

## Features

- Single coil or double latching power relay
- Creepage distance 8.4mm
- Heavy contact load, strong shock and vibration resistance
- UL/CUL certified



## Contact Data\*

Contact Arrangement	1A = SPST 1C = SPDT
Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO <sub>2</sub> , AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>
Maximum Switching Power	4000VA
Maximum Switching Voltage	300VAC
Maximum Switching Current	20A

Contact Rating N.O.	16A @ 250VAC resistive, 50k cycles, 85C ambient
N.C.	16A @ 250VAC resistive, 50k cycles, 85C ambient

## Coil Data\*

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max) 70% of rated voltage	Pulse Magnitude ms	Coil Power W	Operate Time ms	Reset Time ms
Rated	Max	.4W	.6W					
5	6.5	62.5	42	3.5	≥50	.4 .6	≤10	≤10
9	11.7	202.5	135	6.3				
12	15.6	360.0	240	8.4				
24	31.2	1440.0	886	16.8				

## General Data\*

Electrical Life @ rated load	50K cycles, average	
Mechanical Life	500K cycles, average	
Insulation Resistance	1000 Ω min. @ 500VDC initial	
Dielectric Strength	Coil to Contact	5000V rms min. @ sea level initial
	Contact to Contact	1000V rms min. @ sea level initial
Shock Resistance	98m/s <sup>2</sup> for 11 ms	
Vibration Resistance	1.50mm double amplitude 10~55Hz	
Operating Temperature	-40°C to +105°C	
Storage Temperature	-40°C to +155°C	
Solderability	260°C for 5 s	
Weight	13g	

\* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.



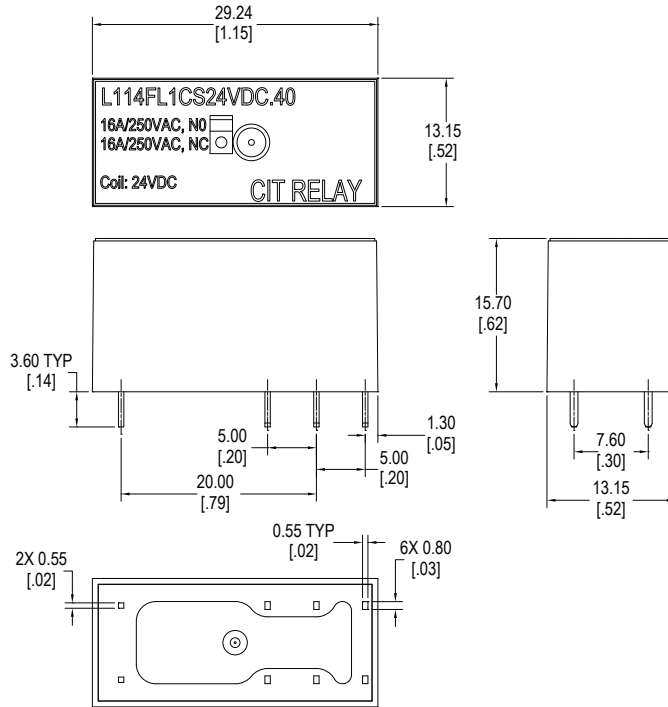
## Ordering Information

1. Series	L114FL	1C	S	12VDC	.40		
L114FL							
2. Contact Arrangement							
1A = SPST							
1C = SPDT							
3. Sealing Option							
S = Sealed (standard)							
4. Coil Voltage							
3VDC							
5VDC							
6VDC							
9VDC							
12VDC							
24VDC							
5. Coil Power							
.40 = .40W (single coil only)							
.60 = .60W (double coil only)							
6. Coil Polarity							
Blank = Standard Polarity (standard)							
R = Reversed Polarity							
7. Latching Options							
Blank - Single Coil Latching (standard)							
D = Double Coil Latching							
DA = Double Coil Latching - Alternate Set & Reset Positions							
8. Contact Material							
Blank = AgSnO <sub>2</sub>							
U = AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>							

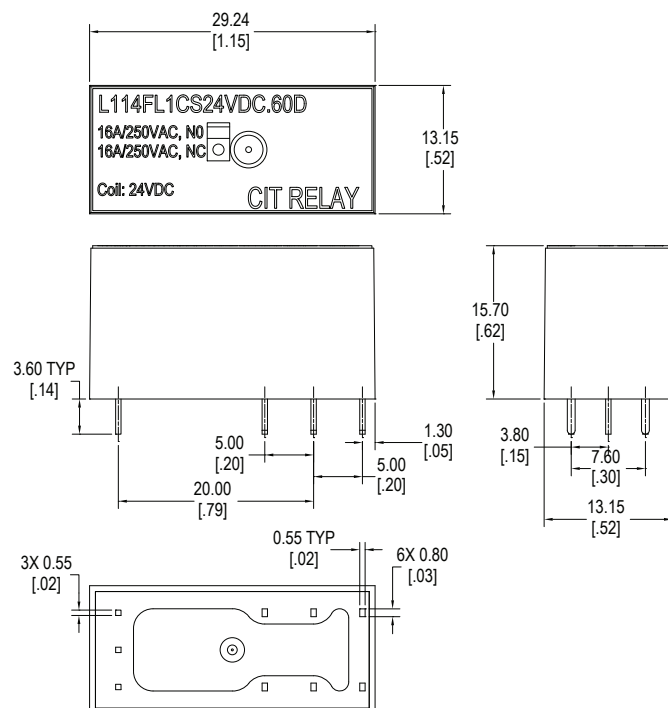
## Dimensions

Units = mm

### Standard Sealed - Single Coil



### Standard Sealed - Double Coil



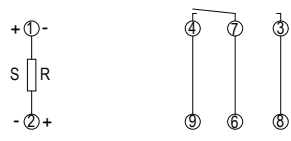


**Schematics & PC Layouts - Single Coil** Shown and supplied in the RESET position

**Bottom Views**



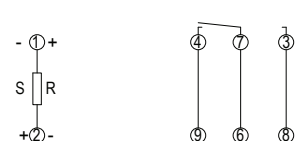
**1A**



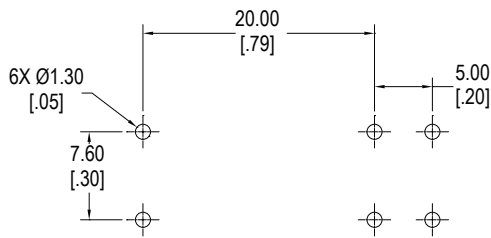
**1C**



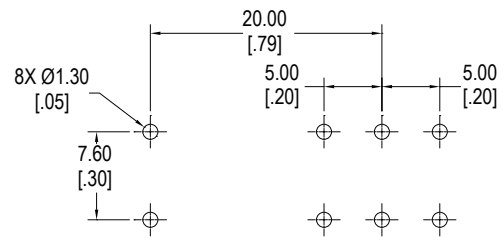
**1A Reversed Polarity**



**1C Reversed Polarity**



**1A Single Coil**



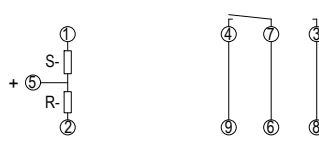
**1C Single Coil**

**Schematics & PC Layouts - Double Coil** Shown and supplied in the RESET position

**Bottom Views**



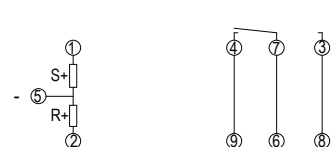
**1A**



**1C**



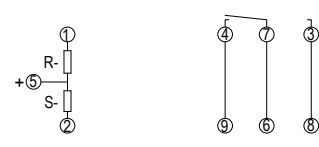
**1A Reversed Polarity**



**1C Reversed Polarity**



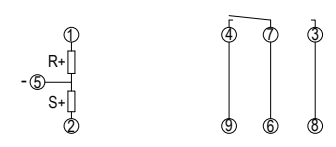
**1A Alternate Set & Reset**



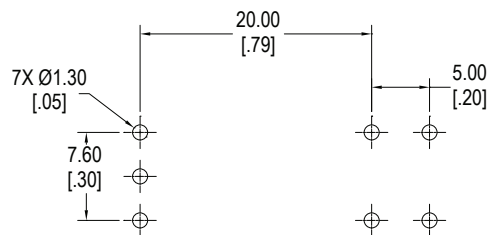
**1C Alternate Set & Reset**



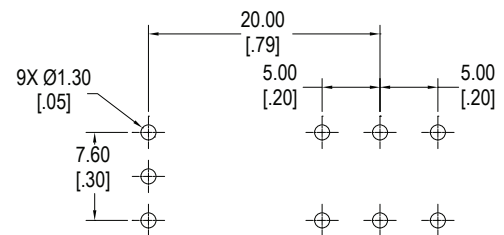
**1A Reversed Polarity  
Alternate Set & Reset**



**1C Reversed Polarity  
Alternate Set & Reset**



**1A Double Coil**



**1C Double Coil**