

Automotive Relay TRV4



ORDERING CODE

TRV4 L 12V(D1) Z F P

① ② ③ ④ ⑤ ⑥ ⑦

- ① Relay Model
- ② Coil Nominal D=1.9W, L=1.6W
- ③ Coil Nominal Voltage 3, 5, 6, 12, 24VDC

④ Blank : 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

⑤ Z : Form C, H : Form A, D : Form B

⑥ WITH BRACKET None : WITHOUT BRACKET

⑦ P : PCB Type None : B Type

COIL DATA

Nominal Voltage(VDC)	3	5	6	12	24	Coil Power
Coil Resistance(Ω)	6	16	23	90	360	1.6W
Rated Current(mA)	533	320	267	133	67	
Max Operate Voltage(VDC)	1.95	3.25	3.9	7.8	15.6	
Min Release Voltage(VDC)	0.3	0.5	0.6	1.2	2.4	
Coil Resistance(Ω)	5	13	19	76	300	
Rated Current(mA)	633	380	317	158	79	
Max Operate Voltage(VDC)	1.95	3.25	3.9	7.8	15.6	
Min Release Voltage(VDC)	0.3	0.5	0.6	1.2	2.4	
Max Applicable Voltage	70 $^{\circ}$ C, 130%, 23 $^{\circ}$ C, 170%					

CONTACT DATA

Contact Form	1H/1Z
Contact Material	Silver Alloy
Load	Resistive load(COS ϕ 1)
Contact Ratings	NO: 40A 14VDC NC: 30A 14VDC
Max Switching Voltage	30VDC
Max Switching Current	40A
Max Switching Power	560W
Contact Resistance	100m Ω Max at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30 Operations/minute) Mechanical : 10,000,000 Operations

GENERAL DATA

Insulation Resistance		100M Ω Min at 500VDC
Dielectric Strength Between Open Contacts		500VAC(for one minute)
Between Contacts and coil		750VAC(for one minute)
Operate Time		10ms
Release Time		10ms
Temperature Range		-40 $^{\circ}$ Cto+70 $^{\circ}$ C
Shock Resistance	Operating Extremes	20G
	Damage Limits	100G
Vibration Resistance		10-55Hz, 1.5mm
Max. switching frequency	Mechanical	18,000operations/hr
	Electrical	1,800operations/hr
Humidity		40-85%
Weight		Approx 40g

OVERALL AND MOUNTING DIMENSIONS

