



## COIL DATA CHART (AT20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	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)	3	150	20	abt. 0.45W	75% Max.	5% Min.	130%
	5	89.3	56				
	6	75	80				
	09	50	180				
	12	37.5	320				
	24	18.7	1280				
	48	10	4500	abt. 0.50W			

## CONTACT RATING

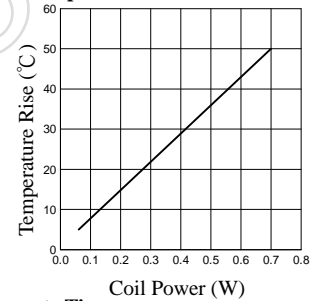
Item	Type	TRU		TRUT (TV-10)
		12A	15A	
Contact Capacity Resistive Load ( $\cos\Phi=1$ )		12A 28VDC(UL) 12A 120VAC 15A 28VDC(TUV) 10A 250VAC	12A 28VDC(UL) 15A 125VAC 15A 28VDC(TUV) 10A 250VAC	125VAC TV-10 (Incandescent Lamp 10A) 10A 250VAC 15A 28VDC 1/2HP 125VAC
Rated Carrying Current		12A	15A	15A
Max. 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)

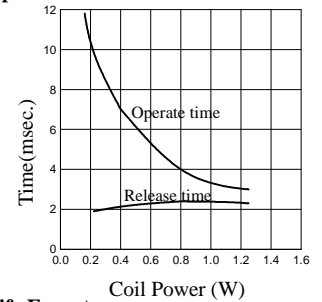
Item	Type	TRU
Contact Resistance		100m $\Omega$ Max.
Operation Time		15msec Max.
Release Time		5msec Max.
Dielectric Strength		Between coil & contact 1500VAC 50/60HZ (1 minute) Between contacts 750VAC 50/60HZ (1 minute)
Surge Resistiveness		3000V (between coil & contact 1x40 usec)
Insulation Resistance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

## REFERENCE DATA

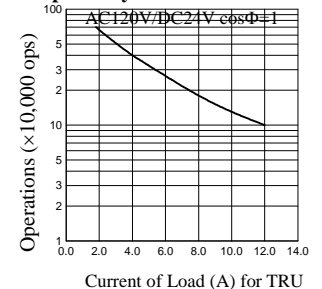
Coil Temperature Rise



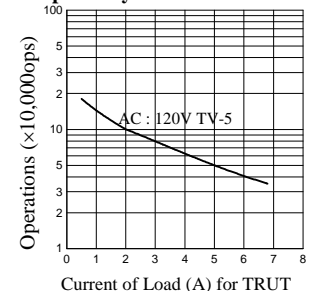
Operate Time



Life Expectancy



Life Expectancy



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