Automotive Relay | TRS

- 30A 16VDC switching rating
- 40A inrush at 16VDC
- Smallest power relay
- 1 Form A and 1 Form C arrangements in single and dual relay packages
- For Automotive Applications
- Conform to ROHS,ELV directive

13.2×12×9.8

■ORDERING CODE

TRS — D — 12VDC — S — H
1 2 3 4 5

1. Relay Model
2. Coil Power
   L: 0.57W
   D: 0.8W
3. Coil Nominal Voltage
   6,12,24VDC
4. S: Sealed
   Nil: snap-on (Flux-tight)
5. Contact Form
   H: Form A
   Z: Form C

■COIL DATA at 20℃ Rated Current(mA)

Nominal Voltage (VDC)	Coil Resistance (Ω ±10%)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Power CW)	Max Applicable Voltage	
					At 23℃	At 105℃
6	63	3.5	0.6	0.57W	13	8
12	253	6.9	1.2	0.57W	26	16
24	1016	13.8	2.4	0.57W	52	32
6	45	3.5	0.6	0.8W	11	7
12	180	6.9	1.2	0.8W	22	13.5
24	720	13.8	2.4	0.8W	44	27

■CONTACT DATA

Contact Form 1H(From 1A)/1Z(From 1C)

Contact Material: Silver Alloy

Max Load Current (@14VDC Voltage)

Load	From A (NO)	FROM C	
		NO	NC
Max Continuous Current	**30A**	**30A**	**25A**
Max Break Current	**30A**	**30A**	**25A**
Max Make Current AgSnO	**100A**	**100A**	**15A**

Over Load Current: 50A 5sec; 87.5A 0.5sec; 150A 0.1sec

Max Switching Power: 420W

Minimum load: 0.5A 12VDC

Contact Resistance: 100mΩMax at 6VDC 1A

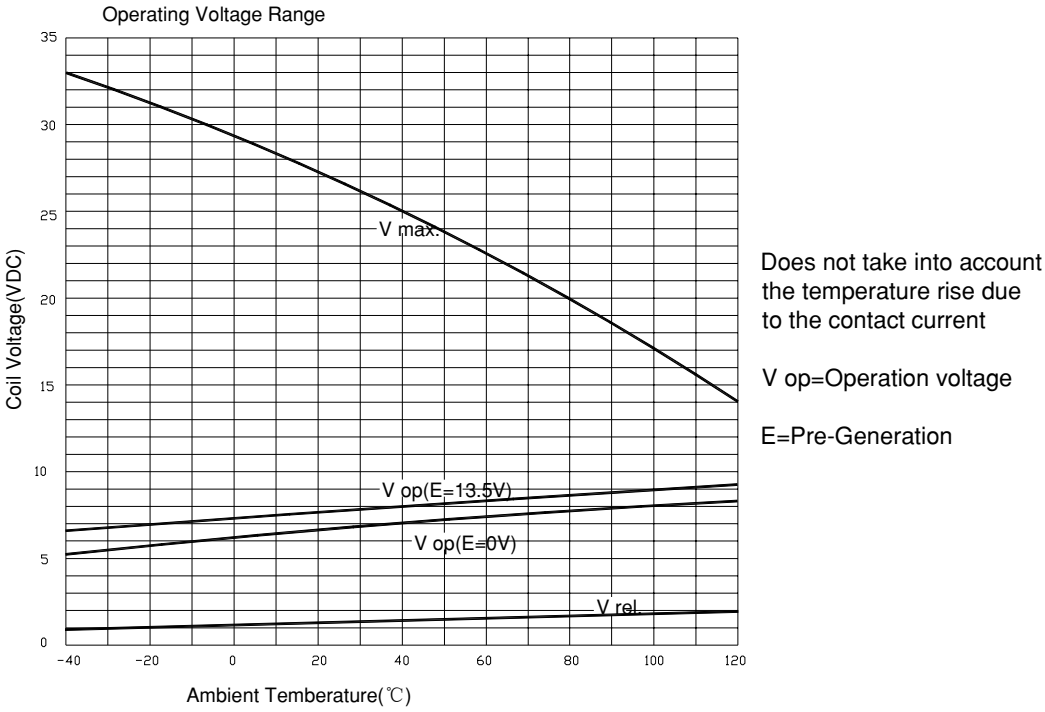
Expected Electrical life: 100, 000 Operations at 20Amps 14VDC resistive load on normally open contact

Expected Mechanical life: 10, 000, 000 Operations

■GENERAL DATA

Insulation Resistance	100MΩMin at 500VDC
Between Contacts and coil	500VAC(for one minute)
Operate Time	4ms
Release Time	2ms
Temperature Range	-40℃to+105℃
Shock Resistance	6 msec up to 30g (No change in the switching state>10μsec)
Vibration Resistance	10-500Hz, 6g (No change in the switching state>10μsec)
Max. switching frequency	Mechanical:18,000 operations/hr Electrical:1,800 operations/hr
Humidity	20-50%
Weight	Approx 4g

■ENGINEERING DATA



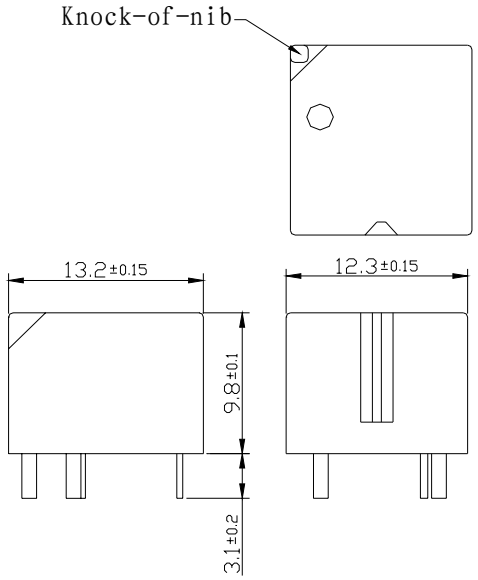
Does not take into account the temperature rise due to the contact current

V op=Operation voltage

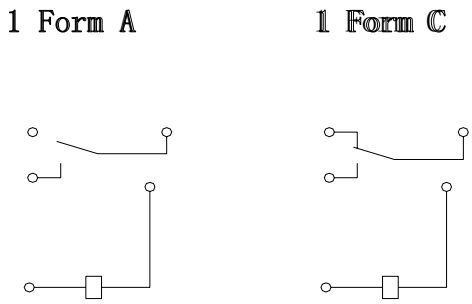
E=Pre-Generation

■OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions-Single Relay



Wiring Diagrams-Single Relay(Bottom Views)



Suggested PC Board Layout-Single Relay(Bottom View)