CIT Relay & Switch

J100

18.3 x 10.3 x 15.5 mm

Features

- Switching capacity up to 10A
- Small size and light weight
- Low coil power consumption
- High contact load

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E197851

RoHS COMPLIANT

Contact Data*

Contact Arrangement	1A = SPST N.O.
Contact Rating N.O.	10A @ 120VAC, Resistive, 10K cycles, 85°C ambient 10A @ 277VAC, Resistive, 10K cycles, 40°C ambient 5A @ 240VAC, Resistive, 10K cycles, 85°C ambient 5A @ 277VAC, General Purpose, 100K cycles, 105°C 3A @ 30VDC, Resistive, 10K cycles, 85°C ambient TV-5 @ 120VAC, 25K cycles, 40°C ambient ¼ hp @ 120/240/277VAC, 6K cycles, 40°C ambient

Contact Resistance	< 50 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	2770VA
Maximum Switching Voltage	277VAC
Maximum Switching Current	10A

Coil Data*

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max) 75% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.20W	.45W					
3	3.9	45	20	2.25	0.3	.20 or .45	10	10
5	6.5	125	55	3.75	0.5			
6	7.8	180	80	4.50	0.6			
9	11.7	405	180	6.75	0.9			
12	15.6	720	320	9.00	1.2			
18	22.8	1620	720	13.50	1.8			
24	31.2	2880	1280	18.00	2.4			
48	62.4	n/a	5120	36.00	4.8			

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, average
Insulation Resistance	1000M Ω min. @ 500VDC, initial
Dielectric Strength Coil to Contact	4000V rms min. @ sea level, initial
Contact to Contact	1000V rms min. @ sea level, initial
Shock Resistance	100m/s² for 11 ms
Vibration Resistance	1.50mm double amplitude 10~55Hz
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +125°C
Solderability	260°C for 5 s
Weight	7g

* *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.*

Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
J100 Rev B 10/2022

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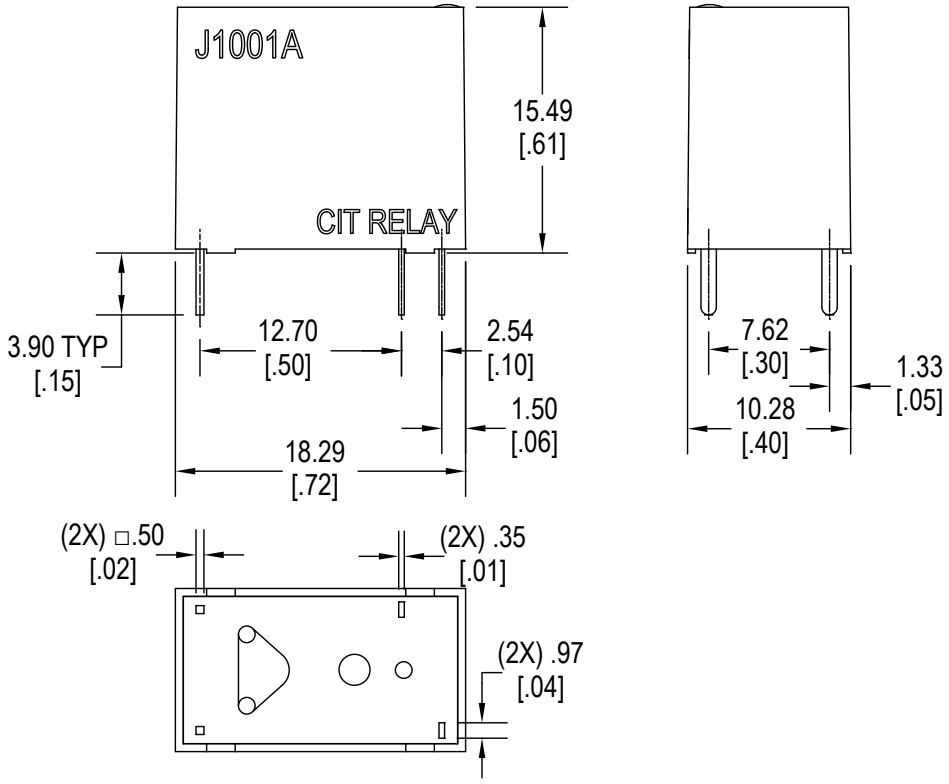
Ordering Information

1. Series J100	J100	1A	S	12VDC	.45
2. Contact Arrangement 1A = SPST N.O.					
3. Sealing Option S = Sealed, Standard					
4. Coil Voltage 3VDC 5VDC 6VDC 9VDC 12VDC 18VDC 24VDC 48VDC **only available with .45W coil power					
5. Coil Power .20 = .20W .45 = .45W					

Dimensions

Units = mm



Schematics & PC Layouts

Bottom Views