



TR94

80 Amp. High Current Automotive Relay

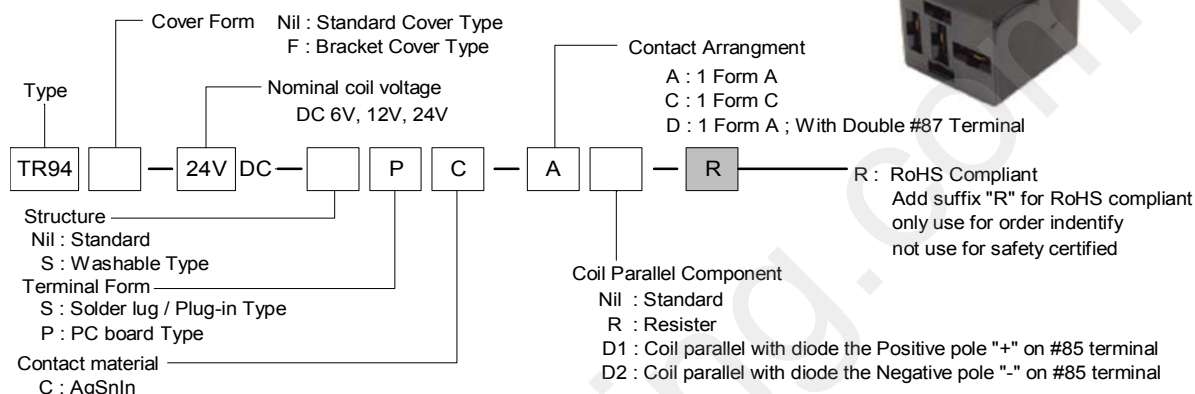
MAIN FEATURES

- Plug-in terminals, easy to handle worldwide changeable, with ISO socket.
- Small size, high capacity, rated load 80A.
- Usage of relay in car
- Compressor Light Starter Horn

APPLICATIONS

- For direct connection with Cell Motors, Transmission, etc. and Anti-Locking Brake System.

ORDERING INFORMATION



Option Socket :
Please refer appendix P107

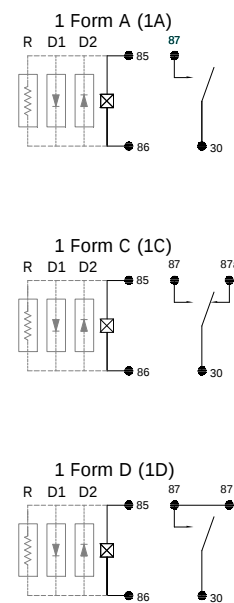
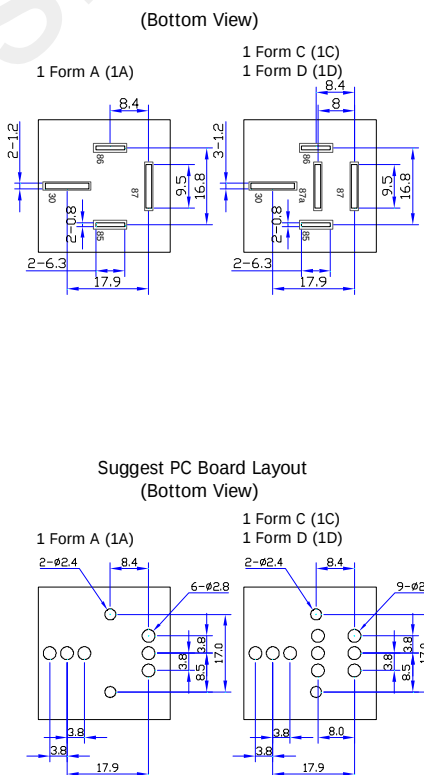
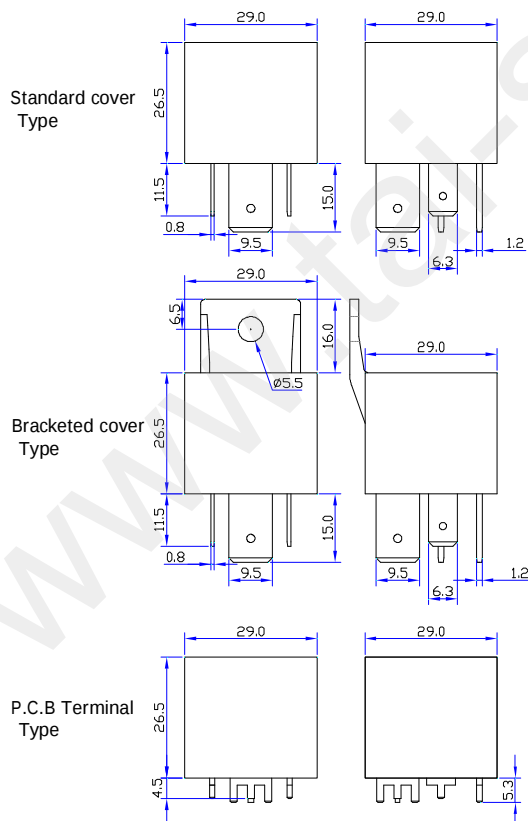


- OD07-0015A
- OD07-0016A

DIMENSION(unit:mm)

DRILLING(unit:mm)

WIRING DIAGRAM



* Coil Parallel Component Option

➤ **COIL DATA CHART**(at 20℃)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TR94	6	6	300	20	abt. 1.8	75% Max.	5% Min.	130% but for short time carrying current
	12	12	150	80				
	24	24	75	320				

➤ **CONTACT RATING**

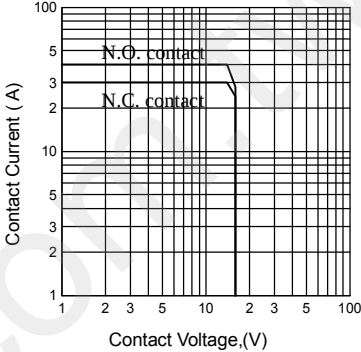
Item \ Type	TR94		
	1 Form A	1 Form C	1 Form D
Contact Rating	80A 14VDC	N.O. : 80A 14VDC N.C. : 60A 14VDC	2 x 25A/14VDC
Max. Carrying Current	80A		
Max. Make Current	120A		
Max. Break Current	80A		
Max. Switching Voltage	75VDC		
Max. Switching Power	70 ~ 500Watts DC		
Contact Material	Ag Alloy		

➤ **PERFORMANCE** (at initial value)

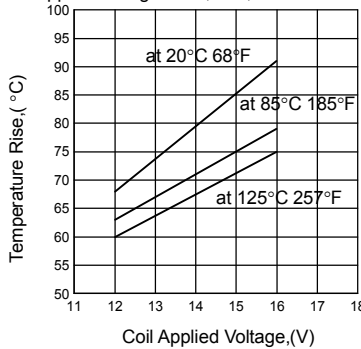
Item \ Type	TR94
Contact Resistance	100mΩ Max.
Operation Time	10msec Max.
Release Time	10msec Max. (type with diode inside : 20msec max.)
Dielectric Strength	Between coil & contact 500VAC 50/60Hz (1 minute) Between contacts 500VAC 50/60Hz (1 minute)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching	Mechanically 300 operation/min Electrically 30 operation/min
Operating Ambient Temperature	-30°C to +80°C (No water drop condensation)
Operating Humidity	80% (at 40°C) RH
Coil Temperature Rise	60 deg. Max. (at rated coil voltage)
Vibration	Endurance Error Operation
	10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock	Endurance Error Operation
	100G Min. 10G Min.
Life Expectancy	Mechanically Electrically
	1 × 10 ⁷ ops. 1 × 10 ⁵ ops.
Weight	abt. 45grs.

➤ **REFERENCE DATA**

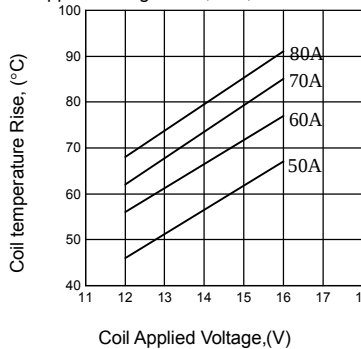
1. Maximum value for switching capacity
No. of operations : 10⁵



2-(1). Coil temperature rise (resistive)
Ambient temperature: 20°C, 85°C, 125°C;
68°F, 185°F, 257°F
Contact carrying current : 70A
Coil applied voltage : 12V, 14V, 16V DC



2-(1). Coil temperature rise (resistive)
Ambient temperature : 20°C, 68°C
Contact carrying current : 50A, 60A, 70A, 80A
Coil applied voltage : 12V, 14V, 16V DC



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.
(0949AA08VOL01)