



Power Relay

TRV/TRVF

MAIN FEATURES

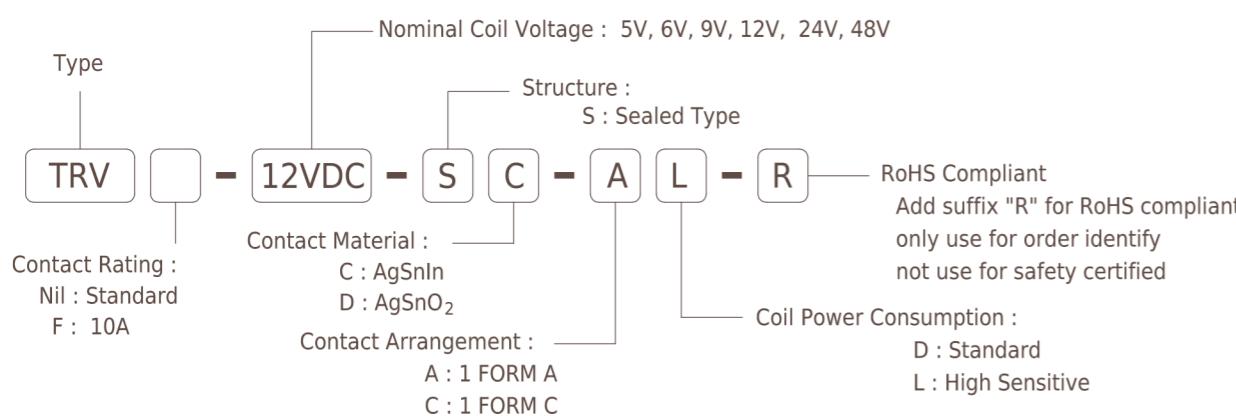
- High capacity type (16A) available.
- High sensitivity 0.2W (1 Form A).
- Flat type : LxWxH=16.5mm×22.2mm×11.2mm.
- UL, cUL and TUV recognized.



APPLICATIONS

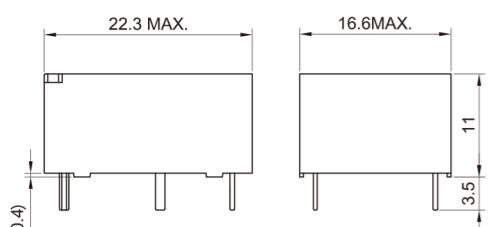
- Home appliances : Air conditioner, heater, etc.
- Automotive : Power supply for car stereo and air conditioner.

ORDERING INFORMATION

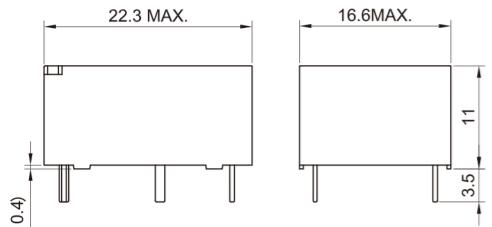


DIMENSION(unit:mm)

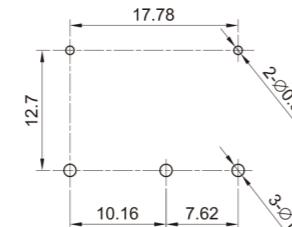
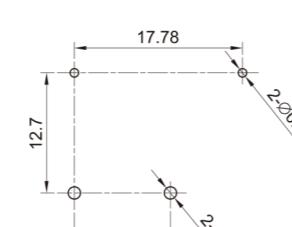
1 Form A



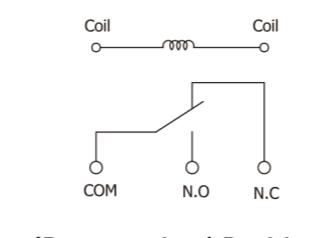
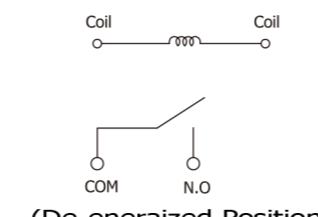
1 Form C



DRILLING(unit:mm)



WIRING DIAGRAM



COIL DATA CHART(at 20°C)

TRV TYPE					
Coil Sensitivity	Nominal Voltage (VDC)	Coil Resistance (Ω) ± 10%	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Allowable Voltage (max)
High Sensitivity Type (Form A only) (0.2W)	5	125	80% Max.	5% Min.	130%
	6	180			
	9	405			
	12	720			
	18	1620			
	24	2880			
	0.25W	48	9200 *		
Standard Type (0.45W)	5	55.5	80% Max.		
	6	80			
	9	180			
	12	320			
	18	720			
	24	1280			
	48	5120			
	0.6W	100	16600 *		

TRVF TYPE						
Coil Sensitivity	Nominal Voltage (VDC)	Coil Resistance (Ω) ± 10%	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Allowable Voltage (max)	
High Sensitivity Type (Form A only) (0.2W)	5	125	80% Max.	5% Min.	130%	
	6	180				
	9	405				
	12	720				
	18	1620				
	24	2880				
	48	11250				
Standard Type (0.45W)	5	62.5		80% Max.		
	6	90				
	9	202.5				
	12	360				
	18	810				
	24	1440				
	48	5760				

CONTACT RATING

Item	TRV			TRVF	
	FORM A		FORM C	FORM A	
Contact Capacity Resistive Load (cosΦ=1)	16A 125VAC 16A 250VAC 16A 30VDC	16A 125VAC 16A 250VAC 16A 30VDC	15A 125VAC 15A 250VAC 12A 30VDC	TV-5 125VAC 16A 125VAC 10A 250VAC/125VAC 10A 30VDC	10A 250VAC 6A 250VAC
Rated Carrying Current	16A	16A	12A	16A	10A 6A
Max. Allowable Voltage	250VAC/30VDC			250VAC/30VDC	
Max. Allowable Current	16A	16A	12A	16	10A 6A
Max. Allowable Power Force	2000VA 480W		2000VA 480W	1875VA 360W	2500VA 300W
Referenced Min. Applicable Load	5VDC , 100mA			5VDC , 100mA	
Contact Material	Silver Alloy			Silver Alloy	

PERFORMANCE(at initial value)

Item	TRV
Contact Resistance	100mΩ Max. (at 1A 6VDC)
Operation Time	10msec Max.
Release Time	5msec Max.
Dielectric Strength Between coil & contact Between contacts	1500VAC 50/60Hz (1 minute) 750VAC 50/60Hz (1 minute)
Insulation Resistance	100 MΩ Min. (at 500VDC)
Max. ON/OFF Switching Mechanically Electrically	300 operation/min 30 operation/min
Operating Ambient Temperature	-40°C to +70°C (No condensation)
Operating Ambient Temperature	-30°C to +60°C (No water condensation and no water drop)
Operating Humidity	45 to 80% RH
Coil Temperature Rise	30deg. Max. (at rated coil voltage)
Vibration Endurance Error Operation	10 to 55Hz Double Amplitude 1.6mm 10 to 55Hz Double Amplitude 1.6mm
Shock Endurance Error Operation	100G Min. 10G Min.
Life Expectancy Mechanically Electrically	5 × 10 ⁶ 1 × 10 ⁵
Weight	abt. 10g.
UL & cUL	E156521
TUV	R50050856

Only for reference, won't notify if any change.