

# Automotive Relay

# TRV6

- 80A continuous rating 85°C
- 1A,1B&1C arrangements
- Plug-in or PC board terminals
- Optional mounting bracket



28×28×23.7

## ■ ORDERING CODE

TRV6 — 12VDC (D1) — 1Z — F — P1  
 1            2            3            4            5            6

1. Relay Model 2. Coil Nominal Voltage 6,12,24VDC 3. None: Standard R1: Coil parallel with 1/2W resistor 680 Ω for Coil voltage 12VDC; 2700 Ω for coil voltage 24VDC D1: Coil parallel with diode IN4007 the positive pole "+" on #85 terminal D2: Coil parallel with diode IN4007 the positive pole "-" on #85 terminal	4. Contact Form 1Z: Form 1C 1H: Form 1A 1D: Form 1B 5. F: WITH BRACKET None: WITHOUT BRACKET 6. P1: PCB Type 5.3mm P2: PCB Type 3.2mm None: B Type
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## ■ COIL DATA

Nominal Voltage (VDC)	6	12	24	1.8W
Coil Resistance (Ω)	20	80	320	
Rated Current (mA)	300	150	75	
Max Operate Voltage (VDC)	3.9	7.8	15.6	
Min Release Voltage (VDC)	0.6	1.2	2.4	
Max Applicable Voltage	130% at 70°C, 170% at 23°C			

## ■ CONTACT DATA

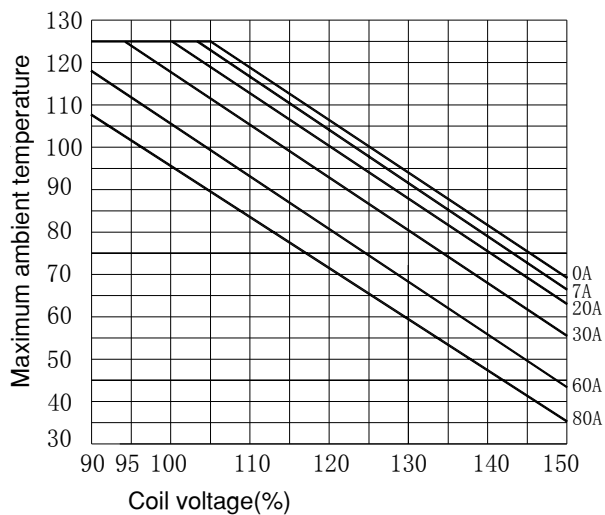
Contact Form	1H/1D/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS Φ 1)
Contact Ratings	NO: 50A 14VDC NC: 40A 14VDC
	NO: 80A 14VDC NC: 60A 14VDC
Minimum load	0.5A 12VDC
Max Switching Voltage	75VDC
Max Switching Current	80A
Max Switching Power	980W
Contact Resistance	100m Ω Max                      at 6VDC 1A
Life Expectancy	Electrical: 100,000 Operations(at30Operations/minute)
	Mechanical: 10,000,000 Operations(at300Operations/minute)

## ■ CENTACT DATA

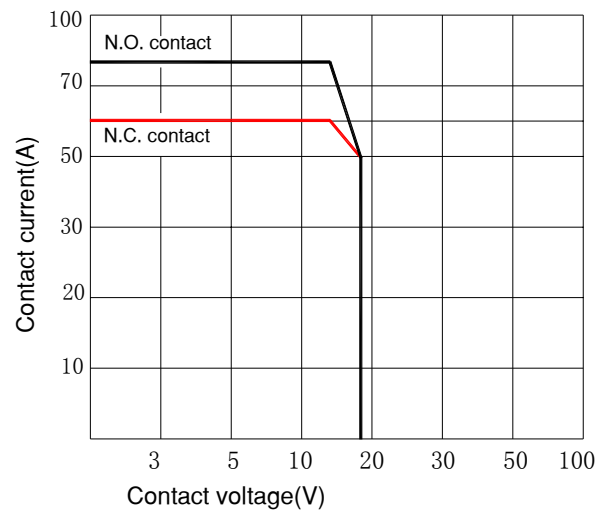
Insulation Resistance	100M $\Omega$ Min at 500VDC
Dielectric Strength Between Open Contacts	500VAC(for one minute)
Between Contacts and coil	500VAC(for one minute)
Operate Time	7ms
Release Time	5ms
Temperature Range	-40°C to +85°C
Shock Resistance	Operating Extremes: 20G
	Damage Limits: 100G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical: 18,000 operations/hr
	Electrical: 1,800 operations/hr
Humidity	40-85%
Weight	Approx 46g
Safety Standard	

## ■ ENGINEERING DATA

Ambient Temperature



Contact switching capacity



## OVERALL AND MOUNTING DIMENSIONS

