



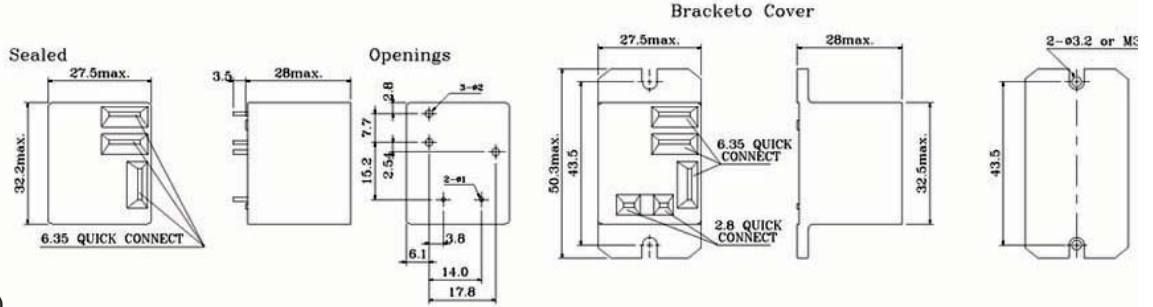
# Relays & Solenoids

## TTI\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



**TTI TR91**



**PERFORMANCE (at initial value)**

Item	Type	TR91
Contact Resistance		100mΩ Max.
Operation Time		DC : 15msec Max., AC : 20msec Max.
Release Time		DC : 10msec Max., AC : 15msec Max.
Dielectric Strength		2500VAC 50/60HZ (1 minute) 1500VAC
Insulation Resistance		1000 MΩ Min. (500VDC)
Max. ON/OFF Switching		300 operation/min Mechanically 30 operation/min Electrically
Operating Ambient Temperature		-55° to +85°C (operating) -55° to 155°C (storage)

Item	Type	TR91
Operating Humidity		45 to 80% RH
Coil Temperature Rise		60 deg. Max.
Vibration		10 to 55HZ Double Amplitude 1.5mm Endurance Error Operation
Shock		1000 m/sec (abt. 100g's) Endurance Error Operation
Life Expectancy		10X10 <sup>6</sup> Mechanically 10X10 <sup>4</sup> Electrically
Weight		abt. 33grs.

Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Type
22877	TR91-12D-SC-A	TTI	TTI Relay	32.2*27.5*28	1 From A	30A/240VAC	12VDC	TR91
22878	TR91-24D-SC-C	TTI	TTI Relay	32.2*27.5*28	1 From C	15A/240VAC	24VDC	TR91
22879	TR91F-12D-SC-C	TTI	TTI Relay	50.3*27.5*28	1 From C	20A/240VAC	12VDC	TR91F



**MAIN FEATURES**

- Small size, heavy duty, capable of 40A.
- Low contacts voltage drop ( $\leq 3\text{mV/A}$ ), reduce circuit consumption and contacts noise.
- Contact structure, performance reliable, with plug-in pins, bracket model available, handle with ease.
- Apply ISO standard, compliance with specification TL932 of VOIKSWSGEN AUTOMATIVE COMPANY FRG.

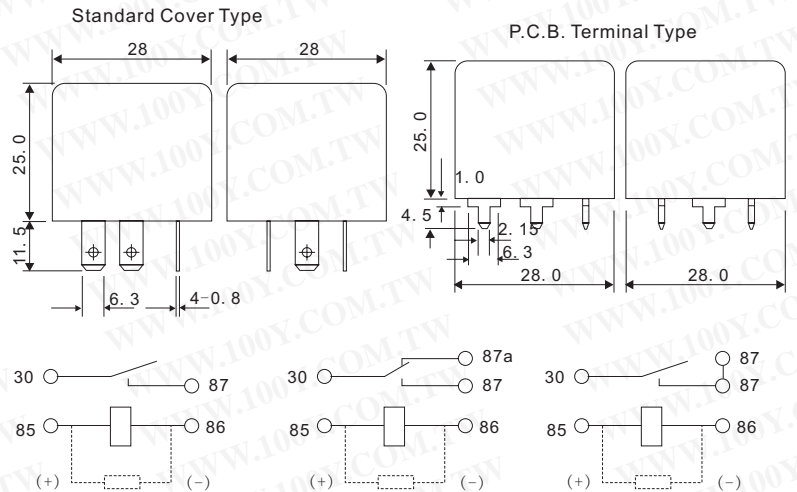


**APPLICATIONS**

- Car compressor, light, starter, horn. Automatic devices, communication equipment, control and switch circuit, etc.

**PERFORMANCE (at initial value)**

Item	Type	TR93
Contact Resistance		100mΩ Max.
Operation Time		15msec Max.
Release Time		15msec Max.
Dielectric Strength		500VAC 50/60Hz (1 minute) 500VAC 50/60Hz (1 minute)
Insulation Resistance		100 MΩ Min. (500VDC)
Max. ON/OFF Switching		300 operation/min Mechanically 30 operation/min Electrically
Operating Ambient Temperature		-40°C to +80°C (No water drop condensation)
Operating Humidity		45 to 85% RH
Coil Temperature Rise		60 deg. Max. (at rated coil voltage)
Vibration		10 to 55Hz Double Amplitude 1.5mm Endurance Error Operation
Weight		abt. 34grs.



Part No.	Product No.	Manufacturer	Description	Outline L*W*H	Contact Arrangement	Contact Rating	Coil Voltage	Type
22880	TR93-12D-PC-A	TTI	TTI Relay	28*28*25mm	1 From A	40A/14VDC	12VDC	TR93
22882	TR93-12D-SC-A	TTI	TTI Relay	28*28*25mm	1 From A	40A/14VDC	12VDC	TR93
22883	TR93-12D-SC-C	TTI	TTI Relay	28*28*25mm	1 From C	30A/14VDC	12VDC	TR93
22884	TR93-24D-PC-C	TTI	TTI Relay	28*28*25mm	1 From C	30A/14VDC	24VDC	TR93
22885	TR93-24D-SC-C	TTI	TTI Relay	28*28*25mm	1 From C	30A/14VDC	24VDC	TR93



T E L : Taiwan : 886-3-5753170  
F A X : Taiwan : 886-3-5753172  
E-mail : Taiwan : [us\\_sale@100y.com.tw](mailto:us_sale@100y.com.tw)

Shenzhen : 86-755-83298787  
Shenzhen : 86-755-83640655  
Shenzhen : 100y@163.com

Shanghai : 86-21-54151736  
Shanghai : 86-21-64605107  
Shanghai : 100y-1@163.com