contact 1x40 usec)
Insulation Resistance		100 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 x 10 ⁶ operations. Min. (no load)
	Electrically	10 x 10 ⁴ operations. Min. (at rated coil voltage)
Weight		abt. 12grs.
UL File No.		E156521 (TV-5)
CSA File No.		LR102317
TUV File No.		R50050851

REFERENCE DATA

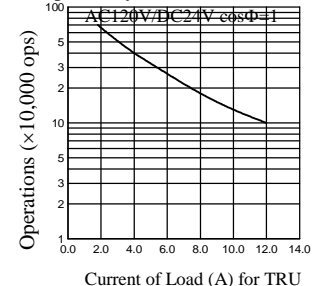
Coil Temperature Rise



Operate Time



Life Expectancy



Life Expectancy

