

# Time Delay Relays

## VTD Series



### SPECIFICATIONS

<b>Operating Range</b>	85% to 110% of nominal voltage
<b>Drop-Out Voltage Threshold</b>	15% of nominal voltage
<b>Expected Relay Life</b>	Electrical (resistive @ rated current) 100,000 cycles; Mechanical (unpowered) 10,000,000 cycles
<b>Dielectric Strength</b>	1000VAC RMS
<b>Operating Temp Range</b>	-20°C to 55°C (-4 to 131°F)

### TYPICAL COIL PERFORMANCE

Power Consumption	
AC .....	2.5VA
DC .....	2W

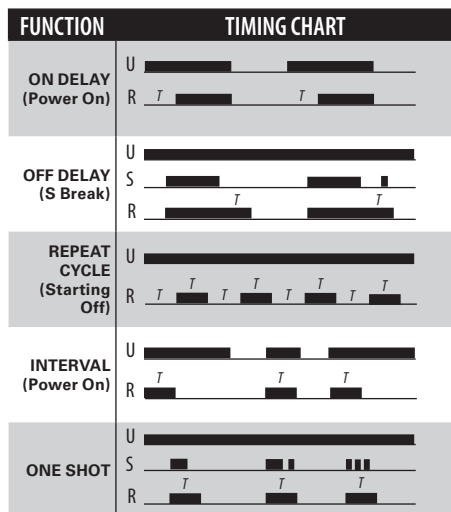
### CONTACT RATINGS

<b>(VTD2P-F50)</b>	
Resistive .....	12A@240VAC, 30VDC
Pilot Duty.....	B300
<b>(VTD1P-UNI, VTD2P-UNI)</b>	
Resistive .....	15A@240VAC, 24VDC
Motor .....	1/2HP@120VAC; 1HP@240VAC
Pilot Duty .....	B300

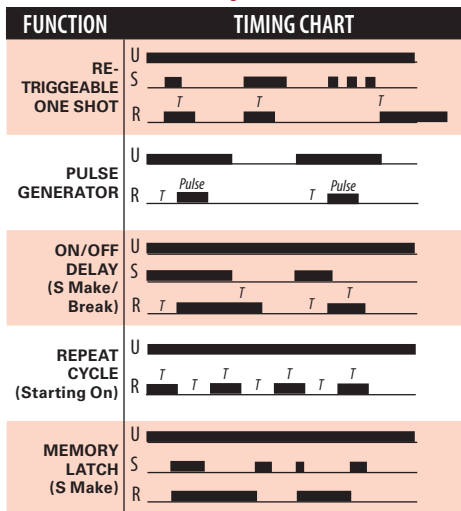
### TIMING CHARACTERISTICS

	VTD2P-F50	VTD1P-UNI, VTD2P-UNI
Functions Available	5	10
Time Ranges		
0.1 sec	0-999	1-10
sec	0-999	1-10
0.1 min	0-999	1-10
min	0-999	1-10
0.1 hr	0-999	1-10
hr	0-999	1-10
10 hr	0-999	---
0.1 day	---	1-10
day	---	1-10
Tolerance (mechanical setting)	0%	5%
Repeatability	0.1%	0.2%
Operate Time (max)	25ms	no spec
Reset Time (max)	150ms	150ms
Trigger Pulse Length (min)	---	50ms

### VTD2P-F50



### VTD1P-UNI, VTD2P-UNI



U: Applied input voltage  
R: Relay contacts (on or off)  
S: Control switch (open or closed)  
T: Time delay

### FEATURES

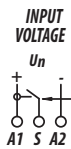
- VTD2P-F50 has thumb wheel adjustment for function and timing accuracy
- VTD1P/2P-UNI models are made with solid state relays for greater reliability
- Two different housings provide multiple mounting options

### DESCRIPTION

The Veris **VTD Series** are multi-function time delay relays equipped with an external control switch input and designed for easy socket/DIN mounting. The VTD2P-F50 includes five functions shown at left, while the VTD1P-UNI and VTD2P-UNI include the same five as the VTD2P-F50 plus five more, for the most versatile relay available. Save inventory costs by purchasing one relay for all the functions you need.

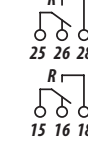
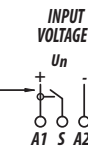
**WIRING DIAGRAM**

VTD1P-UNI



VTD2P-UNI

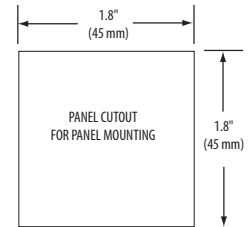
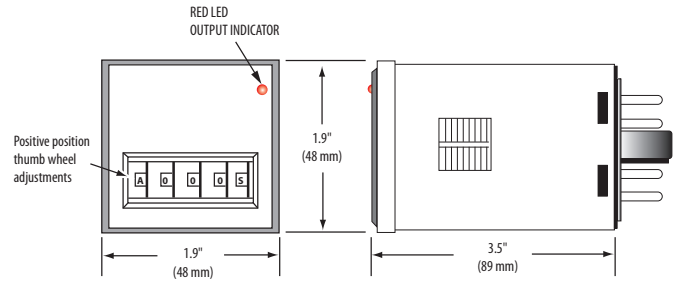
EXTERNAL CONTROL SWITCH



15 - COMMON  
16 - NORMALLY CLOSED  
18 - NORMALLY OPEN  
  
25 - COMMON  
26 - NORMALLY CLOSED  
28 - NORMALLY OPEN

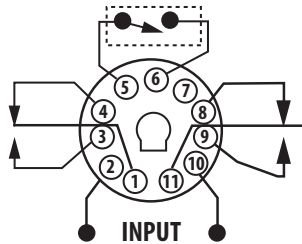
**DIMENSIONAL DRAWING**

VTD2P-F50

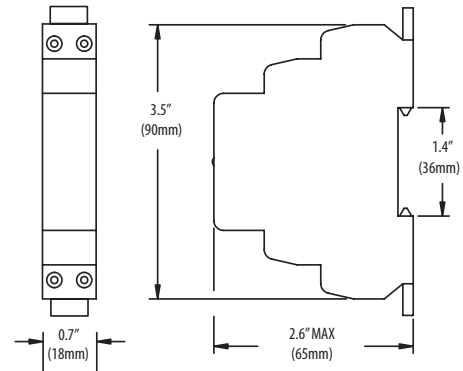


VTD2P-F50

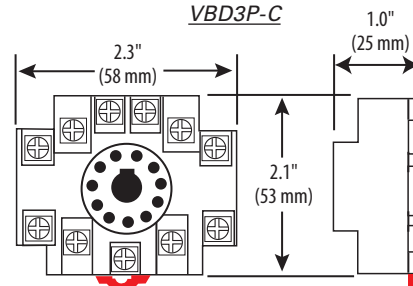
EXTERNAL CONTROL SWITCH



VTD1P-UNI/VTD2P-UNI



VBD3P-C



**RELAY ORDERING INFORMATION**



MODEL	RELAY STYLE	No. of FUNCTIONS	AMPERAGE RANGE	COIL VOLTAGE	MIN. SWITCHING CURRENT	UL	CE
VTD2P-F50	DPDT	5	12	24-240VAC/DC	100mA@5VDC	Recognized*	●
VTD1P-UNI	SPDT	10	15	24-240VAC/DC		Listed	●
VTD2P-UNI	DPDT	10	15	24-240VAC/DC		Listed	●

\*UL Listed when used with Veris socket

**SOCKET ORDERING INFORMATION**

MODEL	AMPERAGE RATING	VOLTAGE RATING	UL	CE
VBD3P-C	15A	300	●	●

When relays and sockets are used together, the overall amperage rating is the lesser of the two ratings.