



## Features

- Switching capacity up to 20A
- PC pins and quick connect terminals
- Strong resistance to shock and vibration
- Designed to withstand high inrush
- Uses include household appliances

**cUL**<sup>®</sup>  
**US**  
E197851



## Contact Data\*

Contact Arrangement	1A = SPST N.O.
Contact Rating	25A @ 250VAC, General Purpose, 100K cycles, 105°C ambient 2hp@277, 30K cycles, 105°C ambient
Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO <sub>2</sub>

Maximum Switching Power	5000VA
Maximum Switching Voltage	300VAC
Maximum Switching Current	20A

## DC Coil Data\*

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
		.9W	75% of rated voltage	10% of rated voltage			
5	6.5	28	3.75	.50	.9	20	10
6	7.8	40	4.50	.60			
12	15.6	160	9.00	1.2			
24	31.2	640	18.00	2.4			
48	62.4	4267	36.00	3.6			

## General Data\*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact	4500V rms min. @ sea level initial
Contact to Contact	1500V rms min. @ sea level initial
Shock Resistance	200m/s <sup>2</sup> for 11 ms
Vibration Resistance	1.50mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-30°C to +55°C
Storage Temperature	-40°C to +85°C
Solderability	260°C for 5 s
Weight	23g

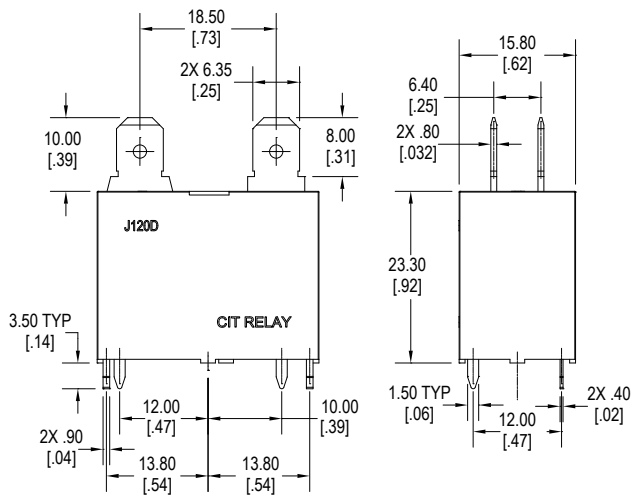
\* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

## Ordering Information

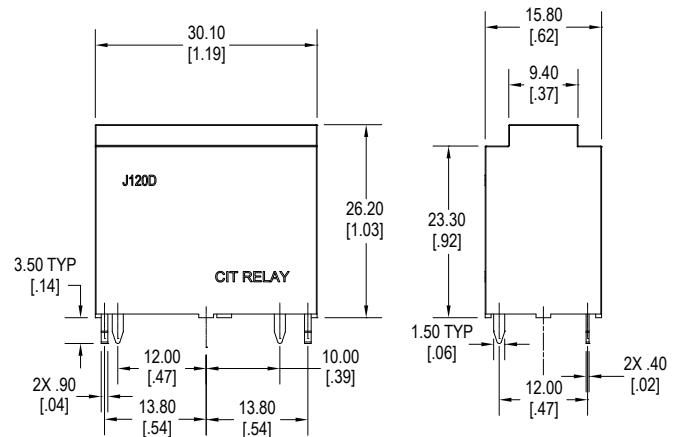
1. Series	J120D	1A	S	12VDC
J120D				
2. Contact Arrangement	1A = SPST N.O.			
3. Sealing Options	S = Sealed <i>Fully sealed for PC version, partially sealed for PC with Quick Connect version</i>			
4. Coil Voltage	5VDC 6VDC 12VDC 24VDC 48VDC			
5. Terminal Options	Blank = Quick Connect & PC pin P = PC pin only			

## Dimensions

Units = mm



Quick Connect Terminals and PC Pins



PC Pins only

## Schematics & PC Layouts

Bottom Views

