

# Delay On Make (ON Delay) CT-ERD Timer Relay Output

5



- 17.5 mm Wide, 35 mm DIN Rail Mounting
- 0.05 s ... 100 h in 7 Ranges
- Repeat Accuracy  $\leq \pm 0.5\%$
- 6 A Isolated SPDT Relay Output
- 2 LED's Indicate Status
- 24 ... 240 V AC; 24 ... 48 V DC

Approvals: cULus LISTED

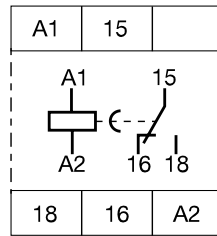
### Operation

**Delay On Make (ON-delay):** Upon application of supply voltage, the time delay begins and the green LED flashes. The output relay is de-energized before and during the time delay. At the end of the time delay, the output relay energizes and the red and green LEDs glow. The output remains energized until supply voltage is removed.

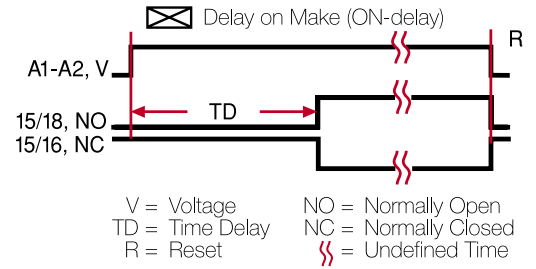
**Reset:** Removing supply voltage resets the time delay and the output relay.

LED Operation	Green LED	Red LED
Voltage Applied	ON	N/A
Relay Energized	ON	ON
Timing	Flashing	OFF
Voltage Removed	OFF	OFF

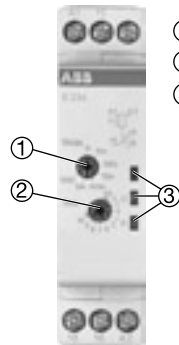
### Connection



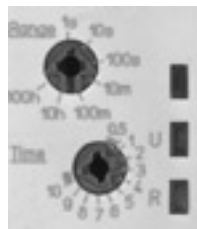
### Function



### Face View



- ① - Time range selection switch, 7 ranges
  - ② - Time delay adjustment
  - ③ - LED Indicators
- R-Red - Output relay energized  
U-Green - Voltage applied  
U-Green (Flashing) - Timing



The time range selection switch displays the longest time delay in the range in seconds, minutes, or hours.

The time delay adjustment has a 0.5 to 10 reference dial. Use the time range setting as a multiplier, 1s = x0.1, 100s = x10.

### Accessories



See accessory pages for specifications.

### Ordering Table

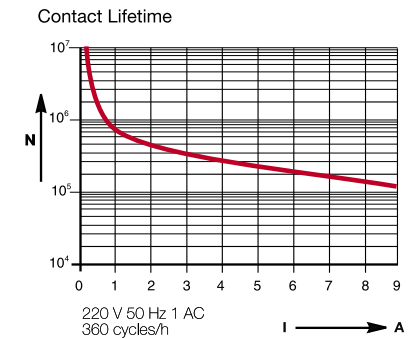
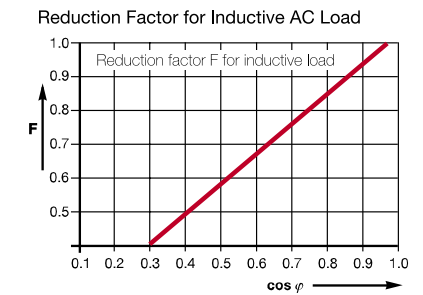
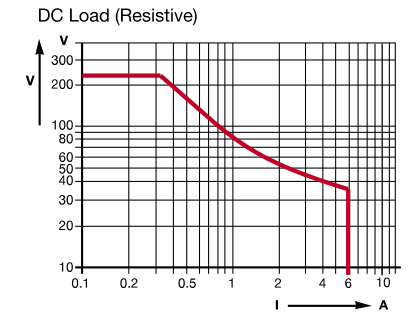
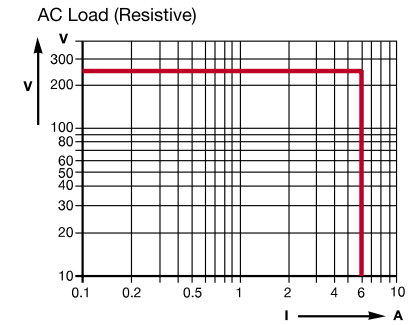
Supply Voltage	Time Ranges	Part Number
24 ... 240 V AC 24...48 V DC	0.05 ... 1 s	1SVR 500 100 R 0000
	0.5 ... 10 s	
	5.0 ... 100 s	
	0.5 ... 10 m	
	5.0 ... 100 m	
	0.5 ... 10 h	
	5.0 ... 100 h	

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## Technical Data

<b>Input</b>		
Voltage/Power Consumption	A1-A2	24 ... 240 V AC; 24 ... 48 V DC/ $\approx$ 2.0 VA/W
Tolerance		-15 % ... +10 %
Frequency		50 ... 60 Hz
<b>Time Delay</b>		
Range		0.05 s ... 100 h in 7 Ranges
Recycle Time		$\leq$ 50 ms
Repeat Accuracy		$\leq$ +/- 0.5%
Time Delay vs Input Voltage Tolerance		$\leq$ 0.5%
Time Delay vs Temperature		$\leq$ 0.06%/°C
<b>Status Display</b>		
Supply Voltage		LED green
Output Relay Energized		LED red
<b>Output</b>		
Rated Voltage	15-16/18	Isolated SPDT Relay
Rating	VDE 0100, IEC947-1	250 V
		6 A resistive @ 230 V AC (AC 12)
		3 A inductive @ 230 V AC (AC 15)
		6 A resistive @ 24 V DC (DC 12)
		2 A inductive @ 24 V DC (DC 13)
Switching Voltage		$\leq$ 240 V AC
Mechanical Life		$\leq$ 30 x 10 <sup>6</sup> operations
Electrical Life (4A resistive @ 230 V AC)		$\leq$ 1 x 10 <sup>5</sup> operations
External Fuse For (NO) Contact Protection		$\leq$ 10 A fast acting
<b>General</b>		
Rated Impulse Withstand Voltage (Vimp)		4 kV/1.2 ... 50 $\mu$ S
Operating/Storage Temperature		-20°C ... +60°C / -40°C ... +85°C
Mounting on DIN Rail (EN 50022)		Snap-on mounting/Screw mounting with adaptor
Wire Size Stranded with Wire End Ferrules		2 x 14 AWG (2 x 2.5 mm <sup>2</sup> )
Weight		$\approx$ 2.1 oz (60 g)
Dimensions (W x H x D)		0.69 x 2.76 x 2.48 in (17.5 x 70 x 63 mm)

## Load Limit Curves



## Mechanical View

