PROGRAMMABLE | MULTI-RANGE

TR-6 SERIES TIME RANGER™

APPLICATION DATA

Voltage Tolerance:

AC Operation: 20.4 - 264V at 50/60 Hz

DC Operation: 10.2 - 137.5V

Load (Burden):

Maximum of 3 VA for all voltages

Setting Accuracy:

Maximum Setting (Adjustable): +5%. -0% Minimum Setting (Adjustable): +0%, -50%

Repeat Accuracy (constant voltage and temperature):

±0.1% or ±50ms, whichever is greater

Reset Time:

Functions Triggered with Input Voltage: 0.1 Seconds Functions Triggered with Control Switch: 0.04 Seconds

Start-up Time:

(Time from when power is applied until unit is timing) 0.05 Seconds

Maintain Function Time:

(Time unit continues to operate after power is removed) 0.01 Seconds

Temperature:

Operating: -28 ° to 65°C (-18° to 150°F) Storage: -40 ° to 85°C (-40° to 185°F)

Triggering Off Delay, Single Shot or Watchdog Units:

Timing sequence must be initiated only after input voltage is applied to unit. Minimum required trigger switch closure time is 0.1 seconds.

Compatibility:

Using a solid state switch to initiate the time sequence is acceptable.

Output Contacts:

DPDT 10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.) B300 & R300 (N.O.); AC15 & DC13

Mechanical: 10,000,000 operations 100,000 operations Full Load:

Approvals:

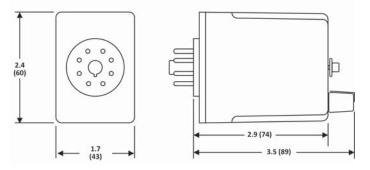
File #E109466

with Appropriate

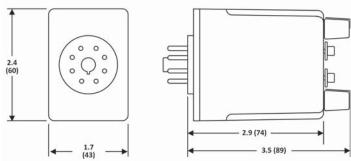
EMC Directives Macromatic Socket EN60947-1, EN60947-5-1

DIMENSIONS

TR-602, TR-605, TR608, TR609, TR-613, TR-615, TR-616, TR-617, TR-618 & TR-619



TR-631-TR-651, TR-661 & TR-665



All Dimensions in Inches (Millimeters)

PROGRAMMABLE | MULTI-RANGE TRUE OFF DELAY

TR-6 SERIES TIME RANGER™

APPLICATION DATA

Voltage Tolerance:

AC Operation: +10/-15% of nominal at 50/60 Hz

DC Operation: +10/-15% of nominal

Load (Burden):

Maximum of 2 VA for all voltages. These products draw a brief inrush current on power-up of 1A to charge the internal circuitry.

Setting Accuracy:

Maximum Setting (Adjustable): +5%, -0% Minimum Setting (Adjustable): +0%, -50%

Repeat Accuracy (constant voltage and temperature):

> 2 Seconds Delay $\pm 0.1\%$ 0.1 - 2 Seconds Delay $\pm 2\%$

Reset Time: 0.1 Seconds

Start-up Time:

(Time from when power is applied until unit is timing)

120 & 240V units 0.05 Seconds 12, 24 & 48V units 0.08 Seconds

Maintain Function Time:

(Time unit continues to operate after power is removed) 0.01 Seconds for all units

Temperature:

12-120V Input Voltage: -28° to 65°C (-18° to 150°F) 240V Input Voltage: -28° to 50°C (-18° to 122°F)

Compatibility:

Using a solid state switch to initiate the time sequence is acceptable.

Output Contacts:

DPDT 10A @ 240V AC; 8A @ 28V DC, 1/2 HP @ 240V AC, 1/4HP @ 120V AC B300 & R300

Life:

Mechanical: 2,000,000 operations Full Load: 100,000 operations

IMPORTANT: These relays are shipped from the factory in the OFF state. A shock to the relay during shipping or installation may cause it to change to the ON state. It is recommended that input voltage be applied to the product for at least 0.1 second and removed to cycle the unit to the OFF state prior to use in the application. Please note that it will take as long as the OFF Delay setting to reset the unit once input voltage has been removed.

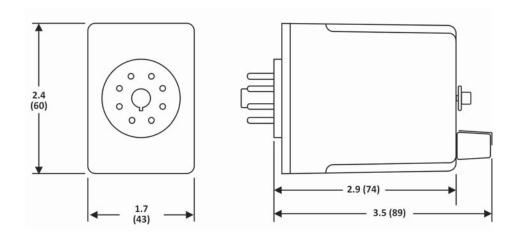
Approvals:





Low Voltage & EMC Directives EN60947-1, EN60947-5-1

DIMENSIONS



All Dimensions in Inches (Millimeters)