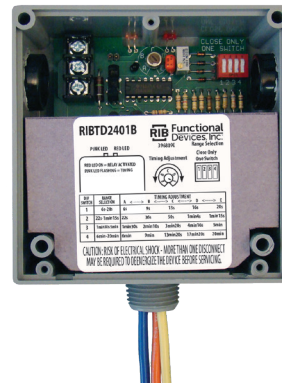
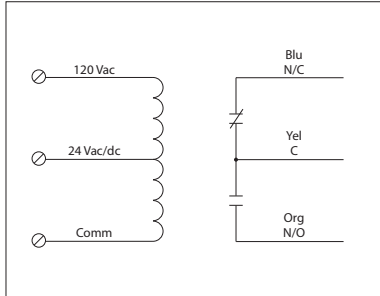


20 AMP TIME DELAY RELAY

RIBTD2401B

Time Delay Power Relay, 20 Amp SPDT, 24 Vac/dc/120 Vac Coil, NEMA 1 Housing



SPECIFICATIONS

- # Relays & Contact Type:** One (1) SPDT Continuous Duty Coil
- Expected Relay Life:** 10 million cycles minimum mechanical
- Operating Temperature:** -30 to 140° F
- Humidity Range:** 5 to 95% (noncondensing)
- Operate Time:** 6ms after time delay
- Relay Status:** RED LED On = Activated
- Time Delay Status:** PINK LED FLASHING = Timing
- Timing Mode:** Delay On Make (N/O)
- Timing Range:** 6 seconds - 20 minutes
- Timing Adjustment:** 4 position DIP switch for range selection and single turn potentiometer for timing adjustment within range
- Timing Tolerance:** Switches 1 & 2 = ±10%
Switches 3 & 4 = ±5%
- Timing Repeatability:** ±1%
- Temperature Timing Variance:** ±1%
- Voltage Timing Variance:** ±1%
- Recycle Time:** 750ms Maximum
- Dimensions:** 4.000" H x 4.000" W x 1.810" D with .50" NPT nipple
- Housing Detail:** See **Housing C** in housing guide for dimensions
- Origin:** Made of US and non-US parts
- Approvals:** UL Listed, UL916, C-UL, CE, RoHS
- Housing Rating:** UL Accepted for Use in Plenum, NEMA 1
- Gold Flash:** No
- Override Switch:** No

Contact Ratings:

- 20 Amp Resistive @ 277 Vac
- 20 Amp Ballast @ 277 Vac
- 16 Amp Electronic Ballast @ 277 Vac (N/O)
- 10 Amp Tungsten @ 120 Vac (N/O)
- 770 VA Pilot Duty @ 120 Vac
- 1,110 VA Pilot Duty @ 277 Vac
- 2 HP @ 277 Vac
- 1 HP @ 120 Vac

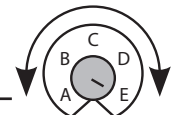
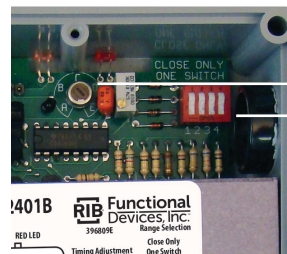
Input Current:

- 133 mA @ 24 Vac
- 45 mA @ 24 Vdc
- 51 mA @ 120 Vac

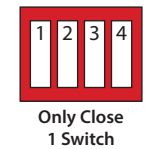
Coil Voltage Input:

- 24 Vac/dc; 120 Vac; 50-60 Hz
- Drop Out = 3 Vac / 3.8 Vdc
- Pull In = 20 Vac / 20 Vdc

Timing Adjustment



Range Selection



- ← Depressed for closed
- ← Depressed for open

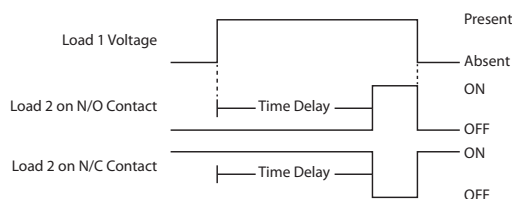
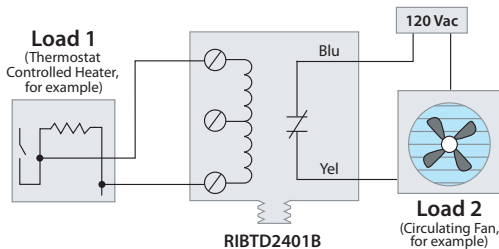
Only Close 1 Switch

TIMING TABLE

| Switch Ranges | Close Dip Switch | Potentiometer Setting | | | | |
|---------------|------------------|-----------------------|---------|----------|----------|---------|
| | | A | B | C | D | E |
| 6s-20s | 1 | 6s | 9s | 13s | 16s | 20s |
| 22s-1min15s | 2 | 22s | 36s | 50s | 1min4s | 1min15s |
| 1min30s-5min | 3 | 1min30s | 2min10s | 3min20s | 4min16s | 5min |
| 6min-20min | 4 | 6min | 9min | 13min20s | 17min20s | 20min |

Time Delay Application Example #1

Load 2 stays ON selected amount of time after Load 1 turns ON (N/C)
 Load 2 stays OFF selected amount of time after Load 1 turns ON (N/O)



Time Delay Application Example #2 (Requires an Inverting Relay)

Load 2 stays ON selected amount of time after Load 1 turns OFF (N/C)
 Load 2 stays OFF selected amount of time after Load 1 turns OFF (N/O)

