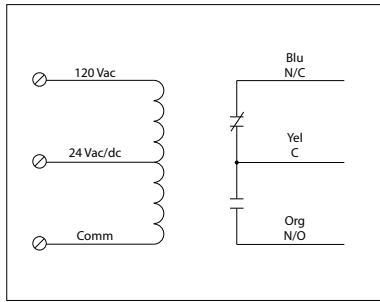


RIBTD2401B

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

RELAYS



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:

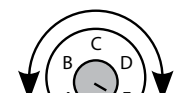
133 mA @ 24 Vac
45 mA @ 24 Vdc
51 mA @ 120 Vac

Coil Voltage Input:

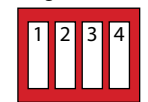
24 Vac/dc; 120 Vac; 50-60 Hz
Drop Out = 3 Vac / 3.8 Vdc
Pull In = 20 Vac / 20 Vdc



Timing Adjustment



Range Selection



Only Close
1 Switch

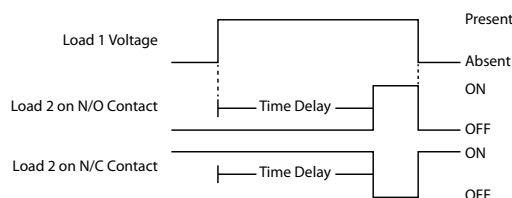
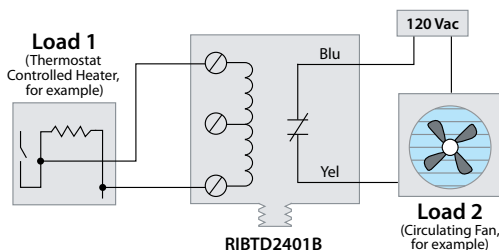
← Depressed
for closed
← Depressed
for open

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)

