


## Delay On Make (Relay Output)

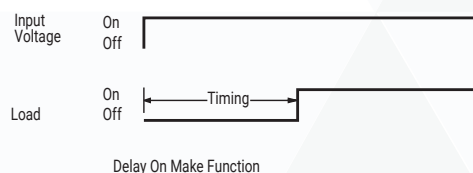
### Q1T Series

#### FEATURES

- Time delays to 5 hours standard
- Solid state digital timing
- 100% functionally tested
- 20:1 maximum to minimum timing
- ratio Sealed SPDT output contacts
- Compact size
- Superior transient protection
- Epoxy encapsulated
- Flame-retardant and solvent-resistant polyester thermoplastic housing
- Trimpot on-board with sealed cermet element
-  File #E65038

**Operating Logic:** Upon application of voltage to the input terminals L1, L2, the time delay is initiated. At the end of the preset time delay, the relay coil is energized and the contacts transfer. Reset is accomplished by removing voltage from the input terminals.

#### LOGIC FUNCTION DIAGRAM



#### SPECIFICATIONS

##### TIME DELAY

**Adjustment:** On-board Trimpot

**Range:** 50 ms to 5 hours in 8 ranges

**Repeatability:**  $\pm 5\%$  max. (0.25% typical) at constant temperature

**Accuracy:** Max. time +10%, -0%;

Minimum time -30%, +0%

Minimum time -45%, +10% for .05 second setting

**Reset Time:** .25 seconds max., by removal of the input voltage

##### INPUT

**Operating Voltage:** 12 VDC, 24 VAC

120 VAC  $\pm 10\%$

**Power Consumption:** 3.5 VA max.

**Frequency:** 50/60 Hz

##### OUTPUT

**Type:** Relay contacts, SPDT (1 form C)

**Rating:** 8 A max. resistive at 250 VAC and 30 VDC; 100 mA at 5 VDC min. load current

**Life:**

**Mechanical:** 10,000,000 cycles

**Electrical:** 100,000 min. at full load

##### PROTECTION

**Transient Voltage:** 1000 P.I.V. components used

**Isolation Resistance:** 100 megohms min. between terminals and case

**Dielectric Breakdown:** 3000 VAC, RMS, terminals to mounting; 1500 VAC, RMS, input to output

##### MECHANICAL

**Termination:** .25" x .032" male fast-on terminals

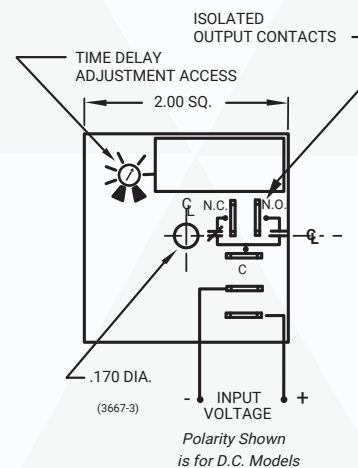
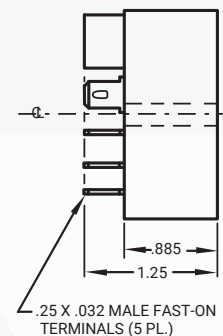
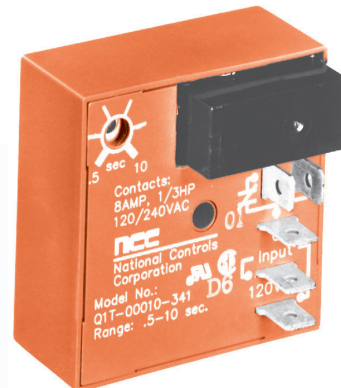
**Mounting:** Surface mount with one #8 screw

##### ENVIRONMENTAL

**Storage Temperature:** -40°C to 70°C

**Operating Temperature:** -40°C to 70°C

**Humidity:** 85% relative



## ORDERING INFORMATION

TIME RANGE	12 VDC $\pm 10\%$	24 VAC $\pm 10\%$	120 VAC $\pm 10\%$
.05 to 1 sec.	—	—	Q1T-00001-341
.25 to 5 sec.	—	—	Q1T-00005-341
.5 to 10 sec.	—	Q1T-00010-347	Q1T-00010-341
3 to 60 sec.	Q1T-00060-346	—	Q1T-00060-341
15 to 300 sec.	Q1T-00300-346	—	Q1T-00300-341
30 to 600 sec.	—	—	Q1T-00600-341
180 to 3600 sec.	—	—	Q1T-03600-341
.25 to 5 hrs.	—	—	Q1T-18000-341

Consult factory for any special requirements not listed in catalog (minimum order requirement may apply).