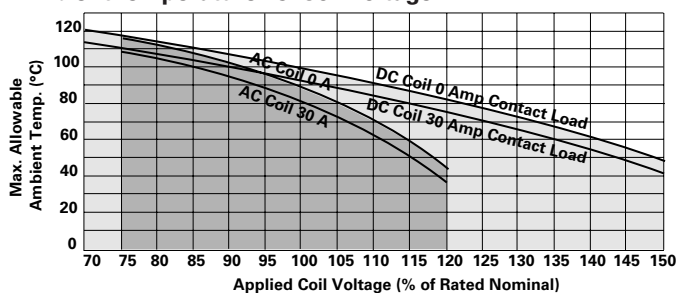


Ambient Temperature vs. Coil Voltage



Assumptions:

1. Thermal resistance = 35°C per Watt (DC only.)
2. Still air.
3. Nominal coil resistance.
4. Max. mean coil temperature = 155°C (change of resistance method).
5. Coil temperature rise due to load = 6.3°C @ 30 amps.
6. Curves are based on 1.7W at 25°C (DC only.)

Operate Data

Must Operate Voltage: AC Coil: 80% of nominal voltage or less.
DC Coil: 75% of nominal voltage or less.

Must Release Voltage: 10% of nominal voltage or more.

Initial Operate Time⁽²⁾: 15 ms typical, (25 ms max. w/bounce).

Initial Release Time⁽²⁾: 10 ms typical, (25 ms max. w/bounce).

Max Operating Frequency: 14 operations per minute.

Environmental Data

Temperature Range:

Storage: -55°C to +155°C.

Operating: AC Coil: -40°C to +65°C.

DC Coil: Silver cadmium oxide contacts: -40°C to +85°C.
Silver tin indium oxide contacts: -40°C to +70°C.

Vibration: 0.065" (1.65mm) double amplitude for 10-55 Hz., functional.

Shock, Operational: 10g for 11 ms, 1/2 sine wave pulse with no contact opening > 100µs.

Mechanical Data

Termination: Printed circuit terminals; .250" (6.35mm) quick connects for coil and contacts; .187" (4.75mm) quick connects for coil and .250" (6.35mm) quick connects for contacts; or M4 screws with captive pressure plates for coil and contacts.

Enclosure: Dust protected plastic case or wash-tight, tape sealed, (washable) plastic case.

Weight: 3 oz. (86g) approximately.

Conditions

All parametric, environmental and life tests are performed according to EIA Standard RS-407-A at standard test conditions (25°C ambient, 20-50% RH, 29.5 ± 1" Hg.) unless otherwise noted.

Notes

- (1) FLA, LRA ratings are compatible with 3.5 ton compressor applications.
- (2) Nominal voltage, no coil suppression, excluding bounce.

Ordering Information

Typical Part Number ►		T92	S	11	D	2	2	-24
1. Basic Series: T92 = Printed circuit board / panel mount power relay.								
2. Enclosure: P = Dust protected plastic case. S = Wash-tight, tape sealed, plastic case (Mounting & Termination Type 1). Top sealed, not wash-tight, not tape sealed on bottom (Mounting & Termination Types 2, 3 & 4).								
3. Contact Arrangement: 7 = 2 form A (DPST-NO). 11 = 2 form C (DPDT).								
4. Coil Input: A = AC voltage, 60 Hz. or 50/60 Hz. (See Coil Data Table) D = DC voltage.								
5. Mounting & Termination: 1 = Printed circuit board mount; printed circuit board terminals. 2 = Panel mount via flanged cover; .250" (6.35mm) x .032" (.81mm) quick connect terminals. 3 = Panel mount via flanged cover; .187" (4.75mm) x .032" (.81mm) quick connect terminals for coil and .250" (6.35mm) for contacts. 4 = Panel mount via flanged cover, .187" (4.75mm) x .020" (.51mm) quick connect terminals for coil and .250" (6.35mm) for contacts. 5 = Panel mount via flanged cover, M4 screw terminals w/ captive pressure plates. Requires Enclosure P and Contact Arrangement 7.								
6. Contact Material: 2 = Silver cadmium oxide. 4 = Silver tin indium oxide.								
7. Coil Voltage: (See Coil Data Table) (DC) 12 = 12VDC 24 = 24VDC 48 = 48VDC 110 = 110VDC (60Hz.) 12 = 12VAC 24 = 24VAC (50/60Hz.) 110 = 100/110VAC 120 = 110/120VAC 208 = 200/208VAC 240 = 220/240VAC 277 = 250/277VAC								

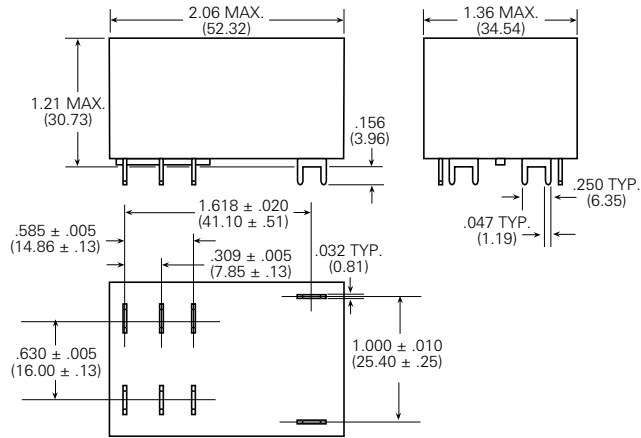
NOTE: All part numbers are RoHS compliant.

Stock Items – We recommend that our authorized distributors stock the following items for immediate delivery.

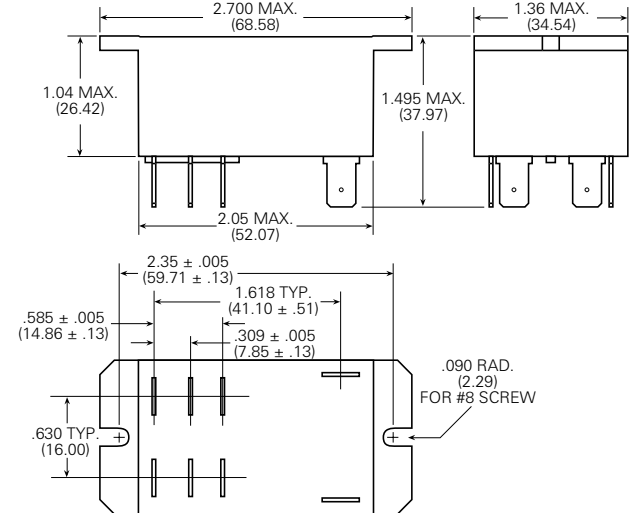
T92P7A22-24	T92P7A22-240	T92P7D12-24	T92P7D22-24	T92P11A22-120	T92P11D22-12	T92S7D12-12	T92S11D22-12
T92P7A22-120	T92P7D12-12	T92P7D22-12	T92P11A22-24	T92P11A22-240	T92P11D22-24	T92S7D12-24	T92S11D22-24

Outline Dimensions

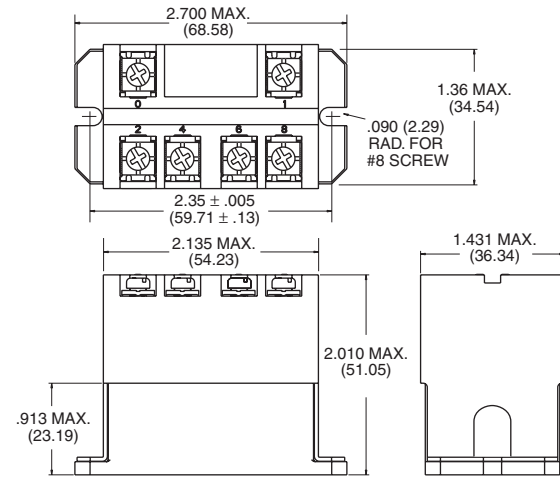
Mounting & Termination Type 1



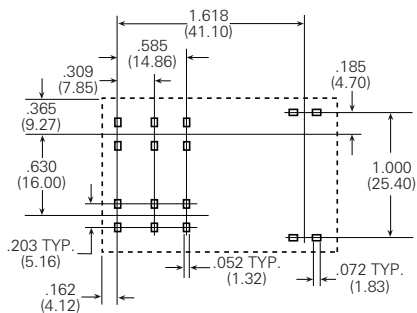
Mounting & Termination Types 2, 3 & 4



Mounting & Termination Type 5

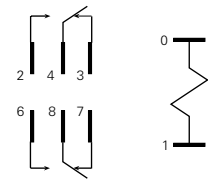


Suggested PC Board Layout (Bottom View)



Note: An alternate PC board layout utilizes .076 ± .003 (1.93 ± .076) diameter holes on the same center-to-center spacing shown above. Use of the rectangular holes is recommended for improved solderability.

Wiring Diagram



Only necessary terminals are present on single throw models.