



TRU

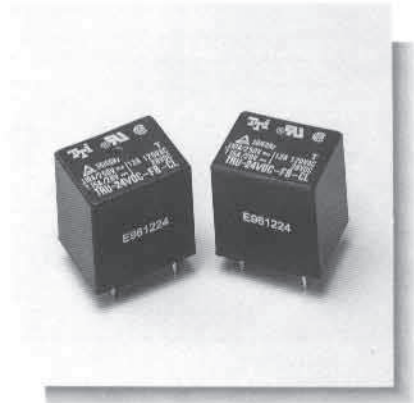
TRUT with TV-5 Approval

MAIN FEATURES

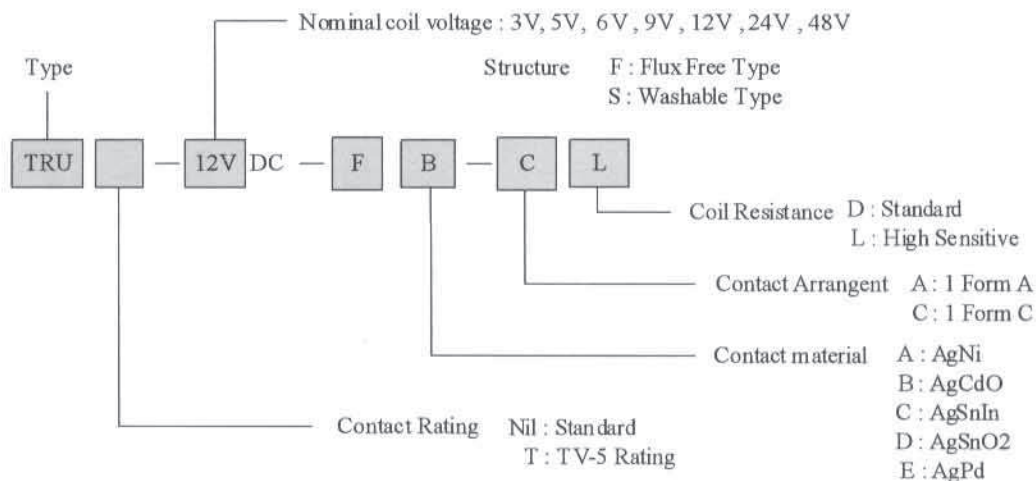
- High contact capacity : 12A, (15A for TUV approval)
- UL/CSA, TUV recognized. TRUT (TV-5 Approval).
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Sealed types available.

APPLICATIONS

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



ORDERING INFORMATION

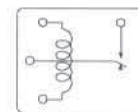
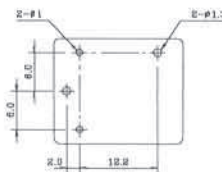
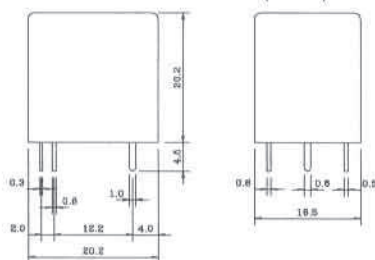


DIMENSION (unit:mm)

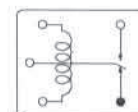
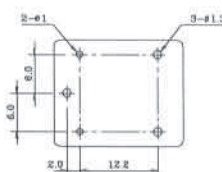
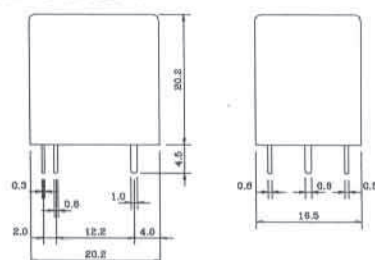
DRILLING (unit:mm)

WIRING DIAGRAM

TRU 1 Form A AND TRUT(TV-5)



TRU 1 Form C



■ 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)	48	48	7.5	6400	abt. 0.45W	75% Max.	5% Min.	130%
	03	03	150	20				
	05	05	89.3	56				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.7	1280	abt. 0.51W			
	48	48	10	4500				

■ CONTACT RATING

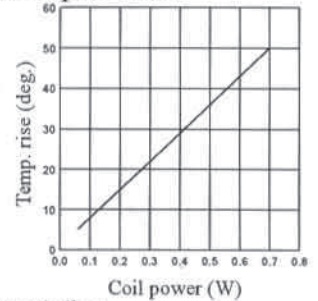
Item	Type	TRU	TRUT TV-5
Contact Capacity		12A	15A
Resistive Load ($\cos\Phi=1$)		AC240V 10A AC120V 12A DC28V 12A	AC250V 10A AC125V 15A DC28V 15A
Inductive Load ($\cos\Phi=0.4$ L/R=7msec)		AC240V 5A DC28V 5A	AC120V 7A DC28V 7A
Rated Carrying Current		12A	15A
Max. Allowable Voltage		AC240V, DC110V	AC240V, DC110V
Max. Allowable Current		12A	15A
Max. Allowable Power Force		1500VA/350W	1800VA/420W
Referenced Min. Applicable Load		DC5V, 10mA	DC5V, 10mA
Contact Material		AgCdO	Ag Alloy

■ PERFORMANCE (at initial value)

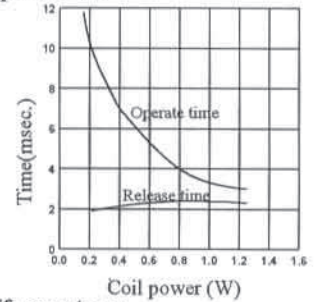
Item	Type	TRU
Contact Resistance		100m Ω Max.
Operate Time		15msec Max.
Release Time		5msec Max.
Dielectric Strength		
Between coil & contact		AC 1500V 50/60HZ (1 minute)
Between contacts		AC 750V 50/60HZ (1 minute)
Surge Resistiveness		3000V (between coil & contact 1x40 usec)
Insulation Resistance		100 M Ω Min. (DC500V)
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 Single Amplitude 1.5mm
Error Operation		10 to 55HZ Single 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.		R9452085

■ REFERENCIAL DATA

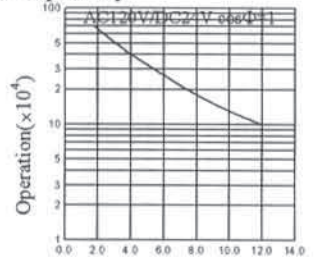
Coil temperature rise



Operate time



Life expectancy



Life expectancy

